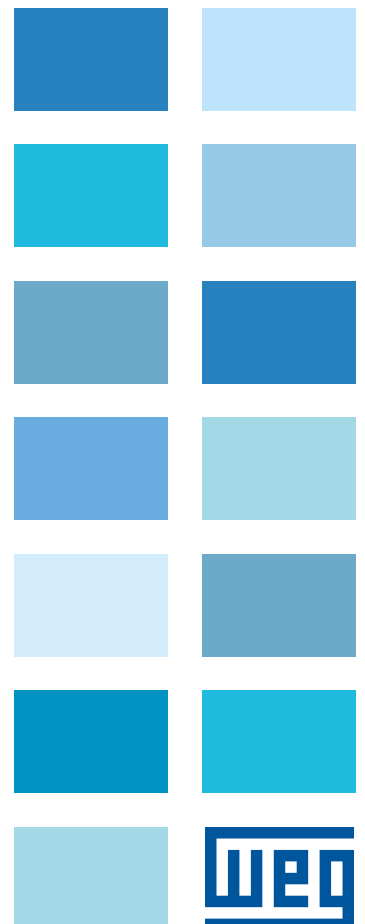


# Energy Efficiency Certificate

## ADV200-4

Language: English



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# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV-1007-KBX-4**

**IE2** EFFICIENCY: **94.1%**

Code **S9001**

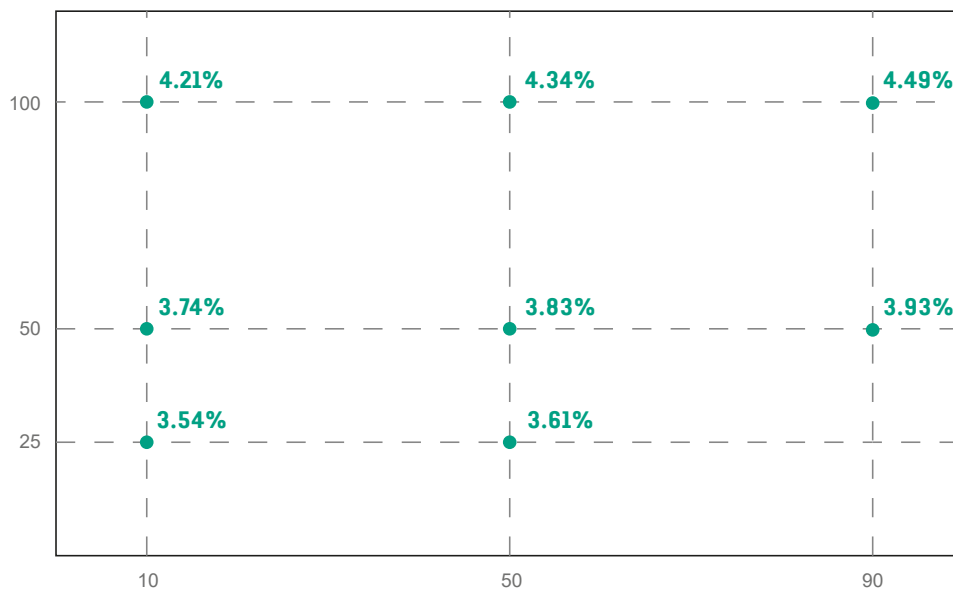
**R9001**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>0.75</b> |
| Nominal current                 | (A)   | <b>2.5</b>  |
| Nominal apparent power          | (kVA) | <b>1.6</b>  |
| Standby loss                    | (W)   | <b>6.65</b> |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 4.49%         | 73.13             | 94.1%        |
| 90          | 50        | 3.93%         | 64.00             | 92.8%        |
| 50          | 100       | 4.34%         | 70.71             | 90.1%        |
| 50          | 50        | 3.83%         | 62.41             | 88.0%        |
| 50          | 25        | 3.61%         | 58.81             | 86.4%        |
| 10          | 100       | 4.21%         | 68.49             | 65.3%        |
| 10          | 50        | 3.74%         | 60.92             | 60.0%        |
| 10          | 25        | 3.54%         | 57.62             | 56.4%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-1015-KBX-4**

**IE2**

**EFFICIENCY:**

**95.7%**

Code

**S9002**

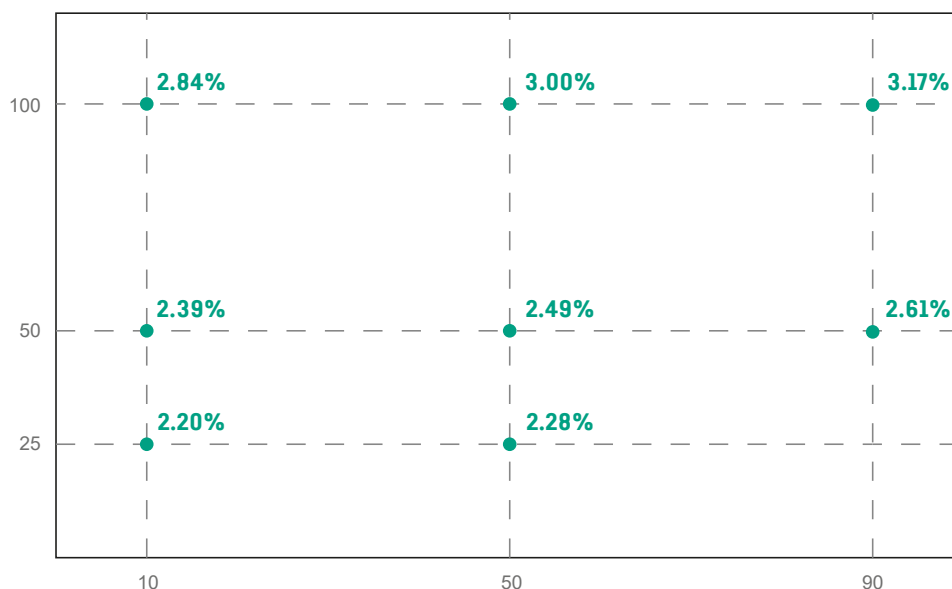
**R9002**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>1.5</b> |
| Nominal current                 | (A)   | <b>4,3</b> |
| Nominal apparent power          | (kVA) | <b>2.8</b> |
| Standby loss                    | (W)   | <b>8</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 3.17%         | 88.82             | 95.7%        |
| 90          | 50        | 2.61%         | 72.95             | 95.1%        |
| 50          | 100       | 3.00%         | 83.95             | 92.9%        |
| 50          | 50        | 2.49%         | 69.86             | 91.8%        |
| 50          | 25        | 2.28%         | 63.90             | 90.9%        |
| 10          | 100       | 2.84%         | 79.65             | 73.5%        |
| 10          | 50        | 2.39%         | 67.05             | 70.1%        |
| 10          | 25        | 2.20%         | 61.70             | 67.5%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-1022-KBX-4**

**IE2**

**EFFICIENCY:**

**96.0%**

Code

**S9003**

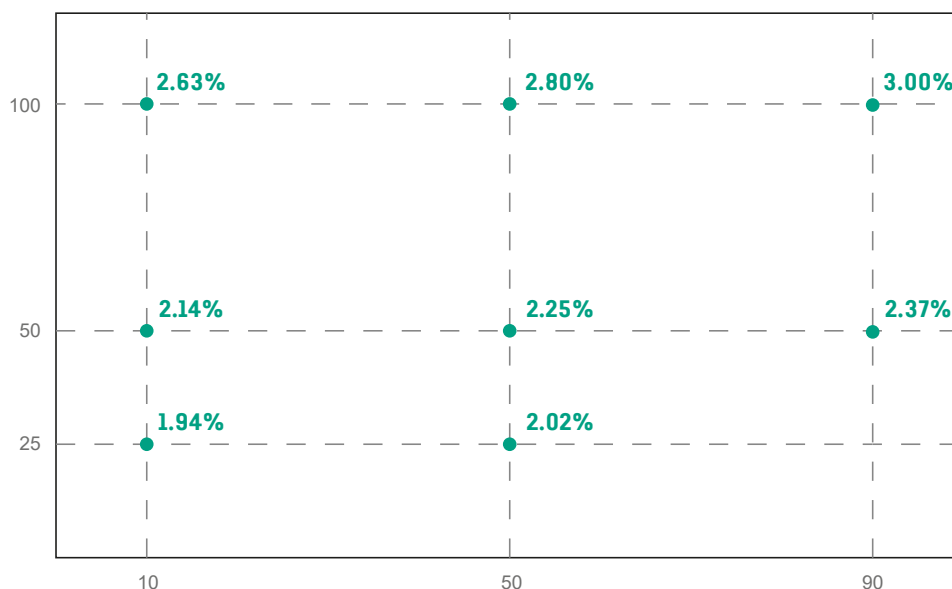
**R9003**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>2.2</b> |
| Nominal current                 | (A)   | <b>5.8</b> |
| Nominal apparent power          | (kVA) | <b>3.8</b> |
| Standby loss                    | (W)   | <b>10</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 3.00%         | 113.27            | 96.0%        |
| 90          | 50        | 2.37%         | 89.62             | 95.5%        |
| 50          | 100       | 2.80%         | 105.86            | 93.4%        |
| 50          | 50        | 2.25%         | 85.02             | 92.6%        |
| 50          | 25        | 2.02%         | 76.35             | 91.9%        |
| 10          | 100       | 2.63%         | 99.49             | 75.0%        |
| 10          | 50        | 2.14%         | 80.94             | 72.4%        |
| 10          | 25        | 1.94%         | 73.18             | 70.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-1030-KBX-4**

**IE2**

**EFFICIENCY:**

**95.8%**

Code

**S9004**

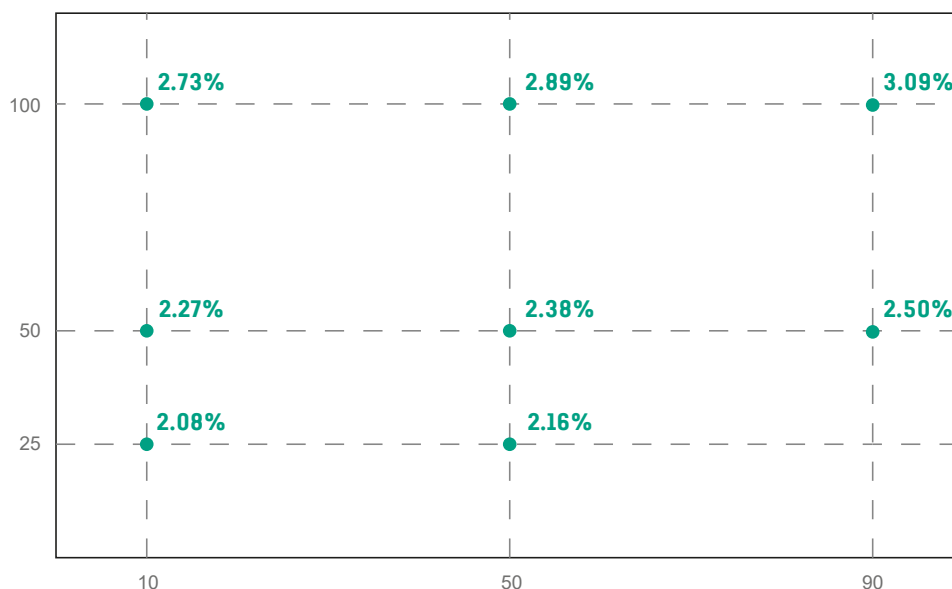
**R9004**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>3</b>   |
| Nominal current                 | (A)   | <b>7.6</b> |
| Nominal apparent power          | (kVA) | <b>5</b>   |
| Standby loss                    | (W)   | <b>14</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 3.09%         | 152.80            | 95.8%        |
| 90          | 50        | 2.50%         | 123.97            | 95.3%        |
| 50          | 100       | 2.89%         | 143.08            | 93.2%        |
| 50          | 50        | 2.38%         | 117.80            | 92.2%        |
| 50          | 25        | 2.16%         | 107.15            | 91.4%        |
| 10          | 100       | 2.73%         | 135.13            | 74.3%        |
| 10          | 50        | 2.27%         | 112.52            | 71.2%        |
| 10          | 25        | 2.08%         | 102.98            | 68.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-1040-KBX-4**

**IE2**

**EFFICIENCY:**

**96.2%**

Code

**S9005**

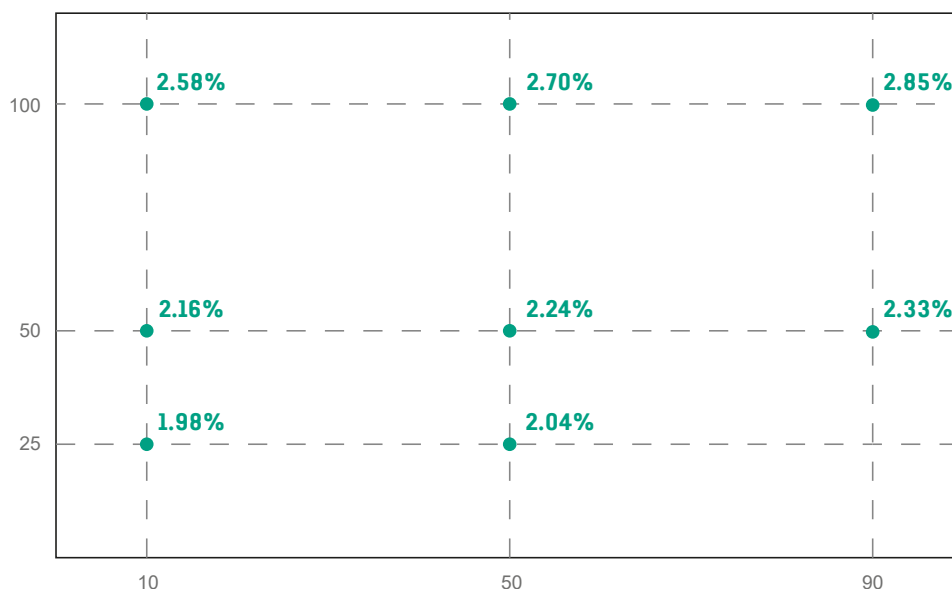
**R9005**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>4</b>   |
| Nominal current                 | (A)   | <b>7.6</b> |
| Nominal apparent power          | (kVA) | <b>5</b>   |
| Standby loss                    | (W)   | <b>16</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.85%         | 176.12            | 96.2%        |
| 90          | 50        | 2.33%         | 143.97            | 95.6%        |
| 50          | 100       | 2.70%         | 167.24            | 93.6%        |
| 50          | 50        | 2.24%         | 138.36            | 92.6%        |
| 50          | 25        | 2.04%         | 126.09            | 91.8%        |
| 10          | 100       | 2.58%         | 159.83            | 75.4%        |
| 10          | 50        | 2.16%         | 133.48            | 72.2%        |
| 10          | 25        | 1.98%         | 122.25            | 69.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-2055-KBX-4**

**IE2**

**EFFICIENCY:**

**96.6%**

Code

**S9006**

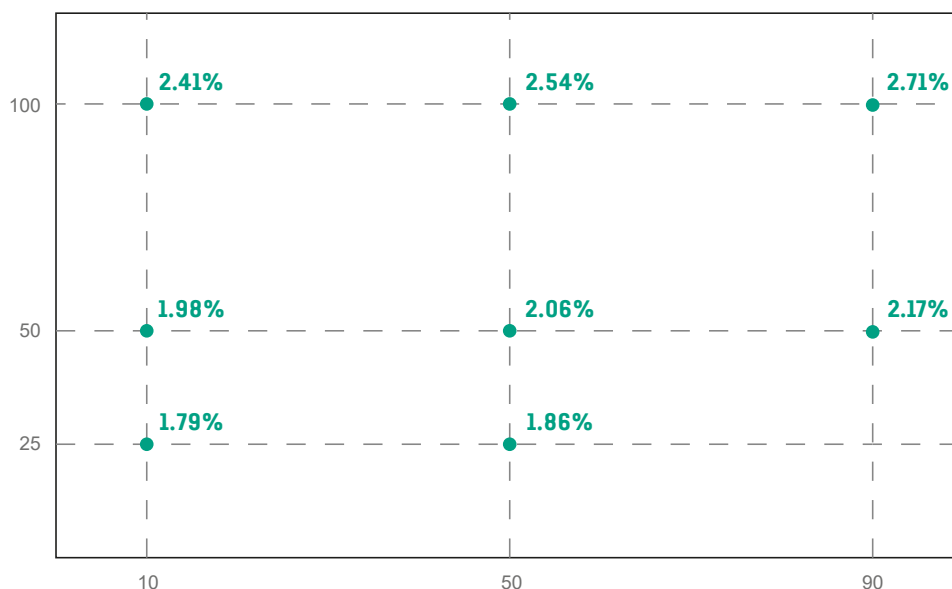
**R9006**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>5.5</b> |
| Nominal current                 | (A)   | <b>13</b>  |
| Nominal apparent power          | (kVA) | <b>8.5</b> |
| Standby loss                    | (W)   | <b>21</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.71%         | 229.84            | 96.6%        |
| 90          | 50        | 2.17%         | 183.71            | 96.2%        |
| 50          | 100       | 2.54%         | 215.21            | 94.4%        |
| 50          | 50        | 2.06%         | 174.66            | 93.6%        |
| 50          | 25        | 1.86%         | 157.40            | 93.0%        |
| 10          | 100       | 2.41%         | 203.83            | 77.9%        |
| 10          | 50        | 1.98%         | 167.26            | 75.3%        |
| 10          | 25        | 1.79%         | 151.60            | 73.4%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV-2075-KBX-4**

**IE2** EFFICIENCY: **96.7%**

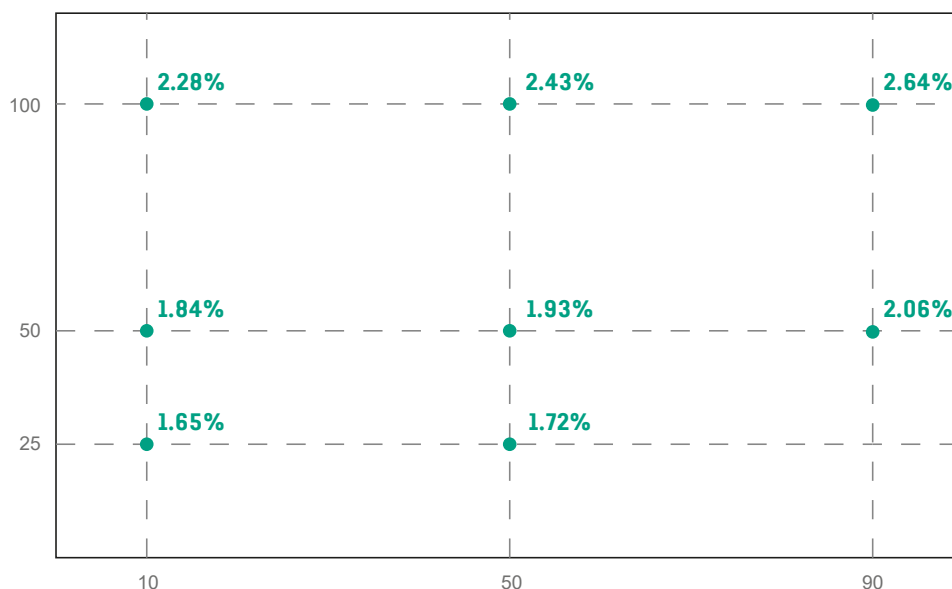
Code **S9007** **R9007**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>7.5</b>   |
| Nominal current                 | (A)   | <b>16.5</b>  |
| Nominal apparent power          | (kVA) | <b>10.75</b> |
| Standby loss                    | (W)   | <b>26</b>    |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.64%         | 283.96            | 96.7%        |
| 90          | 50        | 2.06%         | 221.32            | 96.3%        |
| 50          | 100       | 2.43%         | 261.60            | 94.6%        |
| 50          | 50        | 1.93%         | 207.92            | 94.0%        |
| 50          | 25        | 1.72%         | 185.34            | 93.5%        |
| 10          | 100       | 2.28%         | 245.28            | 78.8%        |
| 10          | 50        | 1.84%         | 197.58            | 76.6%        |
| 10          | 25        | 1.65%         | 177.34            | 74.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-2110-KBX-4**

**IE2**

**EFFICIENCY:**

**97.0%**

Code

**S9008**

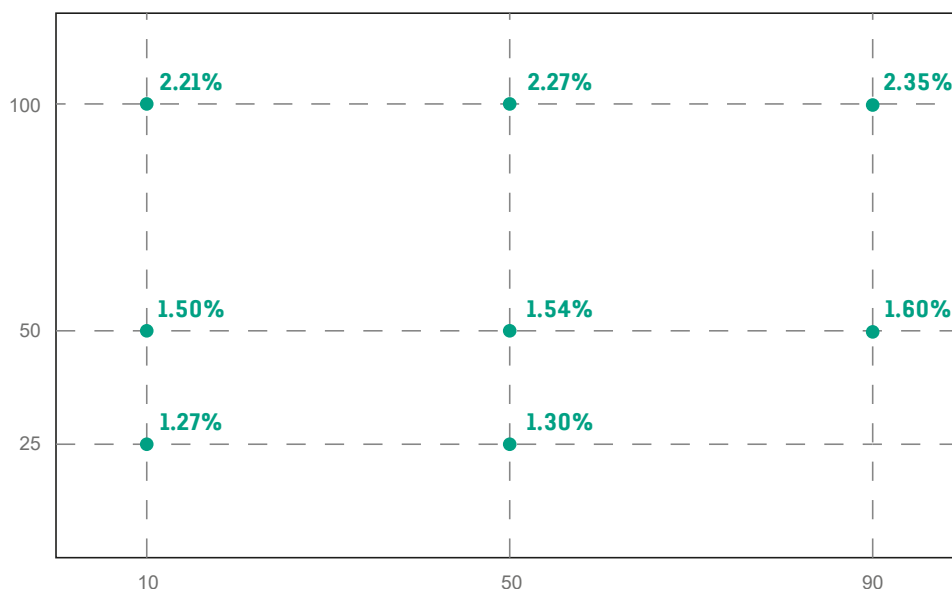
**R9008**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>11</b>  |
| Nominal current                 | (A)   | <b>23</b>  |
| Nominal apparent power          | (kVA) | <b>15</b>  |
| Standby loss                    | (W)   | <b>32</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.35%         | 351.60            | 97.0%        |
| 90          | 50        | 1.60%         | 239.08            | 96.6%        |
| 50          | 100       | 2.27%         | 339.54            | 94.9%        |
| 50          | 50        | 1.54%         | 231.42            | 94.3%        |
| 50          | 25        | 1.30%         | 195.08            | 93.6%        |
| 10          | 100       | 2.21%         | 331.32            | 79.4%        |
| 10          | 50        | 1.50%         | 225.13            | 77.2%        |
| 10          | 25        | 1.27%         | 189.98            | 75.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-3150-KBX-4**

**IE2**

**EFFICIENCY:**

**97.2%**

Code

**S9009**

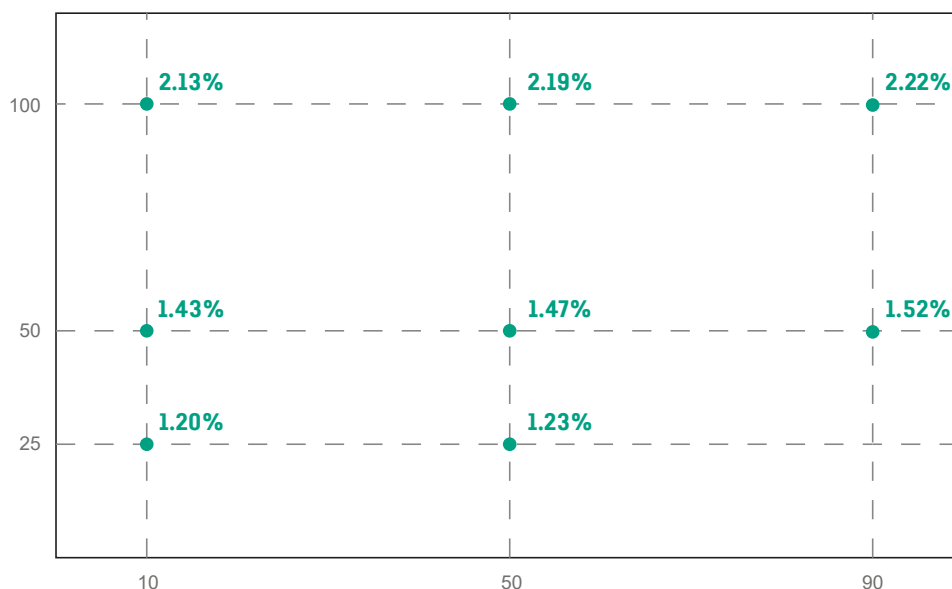
**R9009**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>15</b>   |
| Nominal current                 | (A)   | <b>31</b>   |
| Nominal apparent power          | (kVA) | <b>20.2</b> |
| Standby loss                    | (W)   | <b>41</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.22%         | 449.00            | 97.2%        |
| 90          | 50        | 1.52%         | 307.79            | 96.8%        |
| 50          | 100       | 2.19%         | 441.42            | 95.1%        |
| 50          | 50        | 1.47%         | 297.10            | 94.5%        |
| 50          | 25        | 1.23%         | 248.44            | 94.0%        |
| 10          | 100       | 2.13%         | 430.38            | 79.9%        |
| 10          | 50        | 1.43%         | 288.64            | 78.1%        |
| 10          | 25        | 1.20%         | 241.58            | 76.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-3185-KBX-4**

**IE2**

**EFFICIENCY:**

**97.2%**

Code

**S9010**

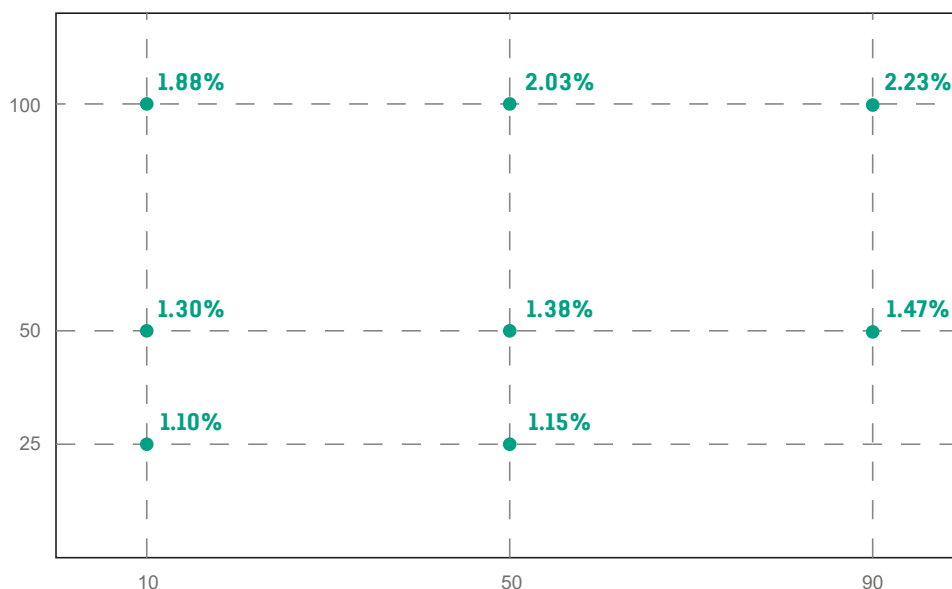
**R9010**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>18.5</b>  |
| Nominal current                 | (A)   | <b>38</b>    |
| Nominal apparent power          | (kVA) | <b>24.75</b> |
| Standby loss                    | (W)   | <b>50</b>    |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.23%         | 552.10            | 97.2%        |
| 90          | 50        | 1.47%         | 364.08            | 96.9%        |
| 50          | 100       | 2.03%         | 502.12            | 95.4%        |
| 50          | 50        | 1.38%         | 340.61            | 94.9%        |
| 50          | 25        | 1.15%         | 284.60            | 94.3%        |
| 10          | 100       | 1.88%         | 465.36            | 81.9%        |
| 10          | 50        | 1.30%         | 321.90            | 79.7%        |
| 10          | 25        | 1.10%         | 271.51            | 77.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-3220-KBX-4**

**IE2**

**EFFICIENCY:**

**96.8%**

Code

**S9011**

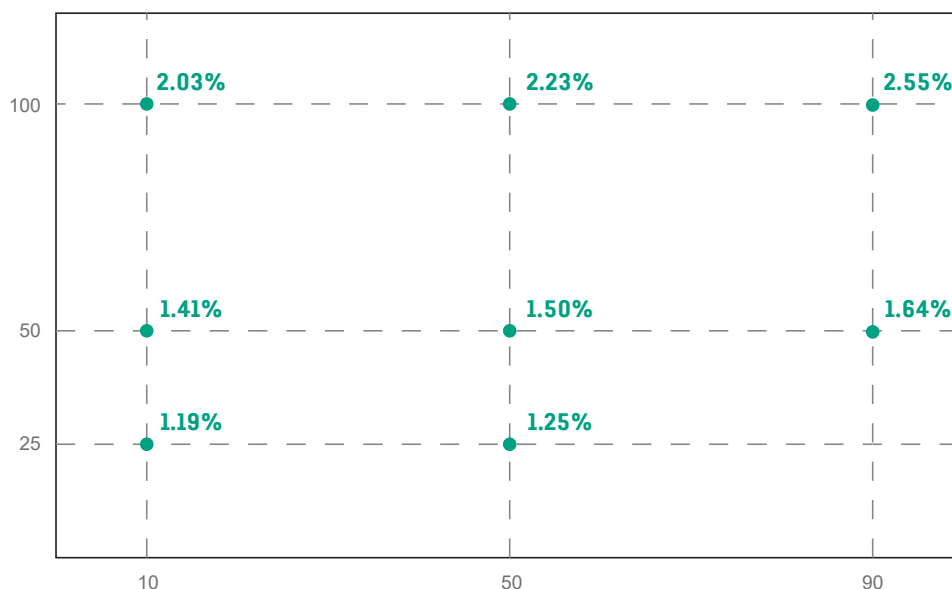
**R9011**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>22</b>  |
| Nominal current                 | (A)   | <b>46</b>  |
| Nominal apparent power          | (kVA) | <b>30</b>  |
| Standby loss                    | (W)   | <b>69</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.55%         | 762.48            | 96.8%        |
| 90          | 50        | 1.64%         | 491.42            | 96.5%        |
| 50          | 100       | 2.23%         | 667.55            | 95.0%        |
| 50          | 50        | 1.50%         | 450.11            | 94.4%        |
| 50          | 25        | 1.25%         | 374.71            | 93.9%        |
| 10          | 100       | 2.03%         | 607.10            | 80.7%        |
| 10          | 50        | 1.41%         | 421.21            | 78.4%        |
| 10          | 25        | 1.19%         | 355.10            | 76.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4300-KBX-4**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

**S9013**

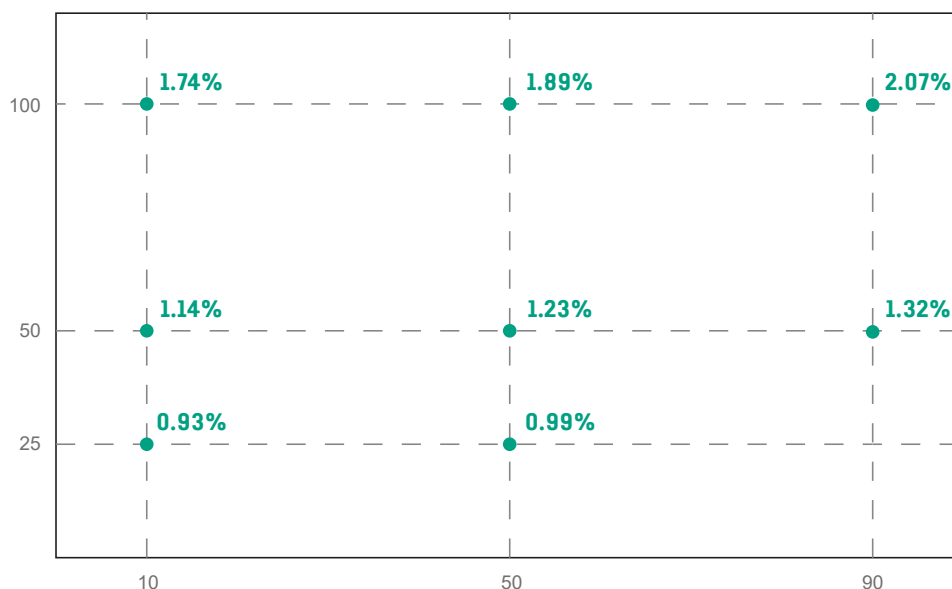
**R9013**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>30</b>   |
| Nominal current                 | (A)   | <b>62</b>   |
| Nominal apparent power          | (kVA) | <b>40.4</b> |
| Standby loss                    | (W)   | <b>76</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 836.96            | 97.4%        |
| 90          | 50        | 1.32%         | 531.70            | 97.1%        |
| 50          | 100       | 1.89%         | 764.80            | 95.7%        |
| 50          | 50        | 1.23%         | 494.89            | 95.3%        |
| 50          | 25        | 0.99%         | 400.54            | 94.7%        |
| 10          | 100       | 1.74%         | 702.97            | 83.0%        |
| 10          | 50        | 1.14%         | 461.55            | 81.2%        |
| 10          | 25        | 0.93%         | 377.09            | 79.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4370-KBX-4**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

**S9015**

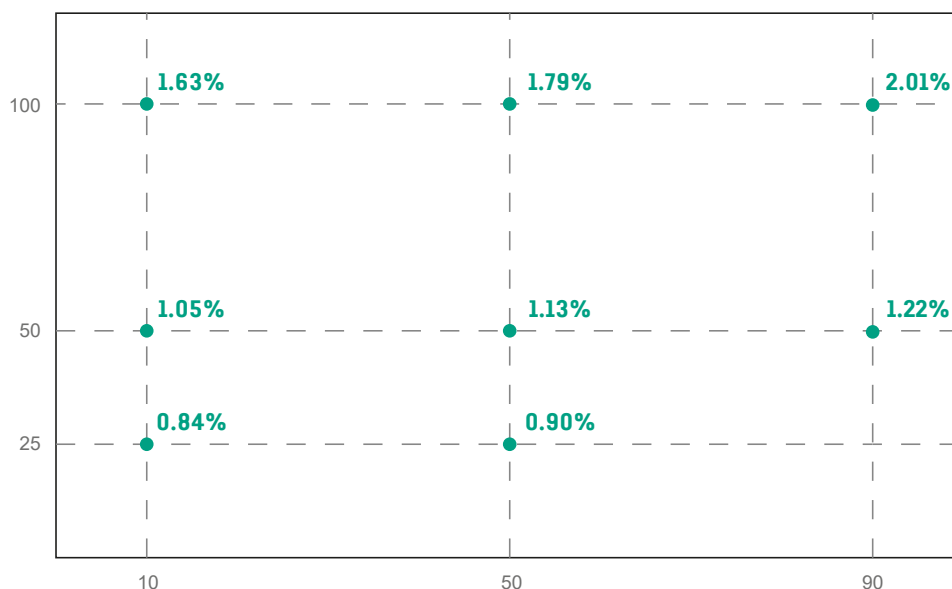
**R9015**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>37</b>   |
| Nominal current                 | (A)   | <b>75</b>   |
| Nominal apparent power          | (kVA) | <b>48.8</b> |
| Standby loss                    | (W)   | <b>89</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.01%         | 980.88            | 97.4%        |
| 90          | 50        | 1.22%         | 597.76            | 97.3%        |
| 50          | 100       | 1.79%         | 875.11            | 96.0%        |
| 50          | 50        | 1.13%         | 549.53            | 95.6%        |
| 50          | 25        | 0.90%         | 438.75            | 95.2%        |
| 10          | 100       | 1.63%         | 798.06            | 83.9%        |
| 10          | 50        | 1.05%         | 510.96            | 82.5%        |
| 10          | 25        | 0.84%         | 412.51            | 80.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4450-KBX-4**

**IE2**

**EFFICIENCY:**

**97.3%**

Code

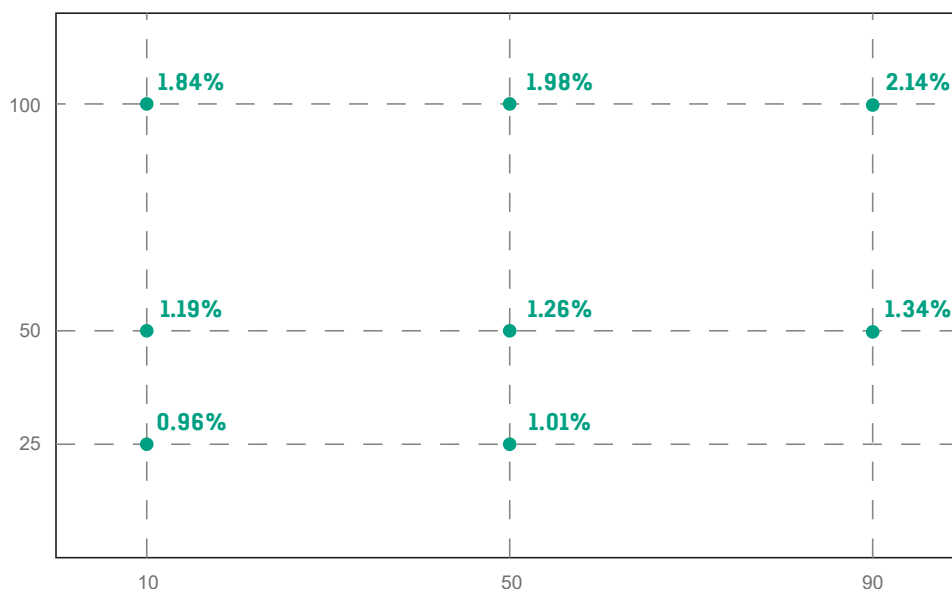
**S9017**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>45</b>   |
| Nominal current                 | (A)   | <b>87</b>   |
| Nominal apparent power          | (kVA) | <b>56.7</b> |
| Standby loss                    | (W)   | <b>110</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.14%         | 1,214.58          | 97.3%        |
| 90          | 50        | 1.34%         | 759.44            | 97.1%        |
| 50          | 100       | 1.98%         | 1,121.61          | 95.6%        |
| 50          | 50        | 1.26%         | 713.70            | 95.2%        |
| 50          | 25        | 1.01%         | 569.50            | 94.7%        |
| 10          | 100       | 1.84%         | 1,045.20          | 82.3%        |
| 10          | 50        | 1.19%         | 673.55            | 80.8%        |
| 10          | 25        | 0.96%         | 541.57            | 79.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-5550-KBX-4**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

**S9019**

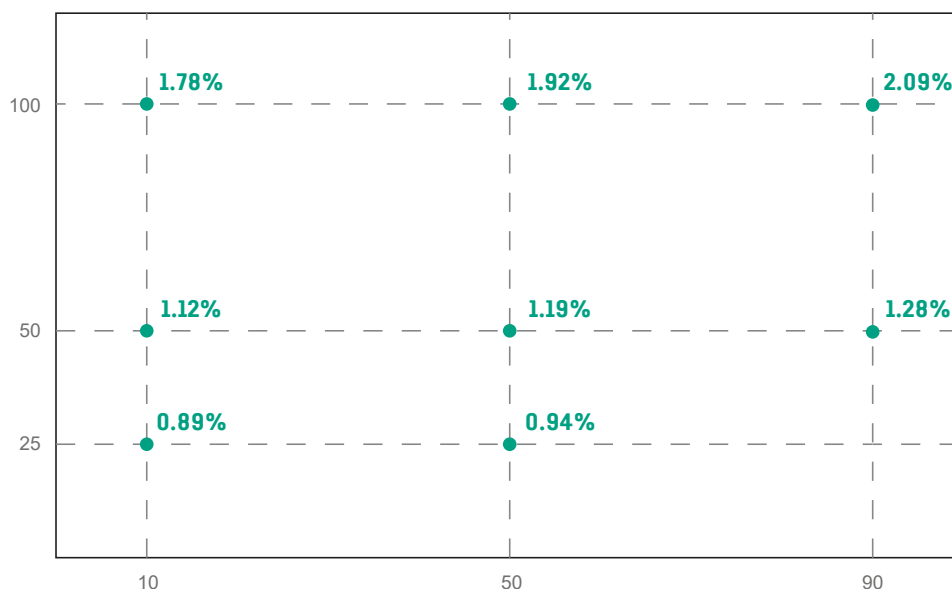
**R9019**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>55</b>   |
| Nominal current                 | (A)   | <b>105</b>  |
| Nominal apparent power          | (kVA) | <b>68.4</b> |
| Standby loss                    | (W)   | <b>130</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.09%         | 1,431.96          | 97.4%        |
| 90          | 50        | 1.28%         | 875.52            | 97.2%        |
| 50          | 100       | 1.92%         | 1,310.93          | 95.7%        |
| 50          | 50        | 1.19%         | 816.88            | 95.4%        |
| 50          | 25        | 0.94%         | 645.19            | 95.0%        |
| 10          | 100       | 1.78%         | 1,214.14          | 82.9%        |
| 10          | 50        | 1.12%         | 766.40            | 81.7%        |
| 10          | 25        | 0.89%         | 610.20            | 80.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4300-KXX-4**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

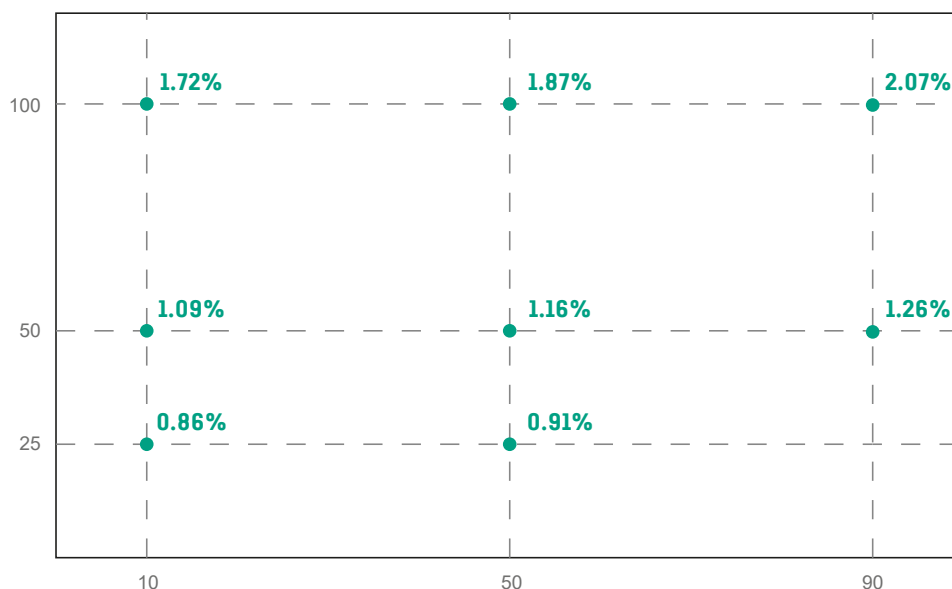
**S9012**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>30</b>   |
| Nominal current                 | (A)   | <b>62</b>   |
| Nominal apparent power          | (kVA) | <b>40.4</b> |
| Standby loss                    | (W)   | <b>76</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 2,024.88          | 97.4%        |
| 90          | 50        | 1.26%         | 1,226.35          | 97.3%        |
| 50          | 100       | 1.87%         | 1,831.36          | 95.8%        |
| 50          | 50        | 1.16%         | 1,135.65          | 95.5%        |
| 50          | 25        | 0.91%         | 893.53            | 95.2%        |
| 10          | 100       | 1.72%         | 1,683.33          | 83.3%        |
| 10          | 50        | 1.09%         | 1,060.26          | 82.1%        |
| 10          | 25        | 0.86%         | 841.81            | 80.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4370-KXX-4**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

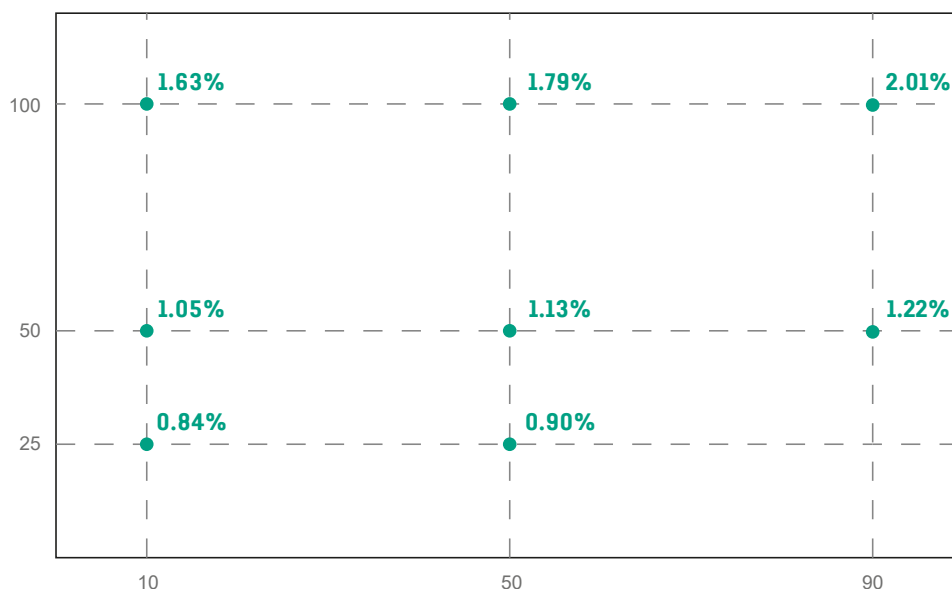
**S9014**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>37</b>   |
| Nominal current                 | (A)   | <b>75</b>   |
| Nominal apparent power          | (kVA) | <b>48.8</b> |
| Standby loss                    | (W)   | <b>89</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.01%         | 980.88            | 97.4%        |
| 90          | 50        | 1.22%         | 597.76            | 97.3%        |
| 50          | 100       | 1.79%         | 875.11            | 96.0%        |
| 50          | 50        | 1.13%         | 549.53            | 95.6%        |
| 50          | 25        | 0.90%         | 438.75            | 95.2%        |
| 10          | 100       | 1.63%         | 798.06            | 83.9%        |
| 10          | 50        | 1.05%         | 510.96            | 82.5%        |
| 10          | 25        | 0.84%         | 412.51            | 80.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4450-KXX-4**

**IE2**

**EFFICIENCY:**

**97.3%**

Code

**S9016**

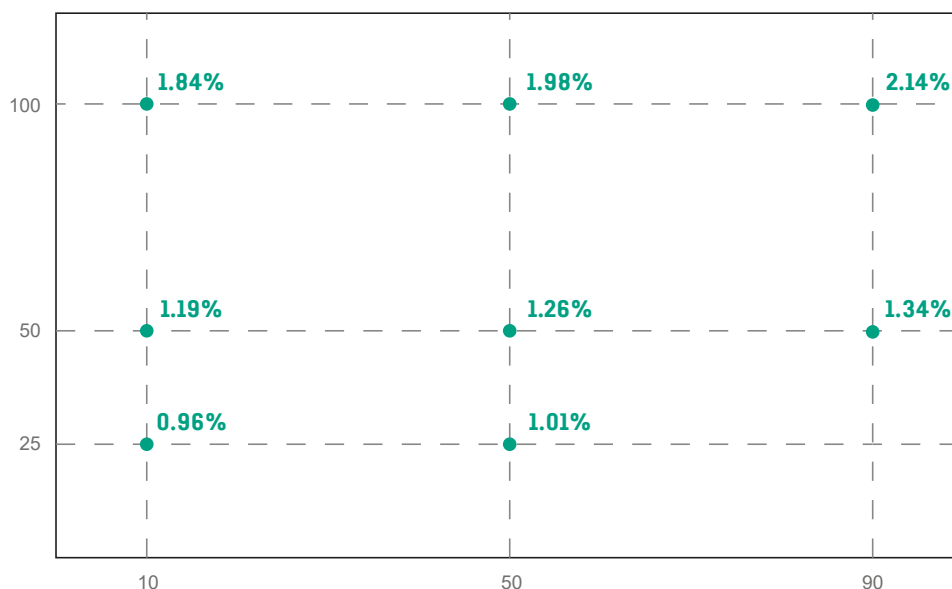
**R9016**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>45</b>   |
| Nominal current                 | (A)   | <b>87</b>   |
| Nominal apparent power          | (kVA) | <b>56.7</b> |
| Standby loss                    | (W)   | <b>110</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.14%         | 1,214.58          | 97.3%        |
| 90          | 50        | 1.34%         | 759.44            | 97.1%        |
| 50          | 100       | 1.98%         | 1,121.61          | 95.6%        |
| 50          | 50        | 1.26%         | 713.70            | 95.2%        |
| 50          | 25        | 1.01%         | 569.50            | 94.7%        |
| 10          | 100       | 1.84%         | 1,045.20          | 82.3%        |
| 10          | 50        | 1.19%         | 673.55            | 80.8%        |
| 10          | 25        | 0.96%         | 541.57            | 79.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-5550-KXX-4**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

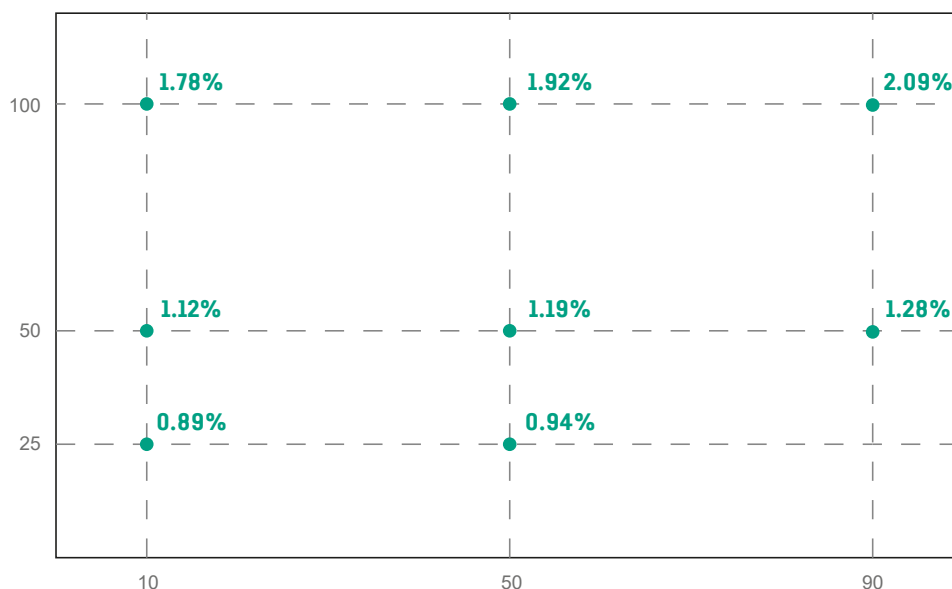
**S9018**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>55</b>   |
| Nominal current                 | (A)   | <b>105</b>  |
| Nominal apparent power          | (kVA) | <b>68.4</b> |
| Standby loss                    | (W)   | <b>130</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.09%         | 1,431.96          | 97.4%        |
| 90          | 50        | 1.28%         | 875.52            | 97.2%        |
| 50          | 100       | 1.92%         | 1,310.93          | 95.7%        |
| 50          | 50        | 1.19%         | 816.88            | 95.4%        |
| 50          | 25        | 0.94%         | 645.19            | 95.0%        |
| 10          | 100       | 1.78%         | 1,214.14          | 82.9%        |
| 10          | 50        | 1.12%         | 766.40            | 81.7%        |
| 10          | 25        | 0.89%         | 610.20            | 80.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-5750-KXX-4**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

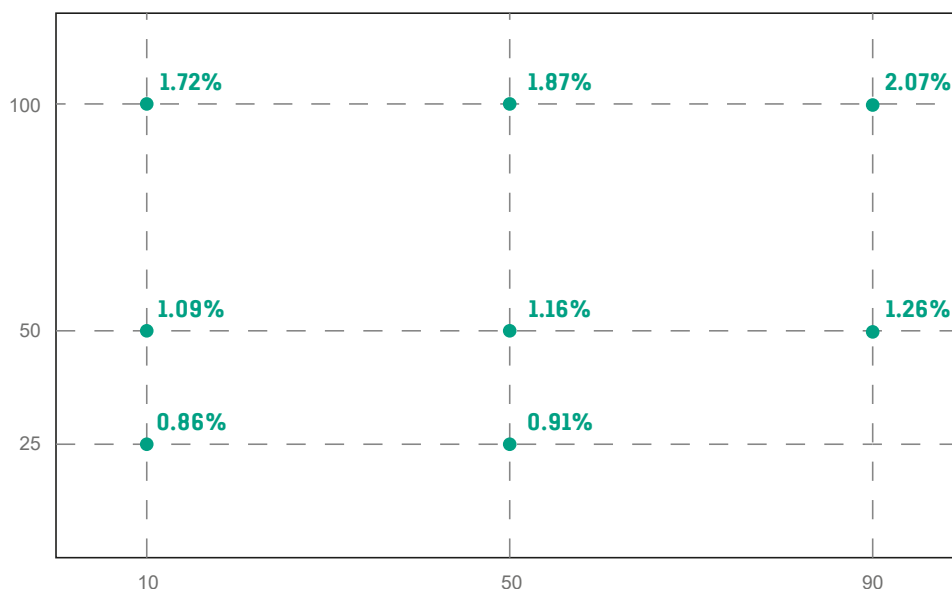
**S9020**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>75</b>   |
| Nominal current                 | (A)   | <b>150</b>  |
| Nominal apparent power          | (kVA) | <b>97.7</b> |
| Standby loss                    | (W)   | <b>184</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 2,024.88          | 97.4%        |
| 90          | 50        | 1.26%         | 1,226.35          | 97.3%        |
| 50          | 100       | 1.87%         | 1,831.36          | 95.8%        |
| 50          | 50        | 1.16%         | 1,135.65          | 95.5%        |
| 50          | 25        | 0.91%         | 893.53            | 95.2%        |
| 10          | 100       | 1.72%         | 1,683.33          | 83.3%        |
| 10          | 50        | 1.09%         | 1,060.26          | 82.1%        |
| 10          | 25        | 0.86%         | 841.81            | 80.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-5900-KXX-4**

**IE2**

**EFFICIENCY:**

**97.6%**

Code

**S9021**

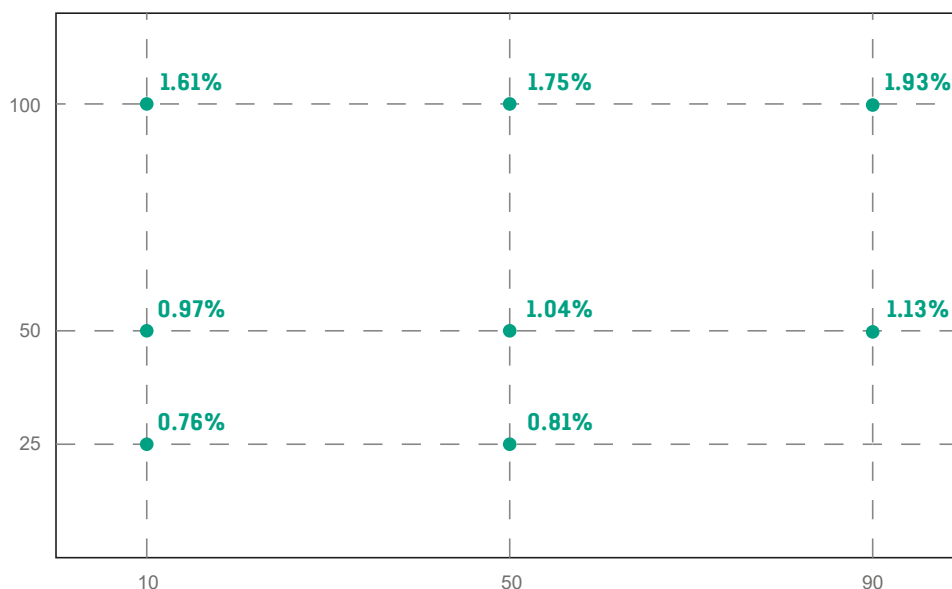
**R9021**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>90</b>    |
| Nominal current                 | (A)   | <b>180</b>   |
| Nominal apparent power          | (kVA) | <b>117.2</b> |
| Standby loss                    | (W)   | <b>205</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.93%         | 2,257.49          | 97.6%        |
| 90          | 50        | 1.13%         | 1,322.22          | 97.5%        |
| 50          | 100       | 1.75%         | 2,051.77          | 96.1%        |
| 50          | 50        | 1.04%         | 1,224.33          | 96.0%        |
| 50          | 25        | 0.81%         | 944.69            | 95.7%        |
| 10          | 100       | 1.61%         | 1,889.73          | 84.2%        |
| 10          | 50        | 0.97%         | 1,141.14          | 83.7%        |
| 10          | 25        | 0.76%         | 887.42            | 82.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-61100-KXX-4**

**IE2**

**EFFICIENCY:**

**98.0%**

Code

**S9022**

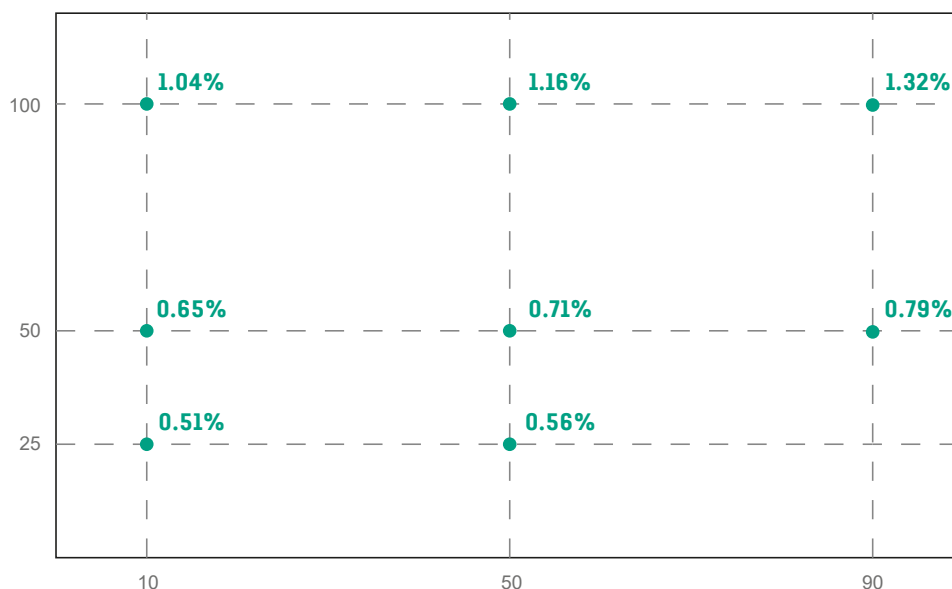
**R9022**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>110</b>   |
| Nominal current                 | (A)   | <b>210</b>   |
| Nominal apparent power          | (kVA) | <b>162.8</b> |
| Standby loss                    | (W)   | <b>195</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.32%         | 2,143.86          | 98.0%        |
| 90          | 50        | 0.79%         | 1,281.43          | 98.0%        |
| 50          | 100       | 1.16%         | 1,896.62          | 96.9%        |
| 50          | 50        | 0.71%         | 1,160.70          | 96.7%        |
| 50          | 25        | 0.56%         | 905.74            | 96.5%        |
| 10          | 100       | 1.04%         | 1,699.32          | 87.4%        |
| 10          | 50        | 0.65%         | 1,056.76          | 86.6%        |
| 10          | 25        | 0.51%         | 833.37            | 85.6%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-61320-KXX-4**

**IE2**

**EFFICIENCY:**

**98.0%**

Code

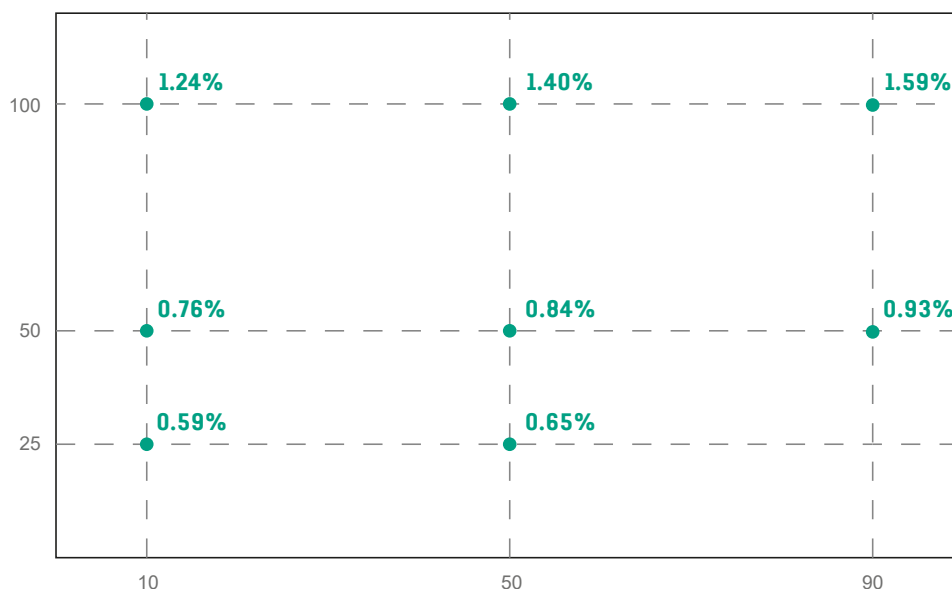
**S9023**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>132</b>   |
| Nominal current                 | (A)   | <b>250</b>   |
| Nominal apparent power          | (kVA) | <b>162.8</b> |
| Standby loss                    | (W)   | <b>236</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.59%         | 2,596.15          | 98.0%        |
| 90          | 50        | 0.93%         | 1,513.51          | 98.0%        |
| 50          | 100       | 1.40%         | 2,275.29          | 96.9%        |
| 50          | 50        | 0.84%         | 1,360.86          | 96.8%        |
| 50          | 25        | 0.65%         | 1,051.50          | 96.5%        |
| 10          | 100       | 1.24%         | 2,017.62          | 87.4%        |
| 10          | 50        | 0.76%         | 1,229.46          | 86.9%        |
| 10          | 25        | 0.59%         | 961.33            | 85.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-71600-KXX-4**

**IE2**

**EFFICIENCY:**

**97.8%**

Code

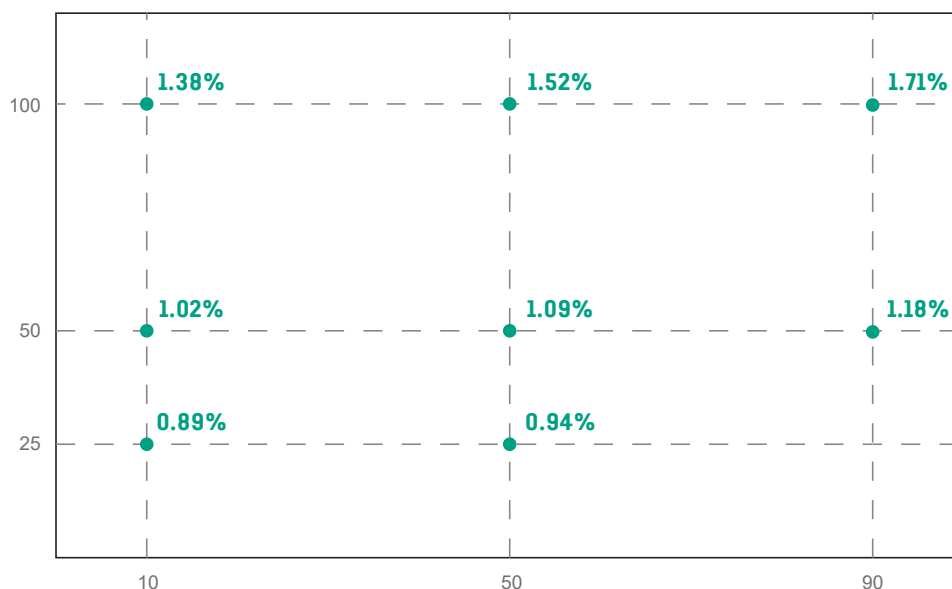
**S9024**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>160</b>   |
| Nominal current                 | (A)   | <b>300</b>   |
| Nominal apparent power          | (kVA) | <b>195.4</b> |
| Standby loss                    | (W)   | <b>304</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.71%         | 3,342.40          | 97.8%        |
| 90          | 50        | 1.18%         | 2,313.43          | 97.4%        |
| 50          | 100       | 1.52%         | 2,968.06          | 96.6%        |
| 50          | 50        | 1.09%         | 2,136.10          | 95.8%        |
| 50          | 25        | 0.94%         | 1,831.37          | 95.1%        |
| 10          | 100       | 1.38%         | 2,687.17          | 86.2%        |
| 10          | 50        | 1.02%         | 1,993.17          | 83.0%        |
| 10          | 25        | 0.89%         | 1,733.38          | 80.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-72000-KXX-4**

**IE2**

**EFFICIENCY:**

**97.9%**

Code

**S9025**

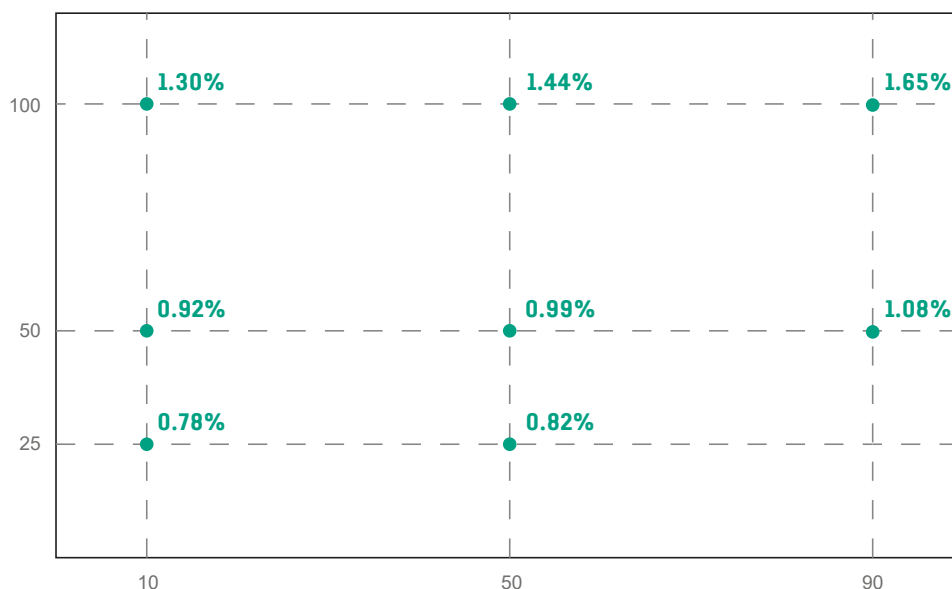
**R9025**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>200</b>   |
| Nominal current                 | (A)   | <b>385</b>   |
| Nominal apparent power          | (kVA) | <b>250.7</b> |
| Standby loss                    | (W)   | <b>377</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.65%         | 4,149.10          | 97.9%        |
| 90          | 50        | 1.08%         | 2,715.38          | 97.6%        |
| 50          | 100       | 1.44%         | 3,622.81          | 96.8%        |
| 50          | 50        | 0.99%         | 2,487.06          | 96.1%        |
| 50          | 25        | 0.82%         | 2,066.30          | 95.4%        |
| 10          | 100       | 1.30%         | 3,247.44          | 87.0%        |
| 10          | 50        | 0.92%         | 2,306.08          | 84.1%        |
| 10          | 25        | 0.78%         | 1,948.12          | 81.4%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-72500-KXX-4**

**IE2**

**EFFICIENCY:**

**97.9%**

Code

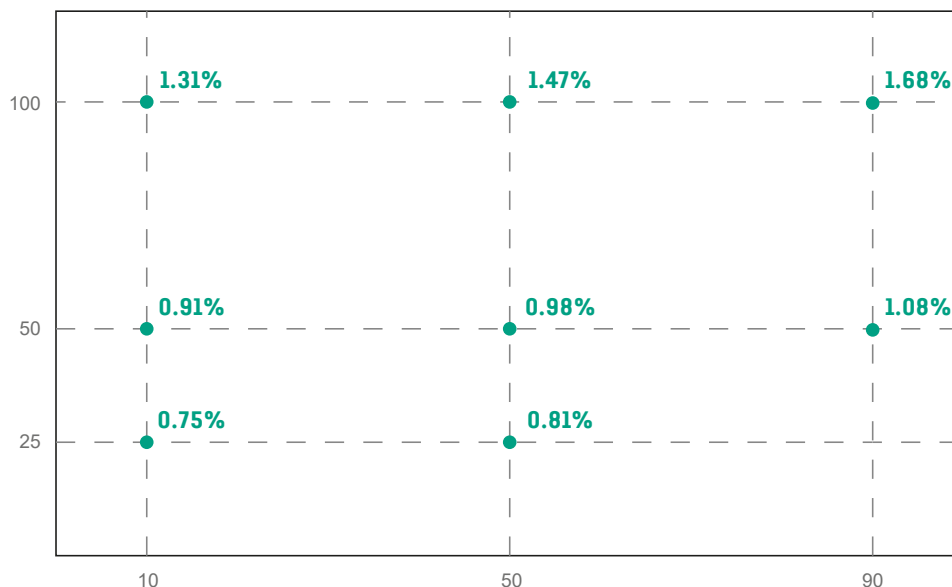
**S9026**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>250</b>   |
| Nominal current                 | (A)   | <b>460</b>   |
| Nominal apparent power          | (kVA) | <b>299.6</b> |
| Standby loss                    | (W)   | <b>458</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.68%         | 5,035.22          | 97.9%        |
| 90          | 50        | 1.08%         | 3,234.78          | 97.6%        |
| 50          | 100       | 1.47%         | 4,395.93          | 96.7%        |
| 50          | 50        | 0.98%         | 2,950.18          | 96.1%        |
| 50          | 25        | 0.81%         | 2,413.76          | 95.5%        |
| 10          | 100       | 1.31%         | 3,921.30          | 86.9%        |
| 10          | 50        | 0.91%         | 2,717.22          | 84.3%        |
| 10          | 25        | 0.75%         | 2,260.35          | 81.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-73150-KXX-4**

**IE2**

**EFFICIENCY:**

**98.0%**

Code

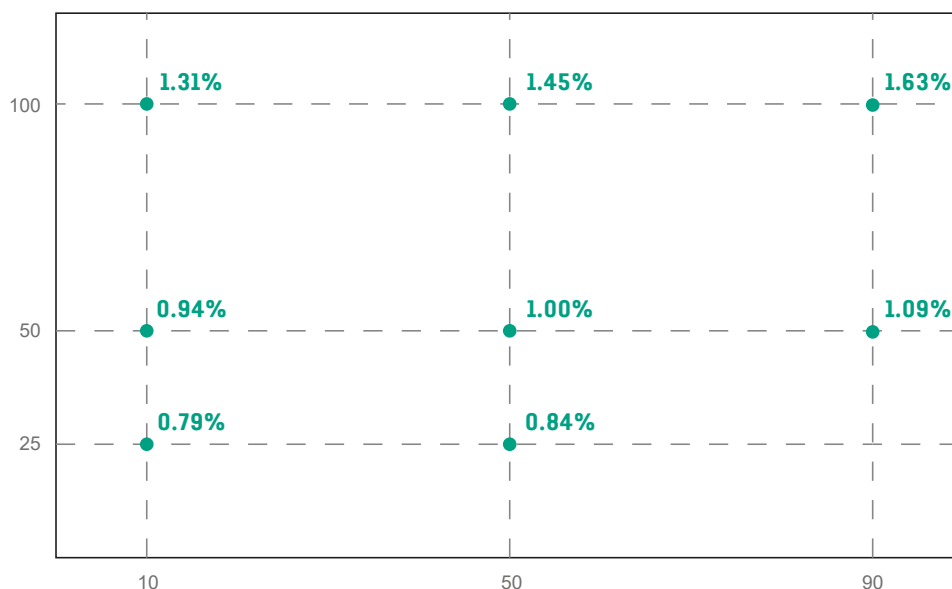
**S9027**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>315</b>   |
| Nominal current                 | (A)   | <b>590</b>   |
| Nominal apparent power          | (kVA) | <b>384.2</b> |
| Standby loss                    | (W)   | <b>572</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.63%         | 6,281.26          | 98.0%        |
| 90          | 50        | 1.09%         | 4,173.99          | 97.6%        |
| 50          | 100       | 1.45%         | 5,559.37          | 96.8%        |
| 50          | 50        | 1.00%         | 3,854.14          | 96.0%        |
| 50          | 25        | 0.84%         | 3,220.95          | 95.3%        |
| 10          | 100       | 1.31%         | 5,027.54          | 86.9%        |
| 10          | 50        | 0.94%         | 3,593.88          | 83.9%        |
| 10          | 25        | 0.79%         | 3,049.81          | 81.0%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-73150-KXX-4A**

**IE2**

**EFFICIENCY:**

**98.0%**

Code

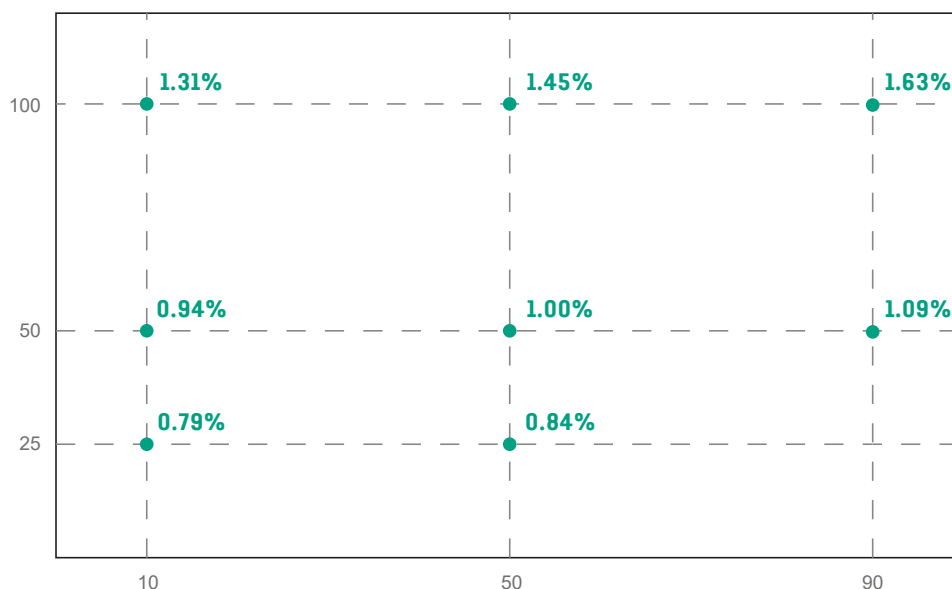
**S9029**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>315</b>   |
| Nominal current                 | (A)   | <b>590</b>   |
| Nominal apparent power          | (kVA) | <b>384.2</b> |
| Standby loss                    | (W)   | <b>572</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.63%         | 6,281.26          | 98.0%        |
| 90          | 50        | 1.09%         | 4,173.99          | 97.6%        |
| 50          | 100       | 1.45%         | 5,559.37          | 96.8%        |
| 50          | 50        | 1.00%         | 3,854.14          | 96.0%        |
| 50          | 25        | 0.84%         | 3,220.95          | 95.3%        |
| 10          | 100       | 1.31%         | 5,027.54          | 86.9%        |
| 10          | 50        | 0.94%         | 3,593.88          | 83.9%        |
| 10          | 25        | 0.79%         | 3,049.81          | 81.0%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-73150-KXX-4A+SI**

**IE2**

**EFFICIENCY:**

**98.0%**

Code

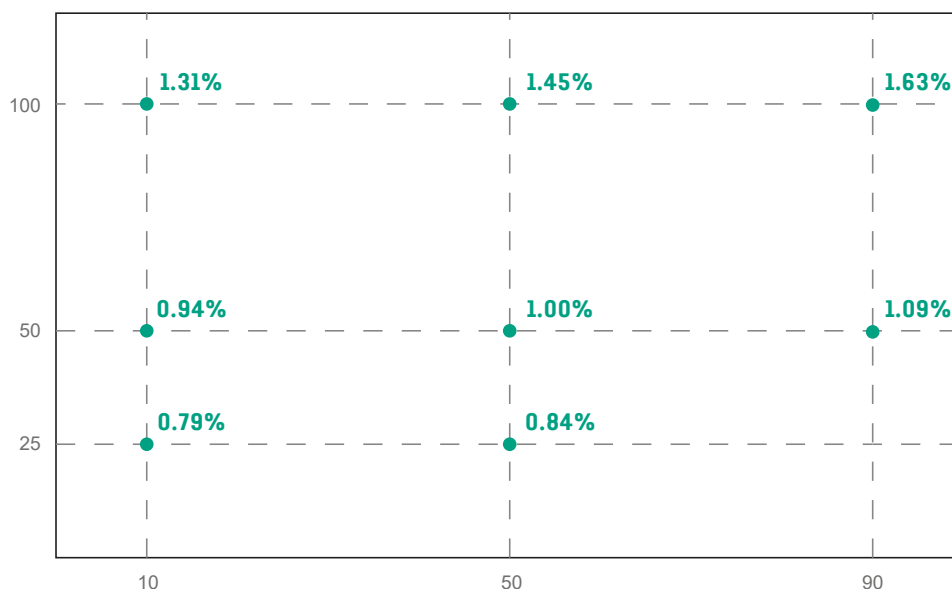
**S9029SI**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>315</b>   |
| Nominal current                 | (A)   | <b>590</b>   |
| Nominal apparent power          | (kVA) | <b>384.2</b> |
| Standby loss                    | (W)   | <b>572</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.63%         | 6,281.26          | 98.0%        |
| 90          | 50        | 1.09%         | 4,173.99          | 97.6%        |
| 50          | 100       | 1.45%         | 5,559.37          | 96.8%        |
| 50          | 50        | 1.00%         | 3,854.14          | 96.0%        |
| 50          | 25        | 0.84%         | 3,220.95          | 95.3%        |
| 10          | 100       | 1.31%         | 5,027.54          | 86.9%        |
| 10          | 50        | 0.94%         | 3,593.88          | 83.9%        |
| 10          | 25        | 0.79%         | 3,049.81          | 81.0%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-73551-KXX-4**

**IE2**

**EFFICIENCY:**

**98.0%**

Code

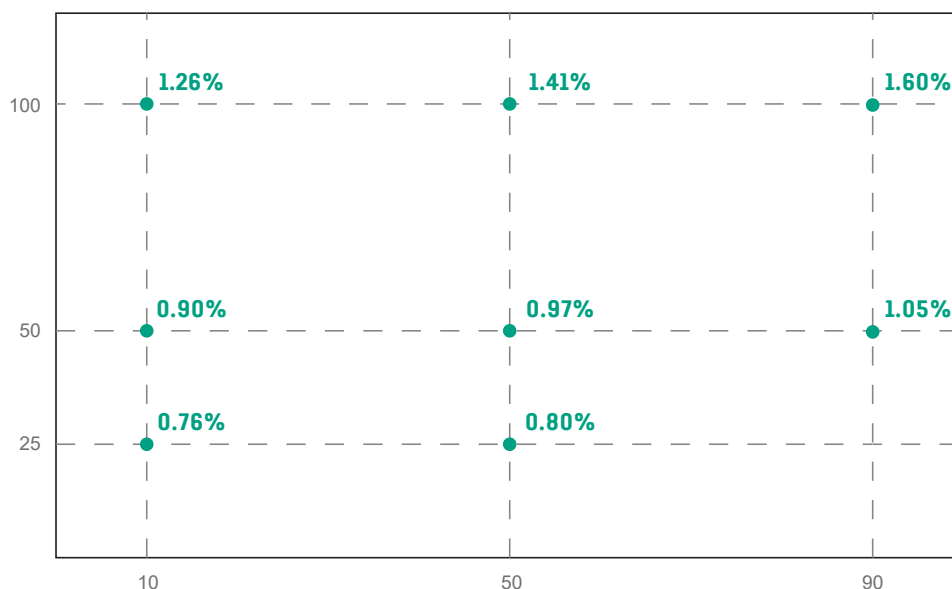
**S9032**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>355</b>   |
| Nominal current                 | (A)   | <b>650</b>   |
| Nominal apparent power          | (kVA) | <b>423.3</b> |
| Standby loss                    | (W)   | <b>617</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.60%         | 6,780.70          | 98.0%        |
| 90          | 50        | 1.05%         | 4,451.60          | 97.7%        |
| 50          | 100       | 1.41%         | 5,951.67          | 96.9%        |
| 50          | 50        | 0.97%         | 4,088.64          | 96.2%        |
| 50          | 25        | 0.80%         | 3,396.38          | 95.5%        |
| 10          | 100       | 1.26%         | 5,353.10          | 87.3%        |
| 10          | 50        | 0.90%         | 3,797.95          | 84.4%        |
| 10          | 25        | 0.76%         | 3,205.91          | 81.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-73550-KXX-4A**

**IE2**

**EFFICIENCY:**

**98.0%**

Code

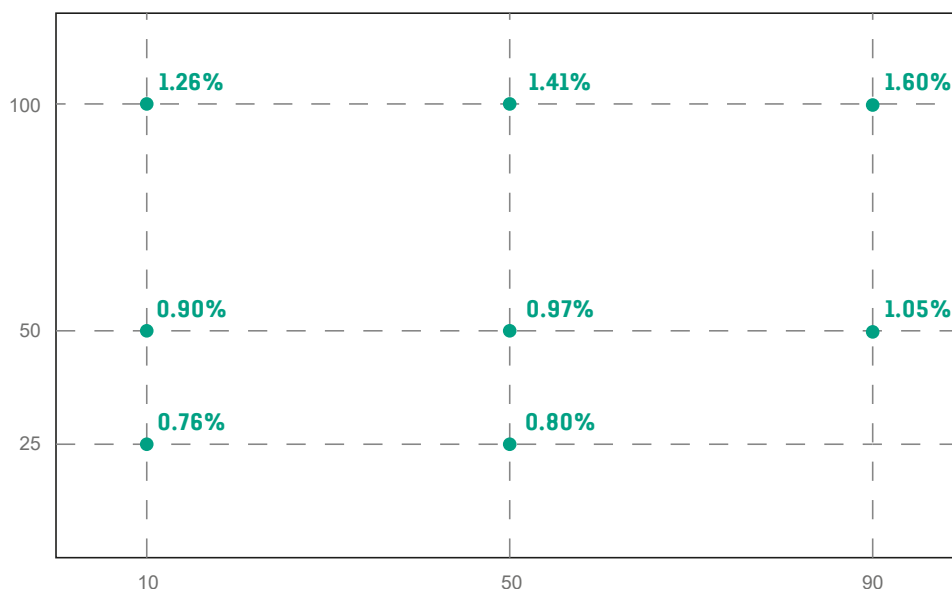
**S9030**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>355</b>   |
| Nominal current                 | (A)   | <b>650</b>   |
| Nominal apparent power          | (kVA) | <b>423.3</b> |
| Standby loss                    | (W)   | <b>617</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.60%         | 6,780.70          | 98.0%        |
| 90          | 50        | 1.05%         | 4,451.60          | 97.7%        |
| 50          | 100       | 1.41%         | 5,951.67          | 96.9%        |
| 50          | 50        | 0.97%         | 4,088.64          | 96.2%        |
| 50          | 25        | 0.80%         | 3,396.38          | 95.5%        |
| 10          | 100       | 1.26%         | 5,353.10          | 87.3%        |
| 10          | 50        | 0.90%         | 3,797.95          | 84.4%        |
| 10          | 25        | 0.76%         | 3,205.91          | 81.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-73550-KXX-4A+SI**

**IE2**

**EFFICIENCY:**

**98.0%**

Code

**S9030SI**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>355</b>   |
| Nominal current                 | (A)   | <b>650</b>   |
| Nominal apparent power          | (kVA) | <b>423.3</b> |
| Standby loss                    | (W)   | <b>617</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.60%         | 6,780.70          | 98.0%        |
| 90          | 50        | 1.05%         | 4,451.60          | 97.7%        |
| 50          | 100       | 1.41%         | 5,951.67          | 96.9%        |
| 50          | 50        | 0.97%         | 4,088.64          | 96.2%        |
| 50          | 25        | 0.80%         | 3,396.38          | 95.5%        |
| 10          | 100       | 1.26%         | 5,353.10          | 87.3%        |
| 10          | 50        | 0.90%         | 3,797.95          | 84.4%        |
| 10          | 25        | 0.76%         | 3,205.91          | 81.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ADV200-DC, STANDARD

## Index Codes

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| <i>S9014DC</i> ..... | 42 |
| <i>S9015DC</i> ..... | 43 |
| <i>S9016DC</i> ..... | 44 |
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# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-3185-KXX-4-DC**

**IE2**

**EFFICIENCY:**

**97.7%**

Code

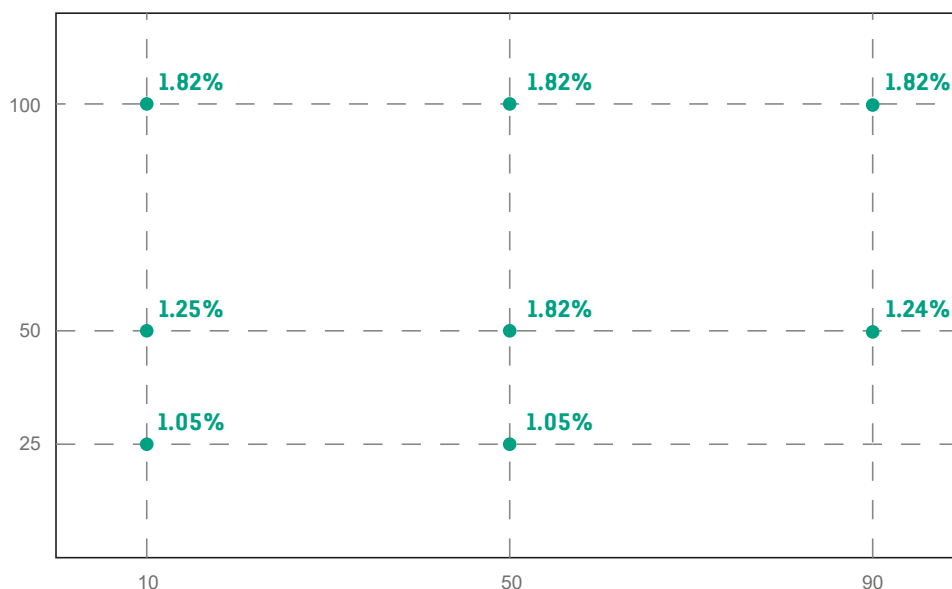
**S9010DC**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>18.5</b>  |
| Nominal current                 | (A)   | <b>38</b>    |
| Nominal apparent power          | (kVA) | <b>24.75</b> |
| Standby loss                    | (W)   | <b>41.1</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.82%         | 450.74            | 97.7%        |
| 90          | 50        | 1.24%         | 307.70            | 97.4%        |
| 50          | 100       | 1.82%         | 450.07            | 95.9%        |
| 50          | 50        | 1.25%         | 308.26            | 95.3%        |
| 50          | 25        | 1.05%         | 258.79            | 94.8%        |
| 10          | 100       | 1.82%         | 449.40            | 82.4%        |
| 10          | 50        | 1.25%         | 308.82            | 80.3%        |
| 10          | 25        | 1.05%         | 259.48            | 78.5%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-3220-KXX-4-DC**

**IE2**

**EFFICIENCY:**

**97.5%**

Code

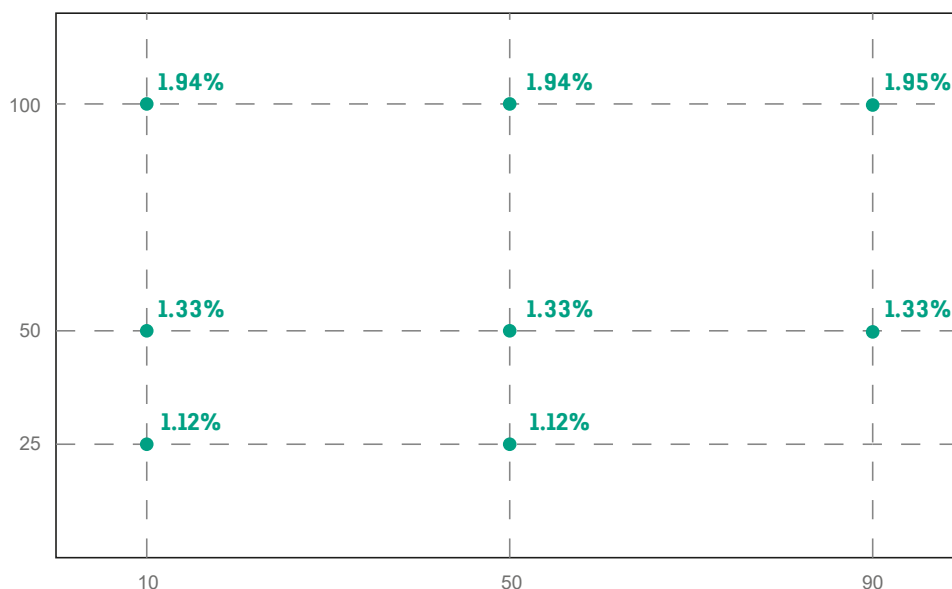
**S9011DC**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>22</b>  |
| Nominal current                 | (A)   | <b>46</b>  |
| Nominal apparent power          | (kVA) | <b>30</b>  |
| Standby loss                    | (W)   | <b>69</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.95%         | 583.20            | 97.5%        |
| 90          | 50        | 1.33%         | 398.39            | 97.2%        |
| 50          | 100       | 1.94%         | 582.39            | 95.6%        |
| 50          | 50        | 1.33%         | 399.07            | 95.0%        |
| 50          | 25        | 1.12%         | 334.25            | 94.5%        |
| 10          | 100       | 1.94%         | 581.58            | 81.4%        |
| 10          | 50        | 1.33%         | 399.75            | 79.3%        |
| 10          | 25        | 1.12%         | 335.08            | 77.4%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4300-KXX-4-DC**

**IE2**

**EFFICIENCY:**

**97.9%**

Code

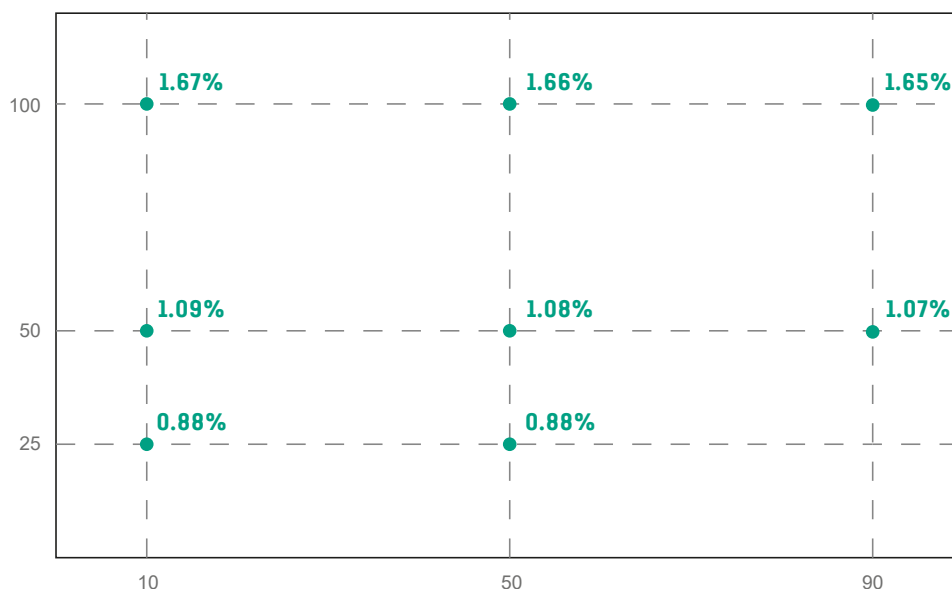
**S9012DC**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>30</b>   |
| Nominal current                 | (A)   | <b>62</b>   |
| Nominal apparent power          | (kVA) | <b>40.4</b> |
| Standby loss                    | (W)   | <b>61</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.65%         | 667.74            | 97.9%        |
| 90          | 50        | 1.07%         | 433.62            | 97.6%        |
| 50          | 100       | 1.66%         | 670.57            | 96.2%        |
| 50          | 50        | 1.08%         | 435.90            | 95.8%        |
| 50          | 25        | 0.88%         | 354.23            | 95.3%        |
| 10          | 100       | 1.67%         | 673.41            | 83.6%        |
| 10          | 50        | 1.09%         | 438.18            | 82.0%        |
| 10          | 25        | 0.88%         | 356.06            | 80.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4370-KXX-4-DC**

**IE2**

**EFFICIENCY:**

**98.0%**

Code

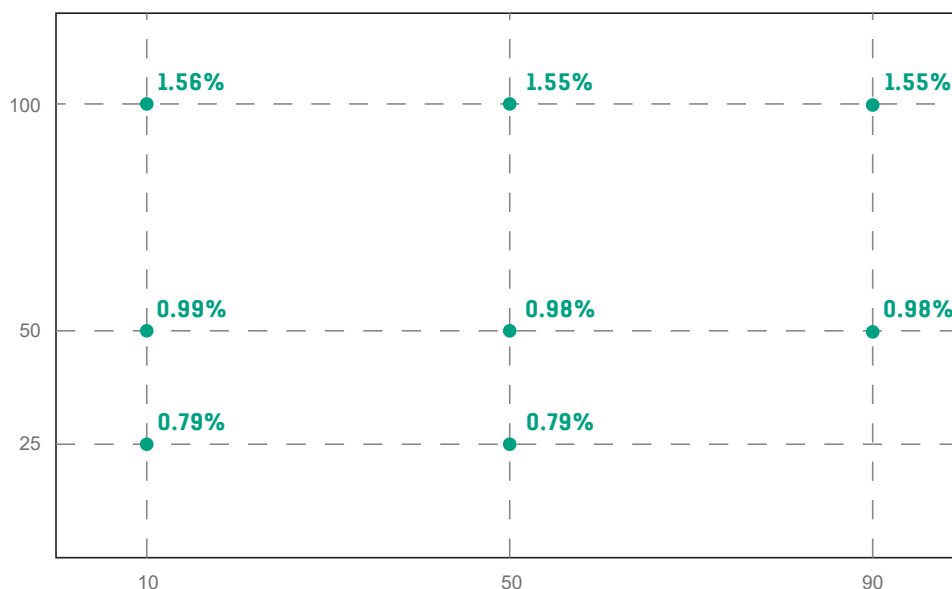
**S9013DC**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>37</b>   |
| Nominal current                 | (A)   | <b>75</b>   |
| Nominal apparent power          | (kVA) | <b>48.8</b> |
| Standby loss                    | (W)   | <b>69</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.55%         | 756.46            | 98.0%        |
| 90          | 50        | 0.98%         | 476.92            | 97.8%        |
| 50          | 100       | 1.55%         | 759.50            | 96.5%        |
| 50          | 50        | 0.98%         | 479.55            | 96.2%        |
| 50          | 25        | 0.79%         | 384.06            | 95.8%        |
| 10          | 100       | 1.56%         | 762.53            | 84.5%        |
| 10          | 50        | 0.99%         | 482.17            | 83.3%        |
| 10          | 25        | 0.79%         | 386.21            | 81.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4450-KXX-4-DC**

**IE2**

**EFFICIENCY:**

**97.8%**

Code

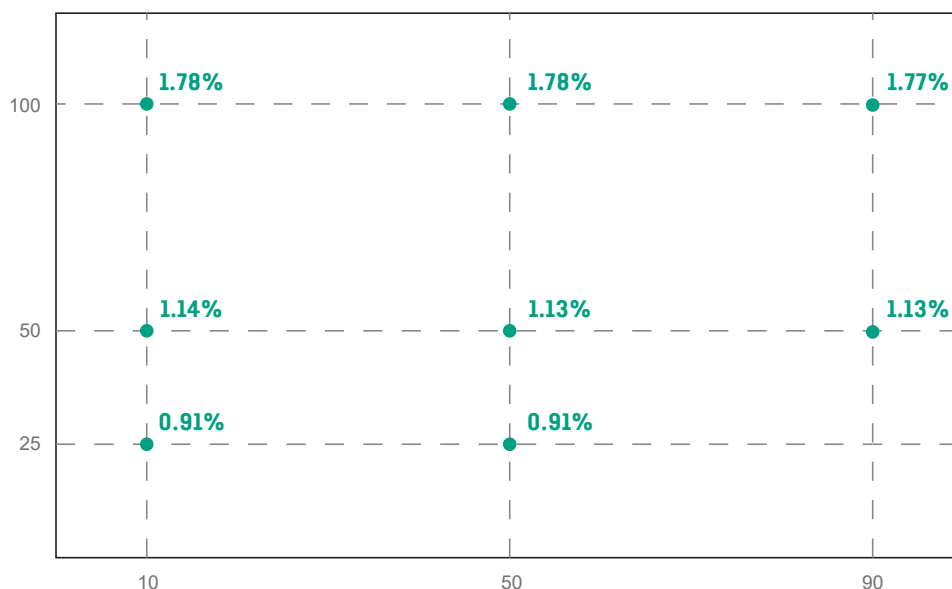
**S9014DC**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>45</b>   |
| Nominal current                 | (A)   | <b>87</b>   |
| Nominal apparent power          | (kVA) | <b>56.7</b> |
| Standby loss                    | (W)   | <b>91</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.77%         | 1,002.72          | 97.8%        |
| 90          | 50        | 1.13%         | 638.79            | 97.6%        |
| 50          | 100       | 1.78%         | 1,005.81          | 96.0%        |
| 50          | 50        | 1.13%         | 641.72            | 95.7%        |
| 50          | 25        | 0.91%         | 513.00            | 95.2%        |
| 10          | 100       | 1.78%         | 1,008.91          | 82.8%        |
| 10          | 50        | 1.14%         | 644.65            | 81.4%        |
| 10          | 25        | 0.91%         | 515.43            | 79.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-5550-KXX-4-DC**

**IE2**

**EFFICIENCY:**

**97.9%**

Code

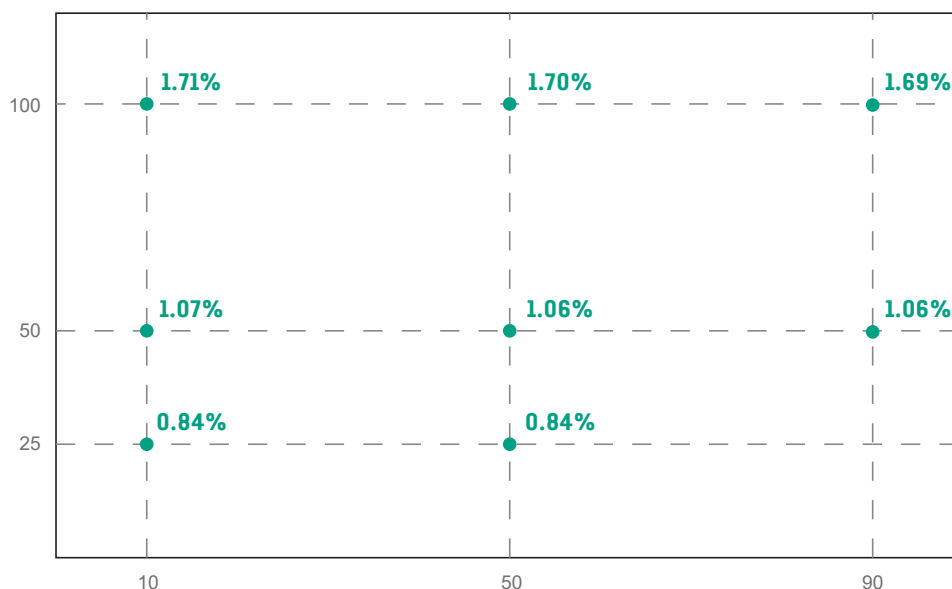
**S9015DC**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>55</b>   |
| Nominal current                 | (A)   | <b>105</b>  |
| Nominal apparent power          | (kVA) | <b>68.4</b> |
| Standby loss                    | (W)   | <b>105</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.69%         | 1,159.06          | 97.9%        |
| 90          | 50        | 1.06%         | 721.68            | 97.7%        |
| 50          | 100       | 1.70%         | 1,163.36          | 96.2%        |
| 50          | 50        | 1.06%         | 725.40            | 95.9%        |
| 50          | 25        | 0.84%         | 573.33            | 95.6%        |
| 10          | 100       | 1.71%         | 1,167.66          | 83.4%        |
| 10          | 50        | 1.07%         | 729.13            | 82.4%        |
| 10          | 25        | 0.84%         | 576.36            | 81.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-5750-KXX-4-DC**

**IE2**

**EFFICIENCY:**

**97.9%**

Code

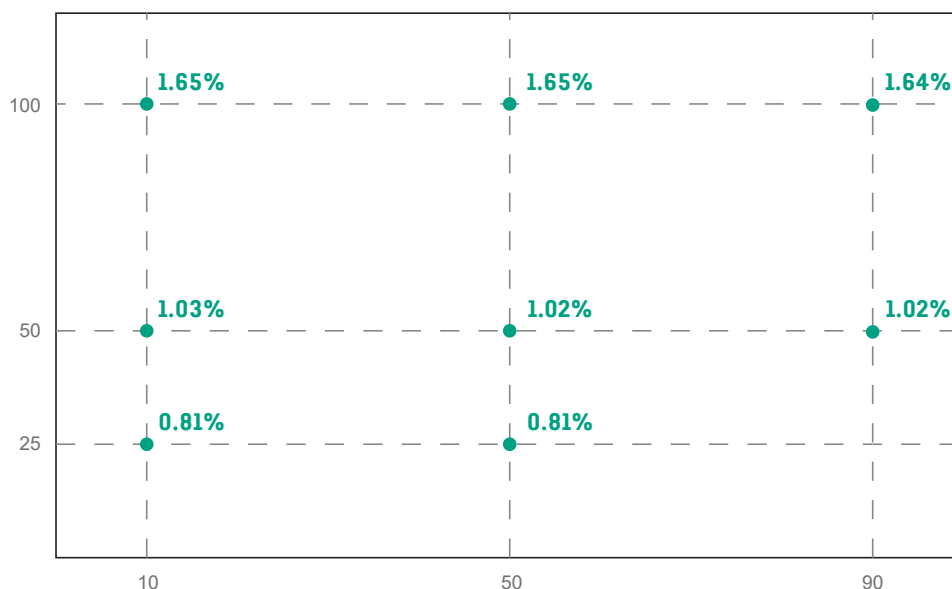
**S9016DC**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>75</b>   |
| Nominal current                 | (A)   | <b>150</b>  |
| Nominal apparent power          | (kVA) | <b>97.7</b> |
| Standby loss                    | (W)   | <b>146</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.64%         | 1,605.22          | 97.9%        |
| 90          | 50        | 1.02%         | 995.04            | 97.8%        |
| 50          | 100       | 1.65%         | 1,609.76          | 96.3%        |
| 50          | 50        | 1.02%         | 999.82            | 96.1%        |
| 50          | 25        | 0.81%         | 787.07            | 95.7%        |
| 10          | 100       | 1.65%         | 1,614.30          | 83.9%        |
| 10          | 50        | 1.03%         | 1,004.60          | 82.9%        |
| 10          | 25        | 0.81%         | 791.13            | 81.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-5900-KXX-4-DC**

**IE2**

**EFFICIENCY:**

**98.0%**

Code

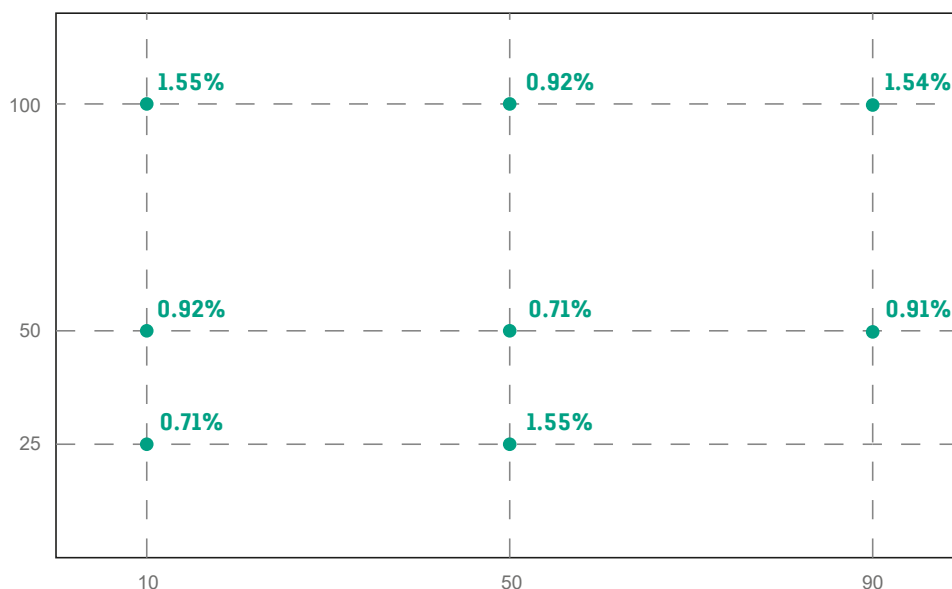
**S9017DC**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>90</b>    |
| Nominal current                 | (A)   | <b>180</b>   |
| Nominal apparent power          | (kVA) | <b>117.2</b> |
| Standby loss                    | (W)   | <b>164</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.54%         | 1,804.95          | 98.0%        |
| 90          | 50        | 0.91%         | 1,069.46          | 98.0%        |
| 50          | 100       | 1.54%         | 1,809.44          | 96.5%        |
| 50          | 50        | 0.92%         | 1,074.87          | 96.5%        |
| 50          | 25        | 0.71%         | 827.44            | 96.2%        |
| 10          | 100       | 1.55%         | 1,813.92          | 84.8%        |
| 10          | 50        | 0.92%         | 1,080.28          | 84.4%        |
| 10          | 25        | 0.71%         | 832.14            | 83.6%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-61110-KXX-4-DC**

**IE2**

**EFFICIENCY:**

**98.5%**

Code

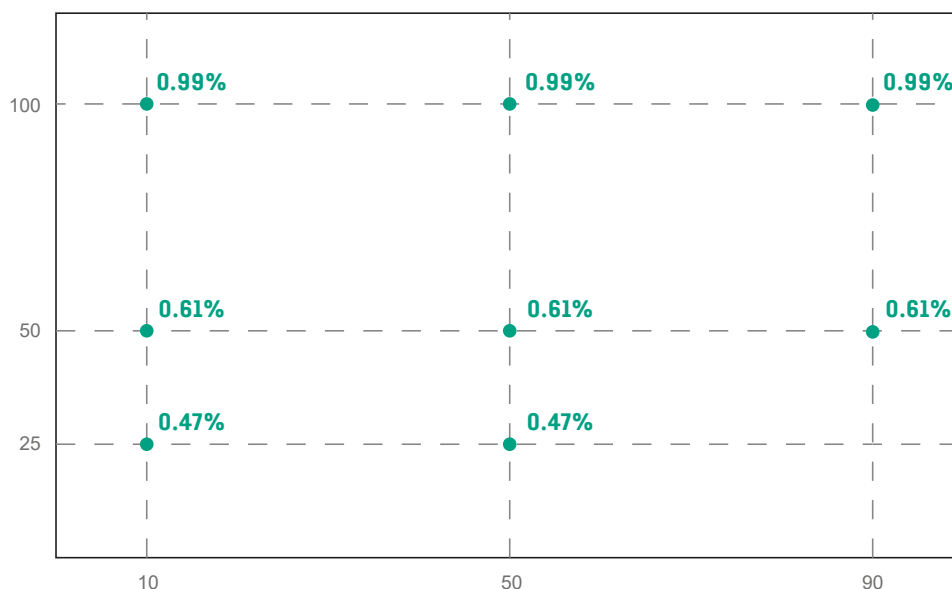
**S9018DC**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>110</b>   |
| Nominal current                 | (A)   | <b>210</b>   |
| Nominal apparent power          | (kVA) | <b>162.8</b> |
| Standby loss                    | (W)   | <b>147</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 0.99%         | 1,618.31          | 98.5%        |
| 90          | 50        | 0.61%         | 987.24            | 98.4%        |
| 50          | 100       | 0.99%         | 1,614.53          | 97.3%        |
| 50          | 50        | 0.61%         | 986.43            | 97.2%        |
| 50          | 25        | 0.47%         | 768.92            | 97.0%        |
| 10          | 100       | 0.99%         | 1,610.74          | 88.0%        |
| 10          | 50        | 0.61%         | 985.61            | 87.4%        |
| 10          | 25        | 0.47%         | 768.71            | 86.5%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-61320-KXX-4-DC**

**IE2**

**EFFICIENCY:**

**98.5%**

Code

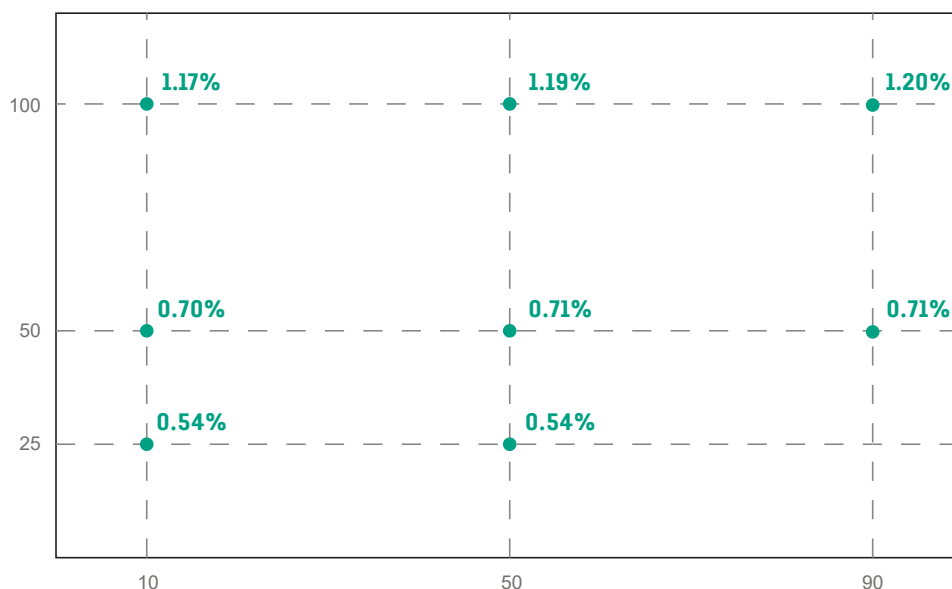
**S9019DC**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>132</b>   |
| Nominal current                 | (A)   | <b>250</b>   |
| Nominal apparent power          | (kVA) | <b>162.8</b> |
| Standby loss                    | (W)   | <b>178</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.20%         | 1,960.18          | 98.5%        |
| 90          | 50        | 0.71%         | 1,159.24          | 98.4%        |
| 50          | 100       | 1.19%         | 1,935.68          | 97.3%        |
| 50          | 50        | 0.71%         | 1,151.55          | 97.2%        |
| 50          | 25        | 0.54%         | 887.25            | 97.1%        |
| 10          | 100       | 1.17%         | 1,911.19          | 88.0%        |
| 10          | 50        | 0.70%         | 1,143.85          | 87.7%        |
| 10          | 25        | 0.54%         | 883.47            | 86.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-71600-KXX-4-DC**

**IE2**

**EFFICIENCY:**

**98.4%**

Code

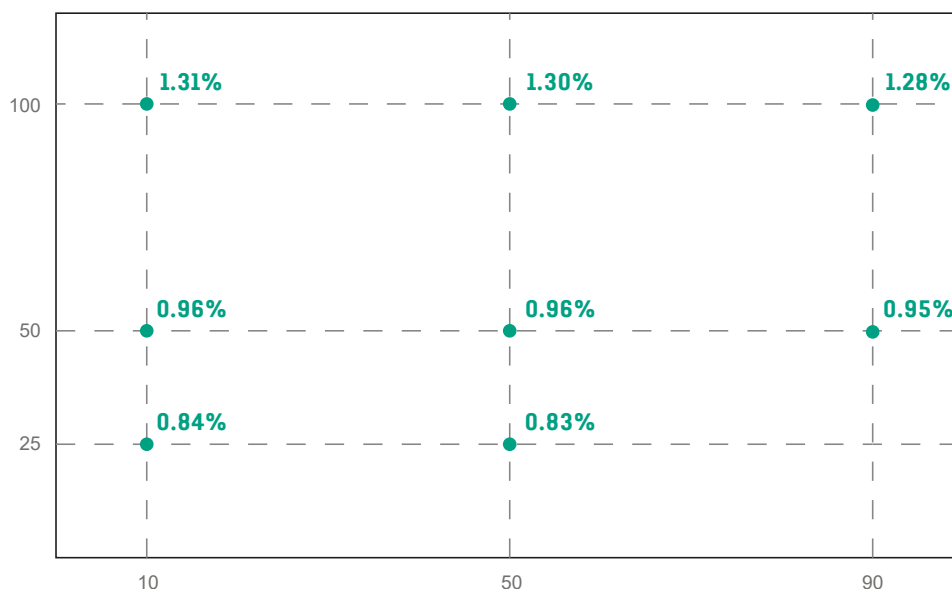
**S9020DC**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>160</b>   |
| Nominal current                 | (A)   | <b>300</b>   |
| Nominal apparent power          | (kVA) | <b>195.4</b> |
| Standby loss                    | (W)   | <b>228</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.28%         | 2,508.86          | 98.4%        |
| 90          | 50        | 0.95%         | 1,856.00          | 97.9%        |
| 50          | 100       | 1.30%         | 2,530.22          | 97.1%        |
| 50          | 50        | 0.96%         | 1,869.70          | 96.3%        |
| 50          | 25        | 0.83%         | 1,622.86          | 95.6%        |
| 10          | 100       | 1.31%         | 2,551.59          | 86.8%        |
| 10          | 50        | 0.96%         | 1,883.39          | 83.8%        |
| 10          | 25        | 0.84%         | 1,633.14          | 81.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-72000-KXX-4-DC**

**IE2**

**EFFICIENCY:**

**98.5%**

Code

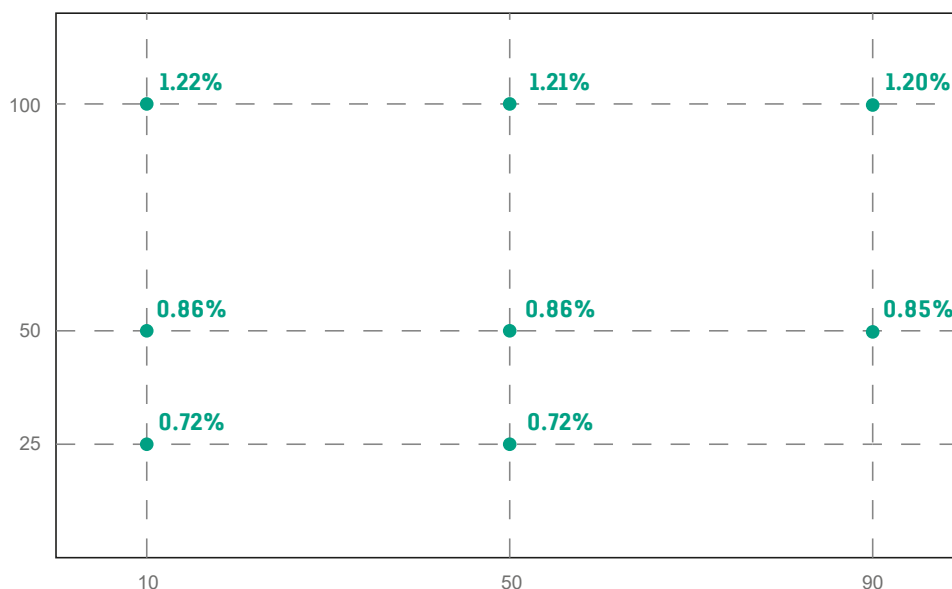
**S9021DC**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>200</b>   |
| Nominal current                 | (A)   | <b>385</b>   |
| Nominal apparent power          | (kVA) | <b>250.7</b> |
| Standby loss                    | (W)   | <b>274</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.20%         | 3,012.78          | 98.5%        |
| 90          | 50        | 0.85%         | 2,127.85          | 98.1%        |
| 50          | 100       | 1.21%         | 3,040.07          | 97.3%        |
| 50          | 50        | 0.86%         | 2,144.46          | 96.6%        |
| 50          | 25        | 0.72%         | 1,804.26          | 95.9%        |
| 10          | 100       | 1.22%         | 3,067.36          | 87.7%        |
| 10          | 50        | 0.86%         | 2,161.08          | 85.0%        |
| 10          | 25        | 0.72%         | 1,816.18          | 82.4%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-72500-KXX-4-DC**

**IE2**

**EFFICIENCY:**

**98.4%**

Code

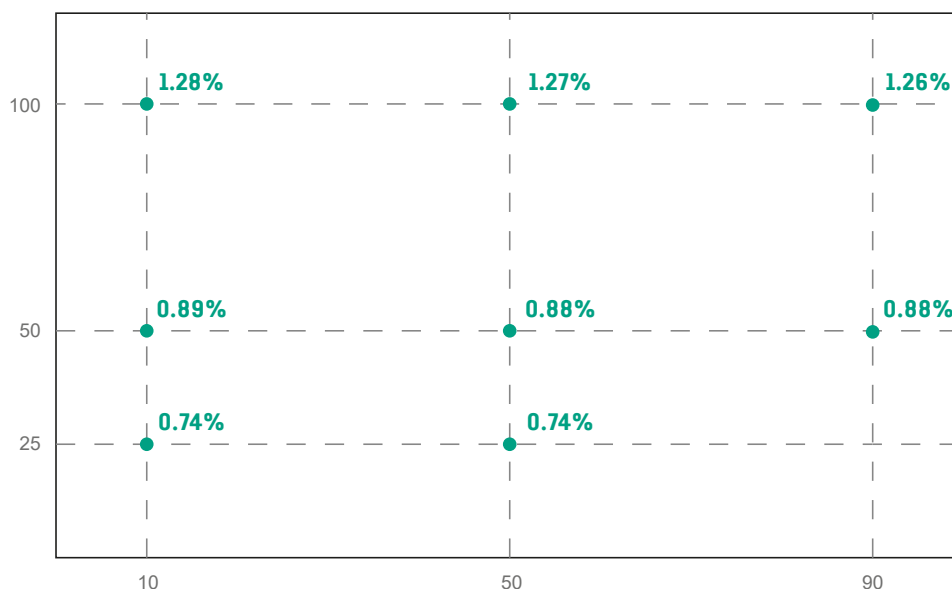
**S9022DC**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>250</b>   |
| Nominal current                 | (A)   | <b>460</b>   |
| Nominal apparent power          | (kVA) | <b>299.6</b> |
| Standby loss                    | (W)   | <b>458</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.26%         | 3,762.48          | 98.4%        |
| 90          | 50        | 0.88%         | 2,624.74          | 98.0%        |
| 50          | 100       | 1.27%         | 3,791.77          | 97.2%        |
| 50          | 50        | 0.88%         | 2,643.55          | 96.5%        |
| 50          | 25        | 0.74%         | 2,208.73          | 95.8%        |
| 10          | 100       | 1.28%         | 3,821.05          | 87.2%        |
| 10          | 50        | 0.89%         | 2,662.35          | 84.6%        |
| 10          | 25        | 0.74%         | 2,222.48          | 82.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-73150-KXX-4-DC**

**IE2**

**EFFICIENCY:**

**98.5%**

Code

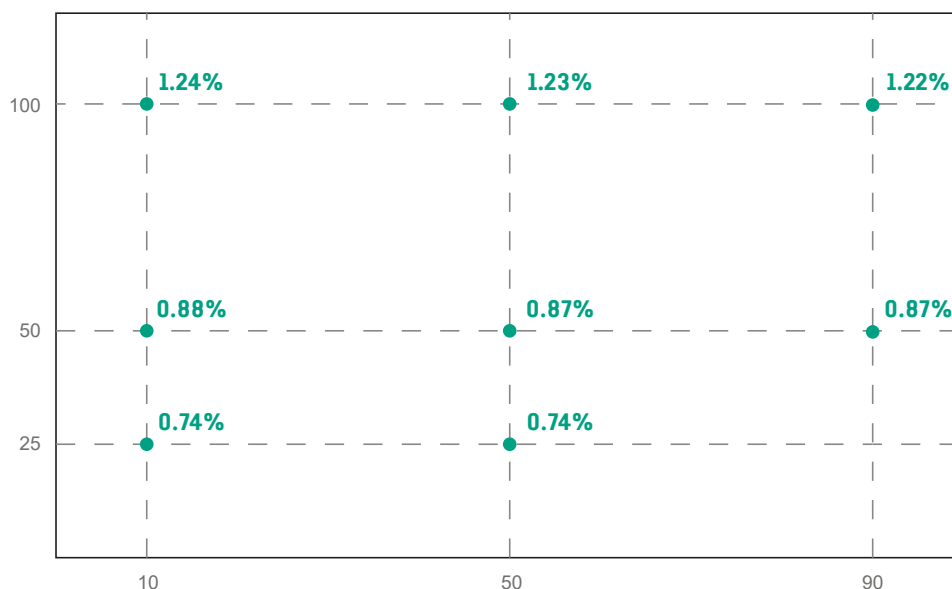
**S9023DC**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>315</b>   |
| Nominal current                 | (A)   | <b>590</b>   |
| Nominal apparent power          | (kVA) | <b>384.2</b> |
| Standby loss                    | (W)   | <b>426</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.22%         | 4,681.05          | 98.5%        |
| 90          | 50        | 0.87%         | 3,332.18          | 98.1%        |
| 50          | 100       | 1.23%         | 4,724.27          | 97.3%        |
| 50          | 50        | 0.87%         | 3,358.83          | 96.5%        |
| 50          | 25        | 0.74%         | 2,841.53          | 95.8%        |
| 10          | 100       | 1.24%         | 4,767.48          | 87.5%        |
| 10          | 50        | 0.88%         | 3,385.47          | 84.7%        |
| 10          | 25        | 0.74%         | 2,860.74          | 82.0%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV-73150-KXX-4A-DC**

**IE2** EFFICIENCY: **98.5%**

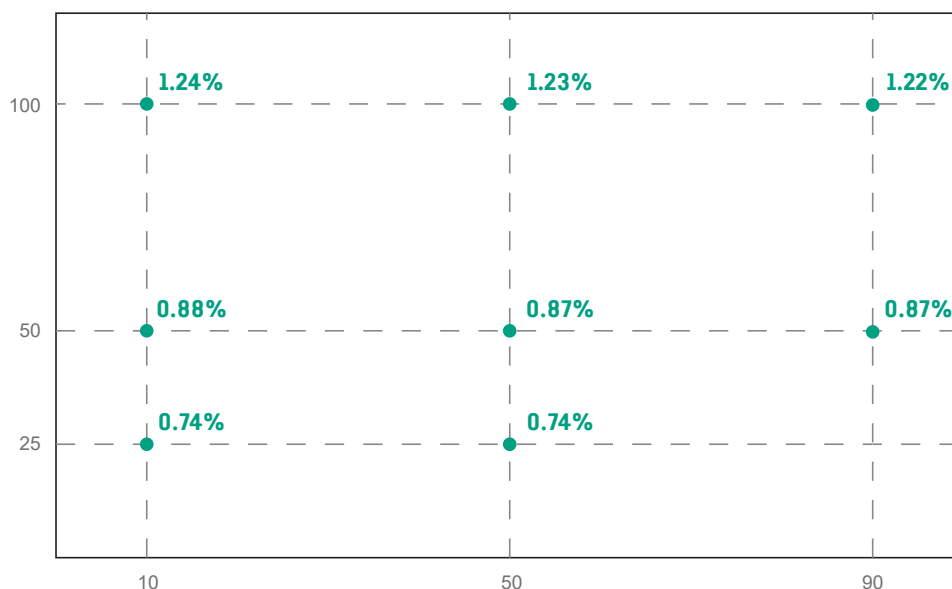
Code **S9025DC**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>315</b>   |
| Nominal current                 | (A)   | <b>590</b>   |
| Nominal apparent power          | (kVA) | <b>384.2</b> |
| Standby loss                    | (W)   | <b>426</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.22%         | 4,681.05          | 98.5%        |
| 90          | 50        | 0.87%         | 3,332.18          | 98.1%        |
| 50          | 100       | 1.23%         | 4,724.27          | 97.3%        |
| 50          | 50        | 0.87%         | 3,358.83          | 96.5%        |
| 50          | 25        | 0.74%         | 2,841.53          | 95.8%        |
| 10          | 100       | 1.24%         | 4,767.48          | 87.5%        |
| 10          | 50        | 0.88%         | 3,385.47          | 84.7%        |
| 10          | 25        | 0.74%         | 2,860.74          | 82.0%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-73551-KXX-4-DC**

**IE2**

**EFFICIENCY:**

**98.5%**

Code

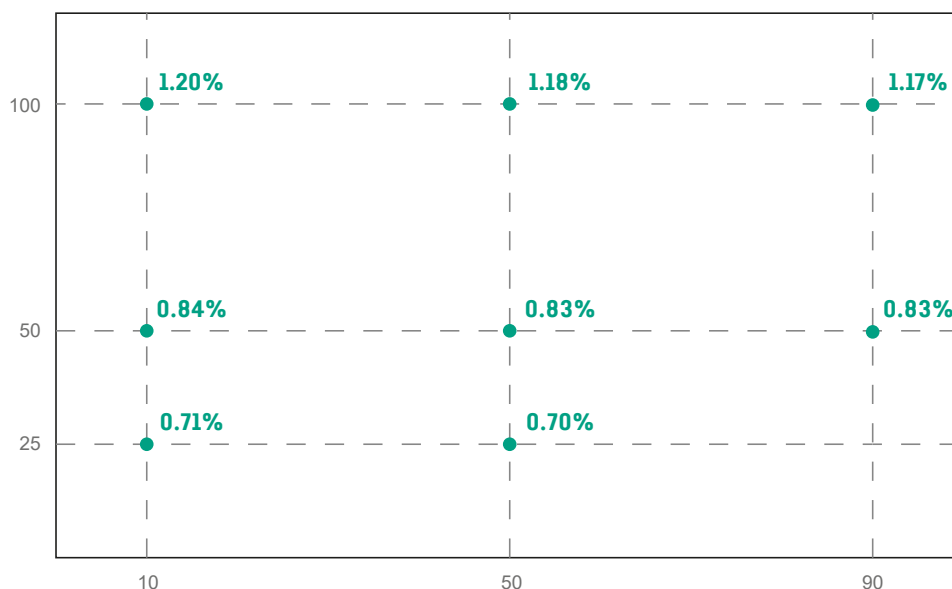
**S9032DC**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>355</b>   |
| Nominal current                 | (A)   | <b>650</b>   |
| Nominal apparent power          | (kVA) | <b>423.3</b> |
| Standby loss                    | (W)   | <b>451</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.17%         | 4,959.32          | 98.5%        |
| 90          | 50        | 0.83%         | 3,502.32          | 98.1%        |
| 50          | 100       | 1.18%         | 5,010.05          | 97.4%        |
| 50          | 50        | 0.83%         | 3,532.65          | 96.7%        |
| 50          | 25        | 0.70%         | 2,970.72          | 96.0%        |
| 10          | 100       | 1.20%         | 5,060.78          | 87.9%        |
| 10          | 50        | 0.84%         | 3,562.99          | 85.3%        |
| 10          | 25        | 0.71%         | 2,992.36          | 82.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV-73550-KXX-4A-DC**

**IE2** EFFICIENCY: **98.5%**

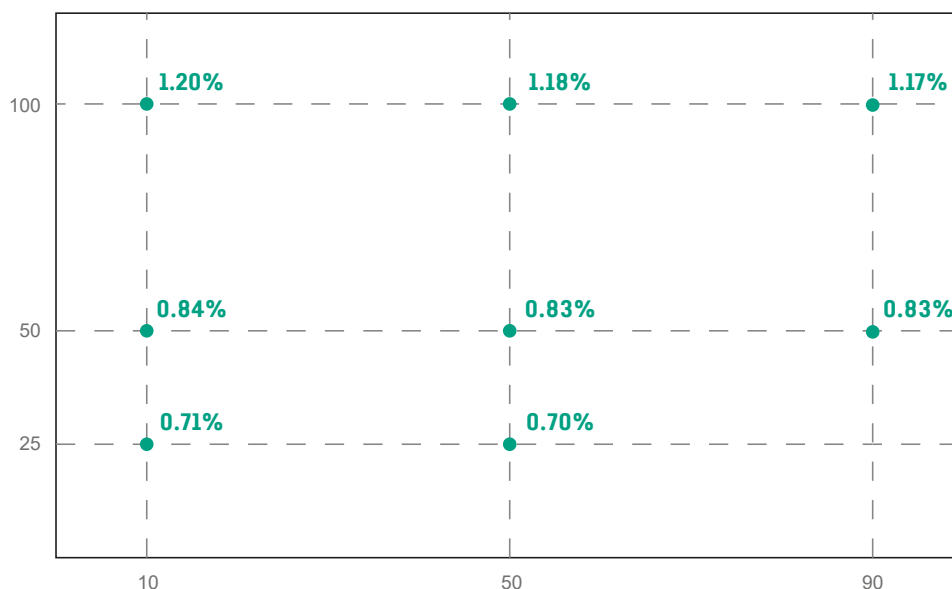
Code **S9026DC**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>355</b>   |
| Nominal current                 | (A)   | <b>650</b>   |
| Nominal apparent power          | (kVA) | <b>423.3</b> |
| Standby loss                    | (W)   | <b>451</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.17%         | 4,959.32          | 98.5%        |
| 90          | 50        | 0.83%         | 3,502.32          | 98.1%        |
| 50          | 100       | 1.18%         | 5,010.05          | 97.4%        |
| 50          | 50        | 0.83%         | 3,532.65          | 96.7%        |
| 50          | 25        | 0.70%         | 2,970.72          | 96.0%        |
| 10          | 100       | 1.20%         | 5,060.78          | 87.9%        |
| 10          | 50        | 0.84%         | 3,562.99          | 85.3%        |
| 10          | 25        | 0.71%         | 2,992.36          | 82.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-73550-KXX-4A-DC+SI**

**IE2**

**EFFICIENCY:**

**98.5%**

Code

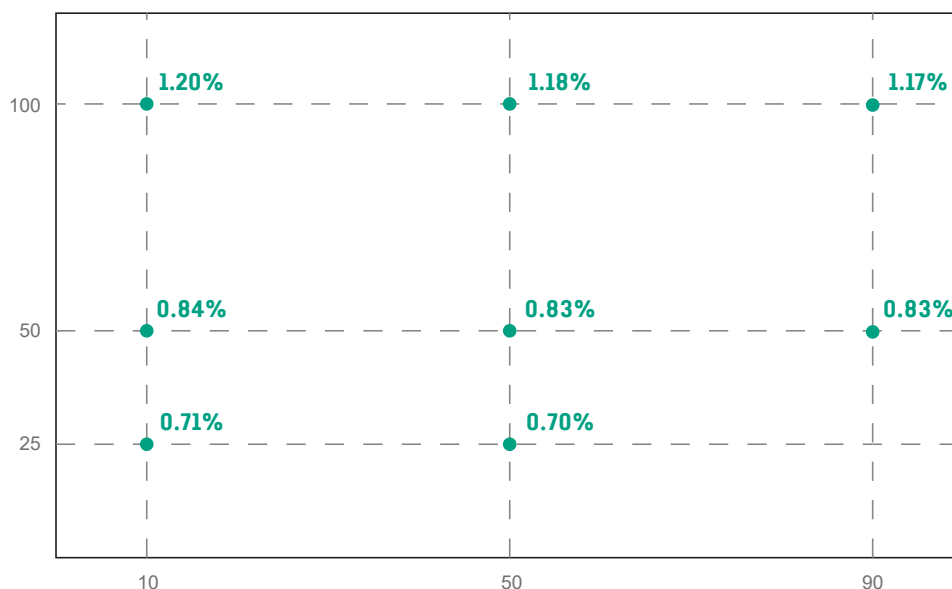
**S9026DS**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>355</b>   |
| Nominal current                 | (A)   | <b>650</b>   |
| Nominal apparent power          | (kVA) | <b>423.3</b> |
| Standby loss                    | (W)   | <b>451</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.17%         | 4,959.32          | 98.5%        |
| 90          | 50        | 0.83%         | 3,502.32          | 98.1%        |
| 50          | 100       | 1.18%         | 5,010.05          | 97.4%        |
| 50          | 50        | 0.83%         | 3,532.65          | 96.7%        |
| 50          | 25        | 0.70%         | 2,970.72          | 96.0%        |
| 10          | 100       | 1.20%         | 5,060.78          | 87.9%        |
| 10          | 50        | 0.84%         | 3,562.99          | 85.3%        |
| 10          | 25        | 0.71%         | 2,992.36          | 82.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ADV200-4, STANDARD - Configuration for "IT MAINS"

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# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-1007-KBX-4-IT**

**IE2**

**EFFICIENCY:**

**94.1%**

Code

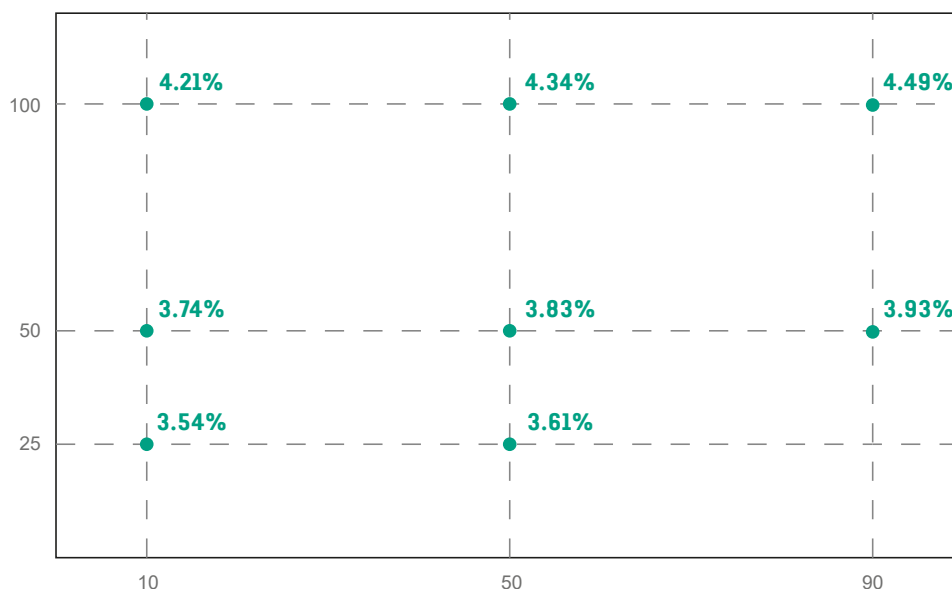
**S900IIT**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>0.75</b> |
| Nominal current                 | (A)   | <b>2.5</b>  |
| Nominal apparent power          | (kVA) | <b>1.6</b>  |
| Standby loss                    | (W)   | <b>6.65</b> |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 4.49%         | 73.13             | 94.1%        |
| 90          | 50        | 3.93%         | 64.00             | 92.8%        |
| 50          | 100       | 4.34%         | 70.71             | 90.1%        |
| 50          | 50        | 3.83%         | 62.41             | 88.0%        |
| 50          | 25        | 3.61%         | 58.81             | 86.4%        |
| 10          | 100       | 4.21%         | 68.49             | 65.3%        |
| 10          | 50        | 3.74%         | 60.92             | 60.0%        |
| 10          | 25        | 3.54%         | 57.62             | 56.4%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-1015-KBX-4-IT**

**IE2**

**EFFICIENCY:**

**95.7%**

Code

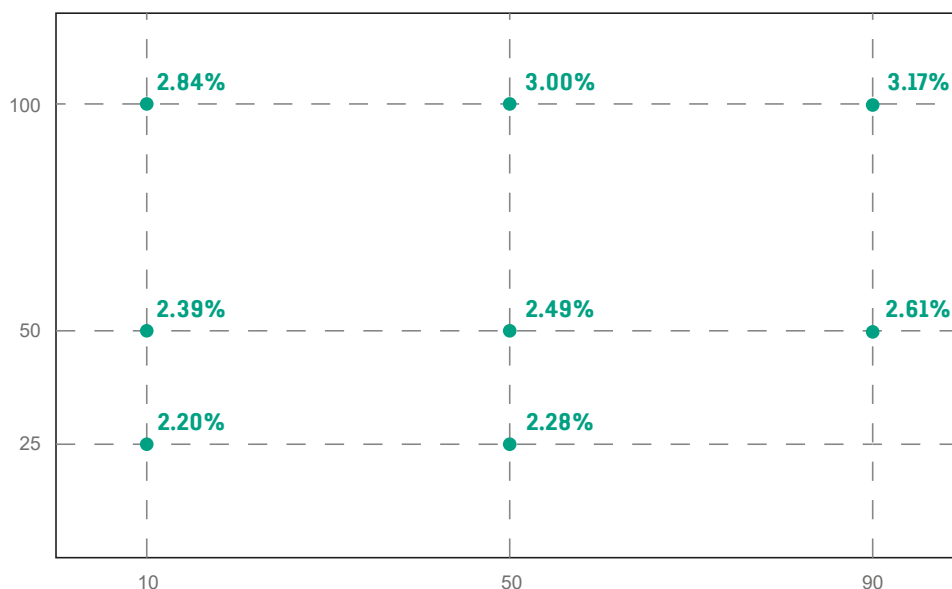
**S9002IT**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>1.5</b> |
| Nominal current                 | (A)   | <b>4,3</b> |
| Nominal apparent power          | (kVA) | <b>2.8</b> |
| Standby loss                    | (W)   | <b>8</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 3.17%         | 88.82             | 95.7%        |
| 90          | 50        | 2.61%         | 72.95             | 95.1%        |
| 50          | 100       | 3.00%         | 83.95             | 92.9%        |
| 50          | 50        | 2.49%         | 69.86             | 91.8%        |
| 50          | 25        | 2.28%         | 63.90             | 90.9%        |
| 10          | 100       | 2.84%         | 79.65             | 73.5%        |
| 10          | 50        | 2.39%         | 67.05             | 70.1%        |
| 10          | 25        | 2.20%         | 61.70             | 67.5%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-1022-KBX-4-IT**

**IE2**

**EFFICIENCY:**

**96.0%**

Code

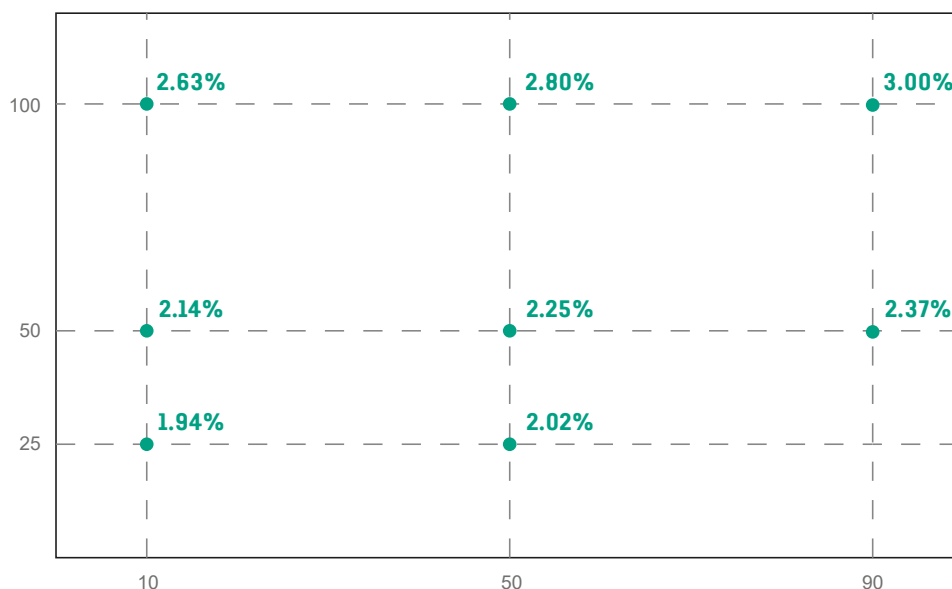
**S9003IT**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>2.2</b> |
| Nominal current                 | (A)   | <b>5.8</b> |
| Nominal apparent power          | (kVA) | <b>3.8</b> |
| Standby loss                    | (W)   | <b>10</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 3.00%         | 113.27            | 96.0%        |
| 90          | 50        | 2.37%         | 89.62             | 95.5%        |
| 50          | 100       | 2.80%         | 105.86            | 93.4%        |
| 50          | 50        | 2.25%         | 85.02             | 92.6%        |
| 50          | 25        | 2.02%         | 76.35             | 91.9%        |
| 10          | 100       | 2.63%         | 99.49             | 75.0%        |
| 10          | 50        | 2.14%         | 80.94             | 72.4%        |
| 10          | 25        | 1.94%         | 73.18             | 70.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-1030-KBX-4-IT**

**IE2**

**EFFICIENCY:**

**95.8%**

Code

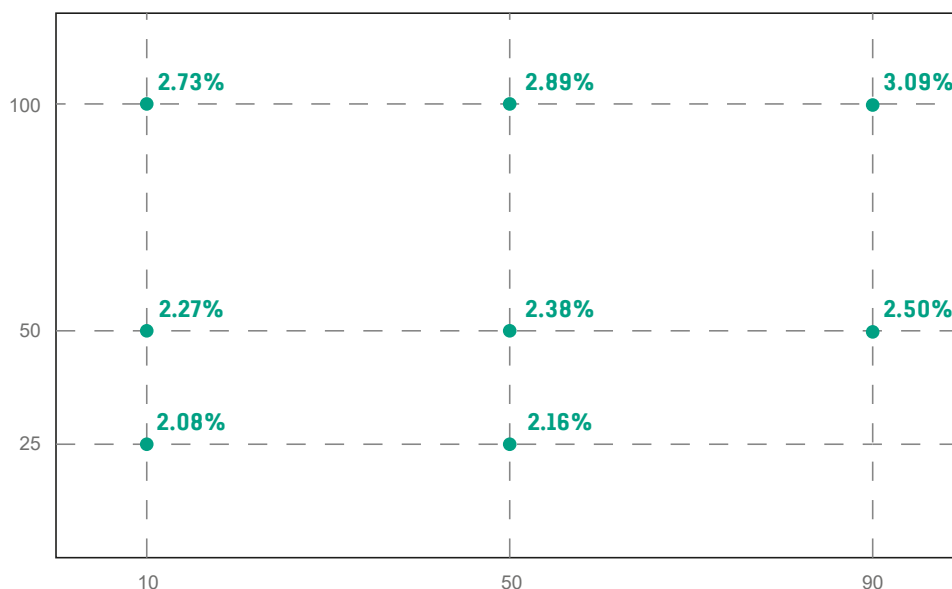
**S9004IT**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>3</b>   |
| Nominal current                 | (A)   | <b>7.6</b> |
| Nominal apparent power          | (kVA) | <b>5</b>   |
| Standby loss                    | (W)   | <b>14</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 3.09%         | 152.80            | 95.8%        |
| 90          | 50        | 2.50%         | 123.97            | 95.3%        |
| 50          | 100       | 2.89%         | 143.08            | 93.2%        |
| 50          | 50        | 2.38%         | 117.80            | 92.2%        |
| 50          | 25        | 2.16%         | 107.15            | 91.4%        |
| 10          | 100       | 2.73%         | 135.13            | 74.3%        |
| 10          | 50        | 2.27%         | 112.52            | 71.2%        |
| 10          | 25        | 2.08%         | 102.98            | 68.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-1040-KBX-4-IT**

**IE2**

**EFFICIENCY:**

**96.2%**

Code

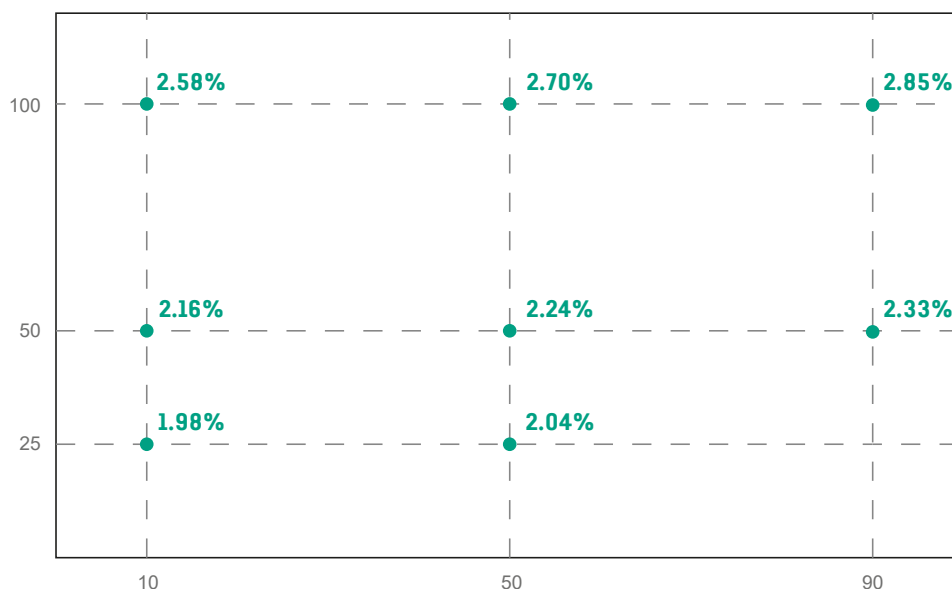
**S9005IT**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>4</b>   |
| Nominal current                 | (A)   | <b>7.6</b> |
| Nominal apparent power          | (kVA) | <b>5</b>   |
| Standby loss                    | (W)   | <b>16</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.85%         | 176.12            | 96.2%        |
| 90          | 50        | 2.33%         | 143.97            | 95.6%        |
| 50          | 100       | 2.70%         | 167.24            | 93.6%        |
| 50          | 50        | 2.24%         | 138.36            | 92.6%        |
| 50          | 25        | 2.04%         | 126.09            | 91.8%        |
| 10          | 100       | 2.58%         | 159.83            | 75.4%        |
| 10          | 50        | 2.16%         | 133.48            | 72.2%        |
| 10          | 25        | 1.98%         | 122.25            | 69.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-2055-KBX-4-IT**

**IE2**

**EFFICIENCY:**

**96.6%**

Code

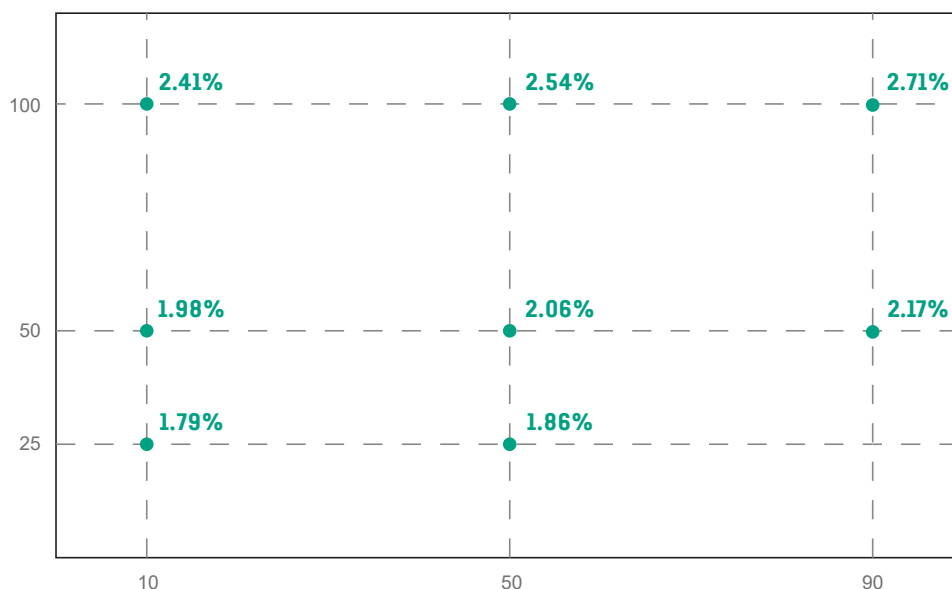
**S9006IT**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>5.5</b> |
| Nominal current                 | (A)   | <b>13</b>  |
| Nominal apparent power          | (kVA) | <b>8.5</b> |
| Standby loss                    | (W)   | <b>21</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.71%         | 229.84            | 96.6%        |
| 90          | 50        | 2.17%         | 183.71            | 96.2%        |
| 50          | 100       | 2.54%         | 215.21            | 94.4%        |
| 50          | 50        | 2.06%         | 174.66            | 93.6%        |
| 50          | 25        | 1.86%         | 157.40            | 93.0%        |
| 10          | 100       | 2.41%         | 203.83            | 77.9%        |
| 10          | 50        | 1.98%         | 167.26            | 75.3%        |
| 10          | 25        | 1.79%         | 151.60            | 73.4%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-2075-KBX-4-IT**

**IE2**

**EFFICIENCY:**

**96.7%**

Code

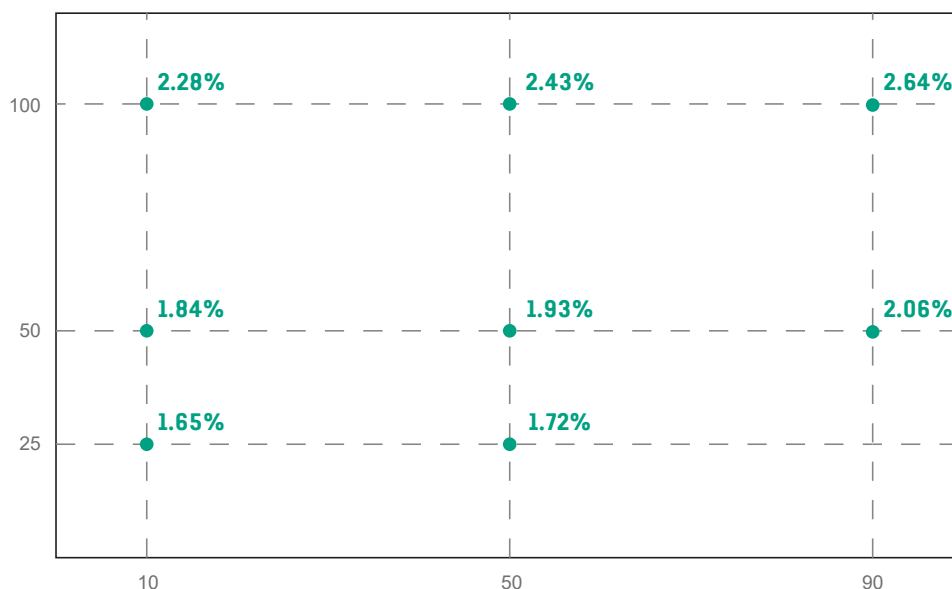
**S9007IT**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>7.5</b>   |
| Nominal current                 | (A)   | <b>16.5</b>  |
| Nominal apparent power          | (kVA) | <b>10.75</b> |
| Standby loss                    | (W)   | <b>26</b>    |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.64%         | 283.96            | 96.7%        |
| 90          | 50        | 2.06%         | 221.32            | 96.3%        |
| 50          | 100       | 2.43%         | 261.60            | 94.6%        |
| 50          | 50        | 1.93%         | 207.92            | 94.0%        |
| 50          | 25        | 1.72%         | 185.34            | 93.5%        |
| 10          | 100       | 2.28%         | 245.28            | 78.8%        |
| 10          | 50        | 1.84%         | 197.58            | 76.6%        |
| 10          | 25        | 1.65%         | 177.34            | 74.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-2110-KBX-4-IT**

**IE2**

**EFFICIENCY:**

**97.0%**

Code

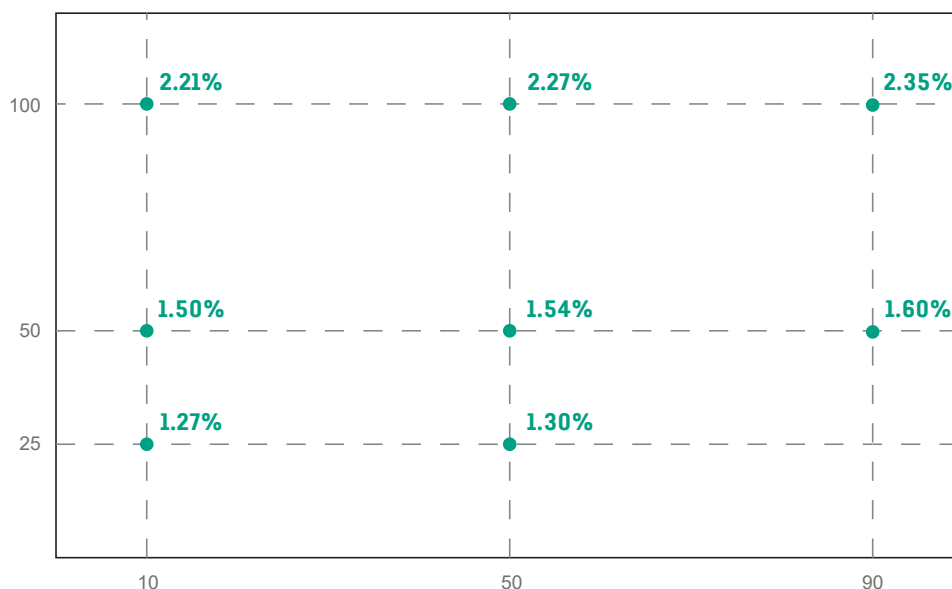
**S9008IT**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>11</b>  |
| Nominal current                 | (A)   | <b>23</b>  |
| Nominal apparent power          | (kVA) | <b>15</b>  |
| Standby loss                    | (W)   | <b>32</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.35%         | 351.60            | 97.0%        |
| 90          | 50        | 1.60%         | 239.08            | 96.6%        |
| 50          | 100       | 2.27%         | 339.54            | 94.9%        |
| 50          | 50        | 1.54%         | 231.42            | 94.3%        |
| 50          | 25        | 1.30%         | 195.08            | 93.6%        |
| 10          | 100       | 2.21%         | 331.32            | 79.4%        |
| 10          | 50        | 1.50%         | 225.13            | 77.2%        |
| 10          | 25        | 1.27%         | 189.98            | 75.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-3150-KBX-4-IT**

**IE2**

**EFFICIENCY:**

**97.2%**

Code

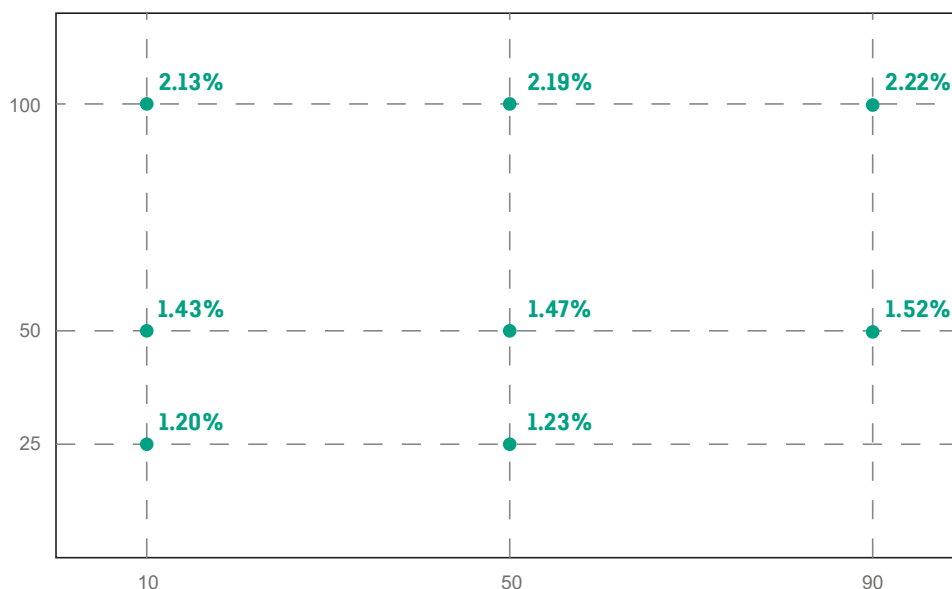
**S9009IT**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>15</b>   |
| Nominal current                 | (A)   | <b>31</b>   |
| Nominal apparent power          | (kVA) | <b>20.2</b> |
| Standby loss                    | (W)   | <b>41</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.22%         | 449.00            | 97.2%        |
| 90          | 50        | 1.52%         | 307.79            | 96.8%        |
| 50          | 100       | 2.19%         | 441.42            | 95.1%        |
| 50          | 50        | 1.47%         | 297.10            | 94.5%        |
| 50          | 25        | 1.23%         | 248.44            | 94.0%        |
| 10          | 100       | 2.13%         | 430.38            | 79.9%        |
| 10          | 50        | 1.43%         | 288.64            | 78.1%        |
| 10          | 25        | 1.20%         | 241.58            | 76.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-3185-KBX-4-IT**

**IE2**

**EFFICIENCY:**

**97.2%**

Code

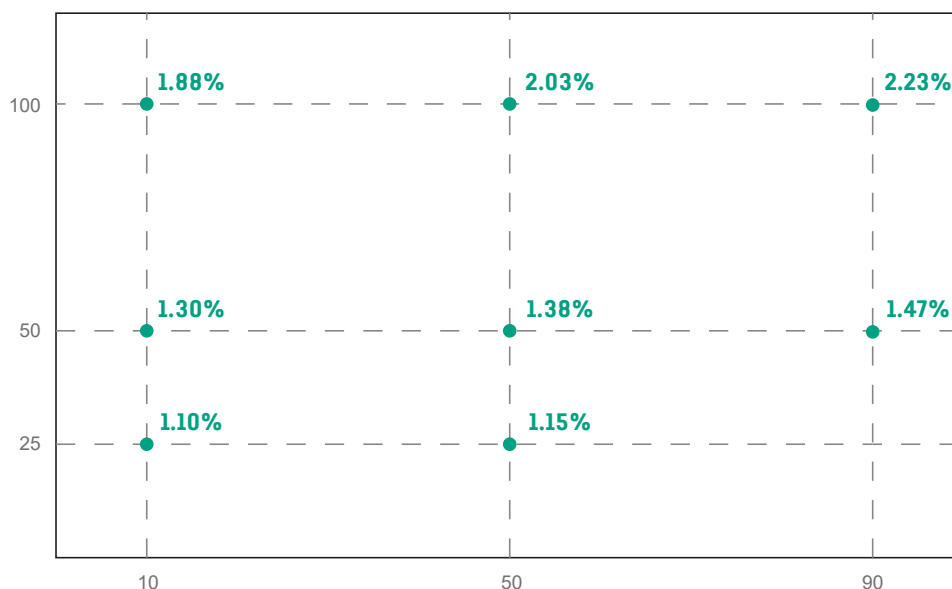
**S9010IT**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>18.5</b>  |
| Nominal current                 | (A)   | <b>38</b>    |
| Nominal apparent power          | (kVA) | <b>24.75</b> |
| Standby loss                    | (W)   | <b>50</b>    |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.23%         | 552.10            | 97.2%        |
| 90          | 50        | 1.47%         | 364.08            | 96.9%        |
| 50          | 100       | 2.03%         | 502.12            | 95.4%        |
| 50          | 50        | 1.38%         | 340.61            | 94.9%        |
| 50          | 25        | 1.15%         | 284.60            | 94.3%        |
| 10          | 100       | 1.88%         | 465.36            | 81.9%        |
| 10          | 50        | 1.30%         | 321.90            | 79.7%        |
| 10          | 25        | 1.10%         | 271.51            | 77.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-3220-KBX-4-IT**

**IE2**

**EFFICIENCY:**

**96.8%**

Code

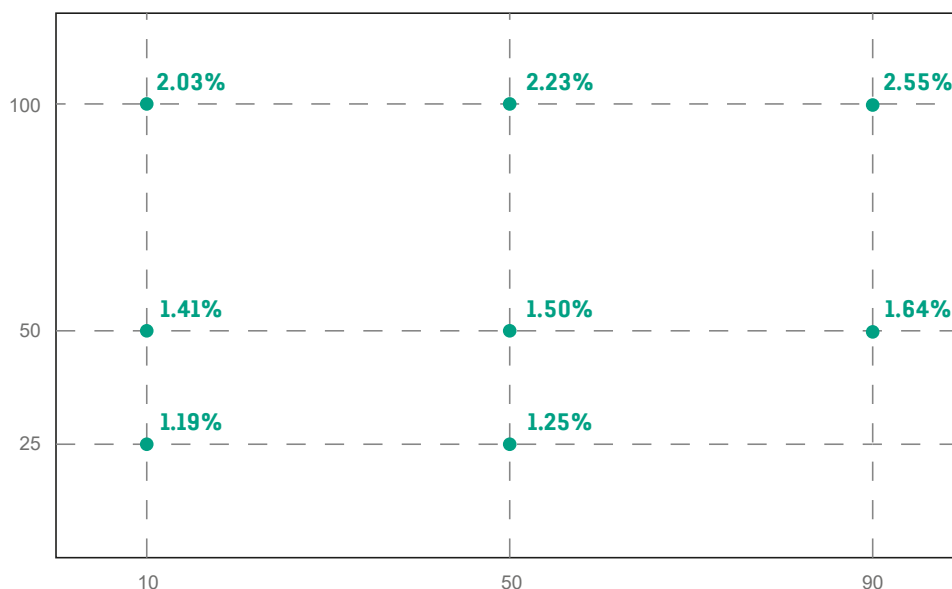
**S9011IT**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>22</b>  |
| Nominal current                 | (A)   | <b>46</b>  |
| Nominal apparent power          | (kVA) | <b>30</b>  |
| Standby loss                    | (W)   | <b>69</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.55%         | 762.48            | 96.8%        |
| 90          | 50        | 1.64%         | 491.42            | 96.5%        |
| 50          | 100       | 2.23%         | 667.55            | 95.0%        |
| 50          | 50        | 1.50%         | 450.11            | 94.4%        |
| 50          | 25        | 1.25%         | 374.71            | 93.9%        |
| 10          | 100       | 2.03%         | 607.10            | 80.7%        |
| 10          | 50        | 1.41%         | 421.21            | 78.4%        |
| 10          | 25        | 1.19%         | 355.10            | 76.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4300-KBX-4-IT**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

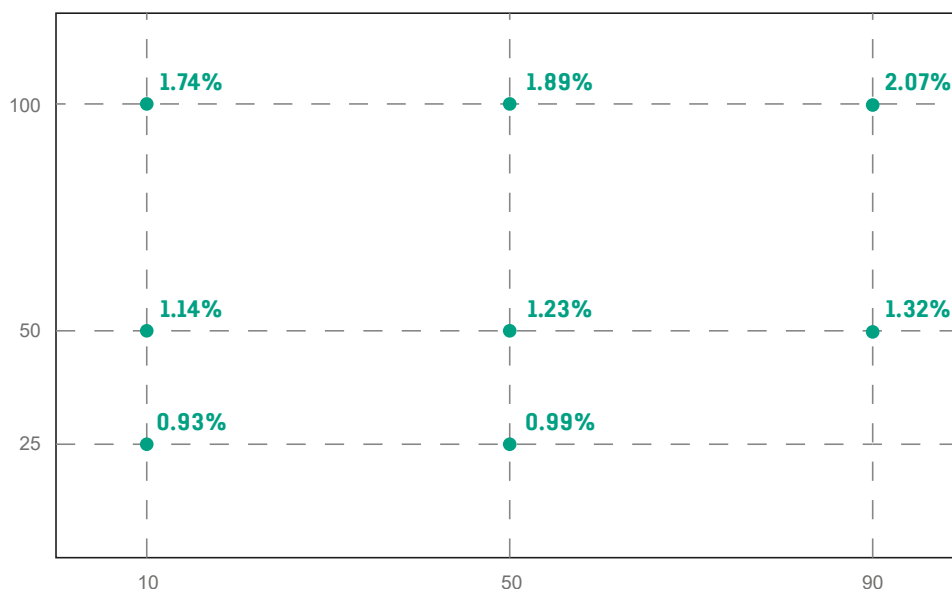
**S9013IT**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>30</b>   |
| Nominal current                 | (A)   | <b>62</b>   |
| Nominal apparent power          | (kVA) | <b>40.4</b> |
| Standby loss                    | (W)   | <b>76</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 836.96            | 97.4%        |
| 90          | 50        | 1.32%         | 531.70            | 97.1%        |
| 50          | 100       | 1.89%         | 764.80            | 95.7%        |
| 50          | 50        | 1.23%         | 494.89            | 95.3%        |
| 50          | 25        | 0.99%         | 400.54            | 94.7%        |
| 10          | 100       | 1.74%         | 702.97            | 83.0%        |
| 10          | 50        | 1.14%         | 461.55            | 81.2%        |
| 10          | 25        | 0.93%         | 377.09            | 79.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4370-KBX-4-IT**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

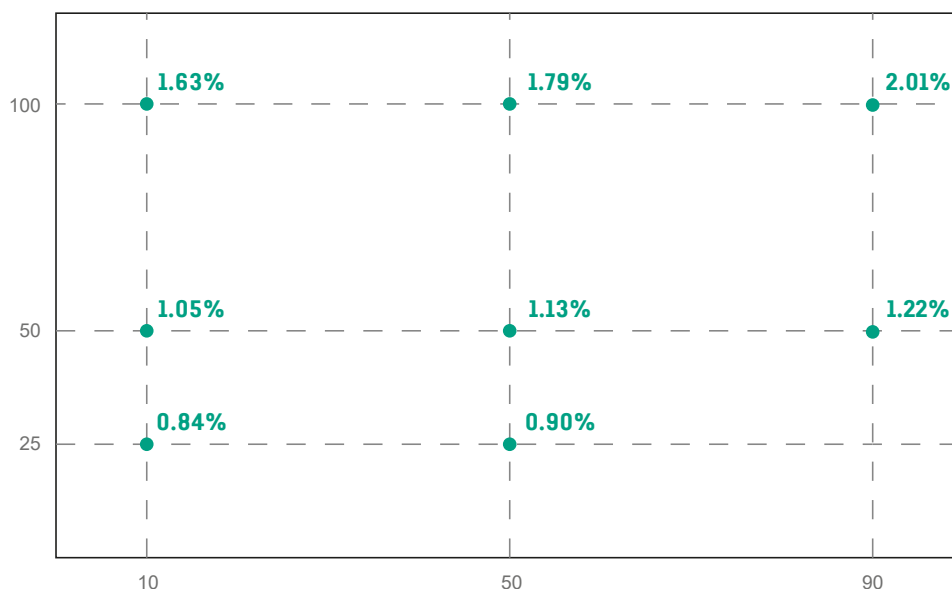
**S9015IT**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>37</b>   |
| Nominal current                 | (A)   | <b>75</b>   |
| Nominal apparent power          | (kVA) | <b>48.8</b> |
| Standby loss                    | (W)   | <b>89</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.01%         | 980.88            | 97.4%        |
| 90          | 50        | 1.22%         | 597.76            | 97.3%        |
| 50          | 100       | 1.79%         | 875.11            | 96.0%        |
| 50          | 50        | 1.13%         | 549.53            | 95.6%        |
| 50          | 25        | 0.90%         | 438.75            | 95.2%        |
| 10          | 100       | 1.63%         | 798.06            | 83.9%        |
| 10          | 50        | 1.05%         | 510.96            | 82.5%        |
| 10          | 25        | 0.84%         | 412.51            | 80.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4450-KBX-4-IT**

**IE2**

**EFFICIENCY:**

**97.3%**

Code

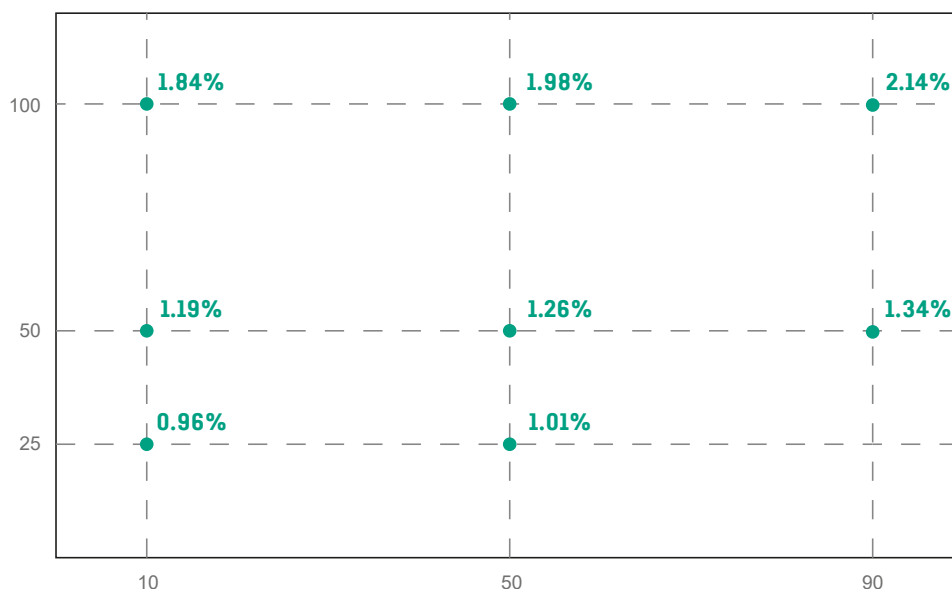
**S9017IT**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>45</b>   |
| Nominal current                 | (A)   | <b>87</b>   |
| Nominal apparent power          | (kVA) | <b>56.7</b> |
| Standby loss                    | (W)   | <b>110</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.14%         | 1,214.58          | 97.3%        |
| 90          | 50        | 1.34%         | 759.44            | 97.1%        |
| 50          | 100       | 1.98%         | 1,121.61          | 95.6%        |
| 50          | 50        | 1.26%         | 713.70            | 95.2%        |
| 50          | 25        | 1.01%         | 569.50            | 94.7%        |
| 10          | 100       | 1.84%         | 1,045.20          | 82.3%        |
| 10          | 50        | 1.19%         | 673.55            | 80.8%        |
| 10          | 25        | 0.96%         | 541.57            | 79.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-5550-KBX-4-IT**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

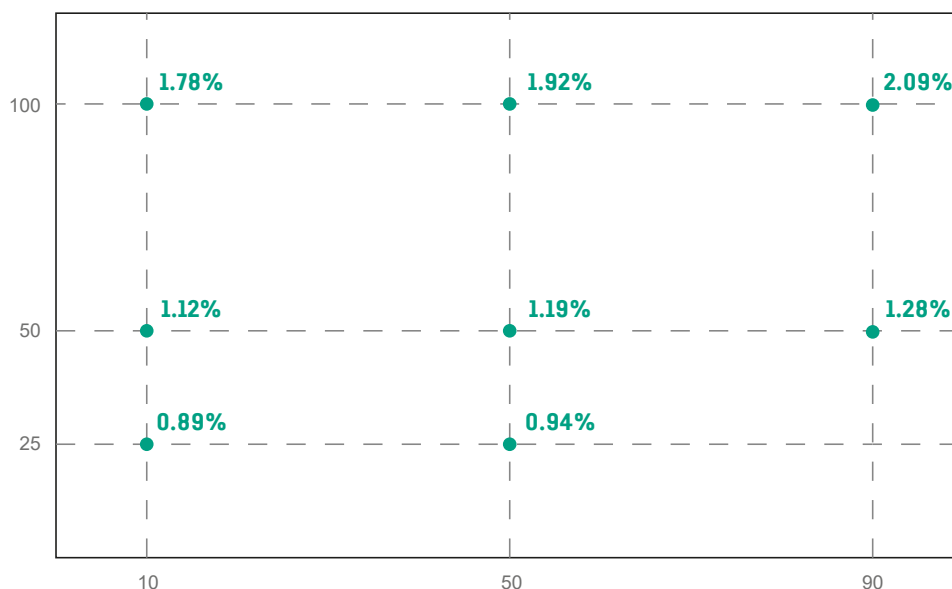
**S9019IT**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>55</b>   |
| Nominal current                 | (A)   | <b>105</b>  |
| Nominal apparent power          | (kVA) | <b>68.4</b> |
| Standby loss                    | (W)   | <b>130</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.09%         | 1,431.96          | 97.4%        |
| 90          | 50        | 1.28%         | 875.52            | 97.2%        |
| 50          | 100       | 1.92%         | 1,310.93          | 95.7%        |
| 50          | 50        | 1.19%         | 816.88            | 95.4%        |
| 50          | 25        | 0.94%         | 645.19            | 95.0%        |
| 10          | 100       | 1.78%         | 1,214.14          | 82.9%        |
| 10          | 50        | 1.12%         | 766.40            | 81.7%        |
| 10          | 25        | 0.89%         | 610.20            | 80.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4300-KXX-4-IT**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

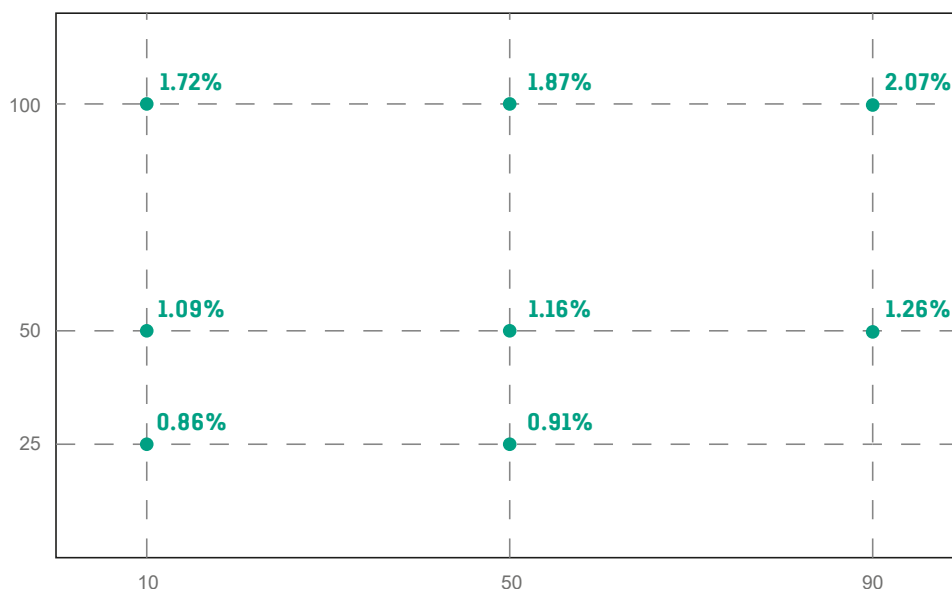
**S9012IT**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>30</b>   |
| Nominal current                 | (A)   | <b>62</b>   |
| Nominal apparent power          | (kVA) | <b>40.4</b> |
| Standby loss                    | (W)   | <b>76</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 2,024.88          | 97.4%        |
| 90          | 50        | 1.26%         | 1,226.35          | 97.3%        |
| 50          | 100       | 1.87%         | 1,831.36          | 95.8%        |
| 50          | 50        | 1.16%         | 1,135.65          | 95.5%        |
| 50          | 25        | 0.91%         | 893.53            | 95.2%        |
| 10          | 100       | 1.72%         | 1,683.33          | 83.3%        |
| 10          | 50        | 1.09%         | 1,060.26          | 82.1%        |
| 10          | 25        | 0.86%         | 841.81            | 80.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4370-KXX-4-IT**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

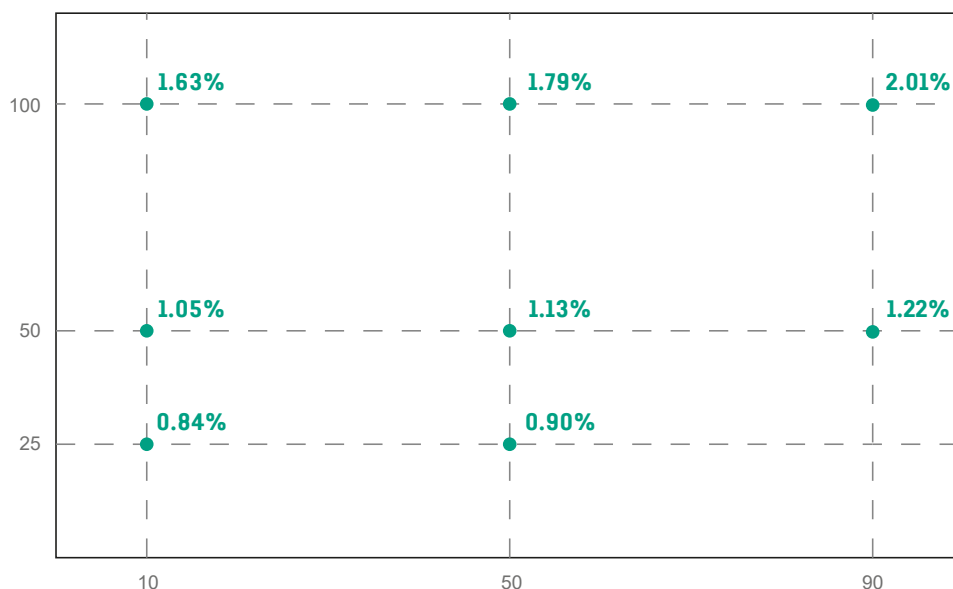
**S9014IT**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>37</b>   |
| Nominal current                 | (A)   | <b>75</b>   |
| Nominal apparent power          | (kVA) | <b>48.8</b> |
| Standby loss                    | (W)   | <b>89</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.01%         | 980.88            | 97.4%        |
| 90          | 50        | 1.22%         | 597.76            | 97.3%        |
| 50          | 100       | 1.79%         | 875.11            | 96.0%        |
| 50          | 50        | 1.13%         | 549.53            | 95.6%        |
| 50          | 25        | 0.90%         | 438.75            | 95.2%        |
| 10          | 100       | 1.63%         | 798.06            | 83.9%        |
| 10          | 50        | 1.05%         | 510.96            | 82.5%        |
| 10          | 25        | 0.84%         | 412.51            | 80.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4450-KXX-4-IT**

**IE2**

**EFFICIENCY:**

**97.3%**

Code

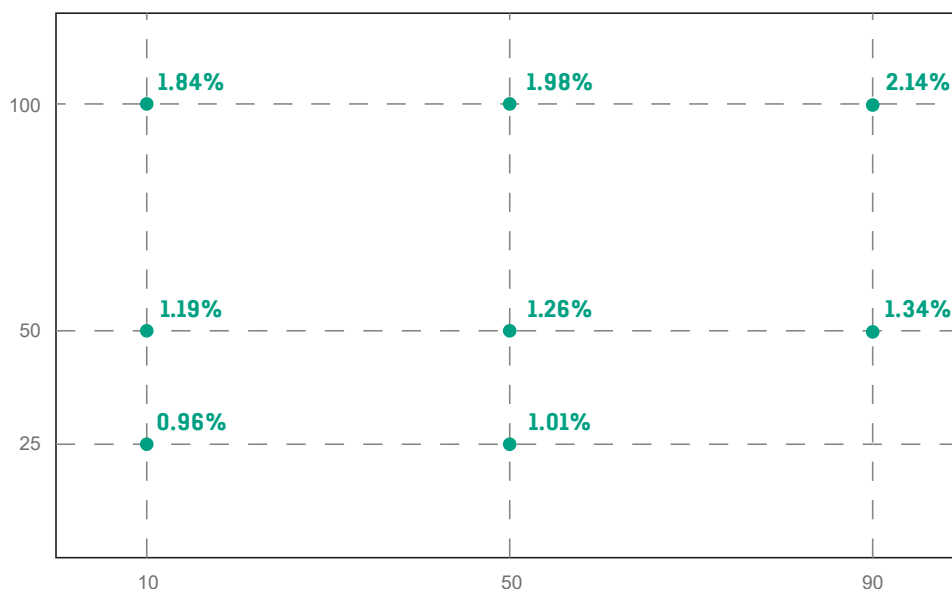
**S9016IT**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>45</b>   |
| Nominal current                 | (A)   | <b>87</b>   |
| Nominal apparent power          | (kVA) | <b>56.7</b> |
| Standby loss                    | (W)   | <b>110</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.14%         | 1,214.58          | 97.3%        |
| 90          | 50        | 1.34%         | 759.44            | 97.1%        |
| 50          | 100       | 1.98%         | 1,121.61          | 95.6%        |
| 50          | 50        | 1.26%         | 713.70            | 95.2%        |
| 50          | 25        | 1.01%         | 569.50            | 94.7%        |
| 10          | 100       | 1.84%         | 1,045.20          | 82.3%        |
| 10          | 50        | 1.19%         | 673.55            | 80.8%        |
| 10          | 25        | 0.96%         | 541.57            | 79.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-5550-KXX-4-IT**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

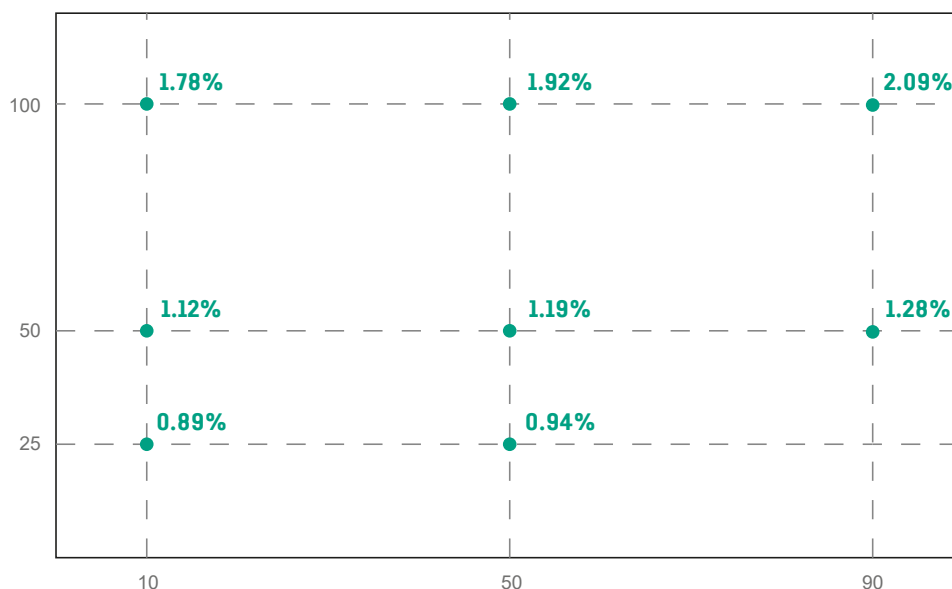
**S9018IT**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>55</b>   |
| Nominal current                 | (A)   | <b>105</b>  |
| Nominal apparent power          | (kVA) | <b>68.4</b> |
| Standby loss                    | (W)   | <b>130</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.09%         | 1,431.96          | 97.4%        |
| 90          | 50        | 1.28%         | 875.52            | 97.2%        |
| 50          | 100       | 1.92%         | 1,310.93          | 95.7%        |
| 50          | 50        | 1.19%         | 816.88            | 95.4%        |
| 50          | 25        | 0.94%         | 645.19            | 95.0%        |
| 10          | 100       | 1.78%         | 1,214.14          | 82.9%        |
| 10          | 50        | 1.12%         | 766.40            | 81.7%        |
| 10          | 25        | 0.89%         | 610.20            | 80.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-5750-KXX-4-IT**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

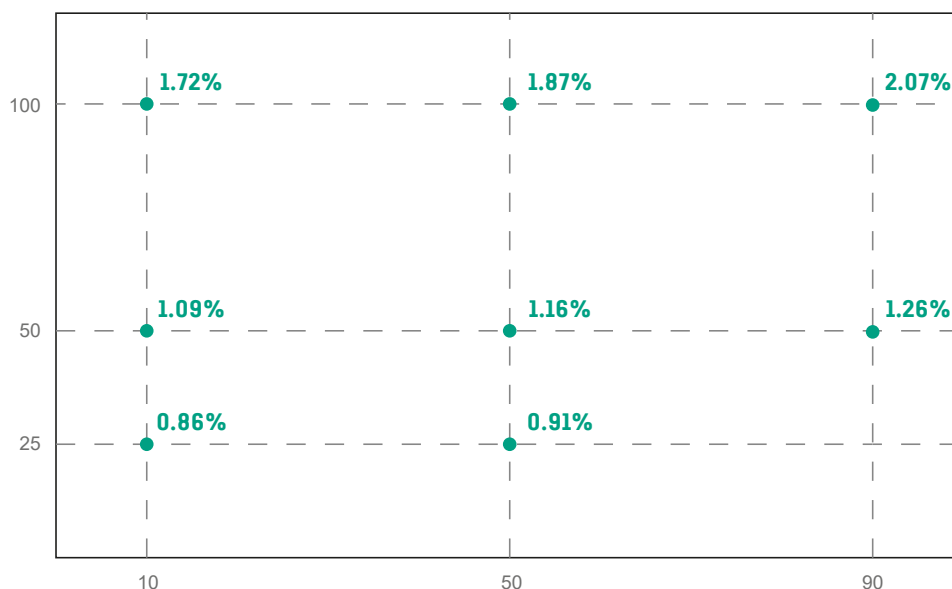
**S9020IT**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>75</b>   |
| Nominal current                 | (A)   | <b>150</b>  |
| Nominal apparent power          | (kVA) | <b>97.7</b> |
| Standby loss                    | (W)   | <b>184</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 2,024.88          | 97.4%        |
| 90          | 50        | 1.26%         | 1,226.35          | 97.3%        |
| 50          | 100       | 1.87%         | 1,831.36          | 95.8%        |
| 50          | 50        | 1.16%         | 1,135.65          | 95.5%        |
| 50          | 25        | 0.91%         | 893.53            | 95.2%        |
| 10          | 100       | 1.72%         | 1,683.33          | 83.3%        |
| 10          | 50        | 1.09%         | 1,060.26          | 82.1%        |
| 10          | 25        | 0.86%         | 841.81            | 80.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-5900-KXX-4-IT**

**IE2**

**EFFICIENCY:**

**97.6%**

Code

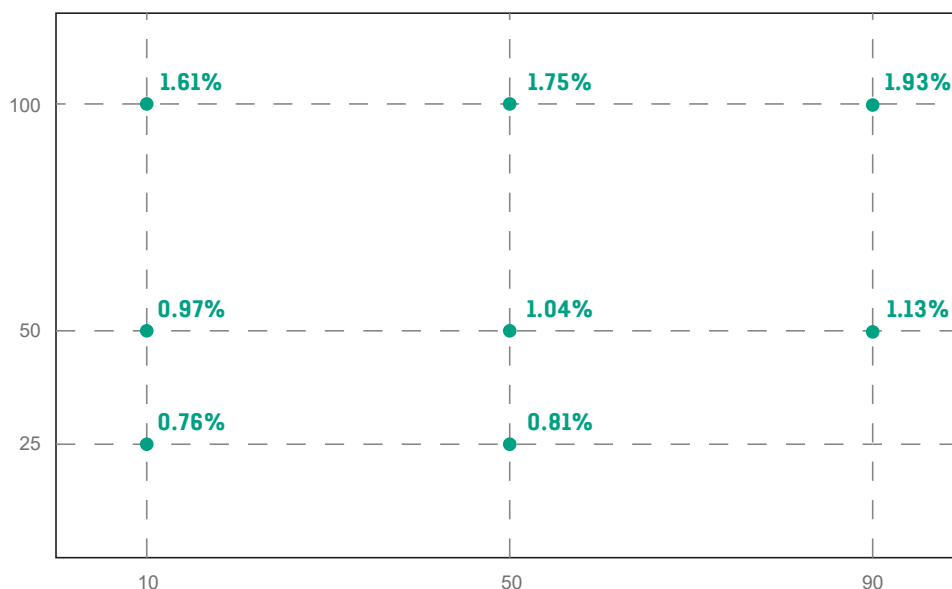
**S902IIT**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>90</b>    |
| Nominal current                 | (A)   | <b>180</b>   |
| Nominal apparent power          | (kVA) | <b>117.2</b> |
| Standby loss                    | (W)   | <b>205</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.93%         | 2,257.49          | 97.6%        |
| 90          | 50        | 1.13%         | 1,322.22          | 97.5%        |
| 50          | 100       | 1.75%         | 2,051.77          | 96.1%        |
| 50          | 50        | 1.04%         | 1,224.33          | 96.0%        |
| 50          | 25        | 0.81%         | 944.69            | 95.7%        |
| 10          | 100       | 1.61%         | 1,889.73          | 84.2%        |
| 10          | 50        | 0.97%         | 1,141.14          | 83.7%        |
| 10          | 25        | 0.76%         | 887.42            | 82.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-61100-KXX-4-IT**

**IE2**

**EFFICIENCY:**

**98.0%**

Code

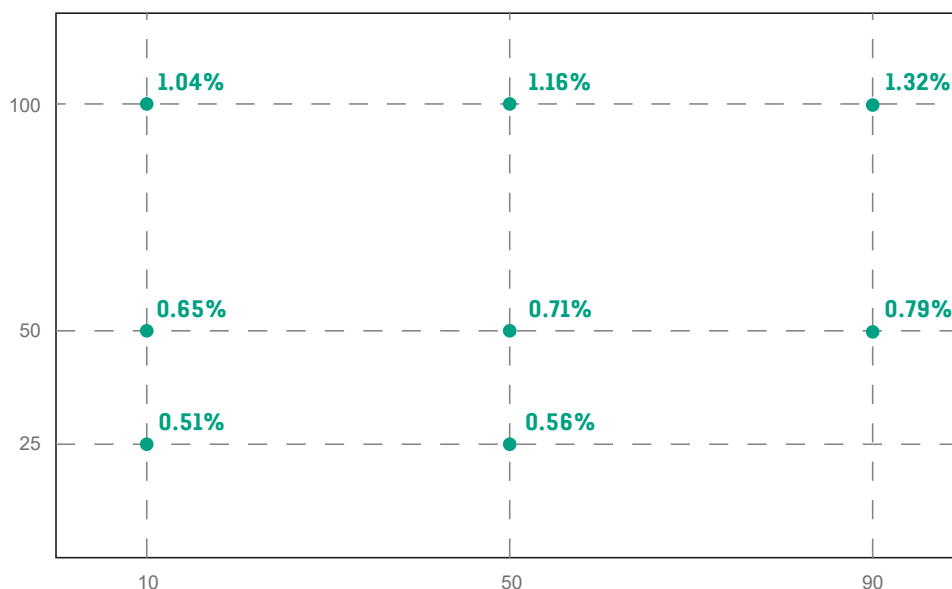
**S9022IT**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>110</b>   |
| Nominal current                 | (A)   | <b>210</b>   |
| Nominal apparent power          | (kVA) | <b>162.8</b> |
| Standby loss                    | (W)   | <b>195</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.32%         | 2,143.86          | 98.0%        |
| 90          | 50        | 0.79%         | 1,281.43          | 98.0%        |
| 50          | 100       | 1.16%         | 1,896.62          | 96.9%        |
| 50          | 50        | 0.71%         | 1,160.70          | 96.7%        |
| 50          | 25        | 0.56%         | 905.74            | 96.5%        |
| 10          | 100       | 1.04%         | 1,699.32          | 87.4%        |
| 10          | 50        | 0.65%         | 1,056.76          | 86.6%        |
| 10          | 25        | 0.51%         | 833.37            | 85.6%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-61320-KXX-4-IT**

**IE2**

**EFFICIENCY:**

**98.0%**

Code

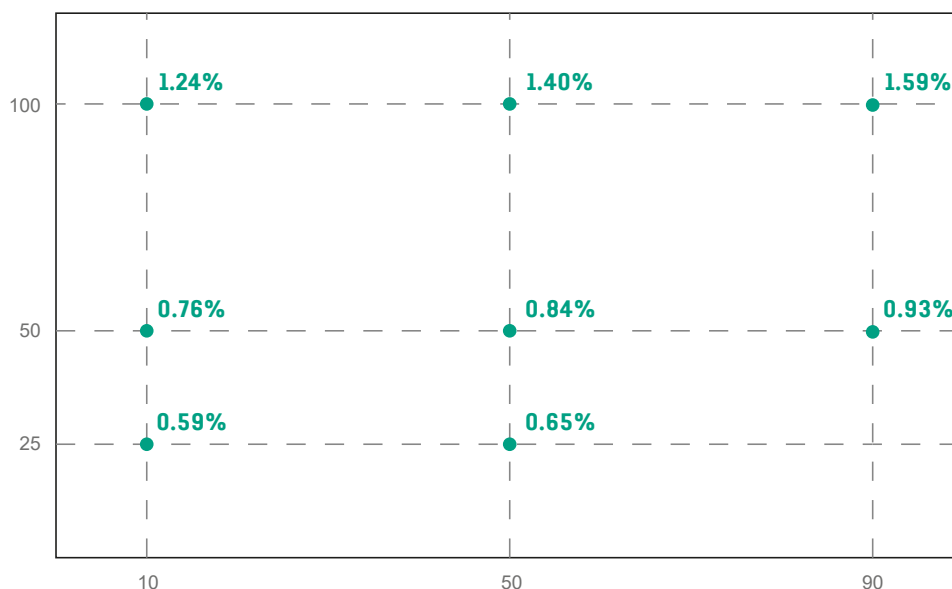
**S9023IT**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>132</b>   |
| Nominal current                 | (A)   | <b>250</b>   |
| Nominal apparent power          | (kVA) | <b>162.8</b> |
| Standby loss                    | (W)   | <b>236</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.59%         | 2,596.15          | 98.0%        |
| 90          | 50        | 0.93%         | 1,513.51          | 98.0%        |
| 50          | 100       | 1.40%         | 2,275.29          | 96.9%        |
| 50          | 50        | 0.84%         | 1,360.86          | 96.8%        |
| 50          | 25        | 0.65%         | 1,051.50          | 96.5%        |
| 10          | 100       | 1.24%         | 2,017.62          | 87.4%        |
| 10          | 50        | 0.76%         | 1,229.46          | 86.9%        |
| 10          | 25        | 0.59%         | 961.33            | 85.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-71600-KXX-4-IT**

**IE2**

**EFFICIENCY:**

**97.8%**

Code

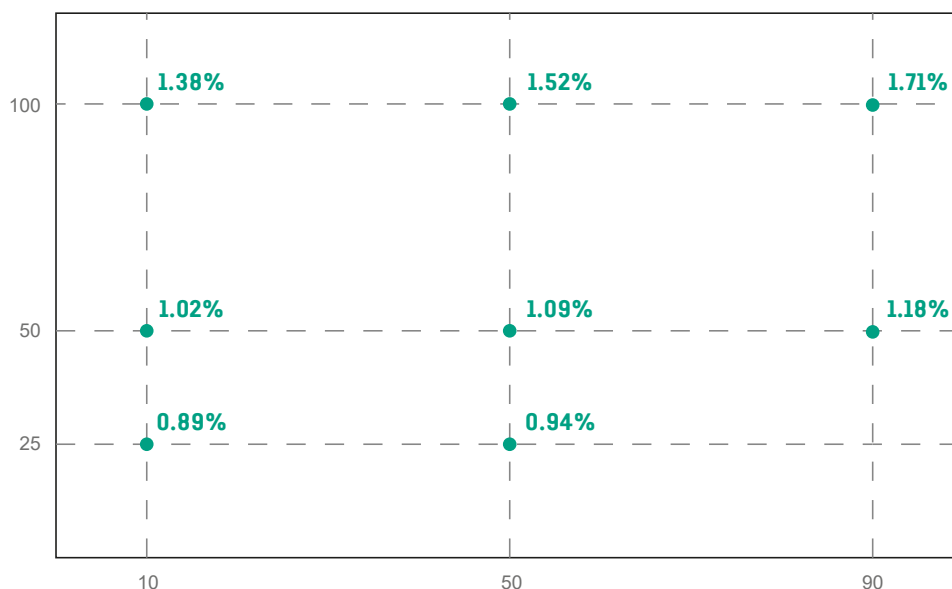
**S9024IT**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>160</b>   |
| Nominal current                 | (A)   | <b>300</b>   |
| Nominal apparent power          | (kVA) | <b>195.4</b> |
| Standby loss                    | (W)   | <b>304</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.71%         | 3,342.40          | 97.8%        |
| 90          | 50        | 1.18%         | 2,313.43          | 97.4%        |
| 50          | 100       | 1.52%         | 2,968.06          | 96.6%        |
| 50          | 50        | 1.09%         | 2,136.10          | 95.8%        |
| 50          | 25        | 0.94%         | 1,831.37          | 95.1%        |
| 10          | 100       | 1.38%         | 2,687.17          | 86.2%        |
| 10          | 50        | 1.02%         | 1,993.17          | 83.0%        |
| 10          | 25        | 0.89%         | 1,733.38          | 80.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-72000-KXX-4-IT**

**IE2**

**EFFICIENCY:**

**97.9%**

Code

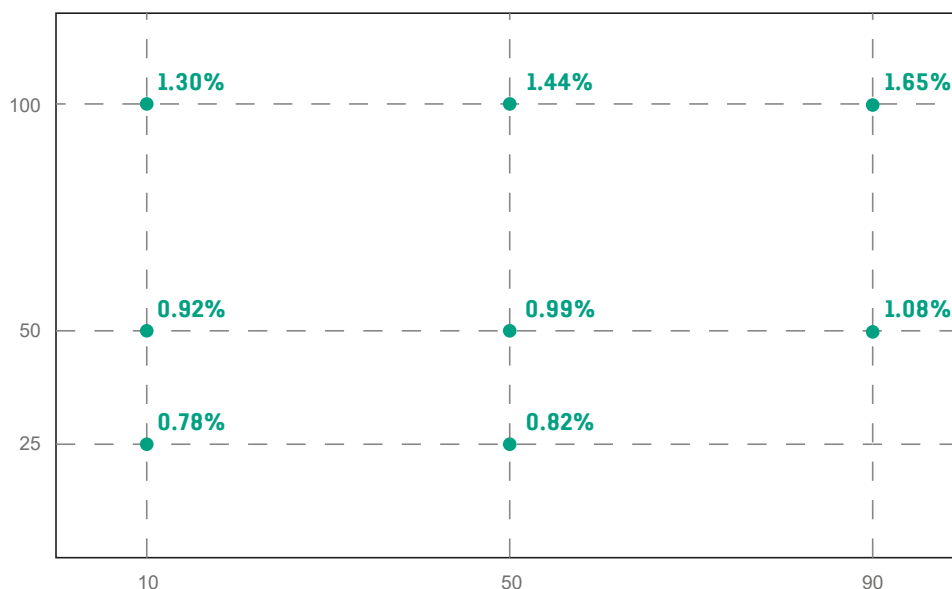
**S9025IT**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>200</b>   |
| Nominal current                 | (A)   | <b>385</b>   |
| Nominal apparent power          | (kVA) | <b>250.7</b> |
| Standby loss                    | (W)   | <b>377</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.65%         | 4,149.10          | 97.9%        |
| 90          | 50        | 1.08%         | 2,715.38          | 97.6%        |
| 50          | 100       | 1.44%         | 3,622.81          | 96.8%        |
| 50          | 50        | 0.99%         | 2,487.06          | 96.1%        |
| 50          | 25        | 0.82%         | 2,066.30          | 95.4%        |
| 10          | 100       | 1.30%         | 3,247.44          | 87.0%        |
| 10          | 50        | 0.92%         | 2,306.08          | 84.1%        |
| 10          | 25        | 0.78%         | 1,948.12          | 81.4%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-72500-KXX-4-IT**

**IE2**

**EFFICIENCY:**

**97.9%**

Code

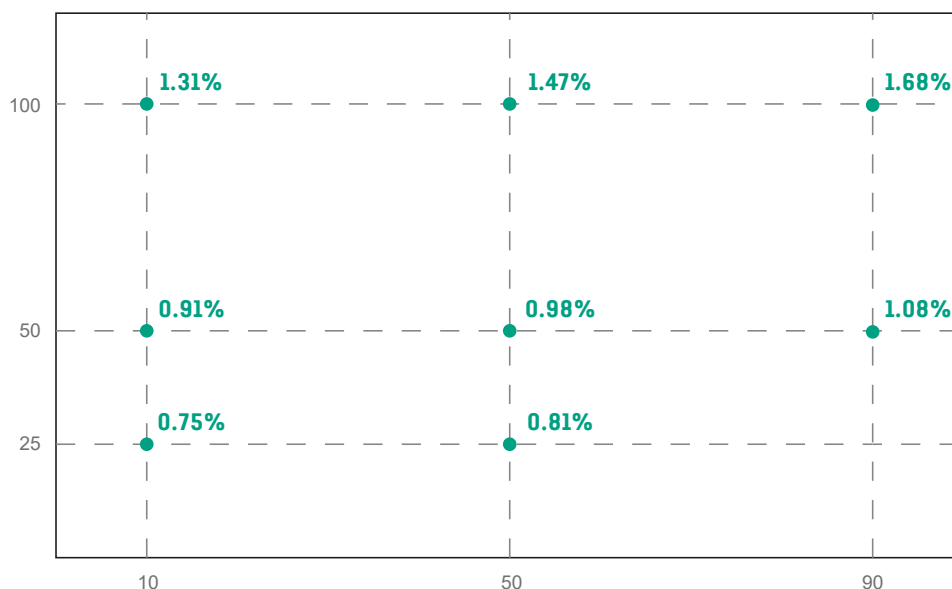
**S9026IT**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>250</b>   |
| Nominal current                 | (A)   | <b>460</b>   |
| Nominal apparent power          | (kVA) | <b>299.6</b> |
| Standby loss                    | (W)   | <b>458</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.68%         | 5,035.22          | 97.9%        |
| 90          | 50        | 1.08%         | 3,234.78          | 97.6%        |
| 50          | 100       | 1.47%         | 4,395.93          | 96.7%        |
| 50          | 50        | 0.98%         | 2,950.18          | 96.1%        |
| 50          | 25        | 0.81%         | 2,413.76          | 95.5%        |
| 10          | 100       | 1.31%         | 3,921.30          | 86.9%        |
| 10          | 50        | 0.91%         | 2,717.22          | 84.3%        |
| 10          | 25        | 0.75%         | 2,260.35          | 81.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-73150-KXX-4-IT**

**IE2**

**EFFICIENCY:**

**98.0%**

Code

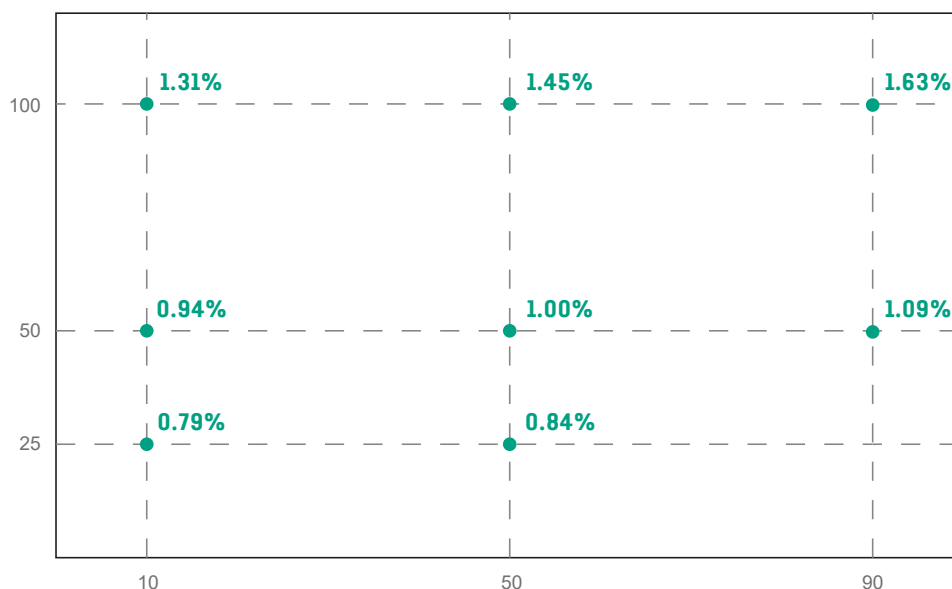
**S9027IT**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>315</b>   |
| Nominal current                 | (A)   | <b>590</b>   |
| Nominal apparent power          | (kVA) | <b>384.2</b> |
| Standby loss                    | (W)   | <b>572</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.63%         | 6,281.26          | 98.0%        |
| 90          | 50        | 1.09%         | 4,173.99          | 97.6%        |
| 50          | 100       | 1.45%         | 5,559.37          | 96.8%        |
| 50          | 50        | 1.00%         | 3,854.14          | 96.0%        |
| 50          | 25        | 0.84%         | 3,220.95          | 95.3%        |
| 10          | 100       | 1.31%         | 5,027.54          | 86.9%        |
| 10          | 50        | 0.94%         | 3,593.88          | 83.9%        |
| 10          | 25        | 0.79%         | 3,049.81          | 81.0%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-73551-KXX-4-IT**

**IE2**

**EFFICIENCY:**

**98.0%**

Code

**S9032IT**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>355</b>   |
| Nominal current                 | (A)   | <b>650</b>   |
| Nominal apparent power          | (kVA) | <b>423.3</b> |
| Standby loss                    | (W)   | <b>617</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.60%         | 6,780.70          | 98.0%        |
| 90          | 50        | 1.05%         | 4,451.60          | 97.7%        |
| 50          | 100       | 1.41%         | 5,951.67          | 96.9%        |
| 50          | 50        | 0.97%         | 4,088.64          | 96.2%        |
| 50          | 25        | 0.80%         | 3,396.38          | 95.5%        |
| 10          | 100       | 1.26%         | 5,353.10          | 87.3%        |
| 10          | 50        | 0.90%         | 3,797.95          | 84.4%        |
| 10          | 25        | 0.76%         | 3,205.91          | 81.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ADV200-4, STANDARD + Safety Card Category SIL3

## Index Codes

|         |     |
|---------|-----|
| S9001SI | 86  |
| S9002SI | 87  |
| S9003SI | 88  |
| S9004SI | 89  |
| S9005SI | 90  |
| S9006SI | 91  |
| S9007SI | 92  |
| S9008SI | 93  |
| S9009SI | 94  |
| S9010SI | 95  |
| R9010SI | 95  |
| S9011SI | 96  |
| S9013SI | 97  |
| S9015SI | 98  |
| S9017SI | 99  |
| S9019SI | 100 |
| S9012SI | 101 |
| S9014SI | 102 |
| S9016SI | 103 |
| S9018SI | 104 |
| S9020SI | 105 |
| S9021SI | 106 |
| S9022SI | 107 |
| S9023SI | 108 |
| S9024SI | 109 |
| S9025SI | 110 |
| S9026SI | 111 |
| S9027SI | 112 |
| S9032SI | 113 |

## Index Type

|                    |     |
|--------------------|-----|
| ADV-1007-KBX-4+SI  | 86  |
| ADV-1015-KBX-4+SI  | 87  |
| ADV-1022-KBX-4+SI  | 88  |
| ADV-1030-KBX-4+SI  | 89  |
| ADV-1040-KBX-4+SI  | 90  |
| ADV-2055-KBX-4+SI  | 91  |
| ADV-2075-KBX-4+SI  | 92  |
| ADV-2110-KBX-4+SI  | 93  |
| ADV-3150-KBX-4+SI  | 94  |
| ADV-3185-KBX-4+SI  | 95  |
| ADV-3220-KBX-4+SI  | 96  |
| ADV-4300-KBX-4+SI  | 97  |
| ADV-4370-KBX-4+SI  | 98  |
| ADV-4450-KBX-4+SI  | 99  |
| ADV-5550-KBX-4+SI  | 100 |
| ADV-4300-KXX-4+SI  | 101 |
| ADV-4370-KXX-4+SI  | 102 |
| ADV-4450-KXX-4+SI  | 103 |
| ADV-5550-KXX-4+SI  | 104 |
| ADV-5750-KXX-4+SI  | 105 |
| ADV-5900-KXX-4+SI  | 106 |
| ADV-61100-KXX-4+SI | 107 |
| ADV-61320-KXX-4+SI | 108 |
| ADV-71600-KXX-4+SI | 109 |
| ADV-72000-KXX-4+SI | 110 |
| ADV-72500-KXX-4+SI | 111 |
| ADV-73150-KXX-4+SI | 112 |
| ADV-73551-KXX-4+SI | 113 |

# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-1007-KBX-4+SI**

**IE2**

**EFFICIENCY:**

**94.1%**

Code

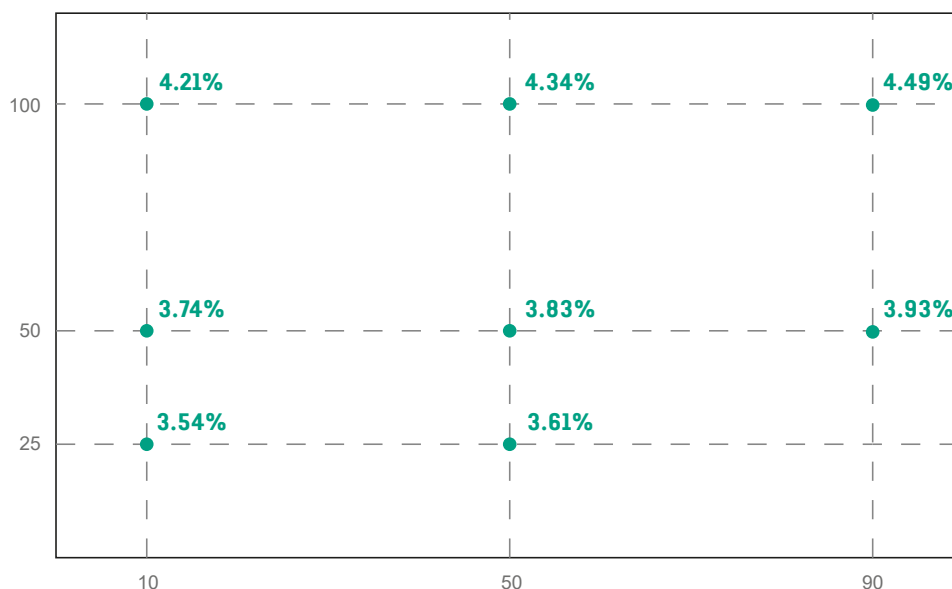
**S9001SI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>0.75</b> |
| Nominal current                 | (A)   | <b>2.5</b>  |
| Nominal apparent power          | (kVA) | <b>1.6</b>  |
| Standby loss                    | (W)   | <b>6.65</b> |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 4.49%         | 73.13             | 94.1%        |
| 90          | 50        | 3.93%         | 64.00             | 92.8%        |
| 50          | 100       | 4.34%         | 70.71             | 90.1%        |
| 50          | 50        | 3.83%         | 62.41             | 88.0%        |
| 50          | 25        | 3.61%         | 58.81             | 86.4%        |
| 10          | 100       | 4.21%         | 68.49             | 65.3%        |
| 10          | 50        | 3.74%         | 60.92             | 60.0%        |
| 10          | 25        | 3.54%         | 57.62             | 56.4%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-1015-KBX-4+SI**

**IE2**

**EFFICIENCY:**

**95.7%**

Code

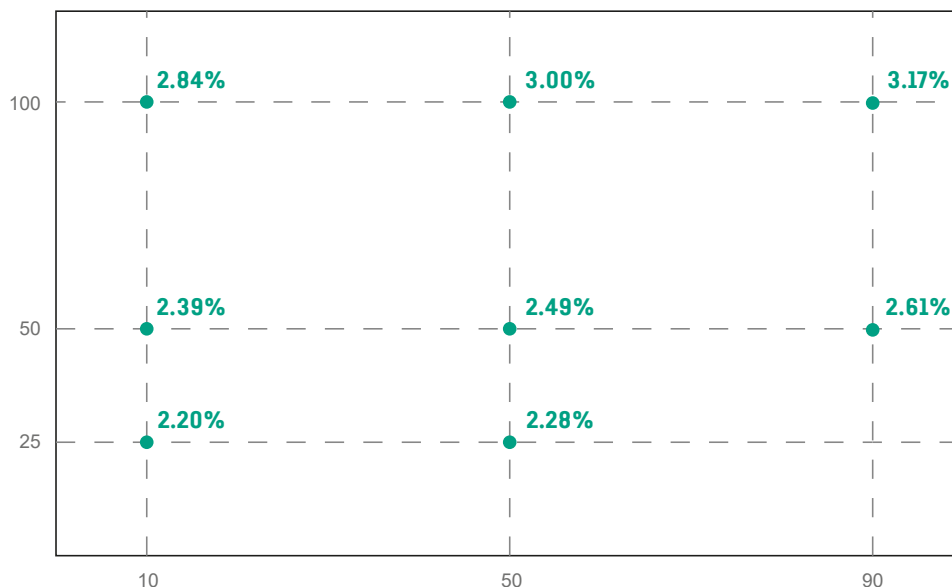
**S9002SI**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>1.5</b> |
| Nominal current                 | (A)   | <b>4,3</b> |
| Nominal apparent power          | (kVA) | <b>2.8</b> |
| Standby loss                    | (W)   | <b>8</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 3.17%         | 88.82             | 95.7%        |
| 90          | 50        | 2.61%         | 72.95             | 95.1%        |
| 50          | 100       | 3.00%         | 83.95             | 92.9%        |
| 50          | 50        | 2.49%         | 69.86             | 91.8%        |
| 50          | 25        | 2.28%         | 63.90             | 90.9%        |
| 10          | 100       | 2.84%         | 79.65             | 73.5%        |
| 10          | 50        | 2.39%         | 67.05             | 70.1%        |
| 10          | 25        | 2.20%         | 61.70             | 67.5%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-1022-KBX-4+SI**

**IE2**

**EFFICIENCY:**

**96.0%**

Code

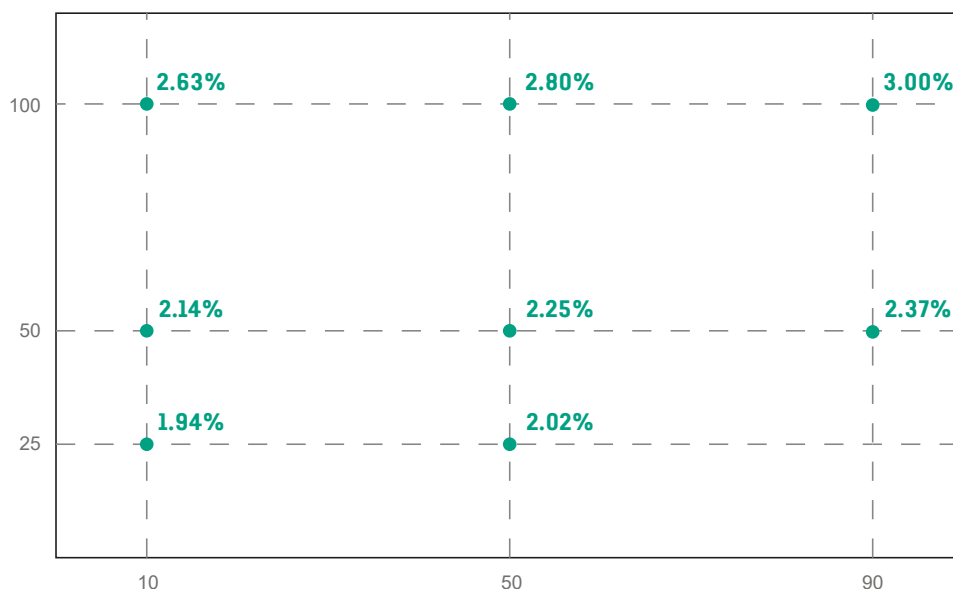
**S9003SI**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>2.2</b> |
| Nominal current                 | (A)   | <b>5.8</b> |
| Nominal apparent power          | (kVA) | <b>3.8</b> |
| Standby loss                    | (W)   | <b>10</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 3.00%         | 113.27            | 96.0%        |
| 90          | 50        | 2.37%         | 89.62             | 95.5%        |
| 50          | 100       | 2.80%         | 105.86            | 93.4%        |
| 50          | 50        | 2.25%         | 85.02             | 92.6%        |
| 50          | 25        | 2.02%         | 76.35             | 91.9%        |
| 10          | 100       | 2.63%         | 99.49             | 75.0%        |
| 10          | 50        | 2.14%         | 80.94             | 72.4%        |
| 10          | 25        | 1.94%         | 73.18             | 70.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-1030-KBX-4+SI**

**IE2**

**EFFICIENCY:**

**95.8%**

Code

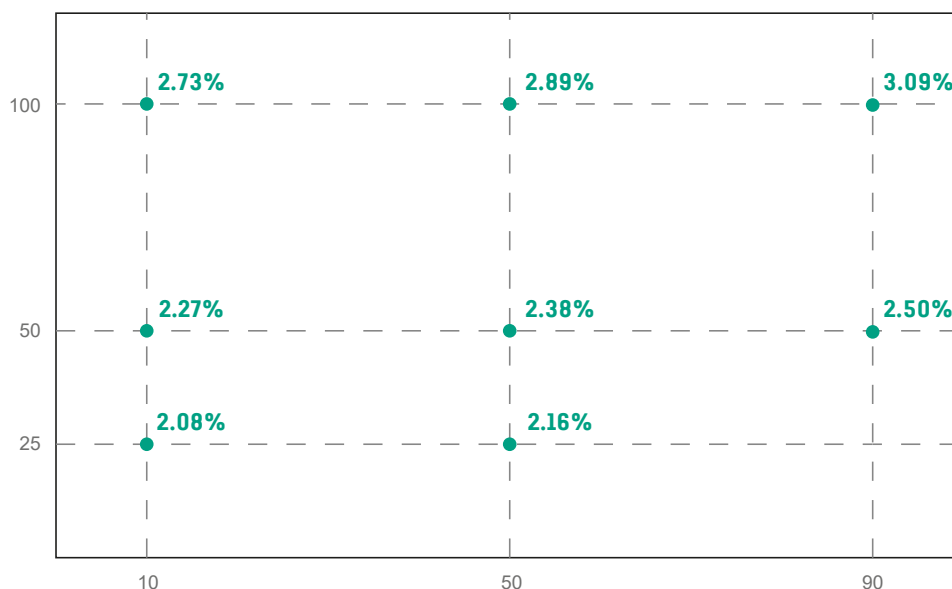
**S9004SI**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>3</b>   |
| Nominal current                 | (A)   | <b>7.6</b> |
| Nominal apparent power          | (kVA) | <b>5</b>   |
| Standby loss                    | (W)   | <b>14</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 3.09%         | 152.80            | 95.8%        |
| 90          | 50        | 2.50%         | 123.97            | 95.3%        |
| 50          | 100       | 2.89%         | 143.08            | 93.2%        |
| 50          | 50        | 2.38%         | 117.80            | 92.2%        |
| 50          | 25        | 2.16%         | 107.15            | 91.4%        |
| 10          | 100       | 2.73%         | 135.13            | 74.3%        |
| 10          | 50        | 2.27%         | 112.52            | 71.2%        |
| 10          | 25        | 2.08%         | 102.98            | 68.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-1040-KBX-4+SI**

**IE2**

**EFFICIENCY:**

**96.2%**

Code

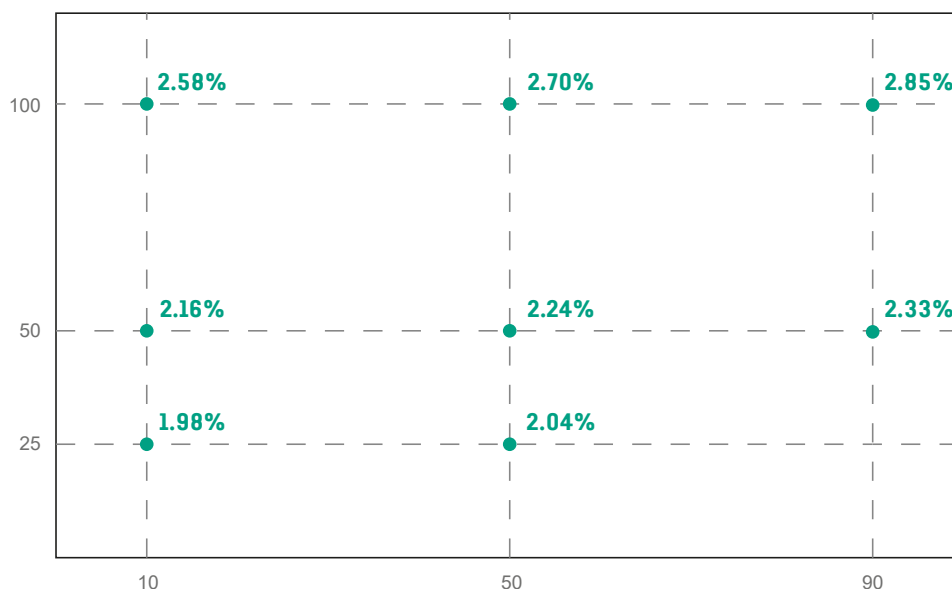
**S9005SI**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>4</b>   |
| Nominal current                 | (A)   | <b>7.6</b> |
| Nominal apparent power          | (kVA) | <b>5</b>   |
| Standby loss                    | (W)   | <b>16</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.85%         | 176.12            | 96.2%        |
| 90          | 50        | 2.33%         | 143.97            | 95.6%        |
| 50          | 100       | 2.70%         | 167.24            | 93.6%        |
| 50          | 50        | 2.24%         | 138.36            | 92.6%        |
| 50          | 25        | 2.04%         | 126.09            | 91.8%        |
| 10          | 100       | 2.58%         | 159.83            | 75.4%        |
| 10          | 50        | 2.16%         | 133.48            | 72.2%        |
| 10          | 25        | 1.98%         | 122.25            | 69.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-2055-KBX-4+SI**

**IE2**

**EFFICIENCY:**

**96.6%**

Code

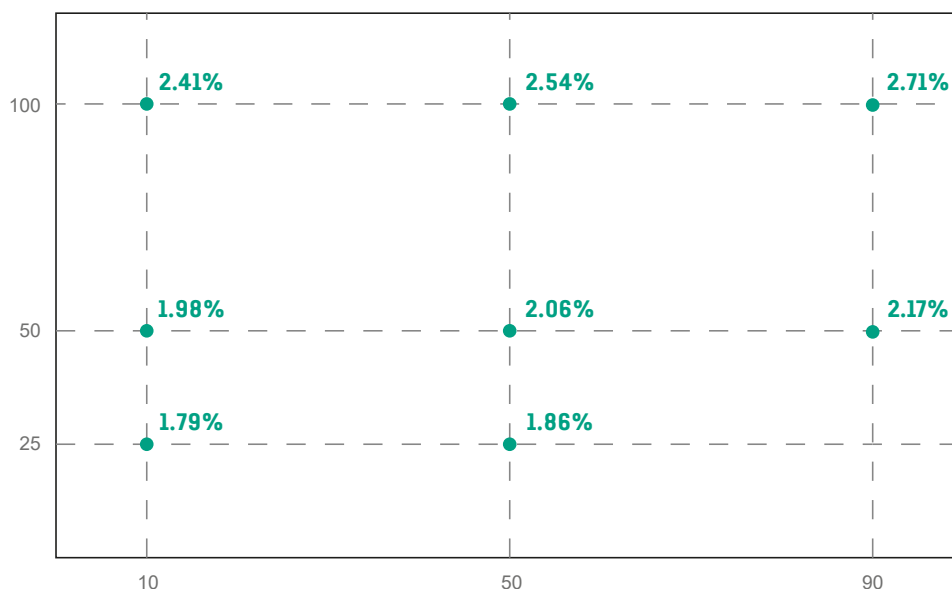
**S9006SI**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>5.5</b> |
| Nominal current                 | (A)   | <b>13</b>  |
| Nominal apparent power          | (kVA) | <b>8.5</b> |
| Standby loss                    | (W)   | <b>21</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.71%         | 229.84            | 96.6%        |
| 90          | 50        | 2.17%         | 183.71            | 96.2%        |
| 50          | 100       | 2.54%         | 215.21            | 94.4%        |
| 50          | 50        | 2.06%         | 174.66            | 93.6%        |
| 50          | 25        | 1.86%         | 157.40            | 93.0%        |
| 10          | 100       | 2.41%         | 203.83            | 77.9%        |
| 10          | 50        | 1.98%         | 167.26            | 75.3%        |
| 10          | 25        | 1.79%         | 151.60            | 73.4%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-2075-KBX-4+SI**

**IE2**

**EFFICIENCY:**

**96.7%**

Code

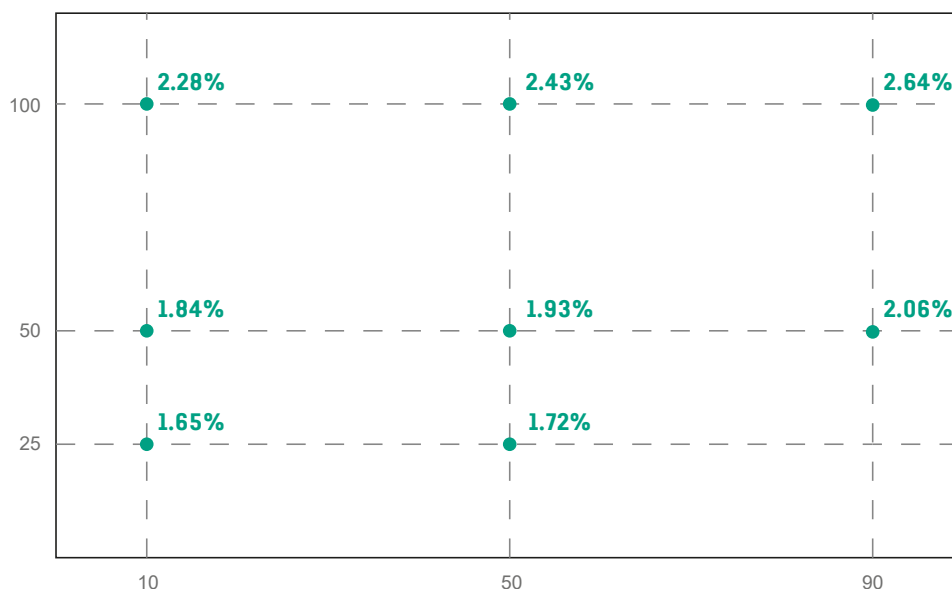
**S9007SI**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>7.5</b>   |
| Nominal current                 | (A)   | <b>16.5</b>  |
| Nominal apparent power          | (kVA) | <b>10.75</b> |
| Standby loss                    | (W)   | <b>26</b>    |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.64%         | 283.96            | 96.7%        |
| 90          | 50        | 2.06%         | 221.32            | 96.3%        |
| 50          | 100       | 2.43%         | 261.60            | 94.6%        |
| 50          | 50        | 1.93%         | 207.92            | 94.0%        |
| 50          | 25        | 1.72%         | 185.34            | 93.5%        |
| 10          | 100       | 2.28%         | 245.28            | 78.8%        |
| 10          | 50        | 1.84%         | 197.58            | 76.6%        |
| 10          | 25        | 1.65%         | 177.34            | 74.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-2110-KBX-4+SI**

**IE2**

**EFFICIENCY:**

**97.0%**

Code

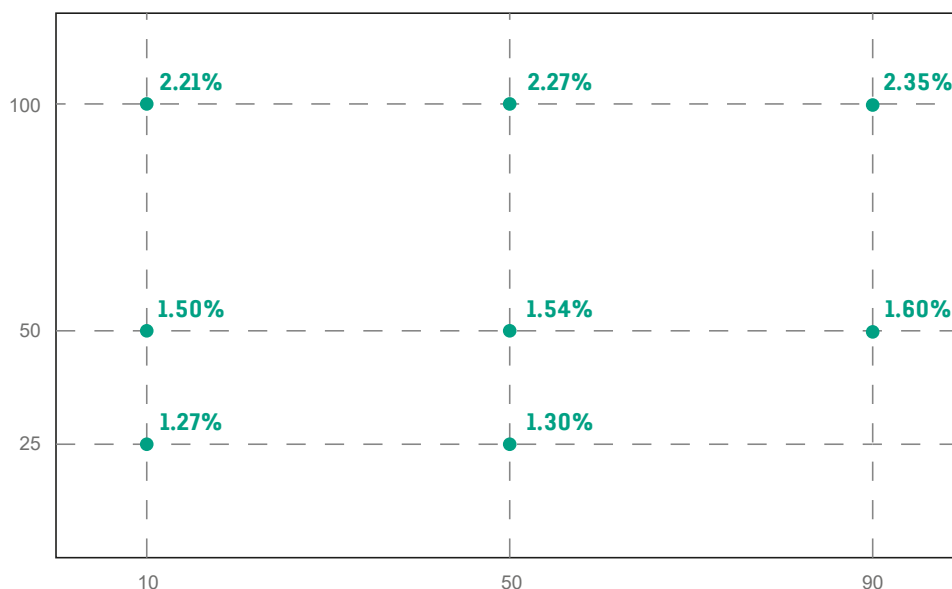
**S9008SI**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>11</b>  |
| Nominal current                 | (A)   | <b>23</b>  |
| Nominal apparent power          | (kVA) | <b>15</b>  |
| Standby loss                    | (W)   | <b>32</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.35%         | 351.60            | 97.0%        |
| 90          | 50        | 1.60%         | 239.08            | 96.6%        |
| 50          | 100       | 2.27%         | 339.54            | 94.9%        |
| 50          | 50        | 1.54%         | 231.42            | 94.3%        |
| 50          | 25        | 1.30%         | 195.08            | 93.6%        |
| 10          | 100       | 2.21%         | 331.32            | 79.4%        |
| 10          | 50        | 1.50%         | 225.13            | 77.2%        |
| 10          | 25        | 1.27%         | 189.98            | 75.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-3150-KBX-4+SI**

**IE2**

**EFFICIENCY:**

**97.2%**

Code

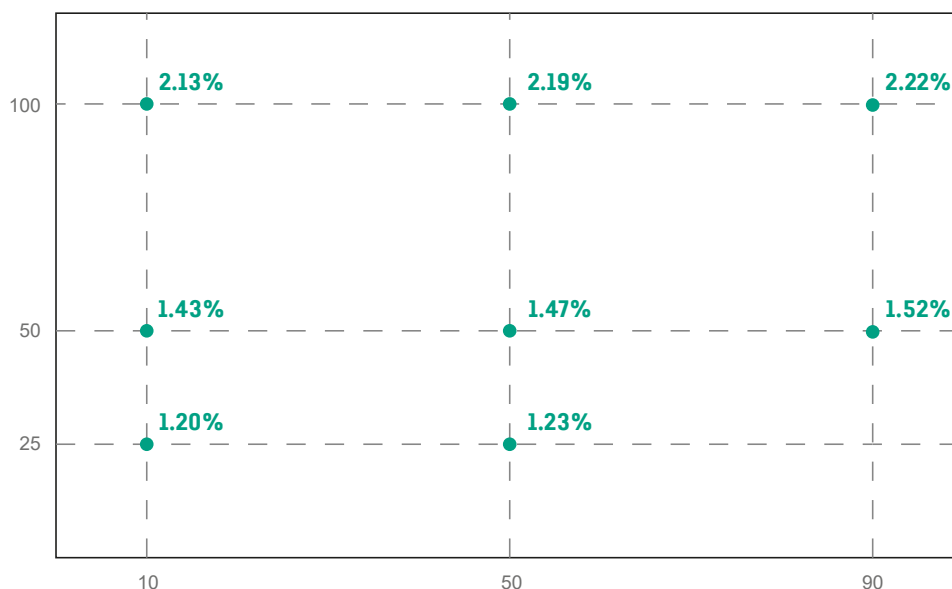
**S9009SI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>15</b>   |
| Nominal current                 | (A)   | <b>31</b>   |
| Nominal apparent power          | (kVA) | <b>20.2</b> |
| Standby loss                    | (W)   | <b>41</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.22%         | 449.00            | 97.2%        |
| 90          | 50        | 1.52%         | 307.79            | 96.8%        |
| 50          | 100       | 2.19%         | 441.42            | 95.1%        |
| 50          | 50        | 1.47%         | 297.10            | 94.5%        |
| 50          | 25        | 1.23%         | 248.44            | 94.0%        |
| 10          | 100       | 2.13%         | 430.38            | 79.9%        |
| 10          | 50        | 1.43%         | 288.64            | 78.1%        |
| 10          | 25        | 1.20%         | 241.58            | 76.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-3185-KBX-4+SI**

**IE2**

**EFFICIENCY:**

**97.2%**

Code

**S9010SI**

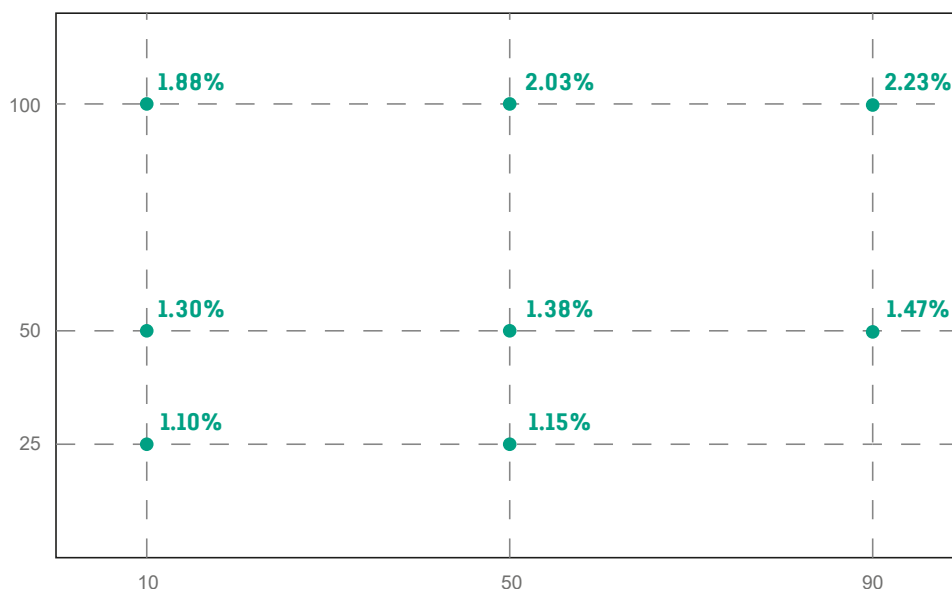
**R9010SI**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>18.5</b>  |
| Nominal current                 | (A)   | <b>38</b>    |
| Nominal apparent power          | (kVA) | <b>24.75</b> |
| Standby loss                    | (W)   | <b>50</b>    |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.23%         | 552.10            | 97.2%        |
| 90          | 50        | 1.47%         | 364.08            | 96.9%        |
| 50          | 100       | 2.03%         | 502.12            | 95.4%        |
| 50          | 50        | 1.38%         | 340.61            | 94.9%        |
| 50          | 25        | 1.15%         | 284.60            | 94.3%        |
| 10          | 100       | 1.88%         | 465.36            | 81.9%        |
| 10          | 50        | 1.30%         | 321.90            | 79.7%        |
| 10          | 25        | 1.10%         | 271.51            | 77.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-3220-KBX-4+SI**

**IE2**

**EFFICIENCY:**

**96.8%**

Code

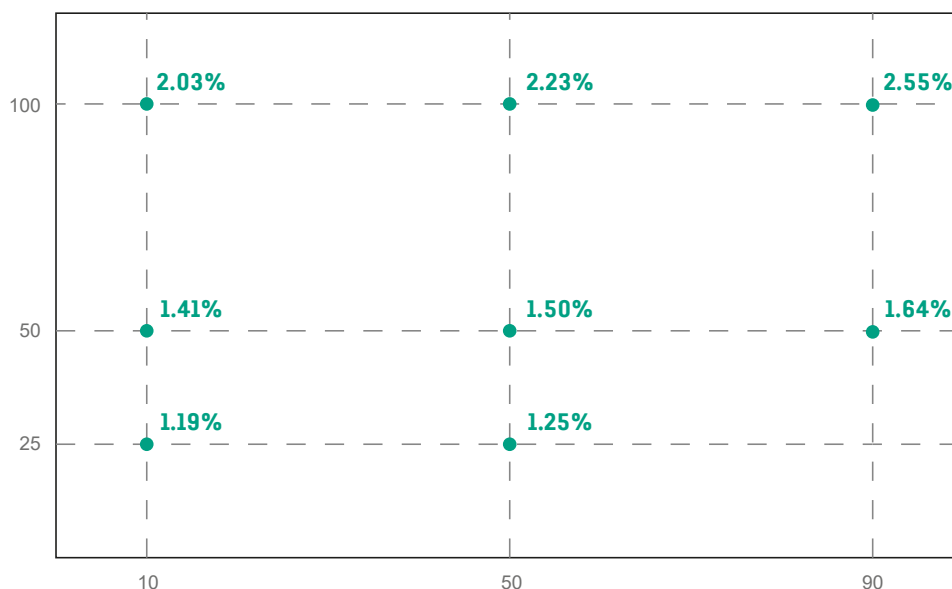
**S9011SI**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>22</b>  |
| Nominal current                 | (A)   | <b>46</b>  |
| Nominal apparent power          | (kVA) | <b>30</b>  |
| Standby loss                    | (W)   | <b>69</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.55%         | 762.48            | 96.8%        |
| 90          | 50        | 1.64%         | 491.42            | 96.5%        |
| 50          | 100       | 2.23%         | 667.55            | 95.0%        |
| 50          | 50        | 1.50%         | 450.11            | 94.4%        |
| 50          | 25        | 1.25%         | 374.71            | 93.9%        |
| 10          | 100       | 2.03%         | 607.10            | 80.7%        |
| 10          | 50        | 1.41%         | 421.21            | 78.4%        |
| 10          | 25        | 1.19%         | 355.10            | 76.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4300-KBX-4+SI**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

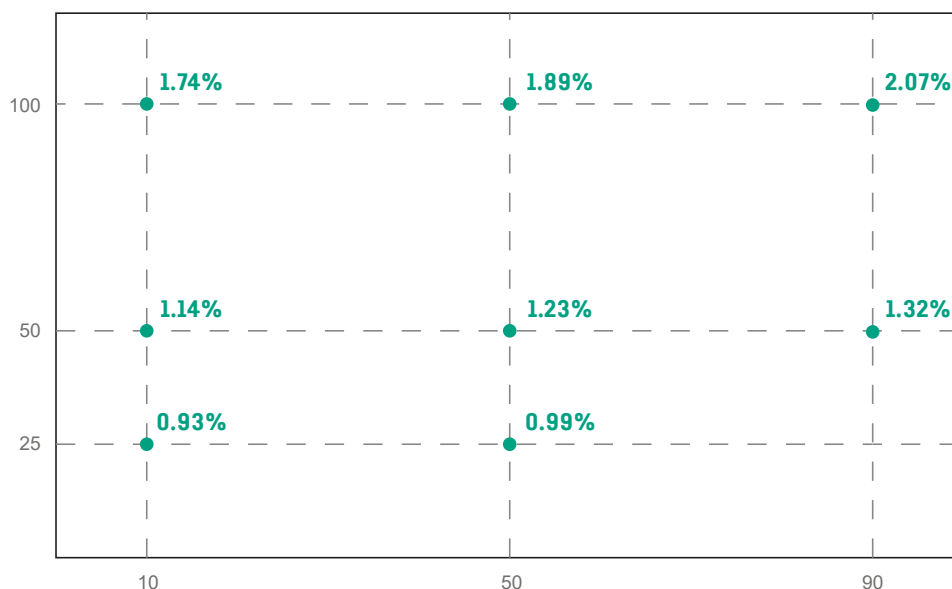
**S9013SI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>30</b>   |
| Nominal current                 | (A)   | <b>62</b>   |
| Nominal apparent power          | (kVA) | <b>40.4</b> |
| Standby loss                    | (W)   | <b>76</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 836.96            | 97.4%        |
| 90          | 50        | 1.32%         | 531.70            | 97.1%        |
| 50          | 100       | 1.89%         | 764.80            | 95.7%        |
| 50          | 50        | 1.23%         | 494.89            | 95.3%        |
| 50          | 25        | 0.99%         | 400.54            | 94.7%        |
| 10          | 100       | 1.74%         | 702.97            | 83.0%        |
| 10          | 50        | 1.14%         | 461.55            | 81.2%        |
| 10          | 25        | 0.93%         | 377.09            | 79.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4370-KBX-4+SI**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

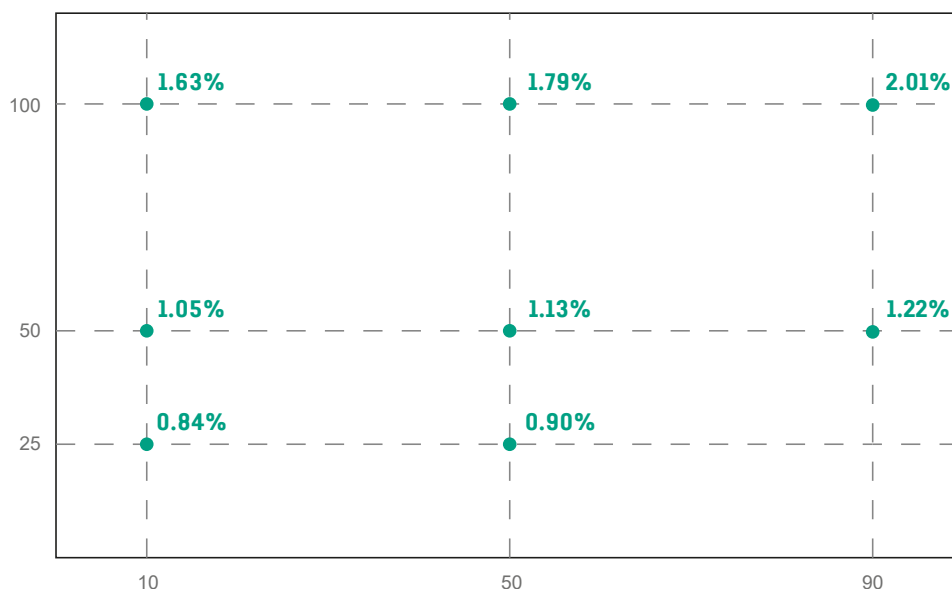
**S9015SI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>37</b>   |
| Nominal current                 | (A)   | <b>75</b>   |
| Nominal apparent power          | (kVA) | <b>48.8</b> |
| Standby loss                    | (W)   | <b>89</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.01%         | 980.88            | 97.4%        |
| 90          | 50        | 1.22%         | 597.76            | 97.3%        |
| 50          | 100       | 1.79%         | 875.11            | 96.0%        |
| 50          | 50        | 1.13%         | 549.53            | 95.6%        |
| 50          | 25        | 0.90%         | 438.75            | 95.2%        |
| 10          | 100       | 1.63%         | 798.06            | 83.9%        |
| 10          | 50        | 1.05%         | 510.96            | 82.5%        |
| 10          | 25        | 0.84%         | 412.51            | 80.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4450-KBX-4+SI**

**IE2**

**EFFICIENCY:**

**97.3%**

Code

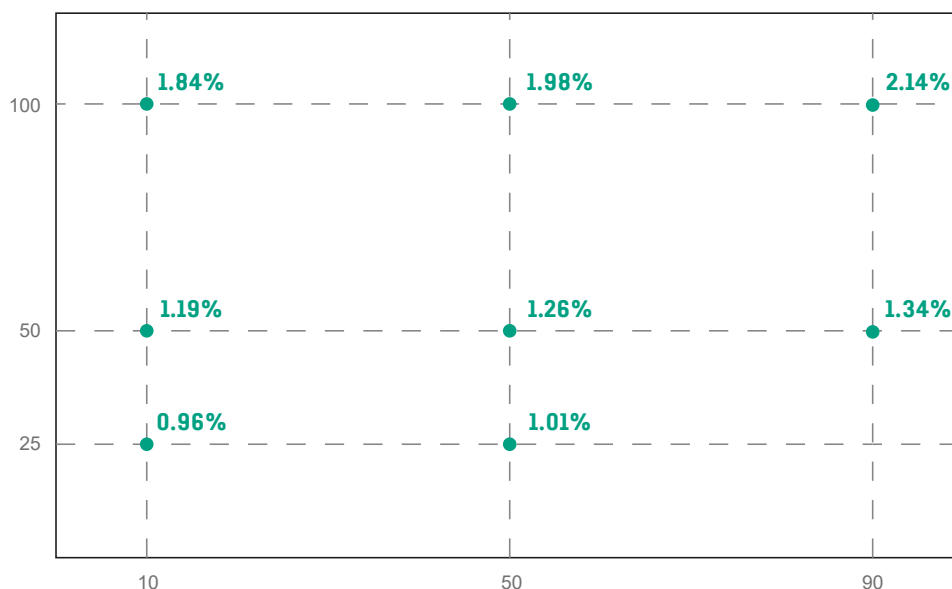
**S9017SI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>45</b>   |
| Nominal current                 | (A)   | <b>87</b>   |
| Nominal apparent power          | (kVA) | <b>56.7</b> |
| Standby loss                    | (W)   | <b>110</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.14%         | 1,214.58          | 97.3%        |
| 90          | 50        | 1.34%         | 759.44            | 97.1%        |
| 50          | 100       | 1.98%         | 1,121.61          | 95.6%        |
| 50          | 50        | 1.26%         | 713.70            | 95.2%        |
| 50          | 25        | 1.01%         | 569.50            | 94.7%        |
| 10          | 100       | 1.84%         | 1,045.20          | 82.3%        |
| 10          | 50        | 1.19%         | 673.55            | 80.8%        |
| 10          | 25        | 0.96%         | 541.57            | 79.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-5550-KBX-4+SI**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

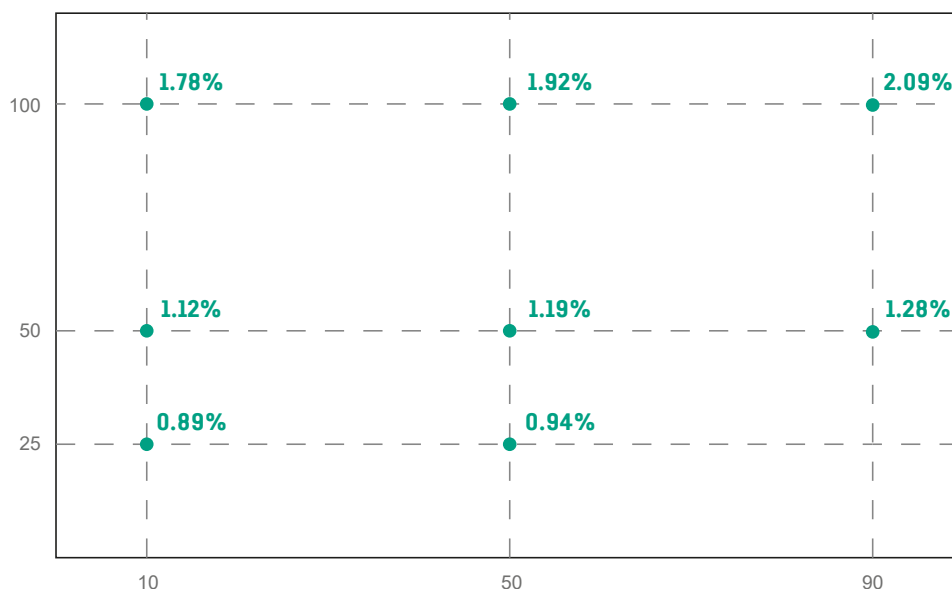
**S9019SI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>55</b>   |
| Nominal current                 | (A)   | <b>105</b>  |
| Nominal apparent power          | (kVA) | <b>68.4</b> |
| Standby loss                    | (W)   | <b>130</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.09%         | 1,431.96          | 97.4%        |
| 90          | 50        | 1.28%         | 875.52            | 97.2%        |
| 50          | 100       | 1.92%         | 1,310.93          | 95.7%        |
| 50          | 50        | 1.19%         | 816.88            | 95.4%        |
| 50          | 25        | 0.94%         | 645.19            | 95.0%        |
| 10          | 100       | 1.78%         | 1,214.14          | 82.9%        |
| 10          | 50        | 1.12%         | 766.40            | 81.7%        |
| 10          | 25        | 0.89%         | 610.20            | 80.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4300-KXX-4+SI**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

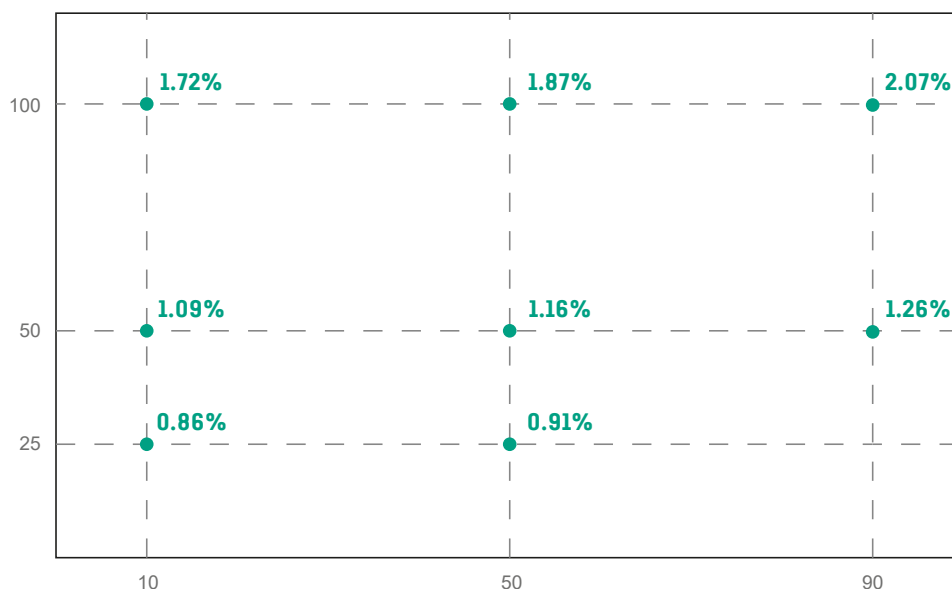
**S9012SI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>30</b>   |
| Nominal current                 | (A)   | <b>62</b>   |
| Nominal apparent power          | (kVA) | <b>40.4</b> |
| Standby loss                    | (W)   | <b>76</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 2,024.88          | 97.4%        |
| 90          | 50        | 1.26%         | 1,226.35          | 97.3%        |
| 50          | 100       | 1.87%         | 1,831.36          | 95.8%        |
| 50          | 50        | 1.16%         | 1,135.65          | 95.5%        |
| 50          | 25        | 0.91%         | 893.53            | 95.2%        |
| 10          | 100       | 1.72%         | 1,683.33          | 83.3%        |
| 10          | 50        | 1.09%         | 1,060.26          | 82.1%        |
| 10          | 25        | 0.86%         | 841.81            | 80.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4370-KXX-4+SI**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

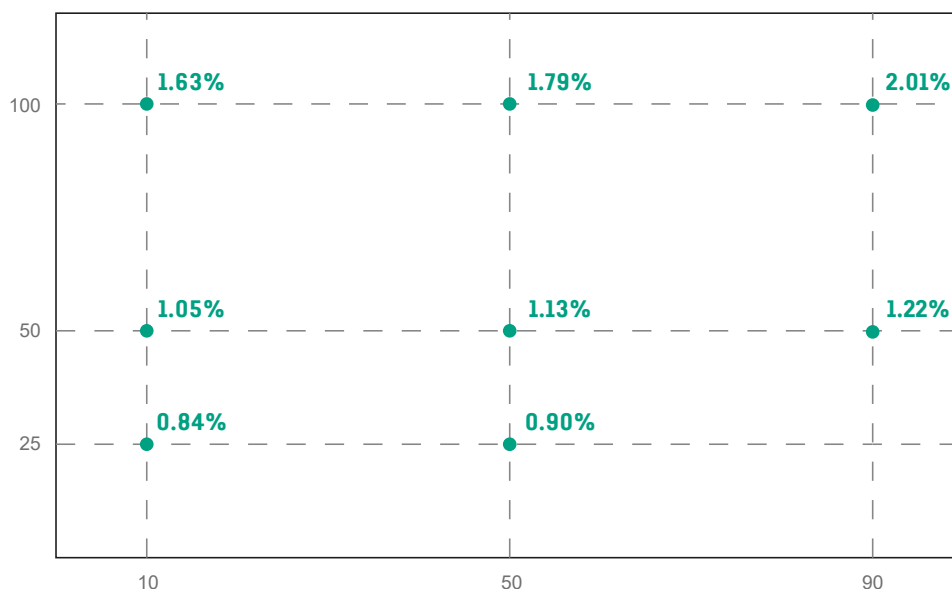
**S9014SI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>37</b>   |
| Nominal current                 | (A)   | <b>75</b>   |
| Nominal apparent power          | (kVA) | <b>48.8</b> |
| Standby loss                    | (W)   | <b>89</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.01%         | 980.88            | 97.4%        |
| 90          | 50        | 1.22%         | 597.76            | 97.3%        |
| 50          | 100       | 1.79%         | 875.11            | 96.0%        |
| 50          | 50        | 1.13%         | 549.53            | 95.6%        |
| 50          | 25        | 0.90%         | 438.75            | 95.2%        |
| 10          | 100       | 1.63%         | 798.06            | 83.9%        |
| 10          | 50        | 1.05%         | 510.96            | 82.5%        |
| 10          | 25        | 0.84%         | 412.51            | 80.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4450-KXX-4+SI**

**IE2**

**EFFICIENCY:**

**97.3%**

Code

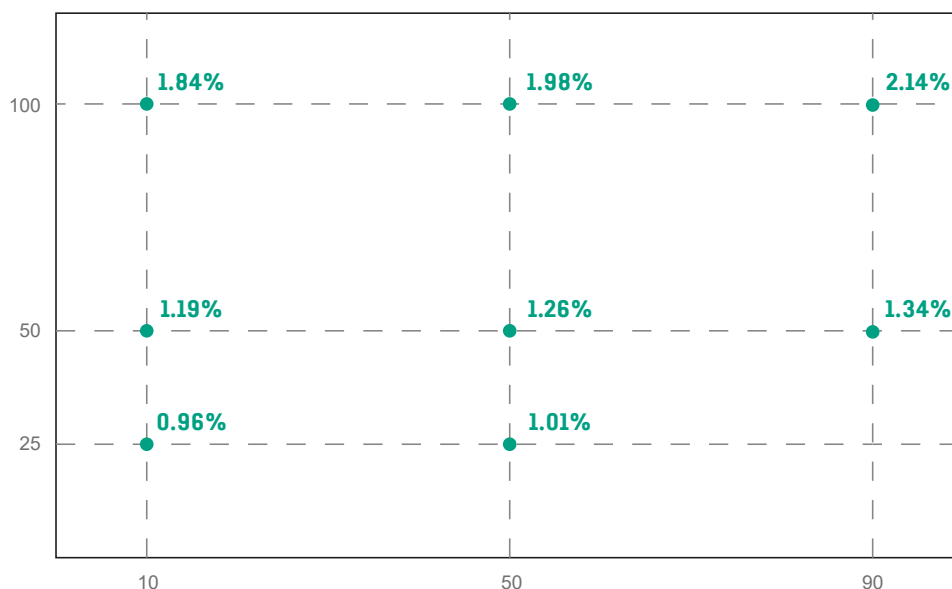
**S9016SI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>45</b>   |
| Nominal current                 | (A)   | <b>87</b>   |
| Nominal apparent power          | (kVA) | <b>56.7</b> |
| Standby loss                    | (W)   | <b>110</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.14%         | 1,214.58          | 97.3%        |
| 90          | 50        | 1.34%         | 759.44            | 97.1%        |
| 50          | 100       | 1.98%         | 1,121.61          | 95.6%        |
| 50          | 50        | 1.26%         | 713.70            | 95.2%        |
| 50          | 25        | 1.01%         | 569.50            | 94.7%        |
| 10          | 100       | 1.84%         | 1,045.20          | 82.3%        |
| 10          | 50        | 1.19%         | 673.55            | 80.8%        |
| 10          | 25        | 0.96%         | 541.57            | 79.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-5550-KXX-4+SI**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

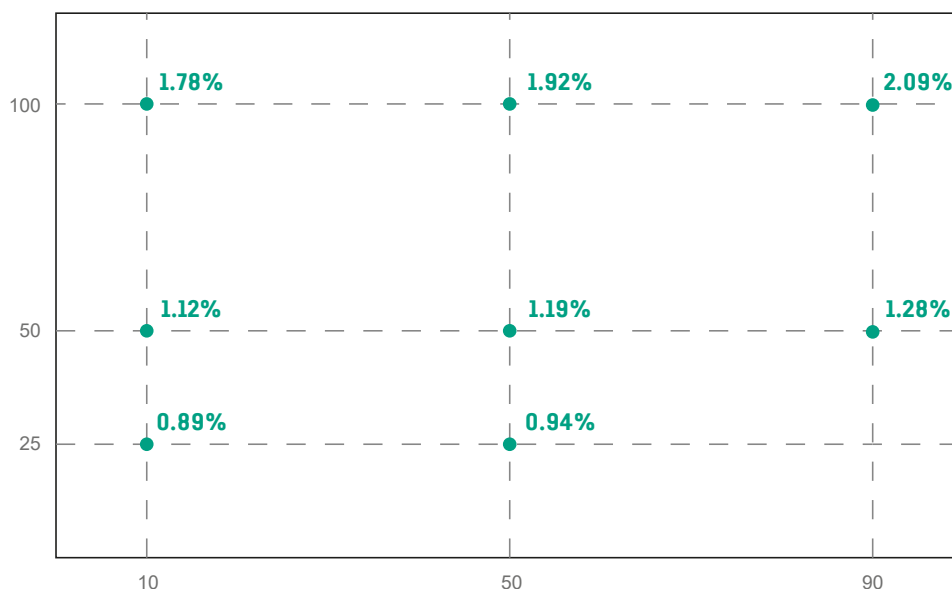
**S9018SI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>55</b>   |
| Nominal current                 | (A)   | <b>105</b>  |
| Nominal apparent power          | (kVA) | <b>68.4</b> |
| Standby loss                    | (W)   | <b>130</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.09%         | 1,431.96          | 97.4%        |
| 90          | 50        | 1.28%         | 875.52            | 97.2%        |
| 50          | 100       | 1.92%         | 1,310.93          | 95.7%        |
| 50          | 50        | 1.19%         | 816.88            | 95.4%        |
| 50          | 25        | 0.94%         | 645.19            | 95.0%        |
| 10          | 100       | 1.78%         | 1,214.14          | 82.9%        |
| 10          | 50        | 1.12%         | 766.40            | 81.7%        |
| 10          | 25        | 0.89%         | 610.20            | 80.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-5750-KXX-4+SI**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

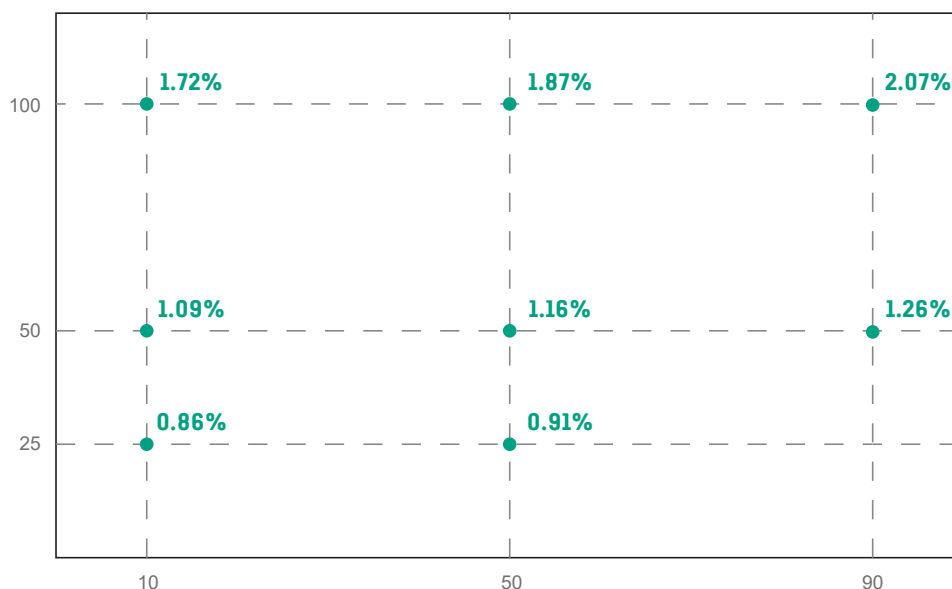
**S9020SI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>75</b>   |
| Nominal current                 | (A)   | <b>150</b>  |
| Nominal apparent power          | (kVA) | <b>97.7</b> |
| Standby loss                    | (W)   | <b>184</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 2,024.88          | 97.4%        |
| 90          | 50        | 1.26%         | 1,226.35          | 97.3%        |
| 50          | 100       | 1.87%         | 1,831.36          | 95.8%        |
| 50          | 50        | 1.16%         | 1,135.65          | 95.5%        |
| 50          | 25        | 0.91%         | 893.53            | 95.2%        |
| 10          | 100       | 1.72%         | 1,683.33          | 83.3%        |
| 10          | 50        | 1.09%         | 1,060.26          | 82.1%        |
| 10          | 25        | 0.86%         | 841.81            | 80.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-5900-KXX-4+SI**

**IE2**

**EFFICIENCY:**

**97.6%**

Code

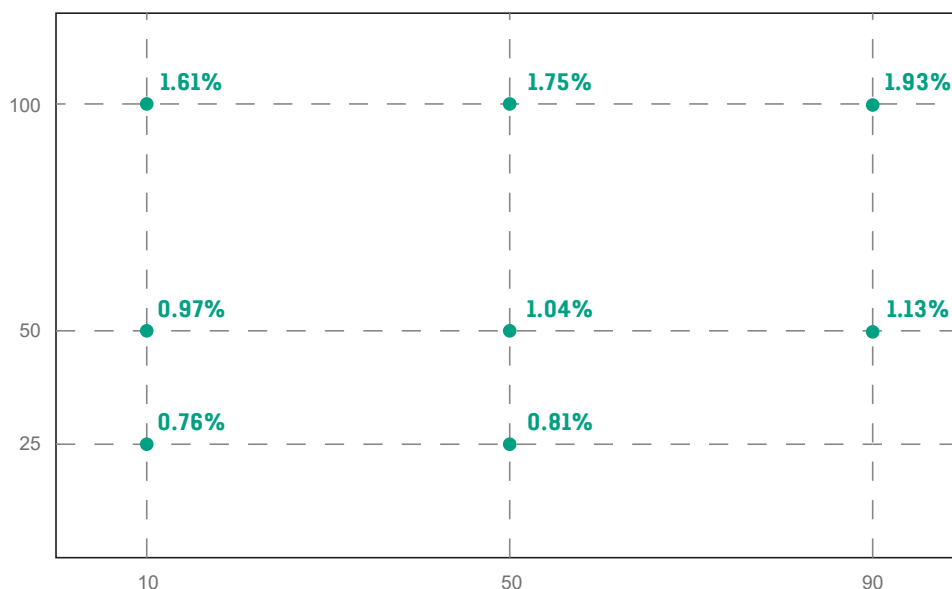
**S902ISI**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>90</b>    |
| Nominal current                 | (A)   | <b>180</b>   |
| Nominal apparent power          | (kVA) | <b>117.2</b> |
| Standby loss                    | (W)   | <b>205</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.93%         | 2,257.49          | 97.6%        |
| 90          | 50        | 1.13%         | 1,322.22          | 97.5%        |
| 50          | 100       | 1.75%         | 2,051.77          | 96.1%        |
| 50          | 50        | 1.04%         | 1,224.33          | 96.0%        |
| 50          | 25        | 0.81%         | 944.69            | 95.7%        |
| 10          | 100       | 1.61%         | 1,889.73          | 84.2%        |
| 10          | 50        | 0.97%         | 1,141.14          | 83.7%        |
| 10          | 25        | 0.76%         | 887.42            | 82.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-61100-KXX-4+SI**

**IE2**

**EFFICIENCY:**

**98.0%**

Code

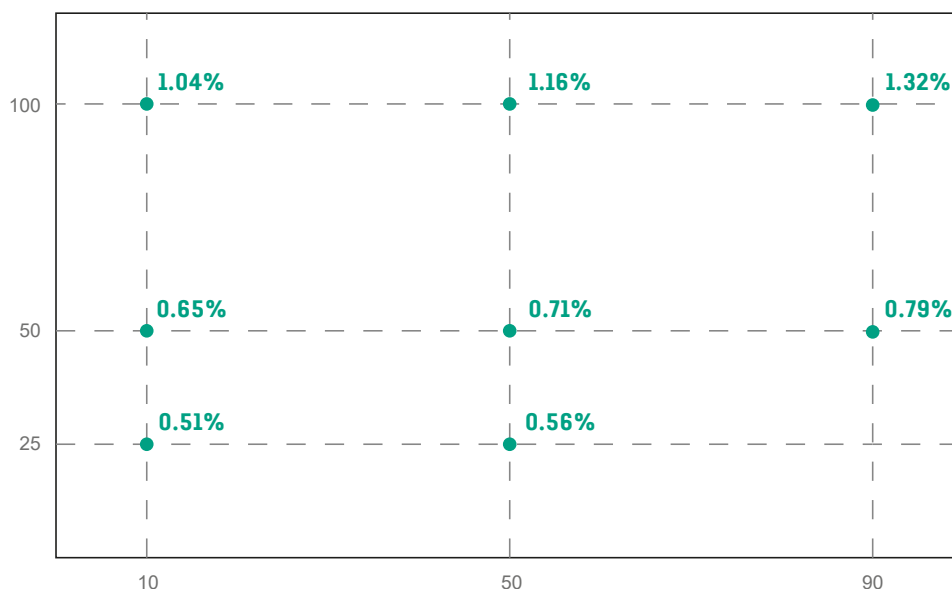
**S9022SI**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>110</b>   |
| Nominal current                 | (A)   | <b>210</b>   |
| Nominal apparent power          | (kVA) | <b>162.8</b> |
| Standby loss                    | (W)   | <b>195</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.32%         | 2,143.86          | 98.0%        |
| 90          | 50        | 0.79%         | 1,281.43          | 98.0%        |
| 50          | 100       | 1.16%         | 1,896.62          | 96.9%        |
| 50          | 50        | 0.71%         | 1,160.70          | 96.7%        |
| 50          | 25        | 0.56%         | 905.74            | 96.5%        |
| 10          | 100       | 1.04%         | 1,699.32          | 87.4%        |
| 10          | 50        | 0.65%         | 1,056.76          | 86.6%        |
| 10          | 25        | 0.51%         | 833.37            | 85.6%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-61320-KXX-4+SI**

**IE2**

**EFFICIENCY:**

**98.0%**

Code

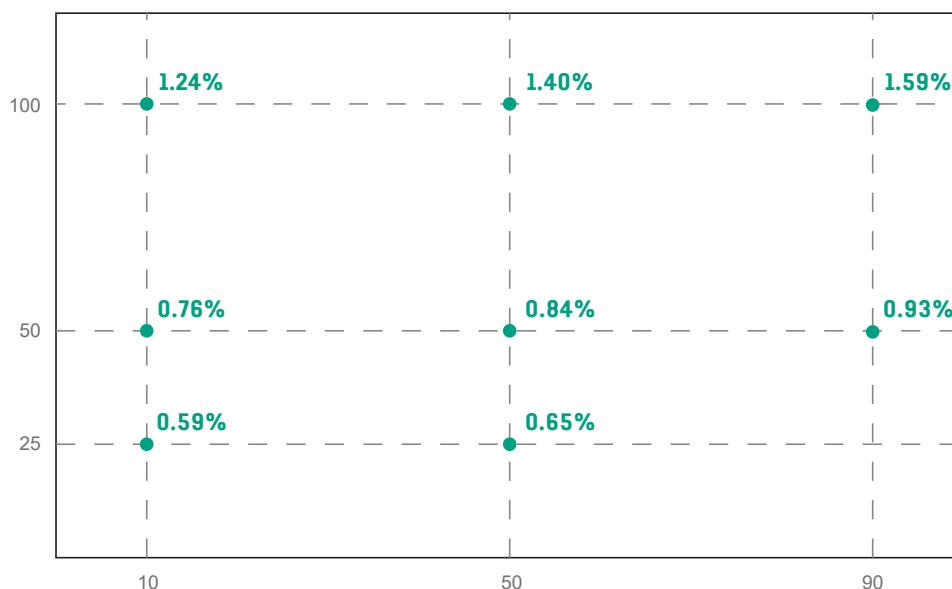
**S9023SI**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>132</b>   |
| Nominal current                 | (A)   | <b>250</b>   |
| Nominal apparent power          | (kVA) | <b>162.8</b> |
| Standby loss                    | (W)   | <b>236</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.59%         | 2,596.15          | 98.0%        |
| 90          | 50        | 0.93%         | 1,513.51          | 98.0%        |
| 50          | 100       | 1.40%         | 2,275.29          | 96.9%        |
| 50          | 50        | 0.84%         | 1,360.86          | 96.8%        |
| 50          | 25        | 0.65%         | 1,051.50          | 96.5%        |
| 10          | 100       | 1.24%         | 2,017.62          | 87.4%        |
| 10          | 50        | 0.76%         | 1,229.46          | 86.9%        |
| 10          | 25        | 0.59%         | 961.33            | 85.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-71600-KXX-4+SI**

**IE2**

**EFFICIENCY:**

**97.8%**

Code

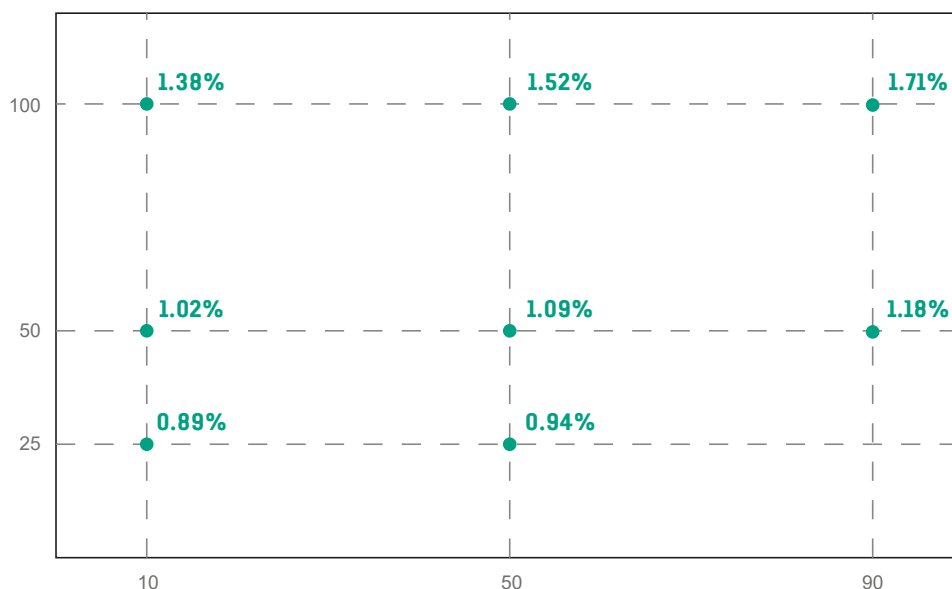
**S9024SI**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>160</b>   |
| Nominal current                 | (A)   | <b>300</b>   |
| Nominal apparent power          | (kVA) | <b>195.4</b> |
| Standby loss                    | (W)   | <b>304</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.71%         | 3,342.40          | 97.8%        |
| 90          | 50        | 1.18%         | 2,313.43          | 97.4%        |
| 50          | 100       | 1.52%         | 2,968.06          | 96.6%        |
| 50          | 50        | 1.09%         | 2,136.10          | 95.8%        |
| 50          | 25        | 0.94%         | 1,831.37          | 95.1%        |
| 10          | 100       | 1.38%         | 2,687.17          | 86.2%        |
| 10          | 50        | 1.02%         | 1,993.17          | 83.0%        |
| 10          | 25        | 0.89%         | 1,733.38          | 80.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-72000-KXX-4+SI**

**IE2**

**EFFICIENCY:**

**97.9%**

Code

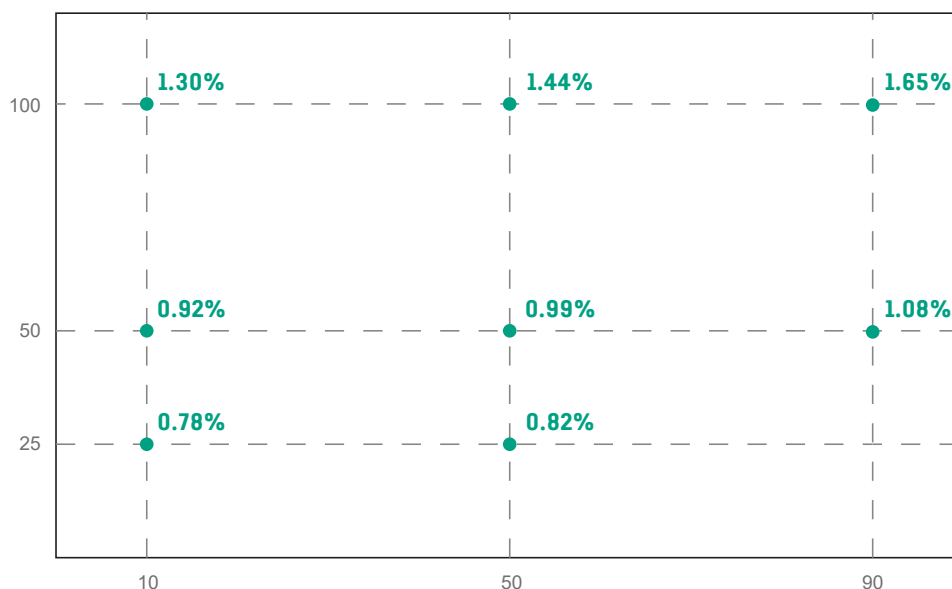
**S9025SI**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>200</b>   |
| Nominal current                 | (A)   | <b>385</b>   |
| Nominal apparent power          | (kVA) | <b>250.7</b> |
| Standby loss                    | (W)   | <b>377</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.65%         | 4,149.10          | 97.9%        |
| 90          | 50        | 1.08%         | 2,715.38          | 97.6%        |
| 50          | 100       | 1.44%         | 3,622.81          | 96.8%        |
| 50          | 50        | 0.99%         | 2,487.06          | 96.1%        |
| 50          | 25        | 0.82%         | 2,066.30          | 95.4%        |
| 10          | 100       | 1.30%         | 3,247.44          | 87.0%        |
| 10          | 50        | 0.92%         | 2,306.08          | 84.1%        |
| 10          | 25        | 0.78%         | 1,948.12          | 81.4%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-72500-KXX-4+SI**

**IE2**

**EFFICIENCY:**

**97.9%**

Code

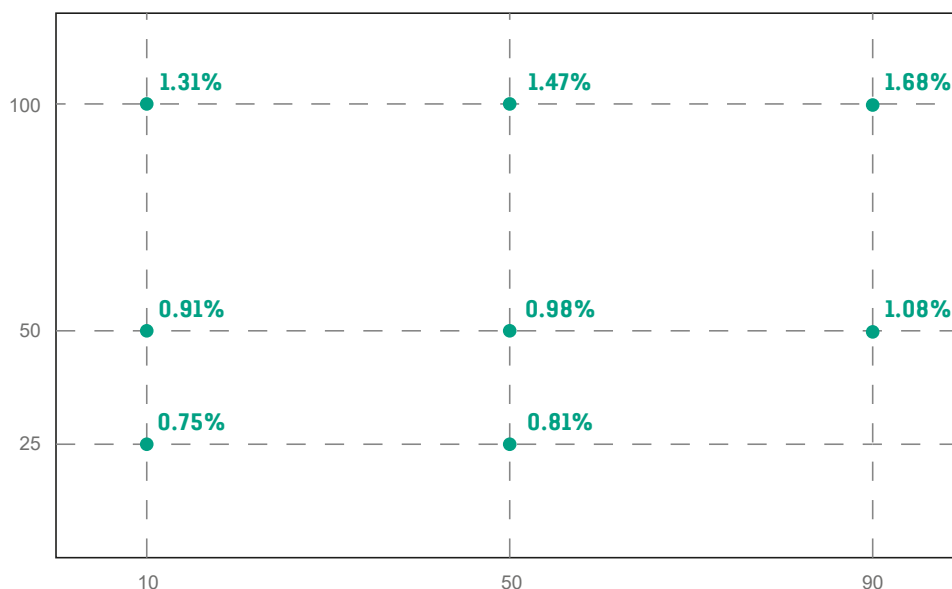
**S9026SI**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>250</b>   |
| Nominal current                 | (A)   | <b>460</b>   |
| Nominal apparent power          | (kVA) | <b>299.6</b> |
| Standby loss                    | (W)   | <b>458</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.68%         | 5,035.22          | 97.9%        |
| 90          | 50        | 1.08%         | 3,234.78          | 97.6%        |
| 50          | 100       | 1.47%         | 4,395.93          | 96.7%        |
| 50          | 50        | 0.98%         | 2,950.18          | 96.1%        |
| 50          | 25        | 0.81%         | 2,413.76          | 95.5%        |
| 10          | 100       | 1.31%         | 3,921.30          | 86.9%        |
| 10          | 50        | 0.91%         | 2,717.22          | 84.3%        |
| 10          | 25        | 0.75%         | 2,260.35          | 81.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-73150-KXX-4+SI**

**IE2**

**EFFICIENCY:**

**98.0%**

Code

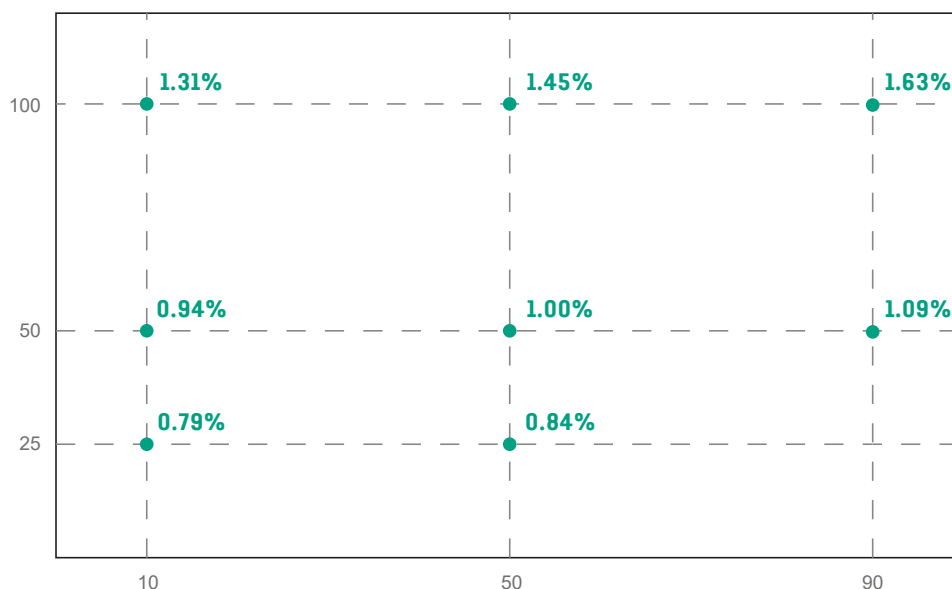
**S9027SI**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>315</b>   |
| Nominal current                 | (A)   | <b>590</b>   |
| Nominal apparent power          | (kVA) | <b>384.2</b> |
| Standby loss                    | (W)   | <b>572</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.63%         | 6,281.26          | 98.0%        |
| 90          | 50        | 1.09%         | 4,173.99          | 97.6%        |
| 50          | 100       | 1.45%         | 5,559.37          | 96.8%        |
| 50          | 50        | 1.00%         | 3,854.14          | 96.0%        |
| 50          | 25        | 0.84%         | 3,220.95          | 95.3%        |
| 10          | 100       | 1.31%         | 5,027.54          | 86.9%        |
| 10          | 50        | 0.94%         | 3,593.88          | 83.9%        |
| 10          | 25        | 0.79%         | 3,049.81          | 81.0%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-73551-KXX-4+SI**

**IE2**

**EFFICIENCY:**

**98.0%**

Code

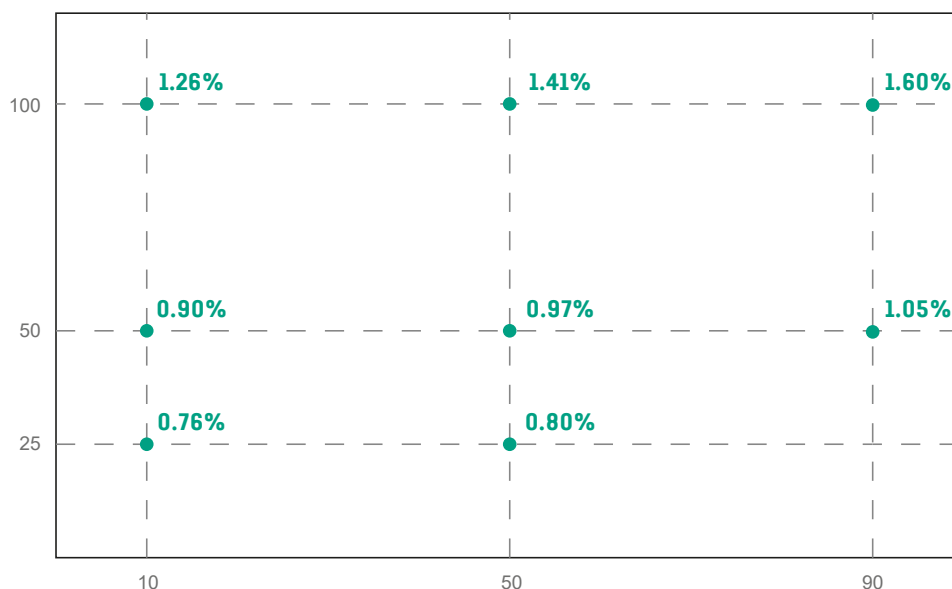
**S9032SI**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>355</b>   |
| Nominal current                 | (A)   | <b>650</b>   |
| Nominal apparent power          | (kVA) | <b>423.3</b> |
| Standby loss                    | (W)   | <b>617</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.60%         | 6,780.70          | 98.0%        |
| 90          | 50        | 1.05%         | 4,451.60          | 97.7%        |
| 50          | 100       | 1.41%         | 5,951.67          | 96.9%        |
| 50          | 50        | 0.97%         | 4,088.64          | 96.2%        |
| 50          | 25        | 0.80%         | 3,396.38          | 95.5%        |
| 10          | 100       | 1.26%         | 5,353.10          | 87.3%        |
| 10          | 50        | 0.90%         | 3,797.95          | 84.4%        |
| 10          | 25        | 0.76%         | 3,205.91          | 81.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ADV200-4/4A-F + Safety Card Category SIL3

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# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-1007-KBX-4+SI-F**

**IE2**

**EFFICIENCY:**

**94.1%**

Code

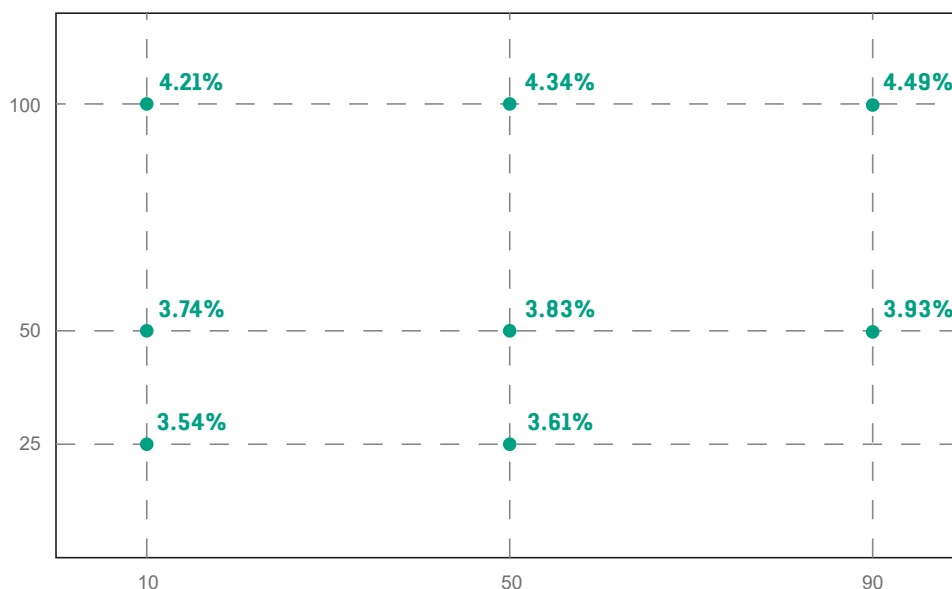
**S90V01SI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>0.75</b> |
| Nominal current                 | (A)   | <b>2.5</b>  |
| Nominal apparent power          | (kVA) | <b>1.6</b>  |
| Standby loss                    | (W)   | <b>6.65</b> |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 4.49%         | 73.13             | 94.1%        |
| 90          | 50        | 3.93%         | 64.00             | 92.8%        |
| 50          | 100       | 4.34%         | 70.71             | 90.1%        |
| 50          | 50        | 3.83%         | 62.41             | 88.0%        |
| 50          | 25        | 3.61%         | 58.81             | 86.4%        |
| 10          | 100       | 4.21%         | 68.49             | 65.3%        |
| 10          | 50        | 3.74%         | 60.92             | 60.0%        |
| 10          | 25        | 3.54%         | 57.62             | 56.4%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-1015-KBX-4+SI-F**

**IE2**

**EFFICIENCY:**

**95.7%**

Code

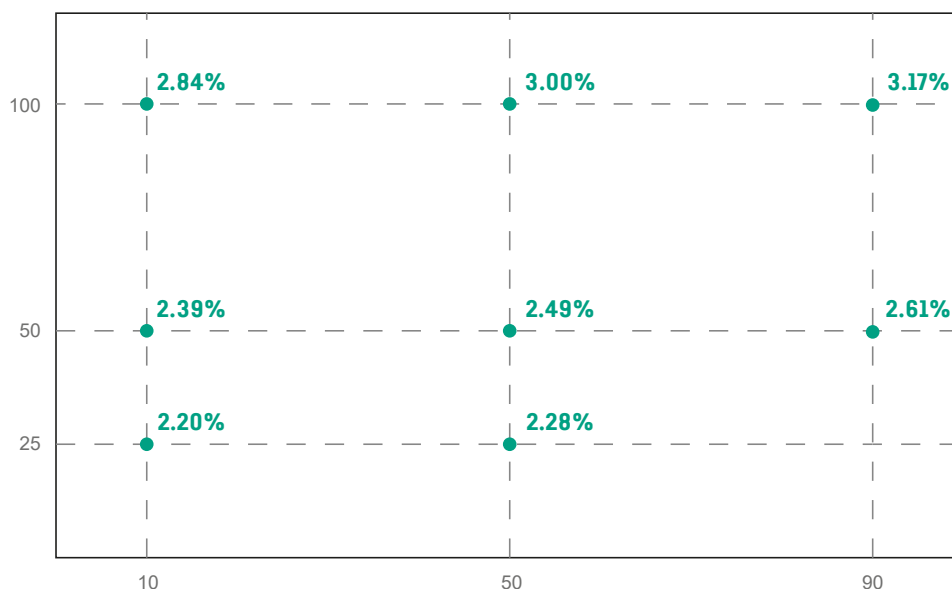
**S90V02SI**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>1.5</b> |
| Nominal current                 | (A)   | <b>4,3</b> |
| Nominal apparent power          | (kVA) | <b>2.8</b> |
| Standby loss                    | (W)   | <b>8</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 3.17%         | 88.82             | 95.7%        |
| 90          | 50        | 2.61%         | 72.95             | 95.1%        |
| 50          | 100       | 3.00%         | 83.95             | 92.9%        |
| 50          | 50        | 2.49%         | 69.86             | 91.8%        |
| 50          | 25        | 2.28%         | 63.90             | 90.9%        |
| 10          | 100       | 2.84%         | 79.65             | 73.5%        |
| 10          | 50        | 2.39%         | 67.05             | 70.1%        |
| 10          | 25        | 2.20%         | 61.70             | 67.5%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-1022-KBX-4+SI-F**

**IE2**

**EFFICIENCY:**

**96.0%**

Code

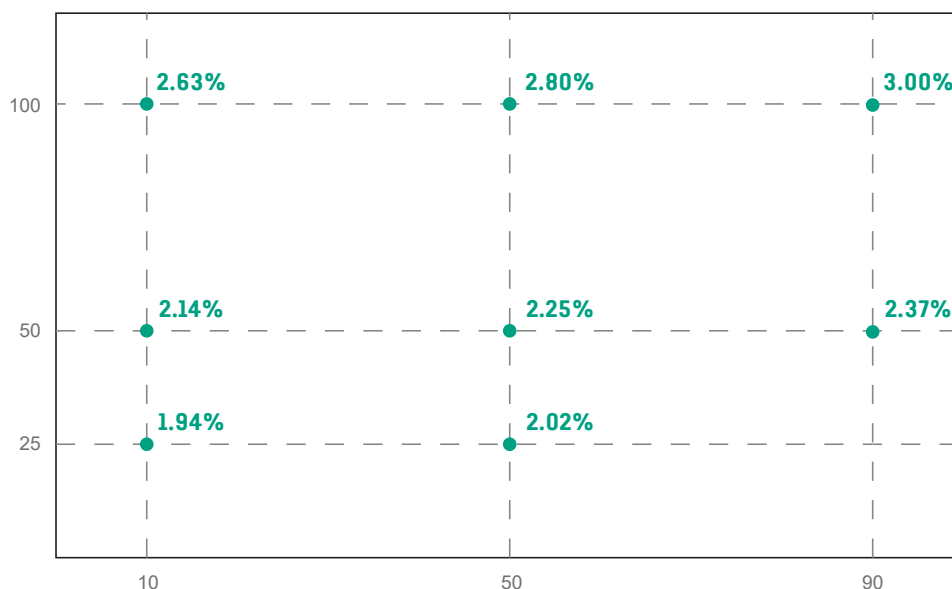
**S90V03SI**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>2.2</b> |
| Nominal current                 | (A)   | <b>5.8</b> |
| Nominal apparent power          | (kVA) | <b>3.8</b> |
| Standby loss                    | (W)   | <b>10</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 3.00%         | 113.27            | 96.0%        |
| 90          | 50        | 2.37%         | 89.62             | 95.5%        |
| 50          | 100       | 2.80%         | 105.86            | 93.4%        |
| 50          | 50        | 2.25%         | 85.02             | 92.6%        |
| 50          | 25        | 2.02%         | 76.35             | 91.9%        |
| 10          | 100       | 2.63%         | 99.49             | 75.0%        |
| 10          | 50        | 2.14%         | 80.94             | 72.4%        |
| 10          | 25        | 1.94%         | 73.18             | 70.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-1030-KBX-4+SI-F**

**IE2**

**EFFICIENCY:**

**95.8%**

Code

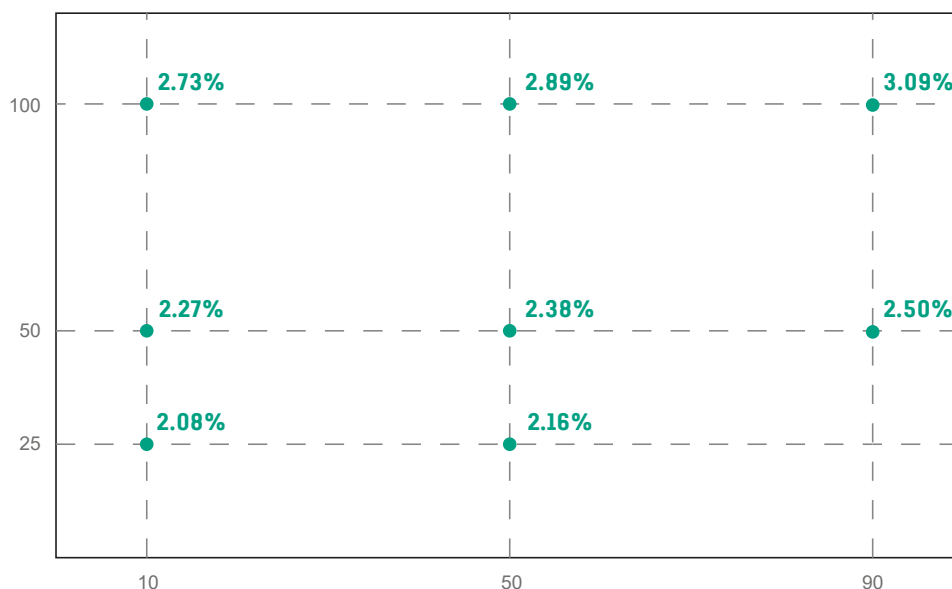
**S90V04SI**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>3</b>   |
| Nominal current                 | (A)   | <b>7.6</b> |
| Nominal apparent power          | (kVA) | <b>5</b>   |
| Standby loss                    | (W)   | <b>14</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 3.09%         | 152.80            | 95.8%        |
| 90          | 50        | 2.50%         | 123.97            | 95.3%        |
| 50          | 100       | 2.89%         | 143.08            | 93.2%        |
| 50          | 50        | 2.38%         | 117.80            | 92.2%        |
| 50          | 25        | 2.16%         | 107.15            | 91.4%        |
| 10          | 100       | 2.73%         | 135.13            | 74.3%        |
| 10          | 50        | 2.27%         | 112.52            | 71.2%        |
| 10          | 25        | 2.08%         | 102.98            | 68.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-1040-KBX-4+SI-F**

**IE2**

**EFFICIENCY:**

**96.2%**

Code

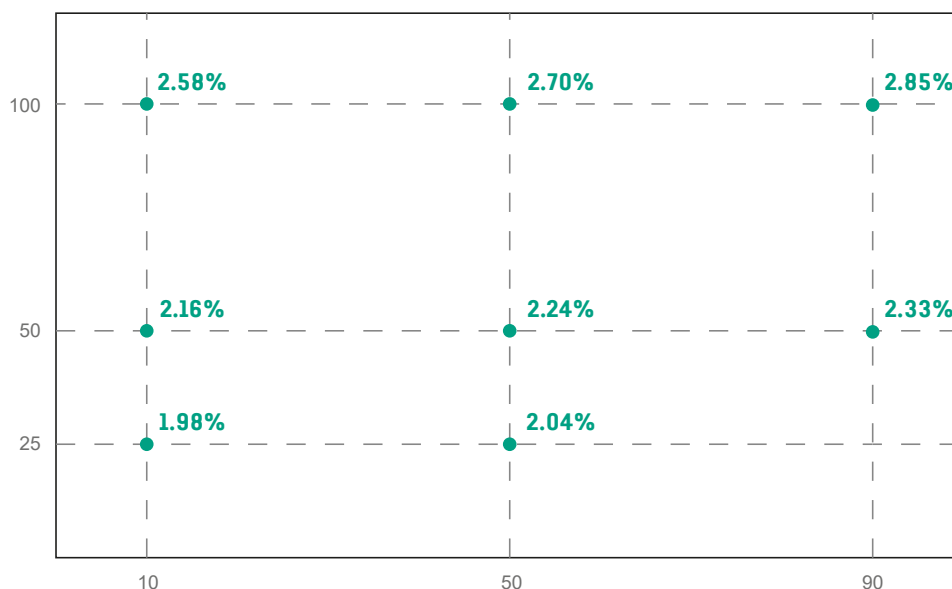
**S90V05SI**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>4</b>   |
| Nominal current                 | (A)   | <b>7.6</b> |
| Nominal apparent power          | (kVA) | <b>5</b>   |
| Standby loss                    | (W)   | <b>16</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.85%         | 176.12            | 96.2%        |
| 90          | 50        | 2.33%         | 143.97            | 95.6%        |
| 50          | 100       | 2.70%         | 167.24            | 93.6%        |
| 50          | 50        | 2.24%         | 138.36            | 92.6%        |
| 50          | 25        | 2.04%         | 126.09            | 91.8%        |
| 10          | 100       | 2.58%         | 159.83            | 75.4%        |
| 10          | 50        | 2.16%         | 133.48            | 72.2%        |
| 10          | 25        | 1.98%         | 122.25            | 69.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-2055-KBX-4+SI-F**

**IE2**

**EFFICIENCY:**

**96.6%**

Code

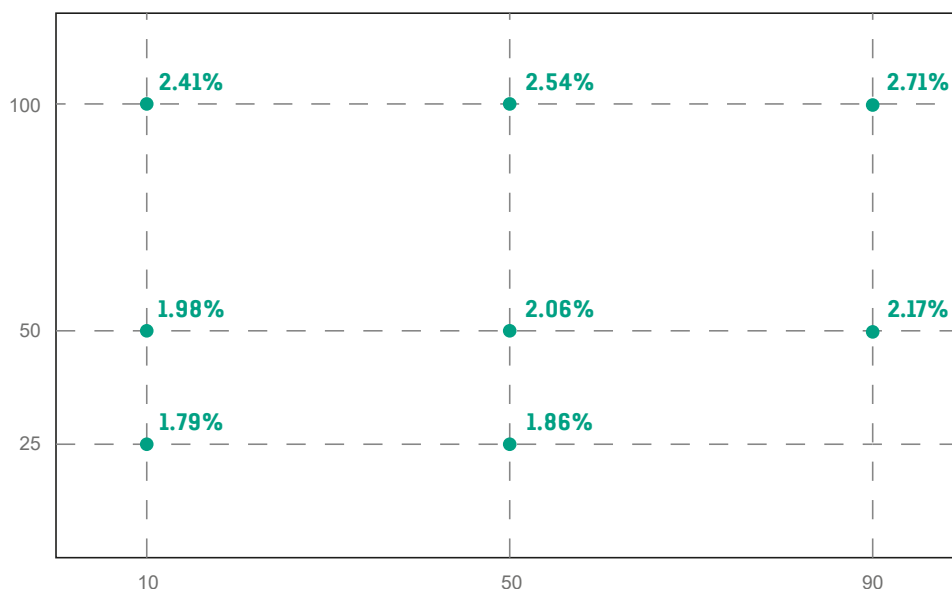
**S90V06SI**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>5.5</b> |
| Nominal current                 | (A)   | <b>13</b>  |
| Nominal apparent power          | (kVA) | <b>8.5</b> |
| Standby loss                    | (W)   | <b>21</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.71%         | 229.84            | 96.6%        |
| 90          | 50        | 2.17%         | 183.71            | 96.2%        |
| 50          | 100       | 2.54%         | 215.21            | 94.4%        |
| 50          | 50        | 2.06%         | 174.66            | 93.6%        |
| 50          | 25        | 1.86%         | 157.40            | 93.0%        |
| 10          | 100       | 2.41%         | 203.83            | 77.9%        |
| 10          | 50        | 1.98%         | 167.26            | 75.3%        |
| 10          | 25        | 1.79%         | 151.60            | 73.4%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-2075-KBX-4+SI-F**

**IE2**

**EFFICIENCY:**

**96.7%**

Code

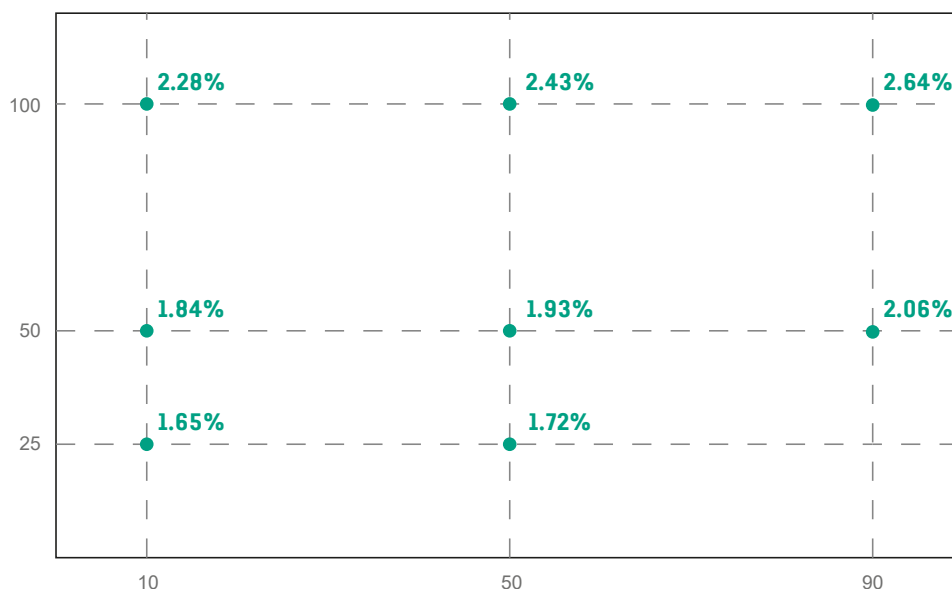
**S90V07SI**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>7.5</b>   |
| Nominal current                 | (A)   | <b>16.5</b>  |
| Nominal apparent power          | (kVA) | <b>10.75</b> |
| Standby loss                    | (W)   | <b>26</b>    |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.64%         | 283.96            | 96.7%        |
| 90          | 50        | 2.06%         | 221.32            | 96.3%        |
| 50          | 100       | 2.43%         | 261.60            | 94.6%        |
| 50          | 50        | 1.93%         | 207.92            | 94.0%        |
| 50          | 25        | 1.72%         | 185.34            | 93.5%        |
| 10          | 100       | 2.28%         | 245.28            | 78.8%        |
| 10          | 50        | 1.84%         | 197.58            | 76.6%        |
| 10          | 25        | 1.65%         | 177.34            | 74.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-2110-KBX-4+SI-F**

**IE2**

**EFFICIENCY:**

**97.0%**

Code

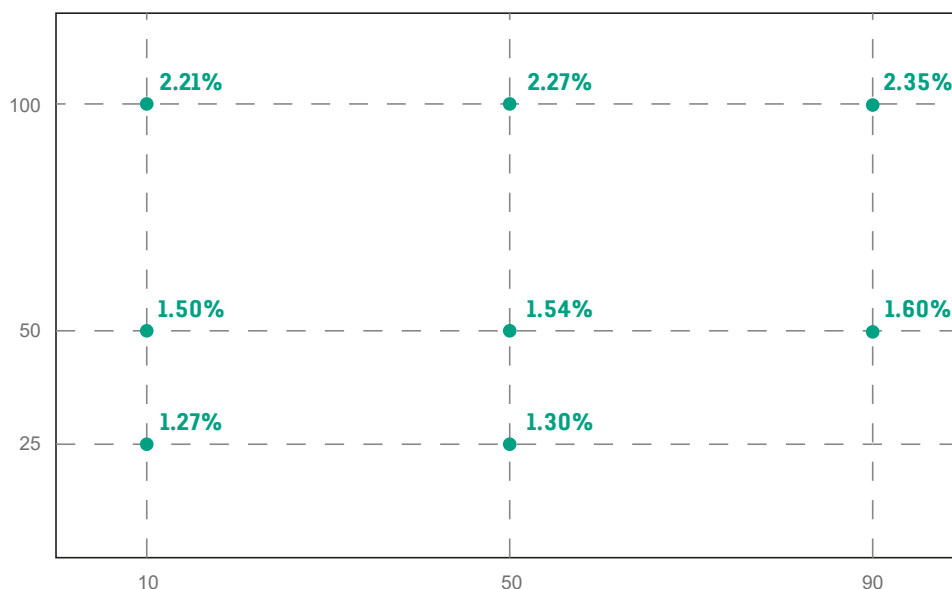
**S90V08SI**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>11</b>  |
| Nominal current                 | (A)   | <b>23</b>  |
| Nominal apparent power          | (kVA) | <b>15</b>  |
| Standby loss                    | (W)   | <b>32</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.35%         | 351.60            | 97.0%        |
| 90          | 50        | 1.60%         | 239.08            | 96.6%        |
| 50          | 100       | 2.27%         | 339.54            | 94.9%        |
| 50          | 50        | 1.54%         | 231.42            | 94.3%        |
| 50          | 25        | 1.30%         | 195.08            | 93.6%        |
| 10          | 100       | 2.21%         | 331.32            | 79.4%        |
| 10          | 50        | 1.50%         | 225.13            | 77.2%        |
| 10          | 25        | 1.27%         | 189.98            | 75.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-3150-KBX-4+SI-F**

**IE2**

**EFFICIENCY:**

**97.2%**

Code

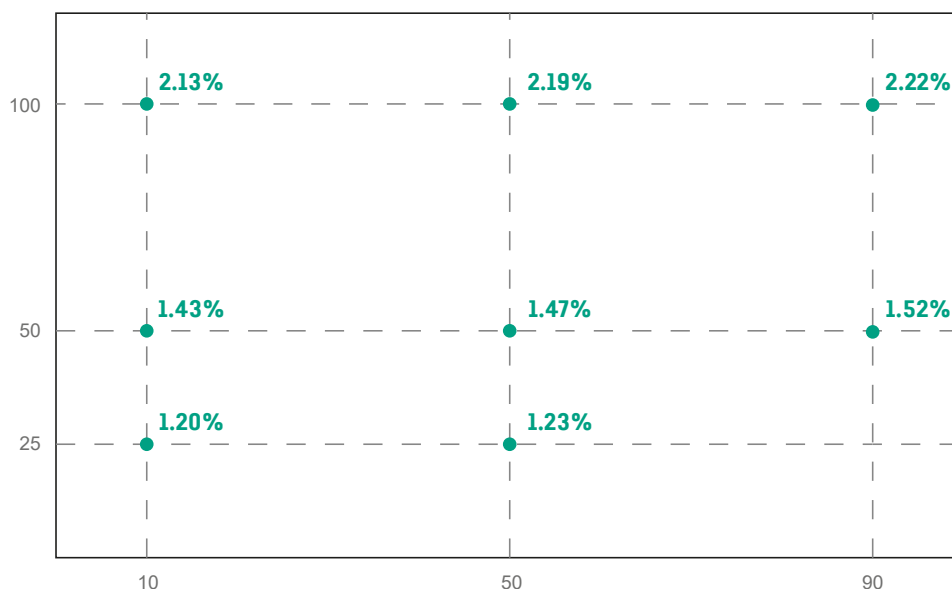
**S90V09SI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>15</b>   |
| Nominal current                 | (A)   | <b>31</b>   |
| Nominal apparent power          | (kVA) | <b>20.2</b> |
| Standby loss                    | (W)   | <b>41</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.22%         | 449.00            | 97.2%        |
| 90          | 50        | 1.52%         | 307.79            | 96.8%        |
| 50          | 100       | 2.19%         | 441.42            | 95.1%        |
| 50          | 50        | 1.47%         | 297.10            | 94.5%        |
| 50          | 25        | 1.23%         | 248.44            | 94.0%        |
| 10          | 100       | 2.13%         | 430.38            | 79.9%        |
| 10          | 50        | 1.43%         | 288.64            | 78.1%        |
| 10          | 25        | 1.20%         | 241.58            | 76.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-3185-KBX-4+SI-F**

**IE2**

**EFFICIENCY:**

**97.2%**

Code

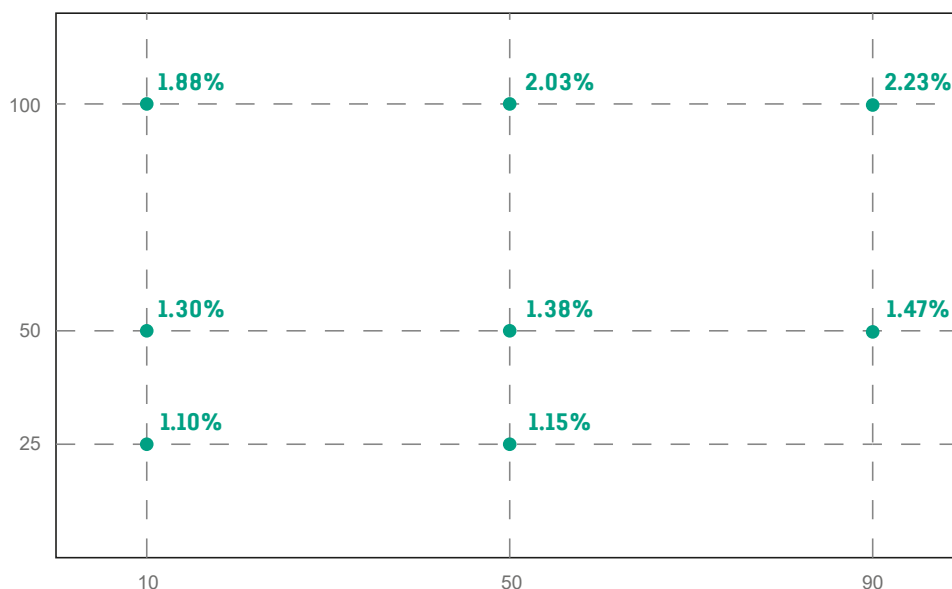
**S90V10SI**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>18.5</b>  |
| Nominal current                 | (A)   | <b>38</b>    |
| Nominal apparent power          | (kVA) | <b>24.75</b> |
| Standby loss                    | (W)   | <b>50</b>    |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.23%         | 552.10            | 97.2%        |
| 90          | 50        | 1.47%         | 364.08            | 96.9%        |
| 50          | 100       | 2.03%         | 502.12            | 95.4%        |
| 50          | 50        | 1.38%         | 340.61            | 94.9%        |
| 50          | 25        | 1.15%         | 284.60            | 94.3%        |
| 10          | 100       | 1.88%         | 465.36            | 81.9%        |
| 10          | 50        | 1.30%         | 321.90            | 79.7%        |
| 10          | 25        | 1.10%         | 271.51            | 77.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV-3220-KBX-4+SI-F**

**IE2** EFFICIENCY: **96.8%**

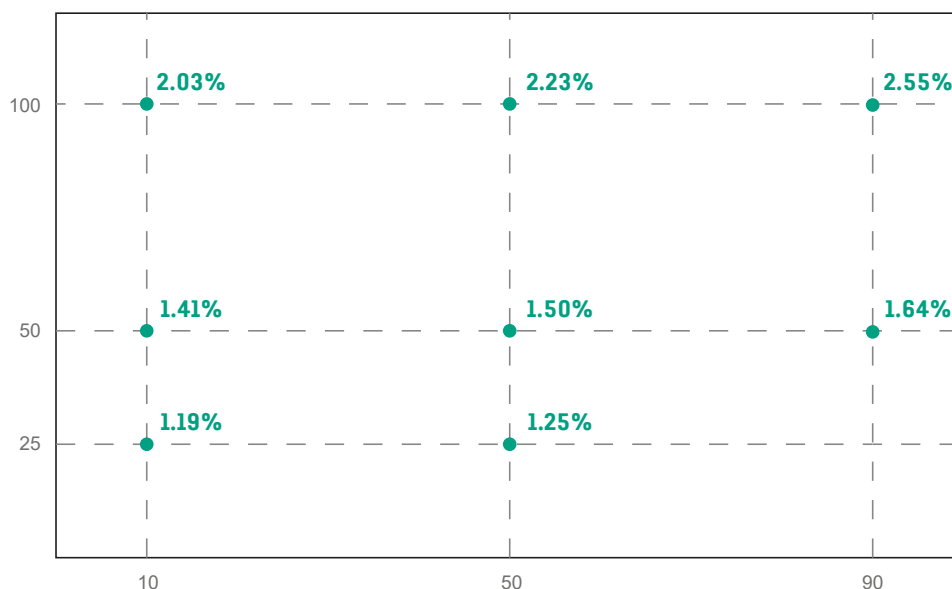
Code **S90V11SI**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>22</b>  |
| Nominal current                 | (A)   | <b>46</b>  |
| Nominal apparent power          | (kVA) | <b>30</b>  |
| Standby loss                    | (W)   | <b>69</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.55%         | 762.48            | 96.8%        |
| 90          | 50        | 1.64%         | 491.42            | 96.5%        |
| 50          | 100       | 2.23%         | 667.55            | 95.0%        |
| 50          | 50        | 1.50%         | 450.11            | 94.4%        |
| 50          | 25        | 1.25%         | 374.71            | 93.9%        |
| 10          | 100       | 2.03%         | 607.10            | 80.7%        |
| 10          | 50        | 1.41%         | 421.21            | 78.4%        |
| 10          | 25        | 1.19%         | 355.10            | 76.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4300-KBX-4+SI-F**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

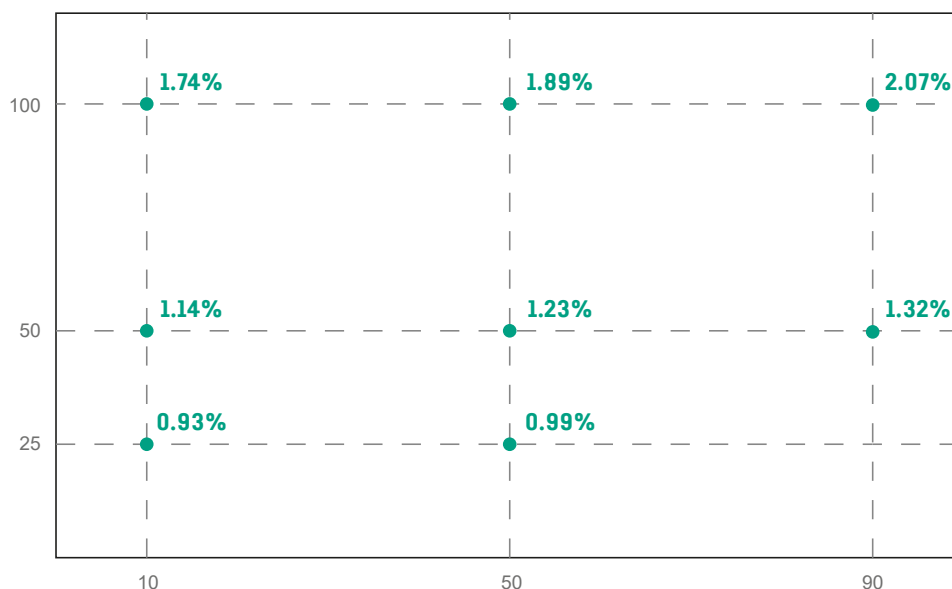
**S90V13SI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>30</b>   |
| Nominal current                 | (A)   | <b>62</b>   |
| Nominal apparent power          | (kVA) | <b>40.4</b> |
| Standby loss                    | (W)   | <b>76</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 836.96            | 97.4%        |
| 90          | 50        | 1.32%         | 531.70            | 97.1%        |
| 50          | 100       | 1.89%         | 764.80            | 95.7%        |
| 50          | 50        | 1.23%         | 494.89            | 95.3%        |
| 50          | 25        | 0.99%         | 400.54            | 94.7%        |
| 10          | 100       | 1.74%         | 702.97            | 83.0%        |
| 10          | 50        | 1.14%         | 461.55            | 81.2%        |
| 10          | 25        | 0.93%         | 377.09            | 79.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4370-KBX-4+SI-F**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

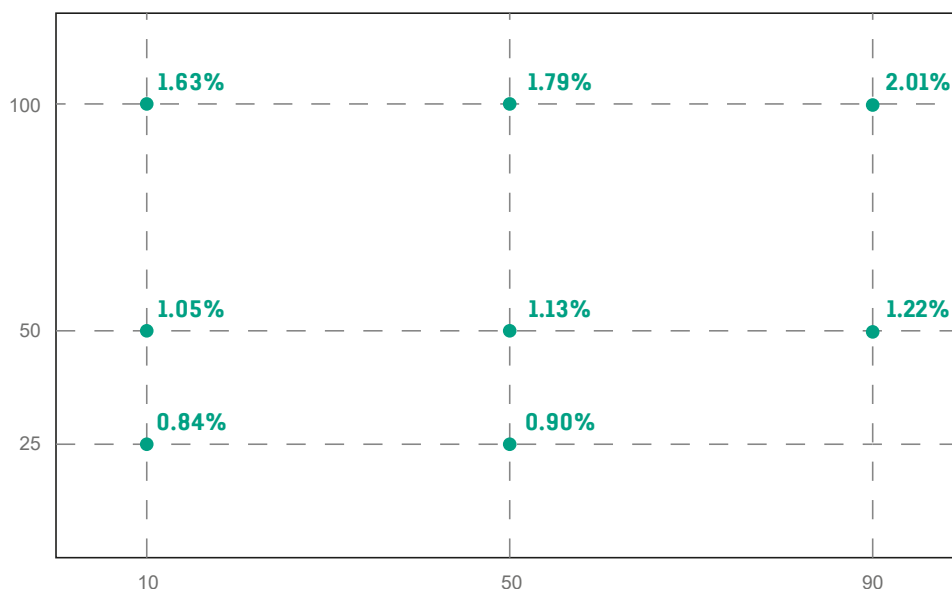
**S90V15SI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>37</b>   |
| Nominal current                 | (A)   | <b>75</b>   |
| Nominal apparent power          | (kVA) | <b>48.8</b> |
| Standby loss                    | (W)   | <b>89</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.01%         | 980.88            | 97.4%        |
| 90          | 50        | 1.22%         | 597.76            | 97.3%        |
| 50          | 100       | 1.79%         | 875.11            | 96.0%        |
| 50          | 50        | 1.13%         | 549.53            | 95.6%        |
| 50          | 25        | 0.90%         | 438.75            | 95.2%        |
| 10          | 100       | 1.63%         | 798.06            | 83.9%        |
| 10          | 50        | 1.05%         | 510.96            | 82.5%        |
| 10          | 25        | 0.84%         | 412.51            | 80.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4450-KBX-4+SI-F**

**IE2**

**EFFICIENCY:**

**97.3%**

Code

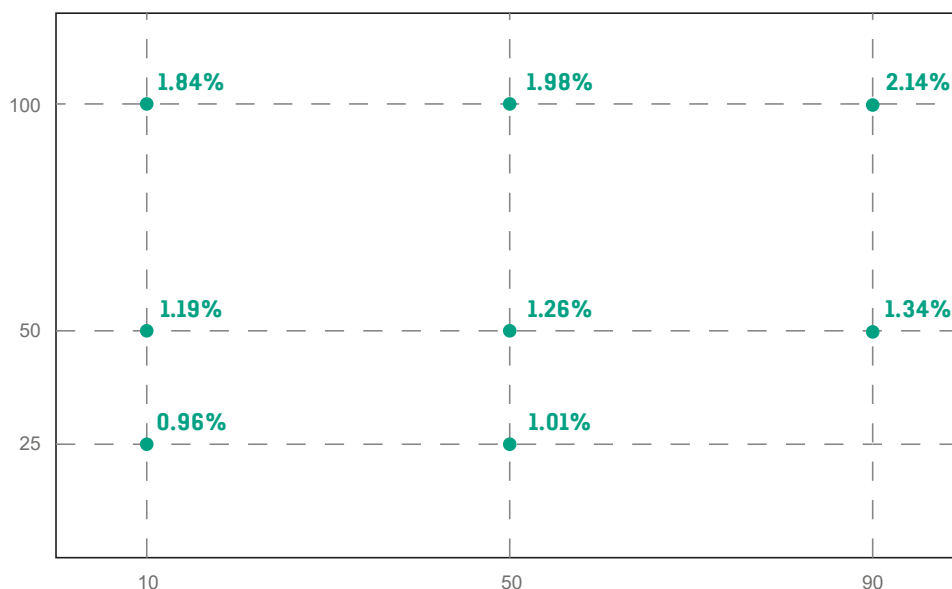
**S90V17SI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>45</b>   |
| Nominal current                 | (A)   | <b>87</b>   |
| Nominal apparent power          | (kVA) | <b>56.7</b> |
| Standby loss                    | (W)   | <b>110</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.14%         | 1,214.58          | 97.3%        |
| 90          | 50        | 1.34%         | 759.44            | 97.1%        |
| 50          | 100       | 1.98%         | 1,121.61          | 95.6%        |
| 50          | 50        | 1.26%         | 713.70            | 95.2%        |
| 50          | 25        | 1.01%         | 569.50            | 94.7%        |
| 10          | 100       | 1.84%         | 1,045.20          | 82.3%        |
| 10          | 50        | 1.19%         | 673.55            | 80.8%        |
| 10          | 25        | 0.96%         | 541.57            | 79.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-5550-KBX-4+SI-F**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

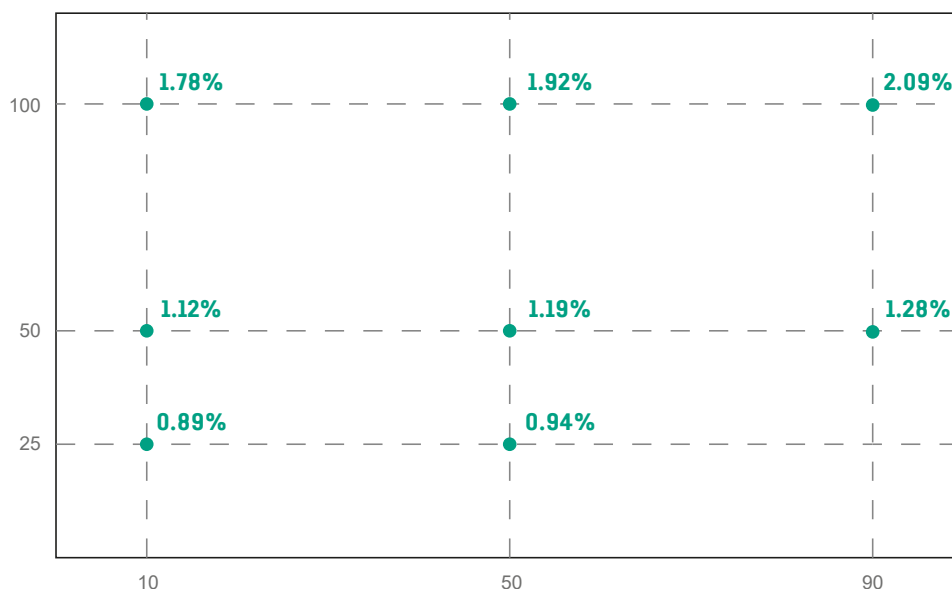
**S90V19SI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>55</b>   |
| Nominal current                 | (A)   | <b>105</b>  |
| Nominal apparent power          | (kVA) | <b>68.4</b> |
| Standby loss                    | (W)   | <b>130</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.09%         | 1,431.96          | 97.4%        |
| 90          | 50        | 1.28%         | 875.52            | 97.2%        |
| 50          | 100       | 1.92%         | 1,310.93          | 95.7%        |
| 50          | 50        | 1.19%         | 816.88            | 95.4%        |
| 50          | 25        | 0.94%         | 645.19            | 95.0%        |
| 10          | 100       | 1.78%         | 1,214.14          | 82.9%        |
| 10          | 50        | 1.12%         | 766.40            | 81.7%        |
| 10          | 25        | 0.89%         | 610.20            | 80.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4300-KXX-4+SI-F**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

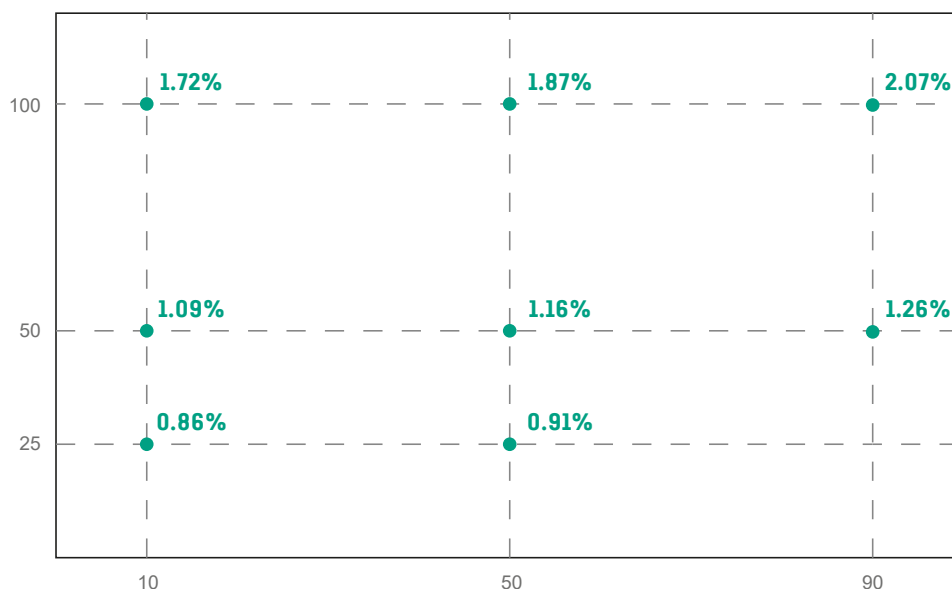
**S90V12SI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>30</b>   |
| Nominal current                 | (A)   | <b>62</b>   |
| Nominal apparent power          | (kVA) | <b>40.4</b> |
| Standby loss                    | (W)   | <b>76</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 2,024.88          | 97.4%        |
| 90          | 50        | 1.26%         | 1,226.35          | 97.3%        |
| 50          | 100       | 1.87%         | 1,831.36          | 95.8%        |
| 50          | 50        | 1.16%         | 1,135.65          | 95.5%        |
| 50          | 25        | 0.91%         | 893.53            | 95.2%        |
| 10          | 100       | 1.72%         | 1,683.33          | 83.3%        |
| 10          | 50        | 1.09%         | 1,060.26          | 82.1%        |
| 10          | 25        | 0.86%         | 841.81            | 80.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4370-KXX-4+SI-F**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

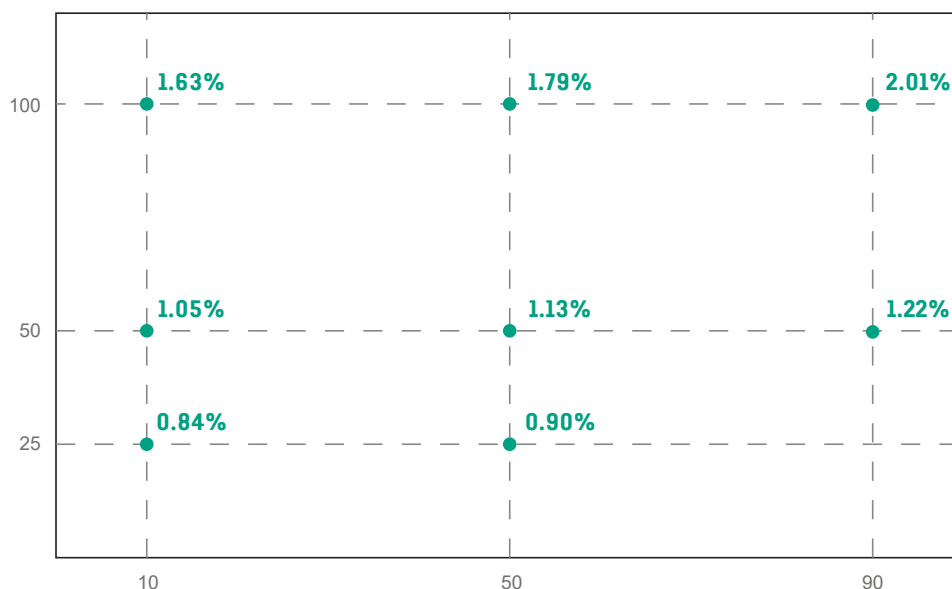
**S90V14SI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>37</b>   |
| Nominal current                 | (A)   | <b>75</b>   |
| Nominal apparent power          | (kVA) | <b>48.8</b> |
| Standby loss                    | (W)   | <b>89</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.01%         | 980.88            | 97.4%        |
| 90          | 50        | 1.22%         | 597.76            | 97.3%        |
| 50          | 100       | 1.79%         | 875.11            | 96.0%        |
| 50          | 50        | 1.13%         | 549.53            | 95.6%        |
| 50          | 25        | 0.90%         | 438.75            | 95.2%        |
| 10          | 100       | 1.63%         | 798.06            | 83.9%        |
| 10          | 50        | 1.05%         | 510.96            | 82.5%        |
| 10          | 25        | 0.84%         | 412.51            | 80.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4450-KXX-4+SI-F**

**IE2**

**EFFICIENCY:**

**97.3%**

Code

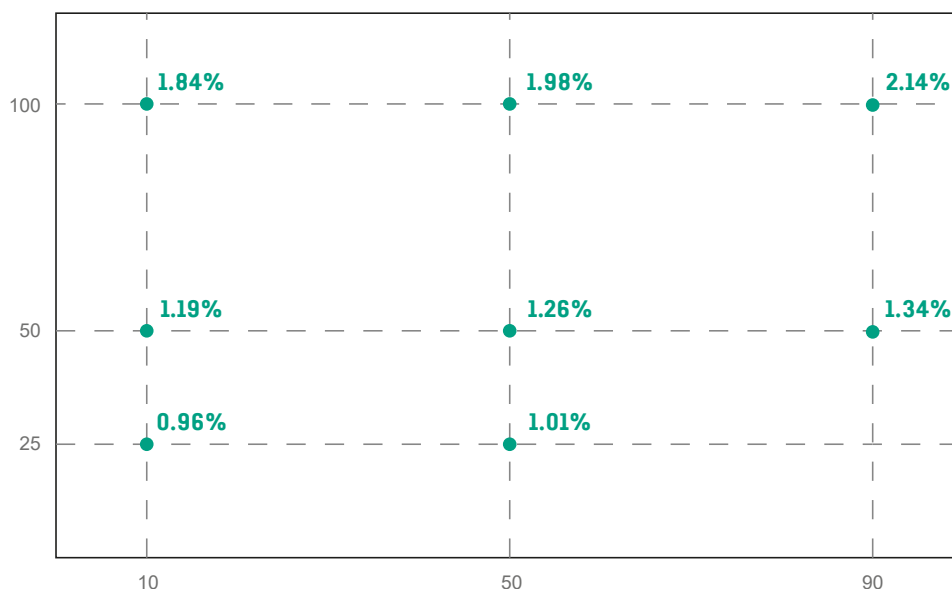
**S90V16SI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>45</b>   |
| Nominal current                 | (A)   | <b>87</b>   |
| Nominal apparent power          | (kVA) | <b>56.7</b> |
| Standby loss                    | (W)   | <b>110</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.14%         | 1,214.58          | 97.3%        |
| 90          | 50        | 1.34%         | 759.44            | 97.1%        |
| 50          | 100       | 1.98%         | 1,121.61          | 95.6%        |
| 50          | 50        | 1.26%         | 713.70            | 95.2%        |
| 50          | 25        | 1.01%         | 569.50            | 94.7%        |
| 10          | 100       | 1.84%         | 1,045.20          | 82.3%        |
| 10          | 50        | 1.19%         | 673.55            | 80.8%        |
| 10          | 25        | 0.96%         | 541.57            | 79.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-5550-KXX-4+SI-F**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

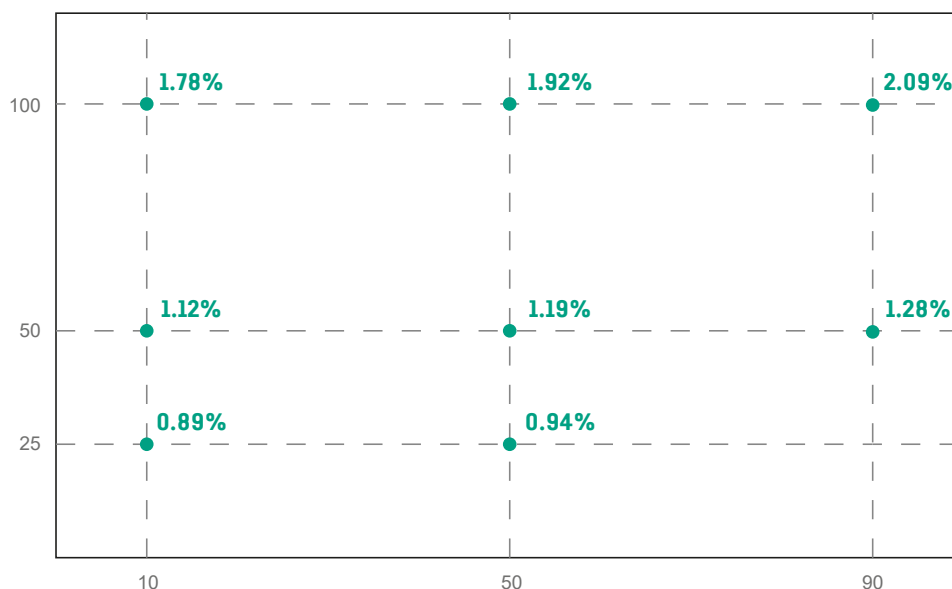
**S90V18SI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>55</b>   |
| Nominal current                 | (A)   | <b>105</b>  |
| Nominal apparent power          | (kVA) | <b>68.4</b> |
| Standby loss                    | (W)   | <b>130</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.09%         | 1,431.96          | 97.4%        |
| 90          | 50        | 1.28%         | 875.52            | 97.2%        |
| 50          | 100       | 1.92%         | 1,310.93          | 95.7%        |
| 50          | 50        | 1.19%         | 816.88            | 95.4%        |
| 50          | 25        | 0.94%         | 645.19            | 95.0%        |
| 10          | 100       | 1.78%         | 1,214.14          | 82.9%        |
| 10          | 50        | 1.12%         | 766.40            | 81.7%        |
| 10          | 25        | 0.89%         | 610.20            | 80.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-5750-KXX-4+SI-F**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

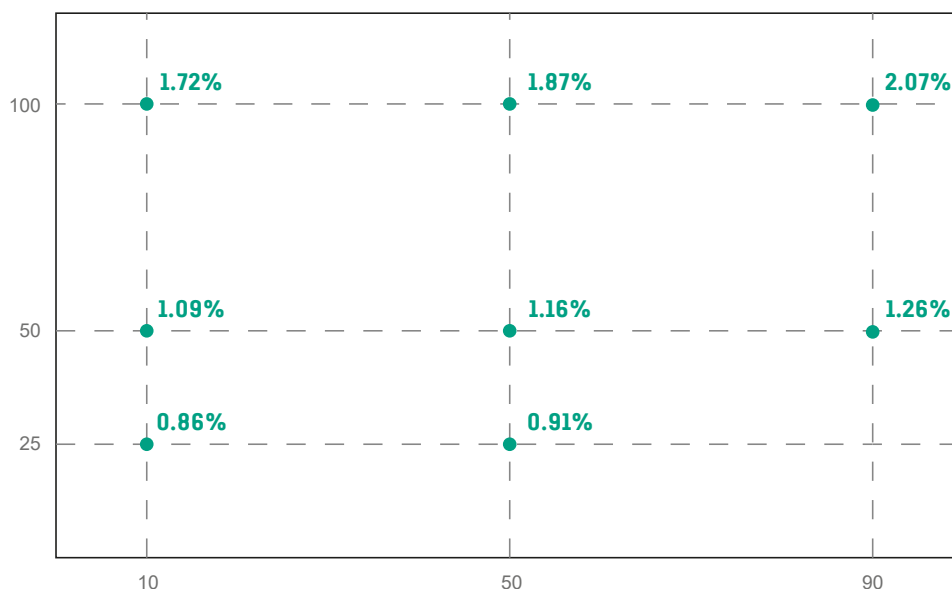
**S90V20SI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>75</b>   |
| Nominal current                 | (A)   | <b>150</b>  |
| Nominal apparent power          | (kVA) | <b>97.7</b> |
| Standby loss                    | (W)   | <b>184</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 2,024.88          | 97.4%        |
| 90          | 50        | 1.26%         | 1,226.35          | 97.3%        |
| 50          | 100       | 1.87%         | 1,831.36          | 95.8%        |
| 50          | 50        | 1.16%         | 1,135.65          | 95.5%        |
| 50          | 25        | 0.91%         | 893.53            | 95.2%        |
| 10          | 100       | 1.72%         | 1,683.33          | 83.3%        |
| 10          | 50        | 1.09%         | 1,060.26          | 82.1%        |
| 10          | 25        | 0.86%         | 841.81            | 80.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-5900-KXX-4+SI-F**

**IE2**

**EFFICIENCY:**

**97.6%**

Code

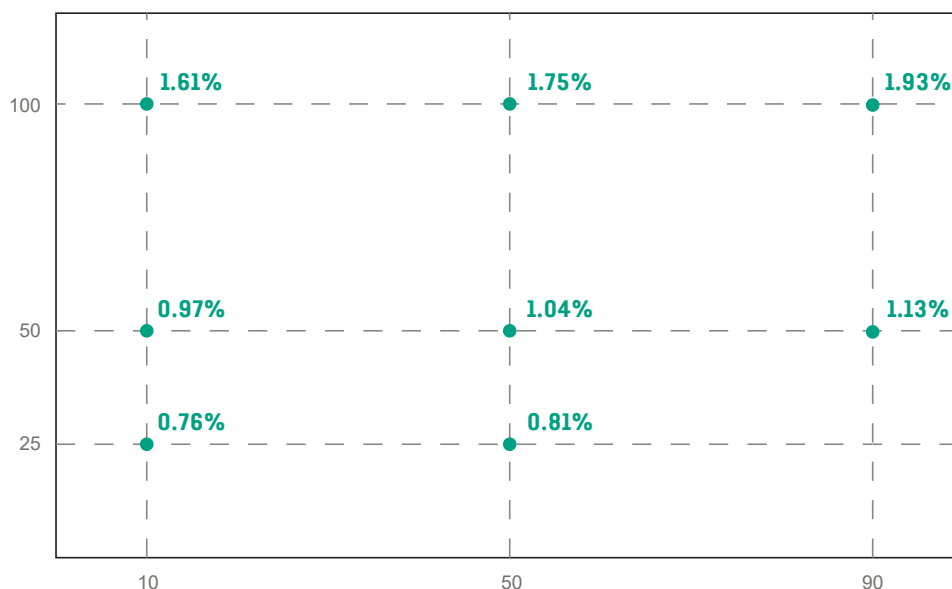
**S90V21SI**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>90</b>    |
| Nominal current                 | (A)   | <b>180</b>   |
| Nominal apparent power          | (kVA) | <b>117.2</b> |
| Standby loss                    | (W)   | <b>205</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.93%         | 2,257.49          | 97.6%        |
| 90          | 50        | 1.13%         | 1,322.22          | 97.5%        |
| 50          | 100       | 1.75%         | 2,051.77          | 96.1%        |
| 50          | 50        | 1.04%         | 1,224.33          | 96.0%        |
| 50          | 25        | 0.81%         | 944.69            | 95.7%        |
| 10          | 100       | 1.61%         | 1,889.73          | 84.2%        |
| 10          | 50        | 0.97%         | 1,141.14          | 83.7%        |
| 10          | 25        | 0.76%         | 887.42            | 82.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV-61100-KXX-4+SI-F**

**IE2** EFFICIENCY: **98.0%**

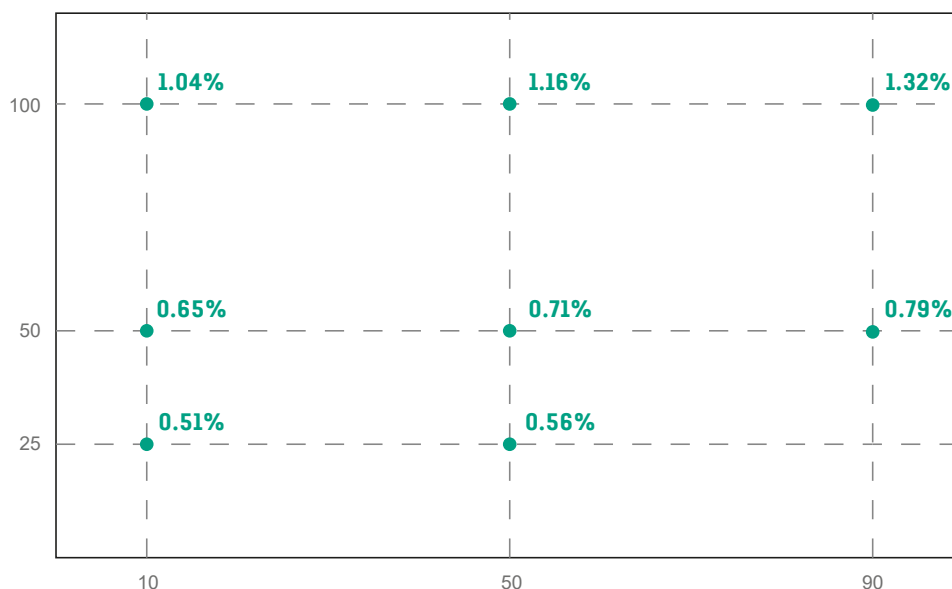
Code **S90V22SI**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>110</b>   |
| Nominal current                 | (A)   | <b>210</b>   |
| Nominal apparent power          | (kVA) | <b>162.8</b> |
| Standby loss                    | (W)   | <b>195</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.32%         | 2,143.86          | 98.0%        |
| 90          | 50        | 0.79%         | 1,281.43          | 98.0%        |
| 50          | 100       | 1.16%         | 1,896.62          | 96.9%        |
| 50          | 50        | 0.71%         | 1,160.70          | 96.7%        |
| 50          | 25        | 0.56%         | 905.74            | 96.5%        |
| 10          | 100       | 1.04%         | 1,699.32          | 87.4%        |
| 10          | 50        | 0.65%         | 1,056.76          | 86.6%        |
| 10          | 25        | 0.51%         | 833.37            | 85.6%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV-61320-KXX-4+SI-F**

**IE2** EFFICIENCY: **98.0%**

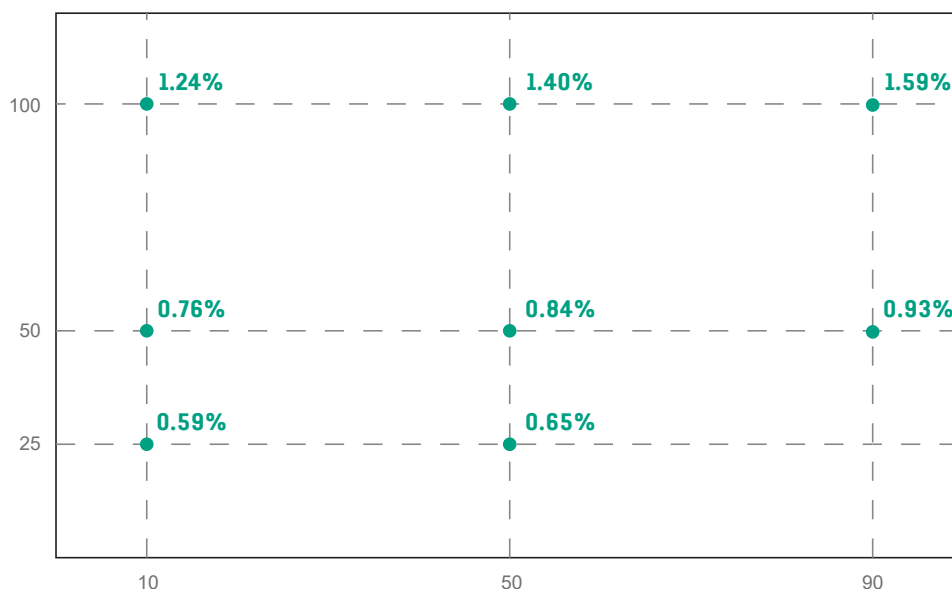
Code **S90V23SI**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>132</b>   |
| Nominal current                 | (A)   | <b>250</b>   |
| Nominal apparent power          | (kVA) | <b>162.8</b> |
| Standby loss                    | (W)   | <b>236</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.59%         | 2,596.15          | 98.0%        |
| 90          | 50        | 0.93%         | 1,513.51          | 98.0%        |
| 50          | 100       | 1.40%         | 2,275.29          | 96.9%        |
| 50          | 50        | 0.84%         | 1,360.86          | 96.8%        |
| 50          | 25        | 0.65%         | 1,051.50          | 96.5%        |
| 10          | 100       | 1.24%         | 2,017.62          | 87.4%        |
| 10          | 50        | 0.76%         | 1,229.46          | 86.9%        |
| 10          | 25        | 0.59%         | 961.33            | 85.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-71600-KXX-4+SI-F**

**IE2**

**EFFICIENCY:**

**97.8%**

Code

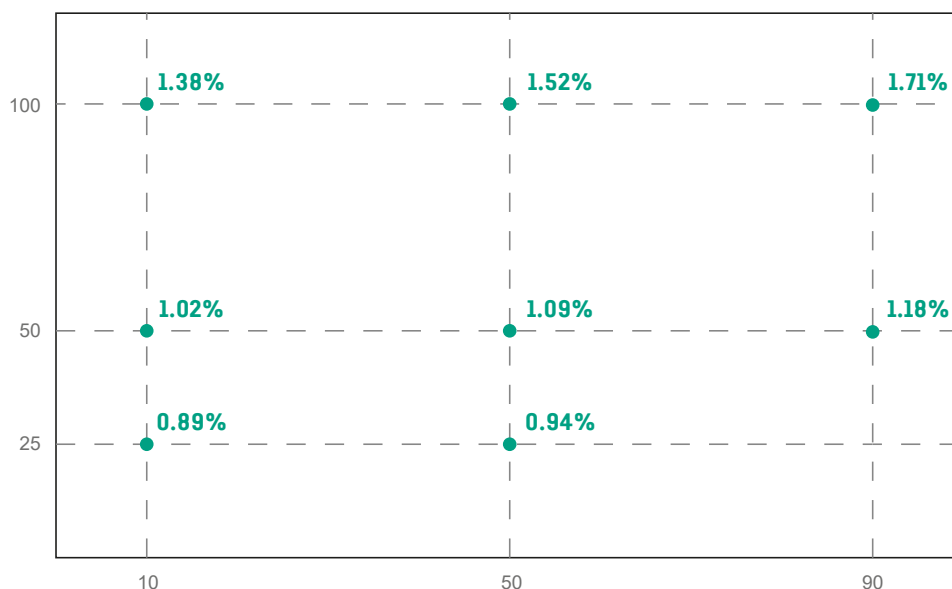
**S90V24SI**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>160</b>   |
| Nominal current                 | (A)   | <b>300</b>   |
| Nominal apparent power          | (kVA) | <b>195.4</b> |
| Standby loss                    | (W)   | <b>304</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.71%         | 3,342.40          | 97.8%        |
| 90          | 50        | 1.18%         | 2,313.43          | 97.4%        |
| 50          | 100       | 1.52%         | 2,968.06          | 96.6%        |
| 50          | 50        | 1.09%         | 2,136.10          | 95.8%        |
| 50          | 25        | 0.94%         | 1,831.37          | 95.1%        |
| 10          | 100       | 1.38%         | 2,687.17          | 86.2%        |
| 10          | 50        | 1.02%         | 1,993.17          | 83.0%        |
| 10          | 25        | 0.89%         | 1,733.38          | 80.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-72000-KXX-4+SI-F**

**IE2**

**EFFICIENCY:**

**97.9%**

Code

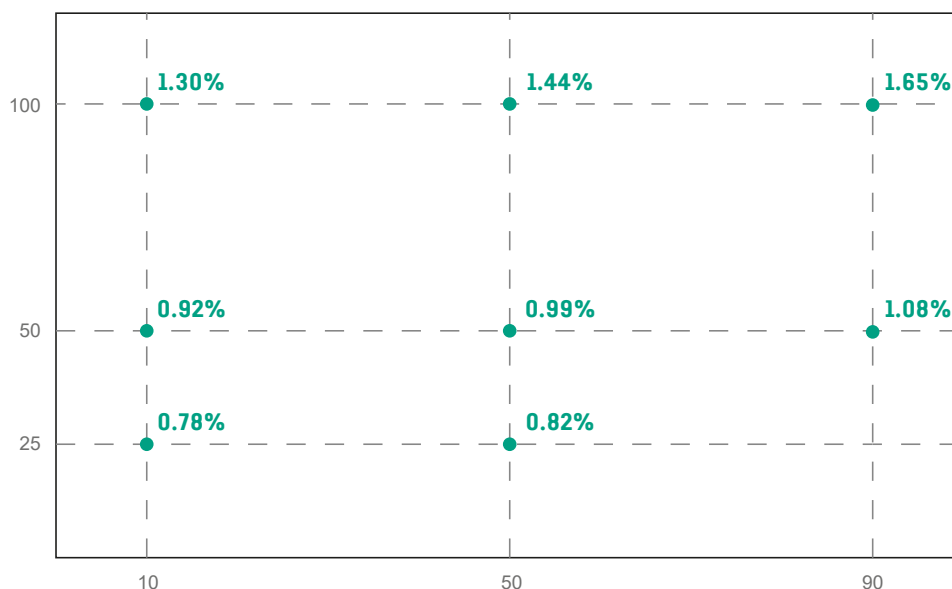
**S90V25SI**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>200</b>   |
| Nominal current                 | (A)   | <b>385</b>   |
| Nominal apparent power          | (kVA) | <b>250.7</b> |
| Standby loss                    | (W)   | <b>377</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.65%         | 4,149.10          | 97.9%        |
| 90          | 50        | 1.08%         | 2,715.38          | 97.6%        |
| 50          | 100       | 1.44%         | 3,622.81          | 96.8%        |
| 50          | 50        | 0.99%         | 2,487.06          | 96.1%        |
| 50          | 25        | 0.82%         | 2,066.30          | 95.4%        |
| 10          | 100       | 1.30%         | 3,247.44          | 87.0%        |
| 10          | 50        | 0.92%         | 2,306.08          | 84.1%        |
| 10          | 25        | 0.78%         | 1,948.12          | 81.4%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-72500-KXX-4+SI-F**

**IE2**

**EFFICIENCY:**

**97.9%**

Code

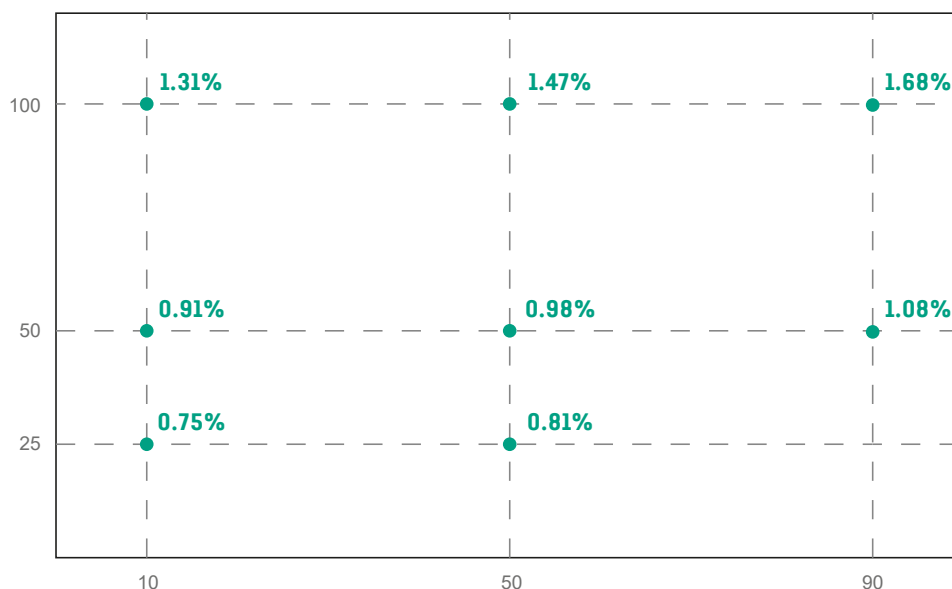
**S90V26SI**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>250</b>   |
| Nominal current                 | (A)   | <b>460</b>   |
| Nominal apparent power          | (kVA) | <b>299.6</b> |
| Standby loss                    | (W)   | <b>458</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.68%         | 5,035.22          | 97.9%        |
| 90          | 50        | 1.08%         | 3,234.78          | 97.6%        |
| 50          | 100       | 1.47%         | 4,395.93          | 96.7%        |
| 50          | 50        | 0.98%         | 2,950.18          | 96.1%        |
| 50          | 25        | 0.81%         | 2,413.76          | 95.5%        |
| 10          | 100       | 1.31%         | 3,921.30          | 86.9%        |
| 10          | 50        | 0.91%         | 2,717.22          | 84.3%        |
| 10          | 25        | 0.75%         | 2,260.35          | 81.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV-73150-KXX-4+SI-F**

**IE2** EFFICIENCY: **98.0%**

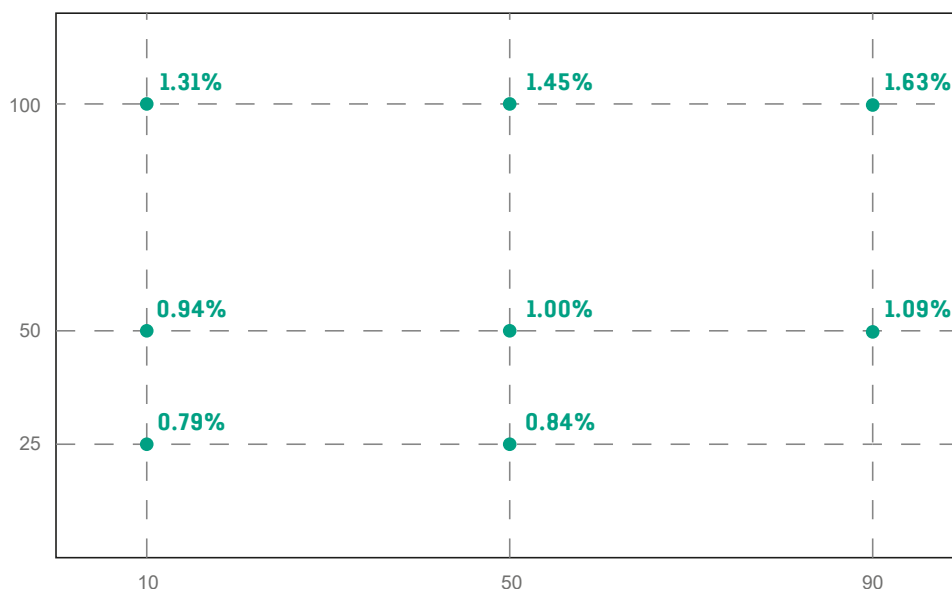
Code **S90V27SI**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>315</b>   |
| Nominal current                 | (A)   | <b>590</b>   |
| Nominal apparent power          | (kVA) | <b>384.2</b> |
| Standby loss                    | (W)   | <b>572</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.63%         | 6,281.26          | 98.0%        |
| 90          | 50        | 1.09%         | 4,173.99          | 97.6%        |
| 50          | 100       | 1.45%         | 5,559.37          | 96.8%        |
| 50          | 50        | 1.00%         | 3,854.14          | 96.0%        |
| 50          | 25        | 0.84%         | 3,220.95          | 95.3%        |
| 10          | 100       | 1.31%         | 5,027.54          | 86.9%        |
| 10          | 50        | 0.94%         | 3,593.88          | 83.9%        |
| 10          | 25        | 0.79%         | 3,049.81          | 81.0%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV-73150-KXX-4A+SI-F**

**IE2** EFFICIENCY: **98.0%**

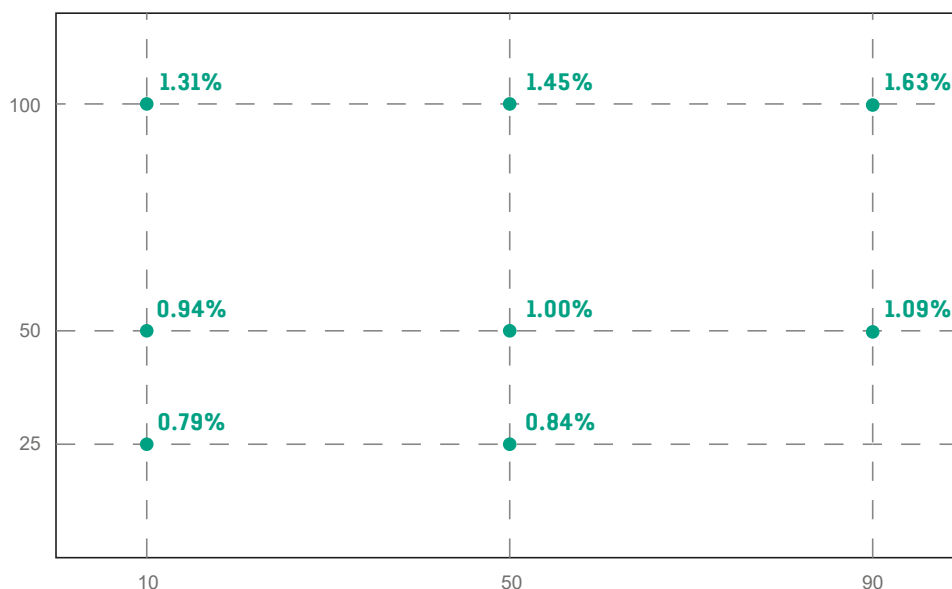
Code **S90V29SI**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>460</b>   |
| Motor Power output              | (kW)  | <b>315</b>   |
| Nominal current                 | (A)   | <b>590</b>   |
| Nominal apparent power          | (kVA) | <b>384.2</b> |
| Standby loss                    | (W)   | <b>572</b>   |
| Nominal apparent frequency      | (Hz)  | <b>60</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.63%         | 6,281.26          | 98.0%        |
| 90          | 50        | 1.09%         | 4,173.99          | 97.6%        |
| 50          | 100       | 1.45%         | 5,559.37          | 96.8%        |
| 50          | 50        | 1.00%         | 3,854.14          | 96.0%        |
| 50          | 25        | 0.84%         | 3,220.95          | 95.3%        |
| 10          | 100       | 1.31%         | 5,027.54          | 86.9%        |
| 10          | 50        | 0.94%         | 3,593.88          | 83.9%        |
| 10          | 25        | 0.79%         | 3,049.81          | 81.0%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV-73550-KXX-4+SI-F**

**IE2** EFFICIENCY: **98.0%**

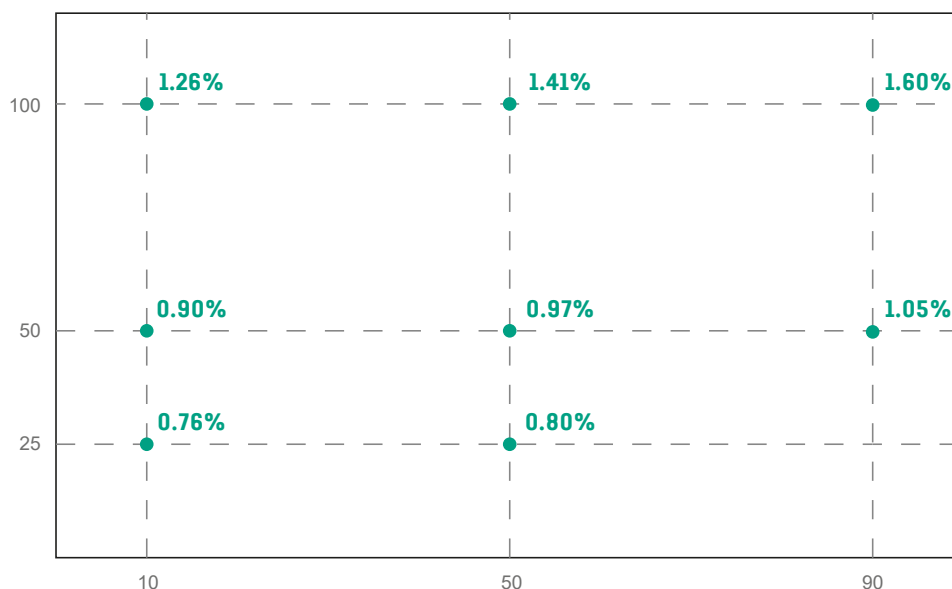
Code **S90V28SI**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>355</b>   |
| Nominal current                 | (A)   | <b>650</b>   |
| Nominal apparent power          | (kVA) | <b>423.3</b> |
| Standby loss                    | (W)   | <b>617</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.60%         | 6,780.70          | 98.0%        |
| 90          | 50        | 1.05%         | 4,451.60          | 97.7%        |
| 50          | 100       | 1.41%         | 5,951.67          | 96.9%        |
| 50          | 50        | 0.97%         | 4,088.64          | 96.2%        |
| 50          | 25        | 0.80%         | 3,396.38          | 95.5%        |
| 10          | 100       | 1.26%         | 5,353.10          | 87.3%        |
| 10          | 50        | 0.90%         | 3,797.95          | 84.4%        |
| 10          | 25        | 0.76%         | 3,205.91          | 81.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-73550-KXX-4A+SI-F**

**IE2**

**EFFICIENCY:**

**98.0%**

Code

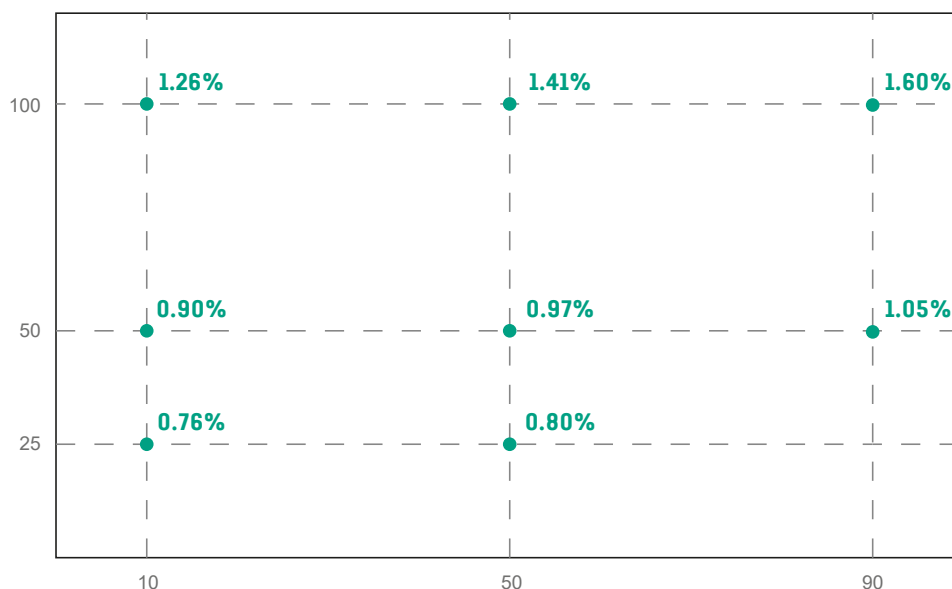
**S90V30SI**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>460</b>   |
| Motor Power output              | (kW)  | <b>355</b>   |
| Nominal current                 | (A)   | <b>650</b>   |
| Nominal apparent power          | (kVA) | <b>423.3</b> |
| Standby loss                    | (W)   | <b>617</b>   |
| Nominal apparent frequency      | (Hz)  | <b>60</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.60%         | 6,780.70          | 98.0%        |
| 90          | 50        | 1.05%         | 4,451.60          | 97.7%        |
| 50          | 100       | 1.41%         | 5,951.67          | 96.9%        |
| 50          | 50        | 0.97%         | 4,088.64          | 96.2%        |
| 50          | 25        | 0.80%         | 3,396.38          | 95.5%        |
| 10          | 100       | 1.26%         | 5,353.10          | 87.3%        |
| 10          | 50        | 0.90%         | 3,797.95          | 84.4%        |
| 10          | 25        | 0.76%         | 3,205.91          | 81.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-73551-KXX-4+SI-F**

**IE2**

**EFFICIENCY:**

**98.0%**

Code

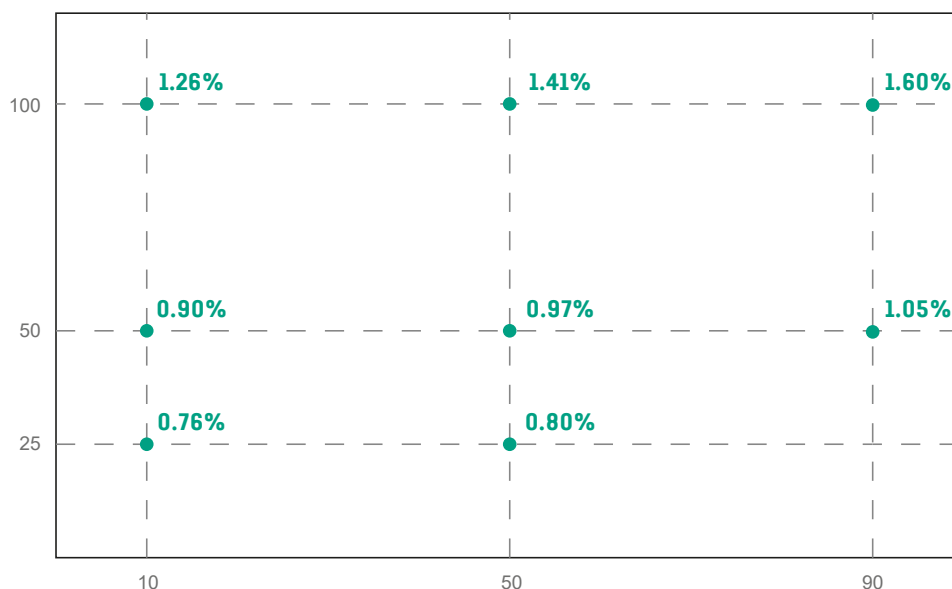
**S90V32SI**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>355</b>   |
| Nominal current                 | (A)   | <b>650</b>   |
| Nominal apparent power          | (kVA) | <b>423.3</b> |
| Standby loss                    | (W)   | <b>617</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.60%         | 6,780.70          | 98.0%        |
| 90          | 50        | 1.05%         | 4,451.60          | 97.7%        |
| 50          | 100       | 1.41%         | 5,951.67          | 96.9%        |
| 50          | 50        | 0.97%         | 4,088.64          | 96.2%        |
| 50          | 25        | 0.80%         | 3,396.38          | 95.5%        |
| 10          | 100       | 1.26%         | 5,353.10          | 87.3%        |
| 10          | 50        | 0.90%         | 3,797.95          | 84.4%        |
| 10          | 25        | 0.76%         | 3,205.91          | 81.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ADV200-4/4A-DC-F + Safety Card Category SIL3

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# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-3185-KXX-4-DC+SI-F**

**IE2**

**EFFICIENCY:**

**97.7%**

Code

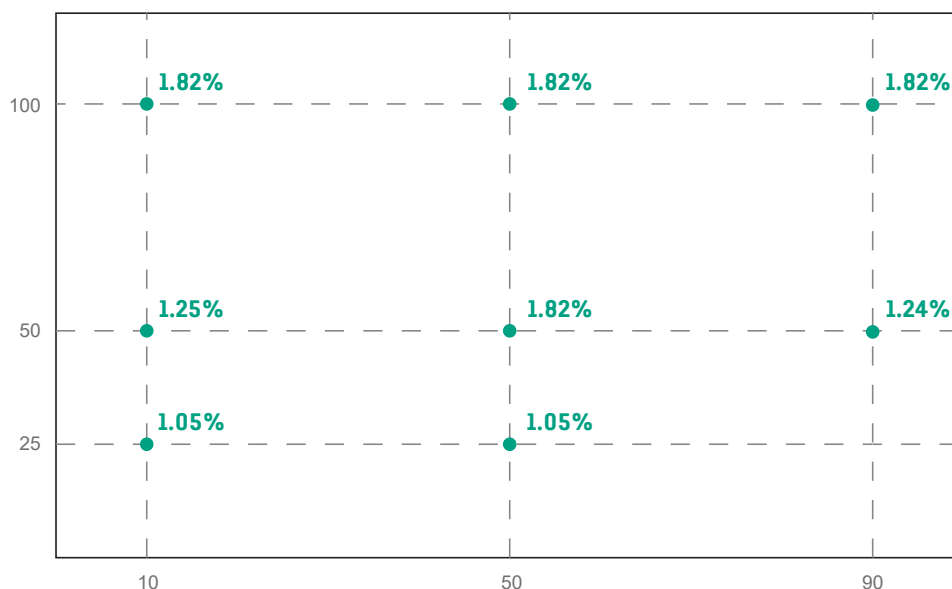
**S90V10DS**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>18.5</b>  |
| Nominal current                 | (A)   | <b>38</b>    |
| Nominal apparent power          | (kVA) | <b>24.75</b> |
| Standby loss                    | (W)   | <b>41.1</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.82%         | 450.74            | 97.7%        |
| 90          | 50        | 1.24%         | 307.70            | 97.4%        |
| 50          | 100       | 1.82%         | 450.07            | 95.9%        |
| 50          | 50        | 1.25%         | 308.26            | 95.3%        |
| 50          | 25        | 1.05%         | 258.79            | 94.8%        |
| 10          | 100       | 1.82%         | 449.40            | 82.4%        |
| 10          | 50        | 1.25%         | 308.82            | 80.3%        |
| 10          | 25        | 1.05%         | 259.48            | 78.5%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-3220-KXX-4-DC+SI-F**

**IE2**

**EFFICIENCY:**

**97.5%**

Code

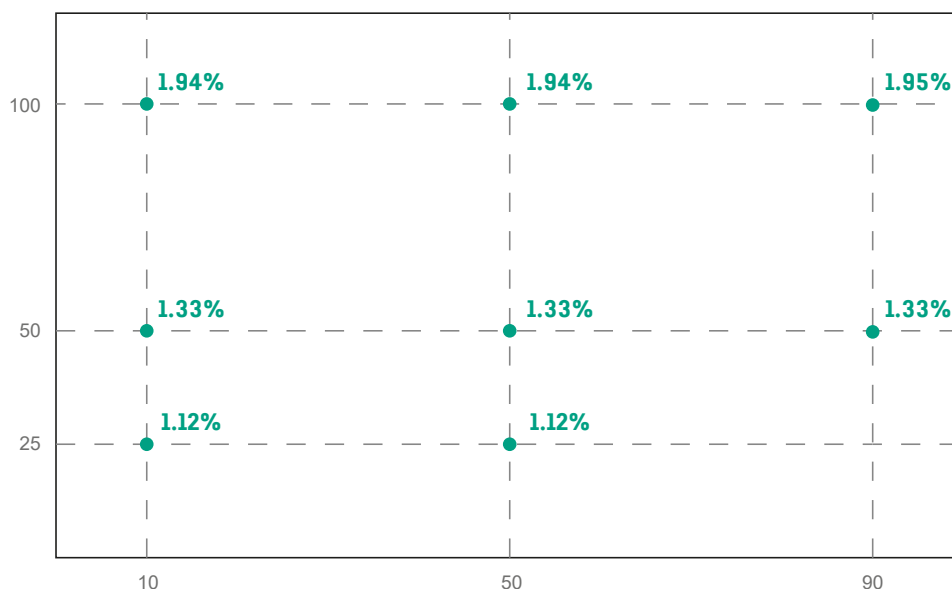
**S90V11DS**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>22</b>  |
| Nominal current                 | (A)   | <b>46</b>  |
| Nominal apparent power          | (kVA) | <b>30</b>  |
| Standby loss                    | (W)   | <b>69</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.95%         | 583.20            | 97.5%        |
| 90          | 50        | 1.33%         | 398.39            | 97.2%        |
| 50          | 100       | 1.94%         | 582.39            | 95.6%        |
| 50          | 50        | 1.33%         | 399.07            | 95.0%        |
| 50          | 25        | 1.12%         | 334.25            | 94.5%        |
| 10          | 100       | 1.94%         | 581.58            | 81.4%        |
| 10          | 50        | 1.33%         | 399.75            | 79.3%        |
| 10          | 25        | 1.12%         | 335.08            | 77.4%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4300-KXX-4-DC+SI-F**

**IE2**

**EFFICIENCY:**

**97.9%**

Code

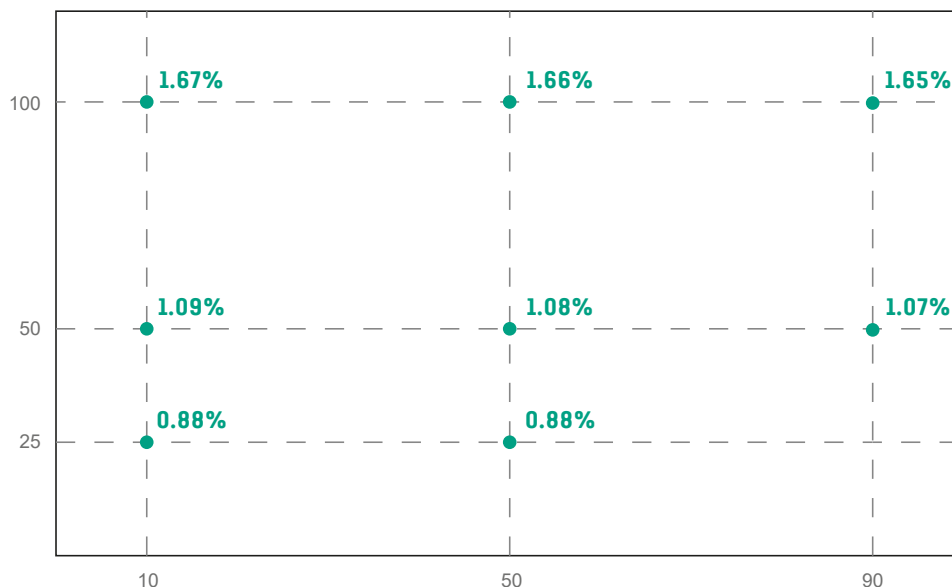
**S90V12DS**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>30</b>   |
| Nominal current                 | (A)   | <b>62</b>   |
| Nominal apparent power          | (kVA) | <b>40.4</b> |
| Standby loss                    | (W)   | <b>61</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.65%         | 667.74            | 97.9%        |
| 90          | 50        | 1.07%         | 433.62            | 97.6%        |
| 50          | 100       | 1.66%         | 670.57            | 96.2%        |
| 50          | 50        | 1.08%         | 435.90            | 95.8%        |
| 50          | 25        | 0.88%         | 354.23            | 95.3%        |
| 10          | 100       | 1.67%         | 673.41            | 83.6%        |
| 10          | 50        | 1.09%         | 438.18            | 82.0%        |
| 10          | 25        | 0.88%         | 356.06            | 80.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4370-KXX-4-DC+SI-F**

**IE2**

**EFFICIENCY:**

**98.0%**

Code

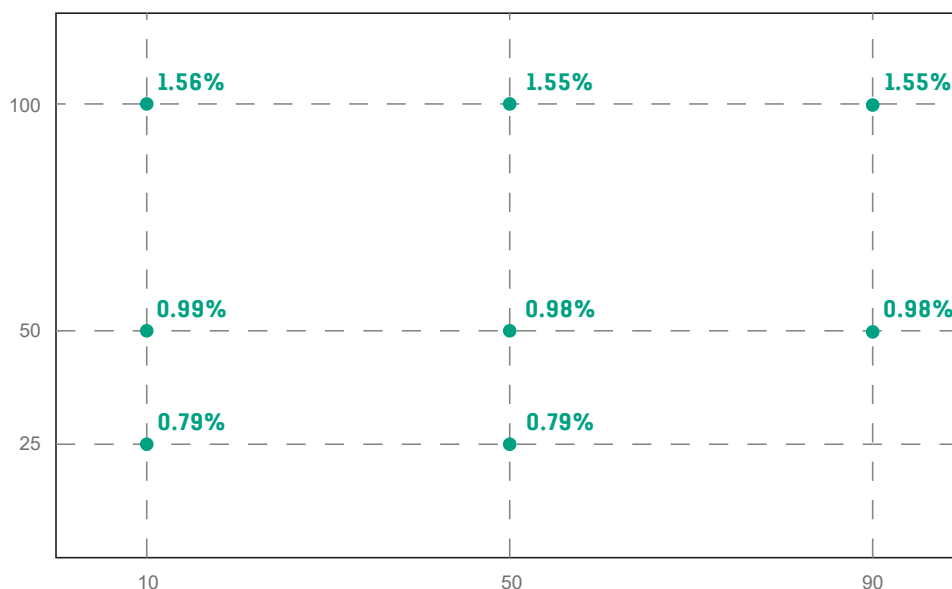
**S90V13DS**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>37</b>   |
| Nominal current                 | (A)   | <b>75</b>   |
| Nominal apparent power          | (kVA) | <b>48.8</b> |
| Standby loss                    | (W)   | <b>69</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.55%         | 756.46            | 98.0%        |
| 90          | 50        | 0.98%         | 476.92            | 97.8%        |
| 50          | 100       | 1.55%         | 759.50            | 96.5%        |
| 50          | 50        | 0.98%         | 479.55            | 96.2%        |
| 50          | 25        | 0.79%         | 384.06            | 95.8%        |
| 10          | 100       | 1.56%         | 762.53            | 84.5%        |
| 10          | 50        | 0.99%         | 482.17            | 83.3%        |
| 10          | 25        | 0.79%         | 386.21            | 81.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4450-KXX-4-DC+SI-F**

**IE2**

**EFFICIENCY:**

**97.8%**

Code

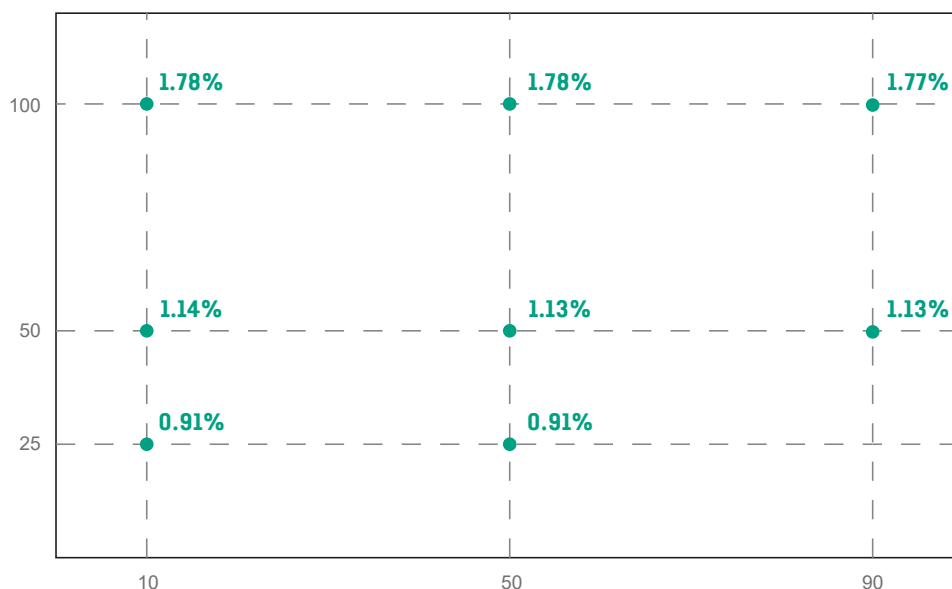
**S90V14DS**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>45</b>   |
| Nominal current                 | (A)   | <b>87</b>   |
| Nominal apparent power          | (kVA) | <b>56.7</b> |
| Standby loss                    | (W)   | <b>91</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.77%         | 1,002.72          | 97.8%        |
| 90          | 50        | 1.13%         | 638.79            | 97.6%        |
| 50          | 100       | 1.78%         | 1,005.81          | 96.0%        |
| 50          | 50        | 1.13%         | 641.72            | 95.7%        |
| 50          | 25        | 0.91%         | 513.00            | 95.2%        |
| 10          | 100       | 1.78%         | 1,008.91          | 82.8%        |
| 10          | 50        | 1.14%         | 644.65            | 81.4%        |
| 10          | 25        | 0.91%         | 515.43            | 79.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-5550-KXX-4-DC+SI-F**

**IE2**

**EFFICIENCY:**

**97.9%**

Code

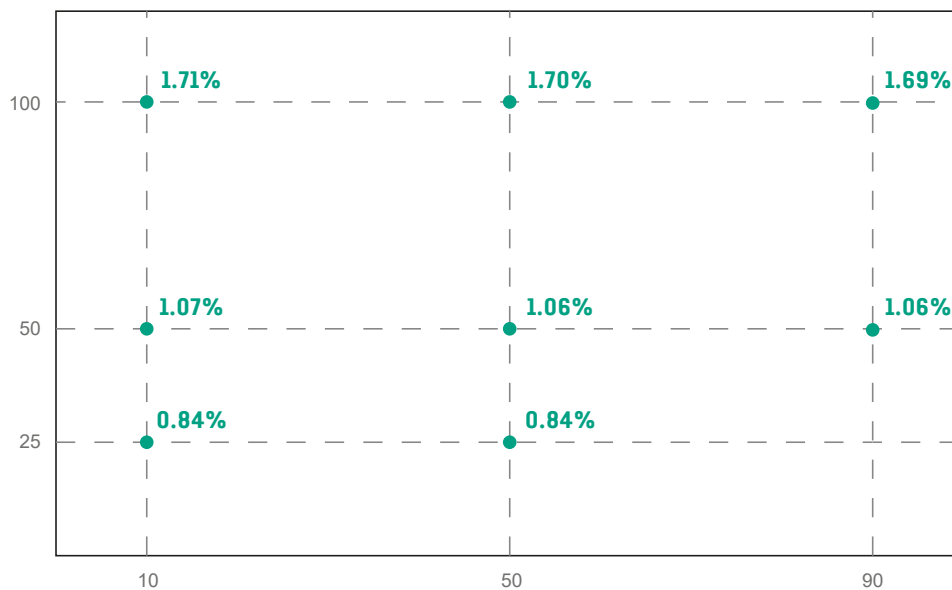
**S90V15DS**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>55</b>   |
| Nominal current                 | (A)   | <b>105</b>  |
| Nominal apparent power          | (kVA) | <b>68.4</b> |
| Standby loss                    | (W)   | <b>105</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.69%         | 1,159.06          | 97.9%        |
| 90          | 50        | 1.06%         | 721.68            | 97.7%        |
| 50          | 100       | 1.70%         | 1,163.36          | 96.2%        |
| 50          | 50        | 1.06%         | 725.40            | 95.9%        |
| 50          | 25        | 0.84%         | 573.33            | 95.6%        |
| 10          | 100       | 1.71%         | 1,167.66          | 83.4%        |
| 10          | 50        | 1.07%         | 729.13            | 82.4%        |
| 10          | 25        | 0.84%         | 576.36            | 81.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-5750-KXX-4-DC+SI-F**

**IE2**

**EFFICIENCY:**

**97.9%**

Code

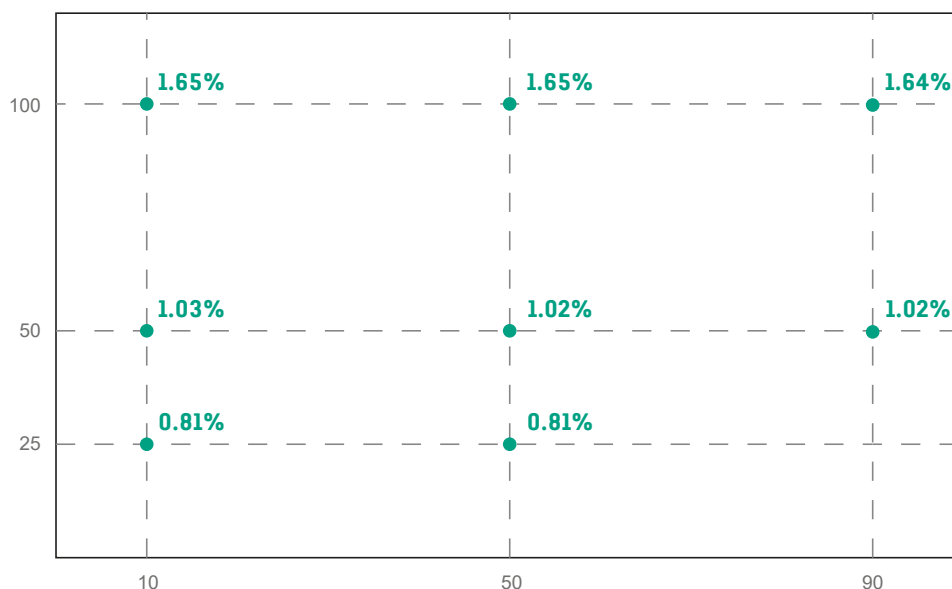
**S90V16DS**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>75</b>   |
| Nominal current                 | (A)   | <b>150</b>  |
| Nominal apparent power          | (kVA) | <b>97.7</b> |
| Standby loss                    | (W)   | <b>146</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.64%         | 1,605.22          | 97.9%        |
| 90          | 50        | 1.02%         | 995.04            | 97.8%        |
| 50          | 100       | 1.65%         | 1,609.76          | 96.3%        |
| 50          | 50        | 1.02%         | 999.82            | 96.1%        |
| 50          | 25        | 0.81%         | 787.07            | 95.7%        |
| 10          | 100       | 1.65%         | 1,614.30          | 83.9%        |
| 10          | 50        | 1.03%         | 1,004.60          | 82.9%        |
| 10          | 25        | 0.81%         | 791.13            | 81.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-5900-KXX-4-DC+SI-F**

**IE2**

**EFFICIENCY:**

**98.0%**

Code

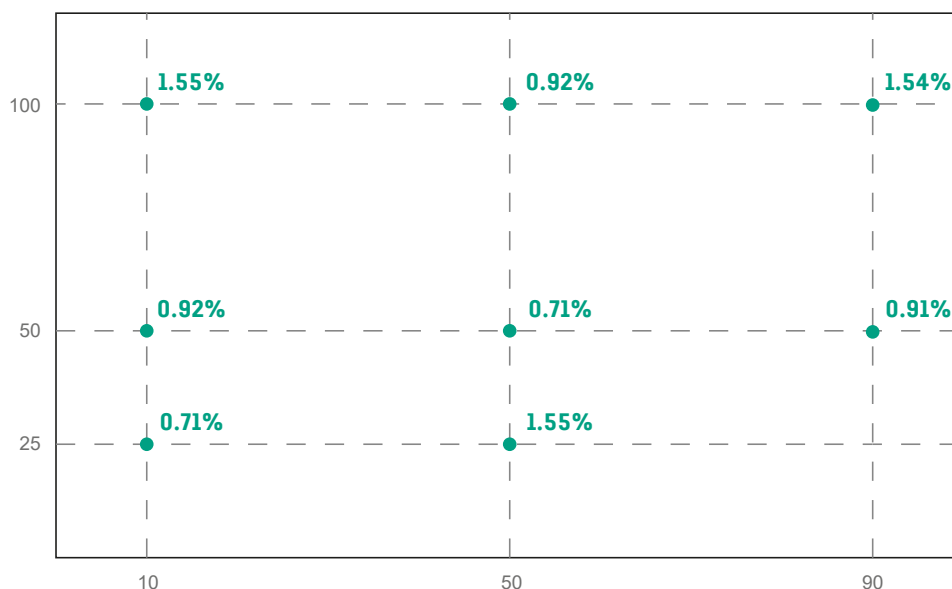
**S90V17DS**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>90</b>    |
| Nominal current                 | (A)   | <b>180</b>   |
| Nominal apparent power          | (kVA) | <b>117.2</b> |
| Standby loss                    | (W)   | <b>164</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.54%         | 1,804.95          | 98.0%        |
| 90          | 50        | 0.91%         | 1,069.46          | 98.0%        |
| 50          | 100       | 1.54%         | 1,809.44          | 96.5%        |
| 50          | 50        | 0.92%         | 1,074.87          | 96.5%        |
| 50          | 25        | 0.71%         | 827.44            | 96.2%        |
| 10          | 100       | 1.55%         | 1,813.92          | 84.8%        |
| 10          | 50        | 0.92%         | 1,080.28          | 84.4%        |
| 10          | 25        | 0.71%         | 832.14            | 83.6%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-61110-KXX-4-DC+SI-F**

**IE2**

**EFFICIENCY:**

**98.5%**

Code

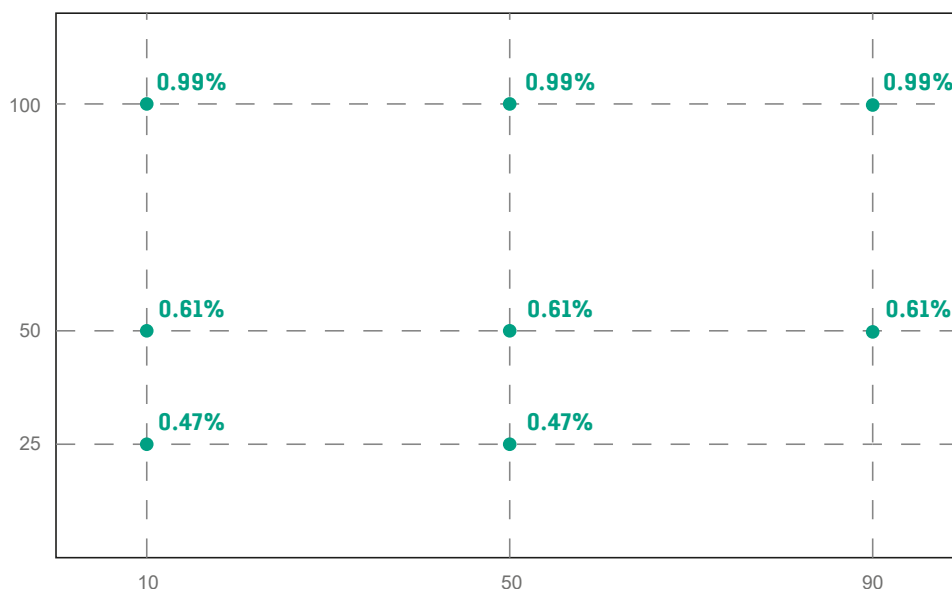
**S90V18DS**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>110</b>   |
| Nominal current                 | (A)   | <b>210</b>   |
| Nominal apparent power          | (kVA) | <b>162.8</b> |
| Standby loss                    | (W)   | <b>147</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 0.99%         | 1,618.31          | 98.5%        |
| 90          | 50        | 0.61%         | 987.24            | 98.4%        |
| 50          | 100       | 0.99%         | 1,614.53          | 97.3%        |
| 50          | 50        | 0.61%         | 986.43            | 97.2%        |
| 50          | 25        | 0.47%         | 768.92            | 97.0%        |
| 10          | 100       | 0.99%         | 1,610.74          | 88.0%        |
| 10          | 50        | 0.61%         | 985.61            | 87.4%        |
| 10          | 25        | 0.47%         | 768.71            | 86.5%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV-61320-KXX-4-DC+SI-F**

**IE2** EFFICIENCY: **98.5%**

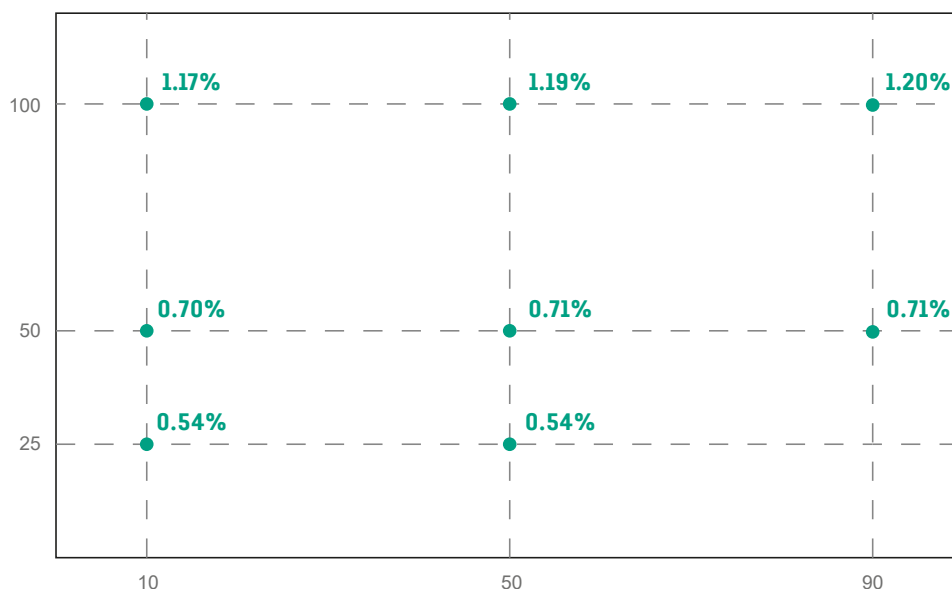
Code **S90V19DS**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>132</b>   |
| Nominal current                 | (A)   | <b>250</b>   |
| Nominal apparent power          | (kVA) | <b>162.8</b> |
| Standby loss                    | (W)   | <b>178</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.20%         | 1,960.18          | 98.5%        |
| 90          | 50        | 0.71%         | 1,159.24          | 98.4%        |
| 50          | 100       | 1.19%         | 1,935.68          | 97.3%        |
| 50          | 50        | 0.71%         | 1,151.55          | 97.2%        |
| 50          | 25        | 0.54%         | 887.25            | 97.1%        |
| 10          | 100       | 1.17%         | 1,911.19          | 88.0%        |
| 10          | 50        | 0.70%         | 1,143.85          | 87.7%        |
| 10          | 25        | 0.54%         | 883.47            | 86.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-71600-KXX-4-DC+SI-F**

**IE2**

**EFFICIENCY:**

**98.4%**

Code

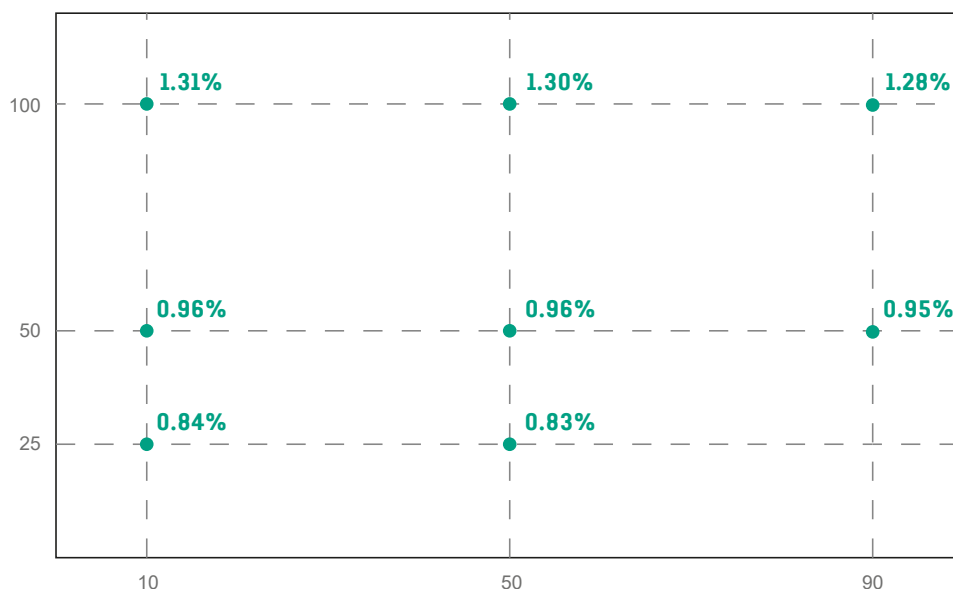
**S90V20DS**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>160</b>   |
| Nominal current                 | (A)   | <b>300</b>   |
| Nominal apparent power          | (kVA) | <b>195.4</b> |
| Standby loss                    | (W)   | <b>228</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.28%         | 2,508.86          | 98.4%        |
| 90          | 50        | 0.95%         | 1,856.00          | 97.9%        |
| 50          | 100       | 1.30%         | 2,530.22          | 97.1%        |
| 50          | 50        | 0.96%         | 1,869.70          | 96.3%        |
| 50          | 25        | 0.83%         | 1,622.86          | 95.6%        |
| 10          | 100       | 1.31%         | 2,551.59          | 86.8%        |
| 10          | 50        | 0.96%         | 1,883.39          | 83.8%        |
| 10          | 25        | 0.84%         | 1,633.14          | 81.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV-72000-KXX-4-DC+SI-F**

**IE2** EFFICIENCY: **98.5%**

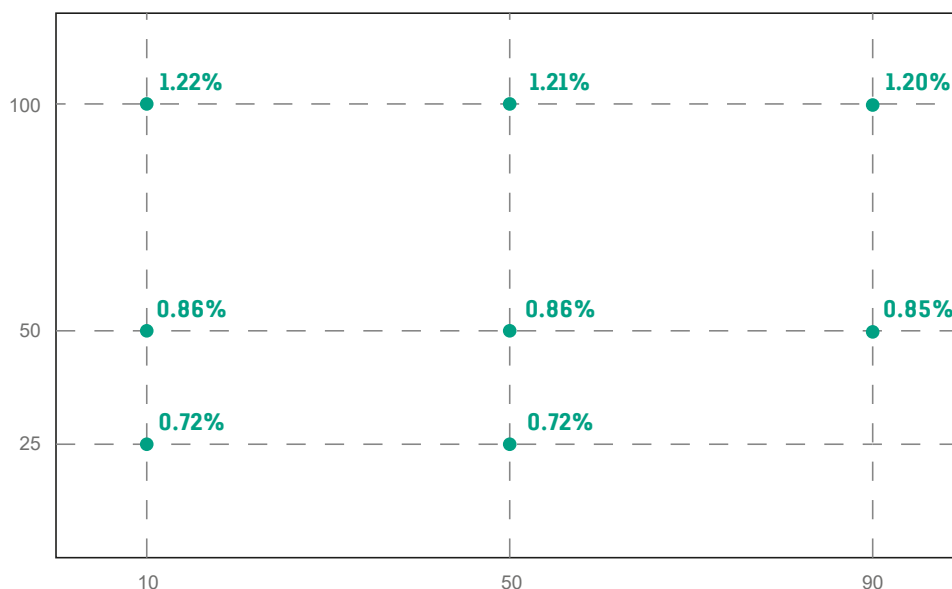
Code **S90V2IDS**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>200</b>   |
| Nominal current                 | (A)   | <b>385</b>   |
| Nominal apparent power          | (kVA) | <b>250.7</b> |
| Standby loss                    | (W)   | <b>274</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.20%         | 3,012.78          | 98.5%        |
| 90          | 50        | 0.85%         | 2,127.85          | 98.1%        |
| 50          | 100       | 1.21%         | 3,040.07          | 97.3%        |
| 50          | 50        | 0.86%         | 2,144.46          | 96.6%        |
| 50          | 25        | 0.72%         | 1,804.26          | 95.9%        |
| 10          | 100       | 1.22%         | 3,067.36          | 87.7%        |
| 10          | 50        | 0.86%         | 2,161.08          | 85.0%        |
| 10          | 25        | 0.72%         | 1,816.18          | 82.4%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV-72500-KXX-4-DC+SI-F**

**IE2** EFFICIENCY: **98.4%**

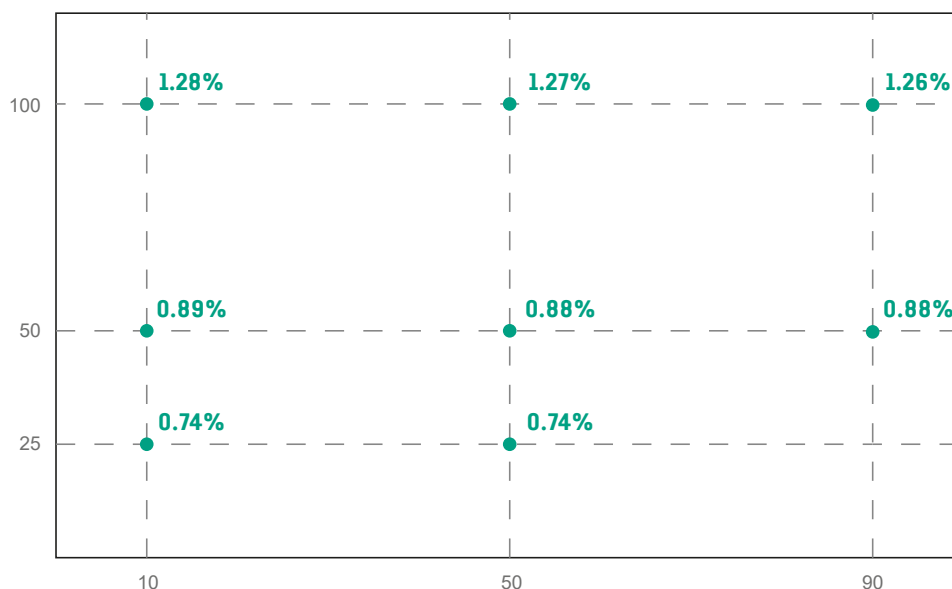
Code **S90V22DS**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>250</b>   |
| Nominal current                 | (A)   | <b>460</b>   |
| Nominal apparent power          | (kVA) | <b>299.6</b> |
| Standby loss                    | (W)   | <b>458</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.26%         | 3,762.48          | 98.4%        |
| 90          | 50        | 0.88%         | 2,624.74          | 98.0%        |
| 50          | 100       | 1.27%         | 3,791.77          | 97.2%        |
| 50          | 50        | 0.88%         | 2,643.55          | 96.5%        |
| 50          | 25        | 0.74%         | 2,208.73          | 95.8%        |
| 10          | 100       | 1.28%         | 3,821.05          | 87.2%        |
| 10          | 50        | 0.89%         | 2,662.35          | 84.6%        |
| 10          | 25        | 0.74%         | 2,222.48          | 82.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-73150-KXX-4-DC+SI-F**

**IE2**

**EFFICIENCY:**

**98.5%**

Code

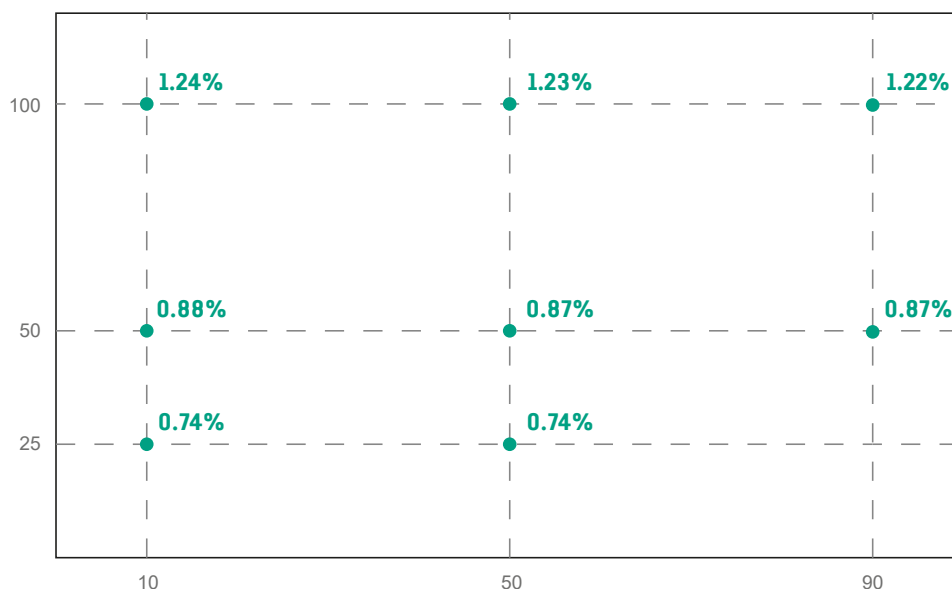
**S90V23DS**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>315</b>   |
| Nominal current                 | (A)   | <b>590</b>   |
| Nominal apparent power          | (kVA) | <b>384.2</b> |
| Standby loss                    | (W)   | <b>426</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.22%         | 4,681.05          | 98.5%        |
| 90          | 50        | 0.87%         | 3,332.18          | 98.1%        |
| 50          | 100       | 1.23%         | 4,724.27          | 97.3%        |
| 50          | 50        | 0.87%         | 3,358.83          | 96.5%        |
| 50          | 25        | 0.74%         | 2,841.53          | 95.8%        |
| 10          | 100       | 1.24%         | 4,767.48          | 87.5%        |
| 10          | 50        | 0.88%         | 3,385.47          | 84.7%        |
| 10          | 25        | 0.74%         | 2,860.74          | 82.0%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV-73150-KXX-4A-DC+SI-F**

**IE2** EFFICIENCY: **98.5%**

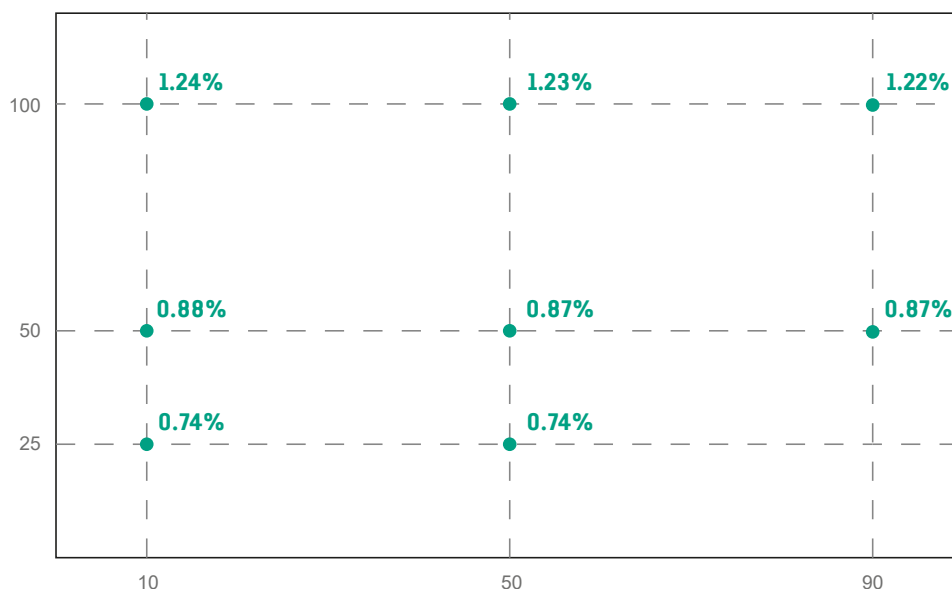
Code **S90V25DS**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>460</b>   |
| Motor Power output              | (kW)  | <b>315</b>   |
| Nominal current                 | (A)   | <b>590</b>   |
| Nominal apparent power          | (kVA) | <b>384.2</b> |
| Standby loss                    | (W)   | <b>426</b>   |
| Nominal apparent frequency      | (Hz)  | <b>60</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.22%         | 4,681.05          | 98.5%        |
| 90          | 50        | 0.87%         | 3,332.18          | 98.1%        |
| 50          | 100       | 1.23%         | 4,724.27          | 97.3%        |
| 50          | 50        | 0.87%         | 3,358.83          | 96.5%        |
| 50          | 25        | 0.74%         | 2,841.53          | 95.8%        |
| 10          | 100       | 1.24%         | 4,767.48          | 87.5%        |
| 10          | 50        | 0.88%         | 3,385.47          | 84.7%        |
| 10          | 25        | 0.74%         | 2,860.74          | 82.0%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-73550-KXX-4-DC+SI-F**

**IE2**

**EFFICIENCY:**

**98.5%**

Code

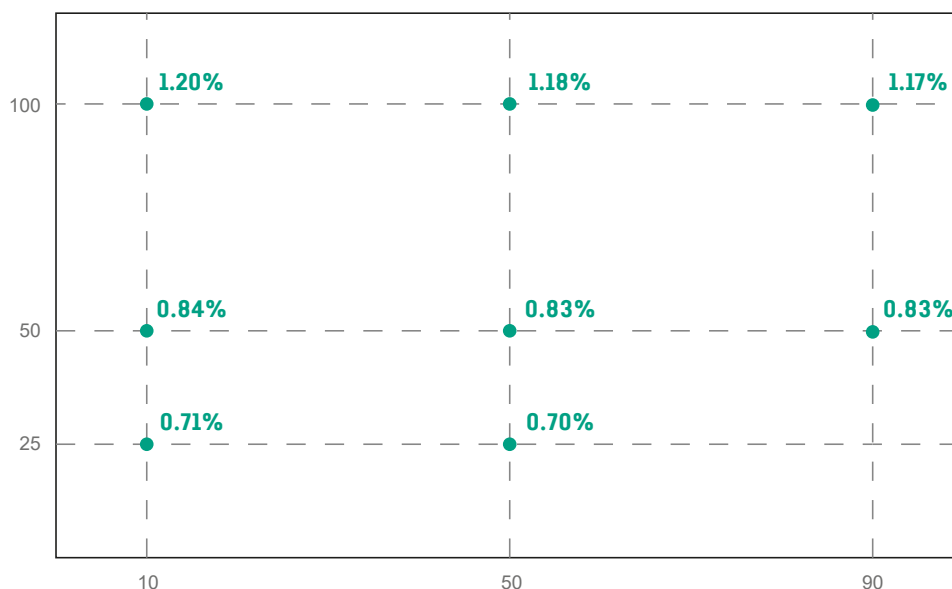
**S90V24DS**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>355</b>   |
| Nominal current                 | (A)   | <b>650</b>   |
| Nominal apparent power          | (kVA) | <b>423.3</b> |
| Standby loss                    | (W)   | <b>451</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.17%         | 4,959.32          | 98.5%        |
| 90          | 50        | 0.83%         | 3,502.32          | 98.1%        |
| 50          | 100       | 1.18%         | 5,010.05          | 97.4%        |
| 50          | 50        | 0.83%         | 3,532.65          | 96.7%        |
| 50          | 25        | 0.70%         | 2,970.72          | 96.0%        |
| 10          | 100       | 1.20%         | 5,060.78          | 87.9%        |
| 10          | 50        | 0.84%         | 3,562.99          | 85.3%        |
| 10          | 25        | 0.71%         | 2,992.36          | 82.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV-73550-KXX-4A-DC+SI-F**

**IE2** EFFICIENCY: **98.5%**

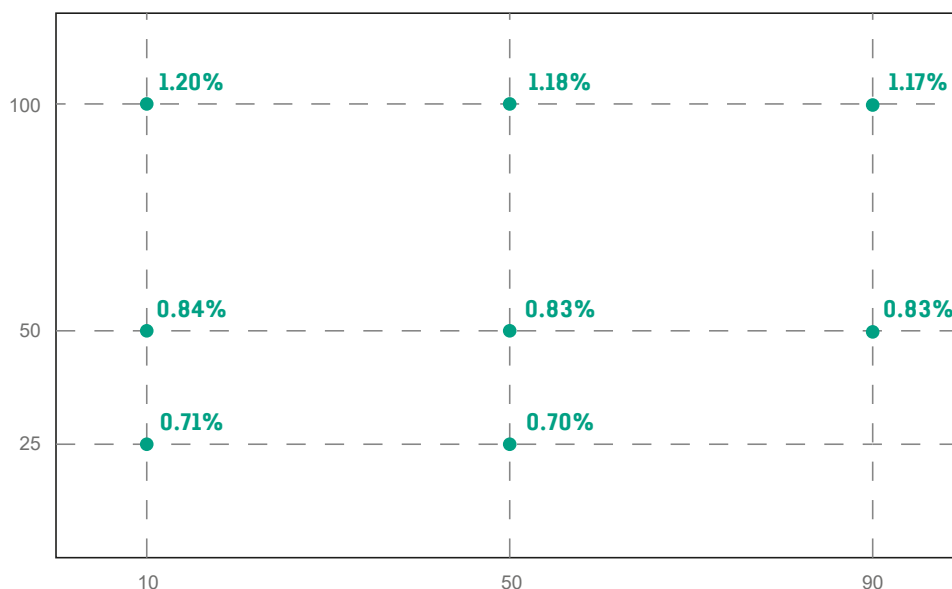
Code **S90V26DS**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>460</b>   |
| Motor Power output              | (kW)  | <b>355</b>   |
| Nominal current                 | (A)   | <b>650</b>   |
| Nominal apparent power          | (kVA) | <b>423.3</b> |
| Standby loss                    | (W)   | <b>451</b>   |
| Nominal apparent frequency      | (Hz)  | <b>60</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.17%         | 4,959.32          | 98.5%        |
| 90          | 50        | 0.83%         | 3,502.32          | 98.1%        |
| 50          | 100       | 1.18%         | 5,010.05          | 97.4%        |
| 50          | 50        | 0.83%         | 3,532.65          | 96.7%        |
| 50          | 25        | 0.70%         | 2,970.72          | 96.0%        |
| 10          | 100       | 1.20%         | 5,060.78          | 87.9%        |
| 10          | 50        | 0.84%         | 3,562.99          | 85.3%        |
| 10          | 25        | 0.71%         | 2,992.36          | 82.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-73551-KXX-4-DC+SI-F**

**IE2**

**EFFICIENCY:**

**98.5%**

Code

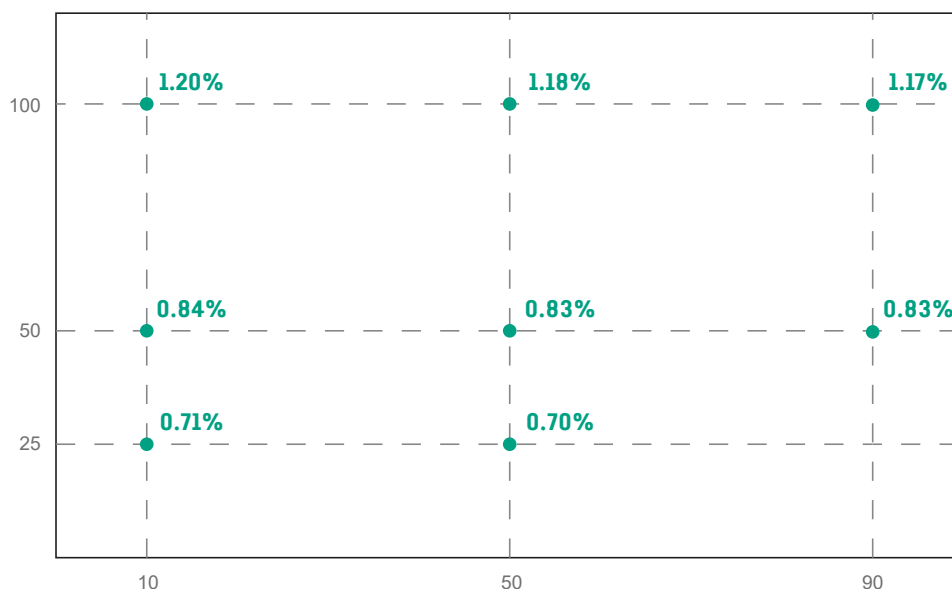
**S90V32DS**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>355</b>   |
| Nominal current                 | (A)   | <b>650</b>   |
| Nominal apparent power          | (kVA) | <b>423.3</b> |
| Standby loss                    | (W)   | <b>451</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.17%         | 4,959.32          | 98.5%        |
| 90          | 50        | 0.83%         | 3,502.32          | 98.1%        |
| 50          | 100       | 1.18%         | 5,010.05          | 97.4%        |
| 50          | 50        | 0.83%         | 3,532.65          | 96.7%        |
| 50          | 25        | 0.70%         | 2,970.72          | 96.0%        |
| 10          | 100       | 1.20%         | 5,060.78          | 87.9%        |
| 10          | 50        | 0.84%         | 3,562.99          | 85.3%        |
| 10          | 25        | 0.71%         | 2,992.36          | 82.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ADV200-DC, STANDARD + Safety Card Category SIL3

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# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV-3185-KXX-4-DC+SI**

**IE2** EFFICIENCY: **97.7%**

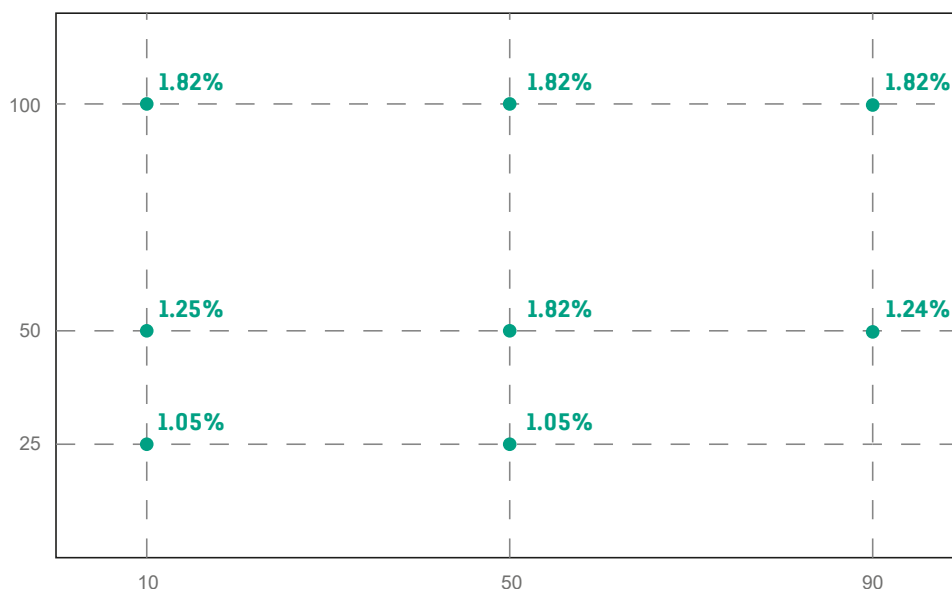
Code **S9010DS**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>18.5</b>  |
| Nominal current                 | (A)   | <b>38</b>    |
| Nominal apparent power          | (kVA) | <b>24.75</b> |
| Standby loss                    | (W)   | <b>41.1</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.82%         | 450.74            | 97.7%        |
| 90          | 50        | 1.24%         | 307.70            | 97.4%        |
| 50          | 100       | 1.82%         | 450.07            | 95.9%        |
| 50          | 50        | 1.25%         | 308.26            | 95.3%        |
| 50          | 25        | 1.05%         | 258.79            | 94.8%        |
| 10          | 100       | 1.82%         | 449.40            | 82.4%        |
| 10          | 50        | 1.25%         | 308.82            | 80.3%        |
| 10          | 25        | 1.05%         | 259.48            | 78.5%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-3220-KXX-4-DC+SI**

**IE2**

**EFFICIENCY:**

**97.5%**

Code

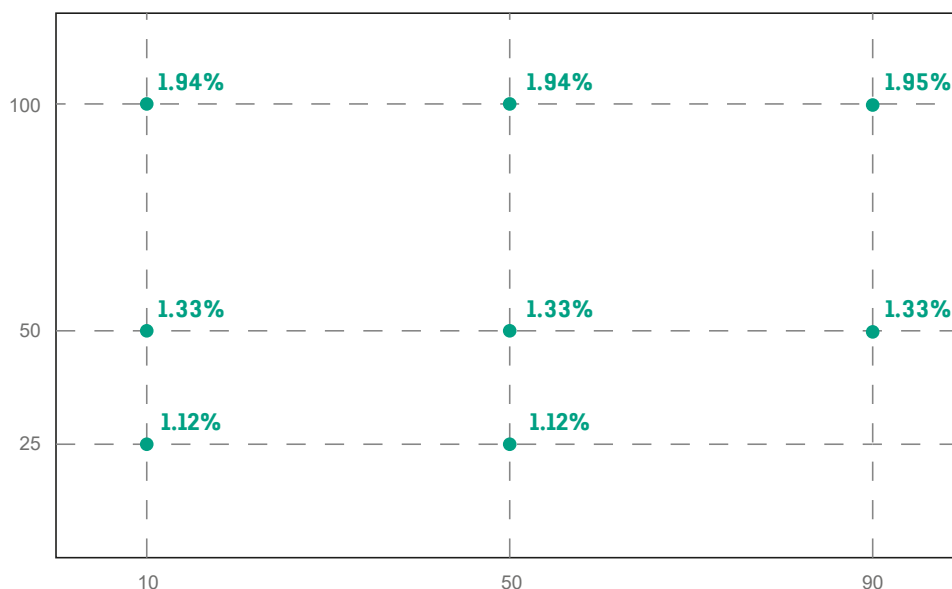
**S9011DS**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>22</b>  |
| Nominal current                 | (A)   | <b>46</b>  |
| Nominal apparent power          | (kVA) | <b>30</b>  |
| Standby loss                    | (W)   | <b>69</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.95%         | 583.20            | 97.5%        |
| 90          | 50        | 1.33%         | 398.39            | 97.2%        |
| 50          | 100       | 1.94%         | 582.39            | 95.6%        |
| 50          | 50        | 1.33%         | 399.07            | 95.0%        |
| 50          | 25        | 1.12%         | 334.25            | 94.5%        |
| 10          | 100       | 1.94%         | 581.58            | 81.4%        |
| 10          | 50        | 1.33%         | 399.75            | 79.3%        |
| 10          | 25        | 1.12%         | 335.08            | 77.4%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4300-KXX-4-DC+SI**

**IE2**

**EFFICIENCY:**

**97.9%**

Code

**S9012DS**

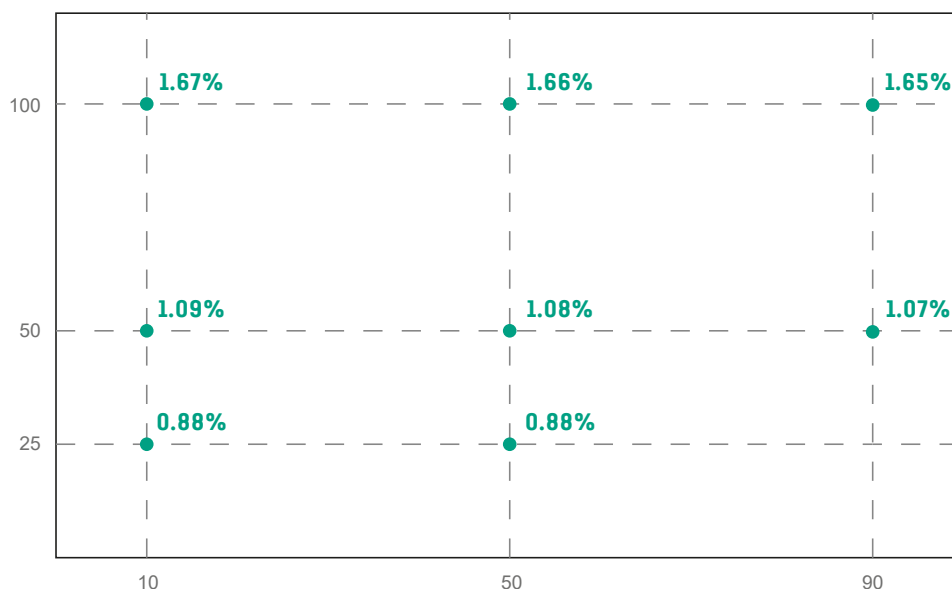
**R9012DS**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>30</b>   |
| Nominal current                 | (A)   | <b>62</b>   |
| Nominal apparent power          | (kVA) | <b>40.4</b> |
| Standby loss                    | (W)   | <b>61</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.65%         | 667.74            | 97.9%        |
| 90          | 50        | 1.07%         | 433.62            | 97.6%        |
| 50          | 100       | 1.66%         | 670.57            | 96.2%        |
| 50          | 50        | 1.08%         | 435.90            | 95.8%        |
| 50          | 25        | 0.88%         | 354.23            | 95.3%        |
| 10          | 100       | 1.67%         | 673.41            | 83.6%        |
| 10          | 50        | 1.09%         | 438.18            | 82.0%        |
| 10          | 25        | 0.88%         | 356.06            | 80.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV-4370-KXX-4-DC+SI**

**IE2** EFFICIENCY: **98.0%**

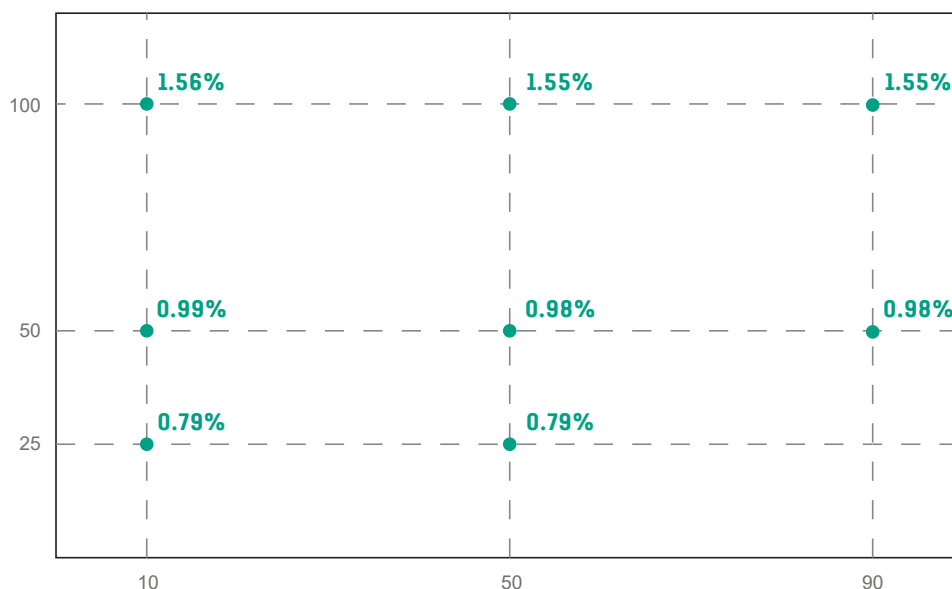
Code **S9013DS**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>37</b>   |
| Nominal current                 | (A)   | <b>75</b>   |
| Nominal apparent power          | (kVA) | <b>48.8</b> |
| Standby loss                    | (W)   | <b>69</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.55%         | 756.46            | 98.0%        |
| 90          | 50        | 0.98%         | 476.92            | 97.8%        |
| 50          | 100       | 1.55%         | 759.50            | 96.5%        |
| 50          | 50        | 0.98%         | 479.55            | 96.2%        |
| 50          | 25        | 0.79%         | 384.06            | 95.8%        |
| 10          | 100       | 1.56%         | 762.53            | 84.5%        |
| 10          | 50        | 0.99%         | 482.17            | 83.3%        |
| 10          | 25        | 0.79%         | 386.21            | 81.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-4450-KXX-4-DC+SI**

**IE2**

**EFFICIENCY:**

**97.8%**

Code

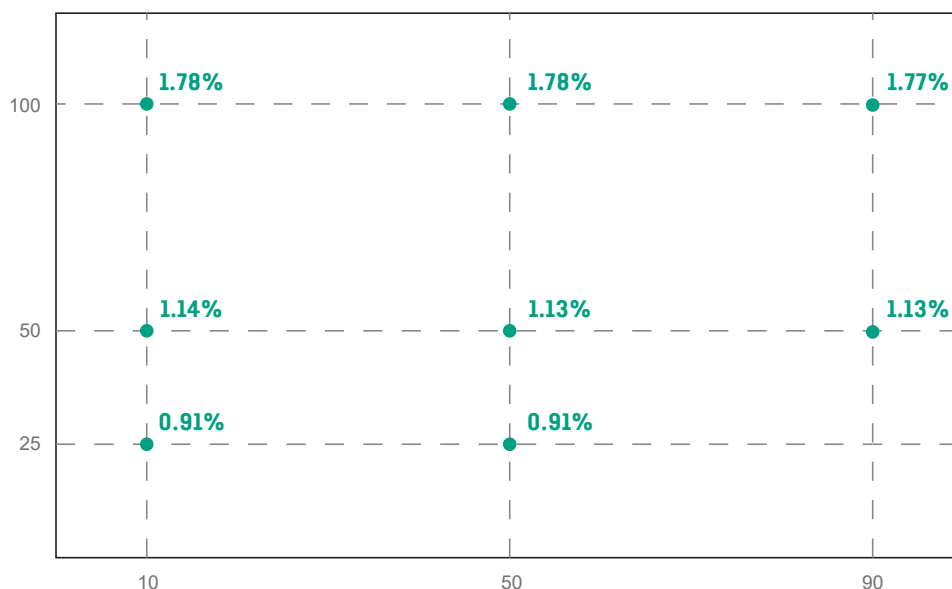
**S9014DS**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>45</b>   |
| Nominal current                 | (A)   | <b>87</b>   |
| Nominal apparent power          | (kVA) | <b>56.7</b> |
| Standby loss                    | (W)   | <b>91</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.77%         | 1,002.72          | 97.8%        |
| 90          | 50        | 1.13%         | 638.79            | 97.6%        |
| 50          | 100       | 1.78%         | 1,005.81          | 96.0%        |
| 50          | 50        | 1.13%         | 641.72            | 95.7%        |
| 50          | 25        | 0.91%         | 513.00            | 95.2%        |
| 10          | 100       | 1.78%         | 1,008.91          | 82.8%        |
| 10          | 50        | 1.14%         | 644.65            | 81.4%        |
| 10          | 25        | 0.91%         | 515.43            | 79.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV-5550-KXX-4-DC+SI**

**IE2** EFFICIENCY: **97.9%**

Code **S9015DS**

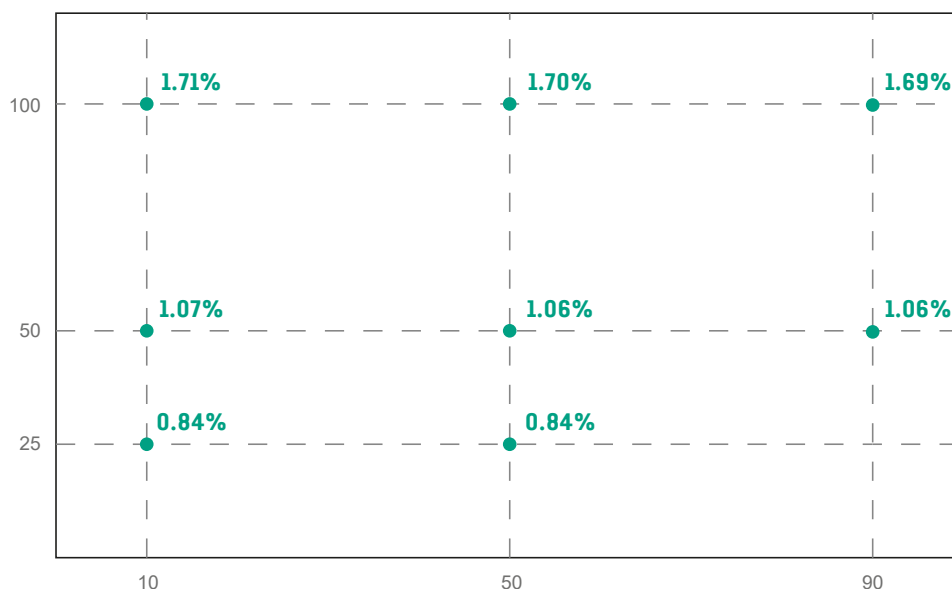
**R9015DS**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>55</b>   |
| Nominal current                 | (A)   | <b>105</b>  |
| Nominal apparent power          | (kVA) | <b>68.4</b> |
| Standby loss                    | (W)   | <b>105</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.69%         | 1,159.06          | 97.9%        |
| 90          | 50        | 1.06%         | 721.68            | 97.7%        |
| 50          | 100       | 1.70%         | 1,163.36          | 96.2%        |
| 50          | 50        | 1.06%         | 725.40            | 95.9%        |
| 50          | 25        | 0.84%         | 573.33            | 95.6%        |
| 10          | 100       | 1.71%         | 1,167.66          | 83.4%        |
| 10          | 50        | 1.07%         | 729.13            | 82.4%        |
| 10          | 25        | 0.84%         | 576.36            | 81.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-5750-KXX-4-DC+SI**

**IE2**

**EFFICIENCY:**

**97.9%**

Code

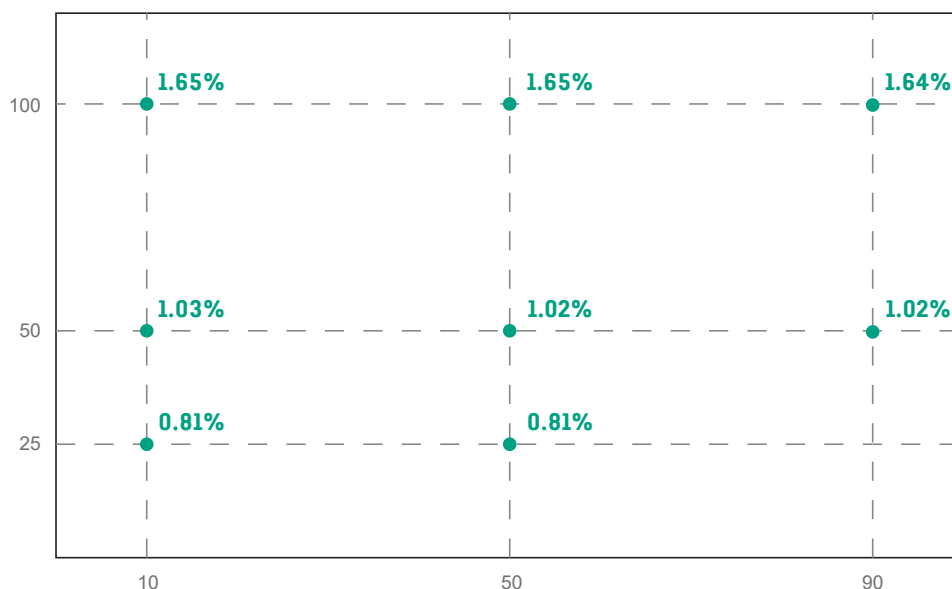
**S9016DS**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>75</b>   |
| Nominal current                 | (A)   | <b>150</b>  |
| Nominal apparent power          | (kVA) | <b>97.7</b> |
| Standby loss                    | (W)   | <b>146</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.64%         | 1,605.22          | 97.9%        |
| 90          | 50        | 1.02%         | 995.04            | 97.8%        |
| 50          | 100       | 1.65%         | 1,609.76          | 96.3%        |
| 50          | 50        | 1.02%         | 999.82            | 96.1%        |
| 50          | 25        | 0.81%         | 787.07            | 95.7%        |
| 10          | 100       | 1.65%         | 1,614.30          | 83.9%        |
| 10          | 50        | 1.03%         | 1,004.60          | 82.9%        |
| 10          | 25        | 0.81%         | 791.13            | 81.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV-5900-KXX-4-DC+SI**

**IE2** EFFICIENCY: **98.0%**

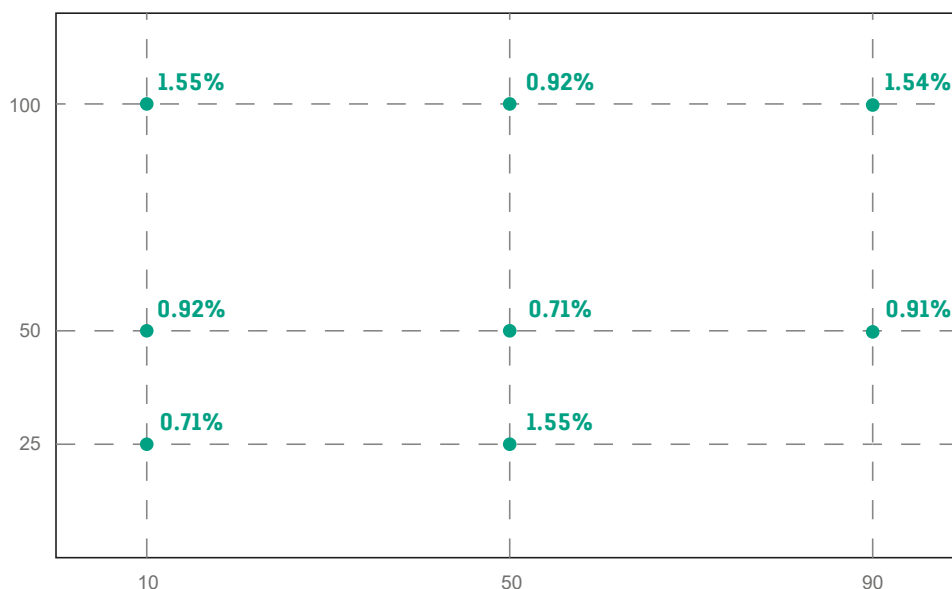
Code **S9017DS**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>90</b>    |
| Nominal current                 | (A)   | <b>180</b>   |
| Nominal apparent power          | (kVA) | <b>117.2</b> |
| Standby loss                    | (W)   | <b>164</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.54%         | 1,804.95          | 98.0%        |
| 90          | 50        | 0.91%         | 1,069.46          | 98.0%        |
| 50          | 100       | 1.54%         | 1,809.44          | 96.5%        |
| 50          | 50        | 0.92%         | 1,074.87          | 96.5%        |
| 50          | 25        | 0.71%         | 827.44            | 96.2%        |
| 10          | 100       | 1.55%         | 1,813.92          | 84.8%        |
| 10          | 50        | 0.92%         | 1,080.28          | 84.4%        |
| 10          | 25        | 0.71%         | 832.14            | 83.6%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-61110-KXX-4-DC+SI**

**IE2**

**EFFICIENCY:**

**98.5%**

Code

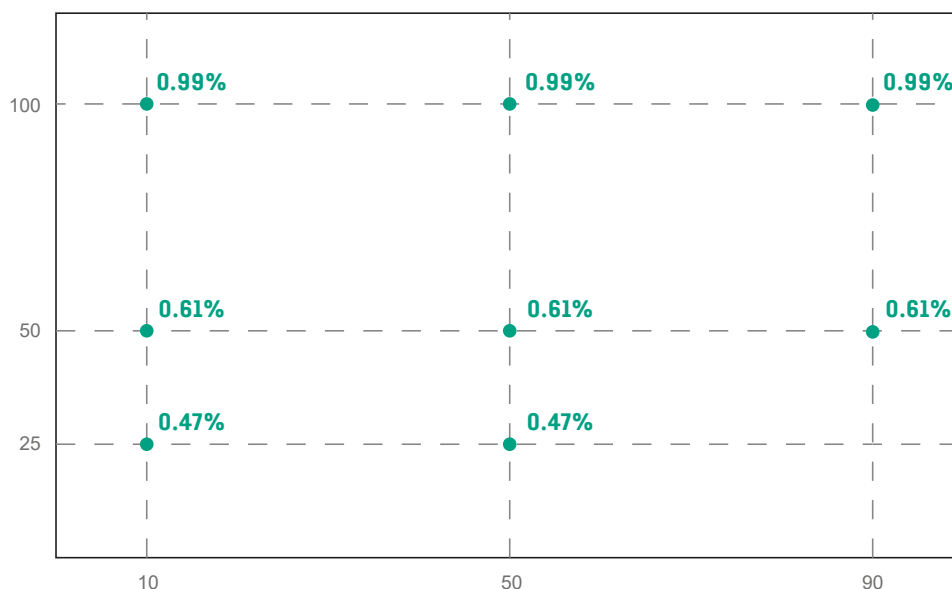
**S9018DS**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>110</b>   |
| Nominal current                 | (A)   | <b>210</b>   |
| Nominal apparent power          | (kVA) | <b>162.8</b> |
| Standby loss                    | (W)   | <b>147</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 0.99%         | 1,618.31          | 98.5%        |
| 90          | 50        | 0.61%         | 987.24            | 98.4%        |
| 50          | 100       | 0.99%         | 1,614.53          | 97.3%        |
| 50          | 50        | 0.61%         | 986.43            | 97.2%        |
| 50          | 25        | 0.47%         | 768.92            | 97.0%        |
| 10          | 100       | 0.99%         | 1,610.74          | 88.0%        |
| 10          | 50        | 0.61%         | 985.61            | 87.4%        |
| 10          | 25        | 0.47%         | 768.71            | 86.5%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV-61320-KXX-4-DC+SI**

**IE2** EFFICIENCY: **98.5%**

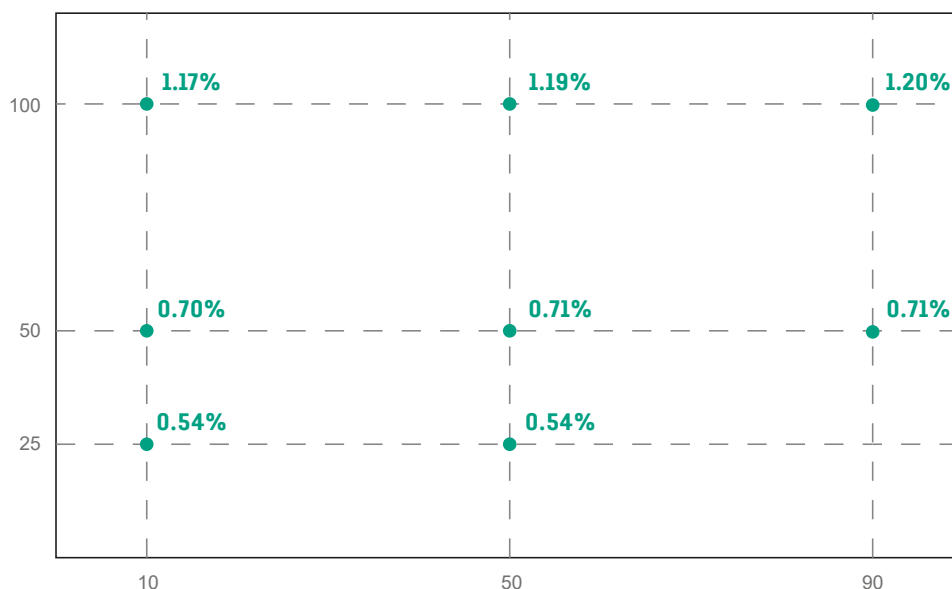
Code **S9019DS**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>132</b>   |
| Nominal current                 | (A)   | <b>250</b>   |
| Nominal apparent power          | (kVA) | <b>162.8</b> |
| Standby loss                    | (W)   | <b>178</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.20%         | 1,960.18          | 98.5%        |
| 90          | 50        | 0.71%         | 1,159.24          | 98.4%        |
| 50          | 100       | 1.19%         | 1,935.68          | 97.3%        |
| 50          | 50        | 0.71%         | 1,151.55          | 97.2%        |
| 50          | 25        | 0.54%         | 887.25            | 97.1%        |
| 10          | 100       | 1.17%         | 1,911.19          | 88.0%        |
| 10          | 50        | 0.70%         | 1,143.85          | 87.7%        |
| 10          | 25        | 0.54%         | 883.47            | 86.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-71600-KXX-4-DC+SI**

**IE2**

**EFFICIENCY:**

**98.4%**

Code

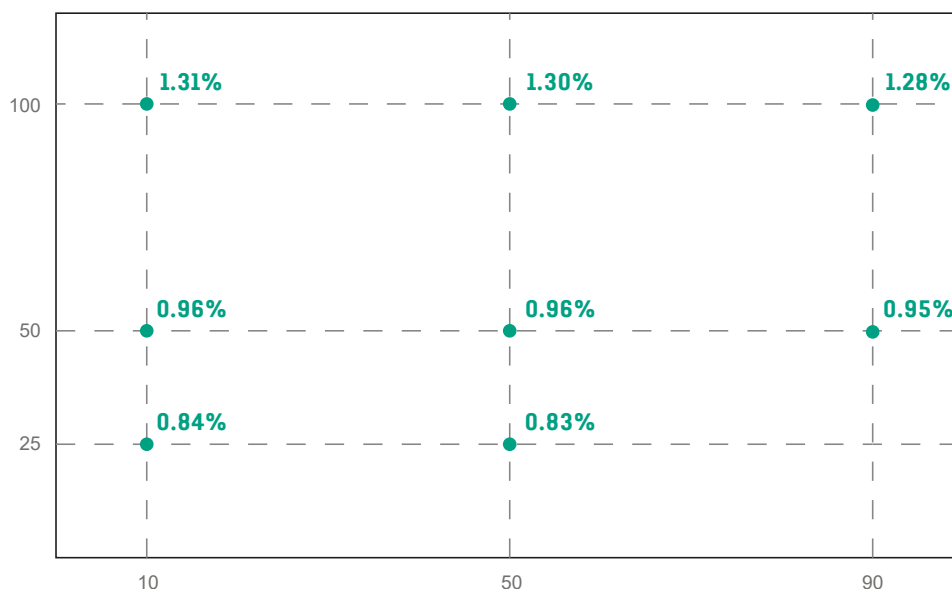
**S9020DS**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>160</b>   |
| Nominal current                 | (A)   | <b>300</b>   |
| Nominal apparent power          | (kVA) | <b>195.4</b> |
| Standby loss                    | (W)   | <b>228</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.28%         | 2,508.86          | 98.4%        |
| 90          | 50        | 0.95%         | 1,856.00          | 97.9%        |
| 50          | 100       | 1.30%         | 2,530.22          | 97.1%        |
| 50          | 50        | 0.96%         | 1,869.70          | 96.3%        |
| 50          | 25        | 0.83%         | 1,622.86          | 95.6%        |
| 10          | 100       | 1.31%         | 2,551.59          | 86.8%        |
| 10          | 50        | 0.96%         | 1,883.39          | 83.8%        |
| 10          | 25        | 0.84%         | 1,633.14          | 81.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-72000-KXX-4-DC+SI**

**IE2**

**EFFICIENCY:**

**98.5%**

Code

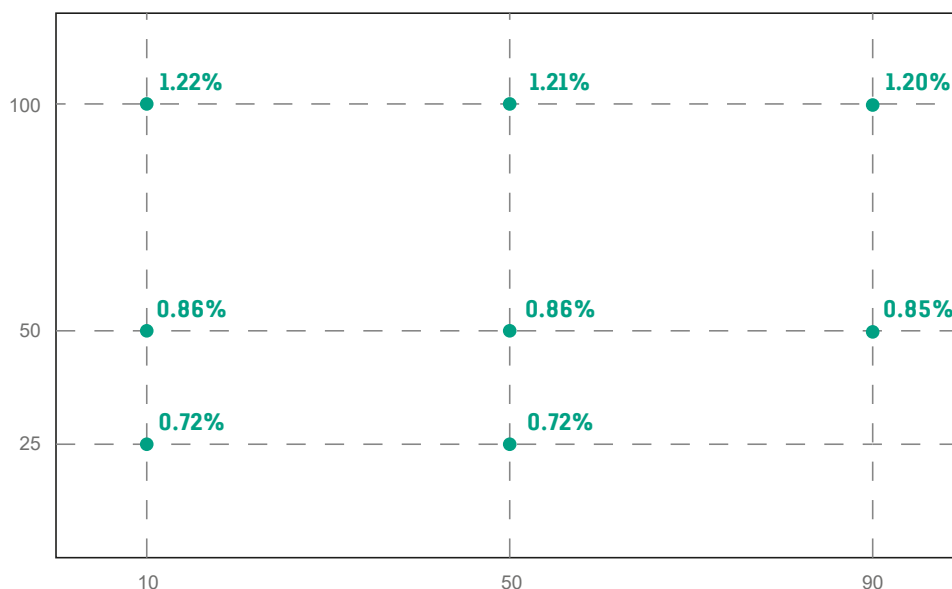
**S902IDS**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>200</b>   |
| Nominal current                 | (A)   | <b>385</b>   |
| Nominal apparent power          | (kVA) | <b>250.7</b> |
| Standby loss                    | (W)   | <b>274</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.20%         | 3,012.78          | 98.5%        |
| 90          | 50        | 0.85%         | 2,127.85          | 98.1%        |
| 50          | 100       | 1.21%         | 3,040.07          | 97.3%        |
| 50          | 50        | 0.86%         | 2,144.46          | 96.6%        |
| 50          | 25        | 0.72%         | 1,804.26          | 95.9%        |
| 10          | 100       | 1.22%         | 3,067.36          | 87.7%        |
| 10          | 50        | 0.86%         | 2,161.08          | 85.0%        |
| 10          | 25        | 0.72%         | 1,816.18          | 82.4%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV-72500-KXX-4-DC+SI**

**IE2**

**EFFICIENCY:**

**98.4%**

Code

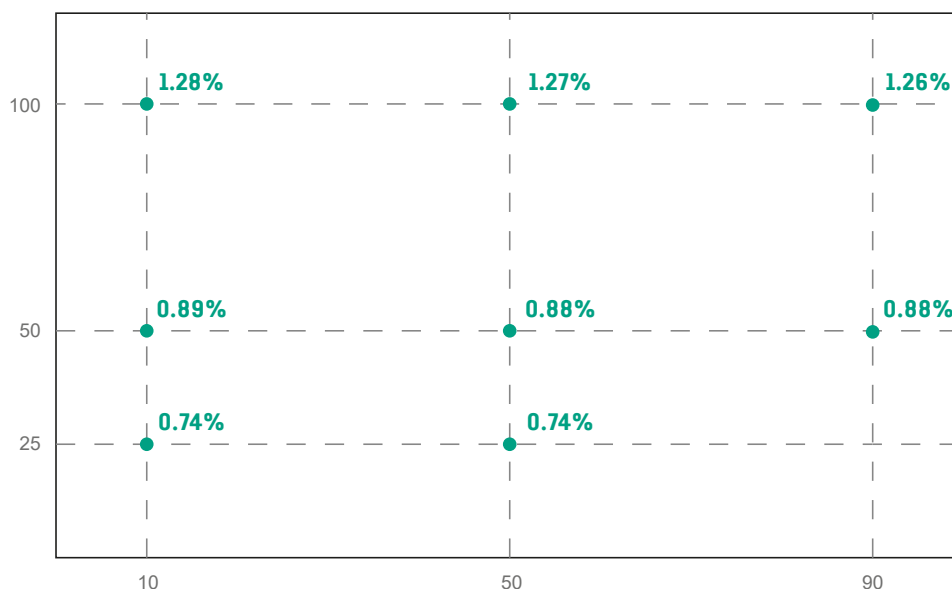
**S9022DS**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>250</b>   |
| Nominal current                 | (A)   | <b>460</b>   |
| Nominal apparent power          | (kVA) | <b>299.6</b> |
| Standby loss                    | (W)   | <b>458</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.26%         | 3,762.48          | 98.4%        |
| 90          | 50        | 0.88%         | 2,624.74          | 98.0%        |
| 50          | 100       | 1.27%         | 3,791.77          | 97.2%        |
| 50          | 50        | 0.88%         | 2,643.55          | 96.5%        |
| 50          | 25        | 0.74%         | 2,208.73          | 95.8%        |
| 10          | 100       | 1.28%         | 3,821.05          | 87.2%        |
| 10          | 50        | 0.89%         | 2,662.35          | 84.6%        |
| 10          | 25        | 0.74%         | 2,222.48          | 82.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV-73150-KXX-4-DC+SI**

**IE2** EFFICIENCY: **98.5%**

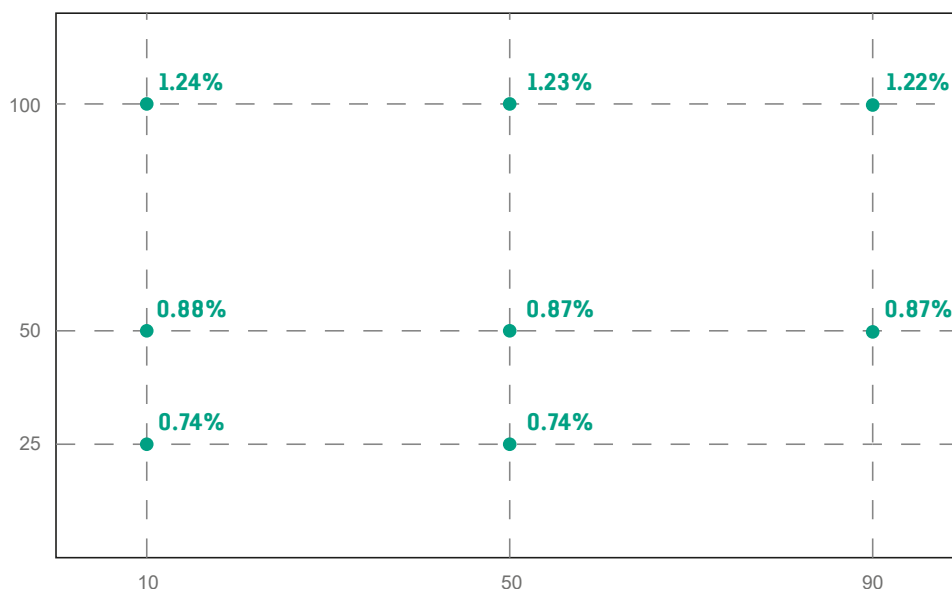
Code **S9023DS**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>315</b>   |
| Nominal current                 | (A)   | <b>590</b>   |
| Nominal apparent power          | (kVA) | <b>384.2</b> |
| Standby loss                    | (W)   | <b>426</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.22%         | 4,681.05          | 98.5%        |
| 90          | 50        | 0.87%         | 3,332.18          | 98.1%        |
| 50          | 100       | 1.23%         | 4,724.27          | 97.3%        |
| 50          | 50        | 0.87%         | 3,358.83          | 96.5%        |
| 50          | 25        | 0.74%         | 2,841.53          | 95.8%        |
| 10          | 100       | 1.24%         | 4,767.48          | 87.5%        |
| 10          | 50        | 0.88%         | 3,385.47          | 84.7%        |
| 10          | 25        | 0.74%         | 2,860.74          | 82.0%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV-73551-KXX-4-DC+SI**

**IE2** EFFICIENCY: **98.5%**

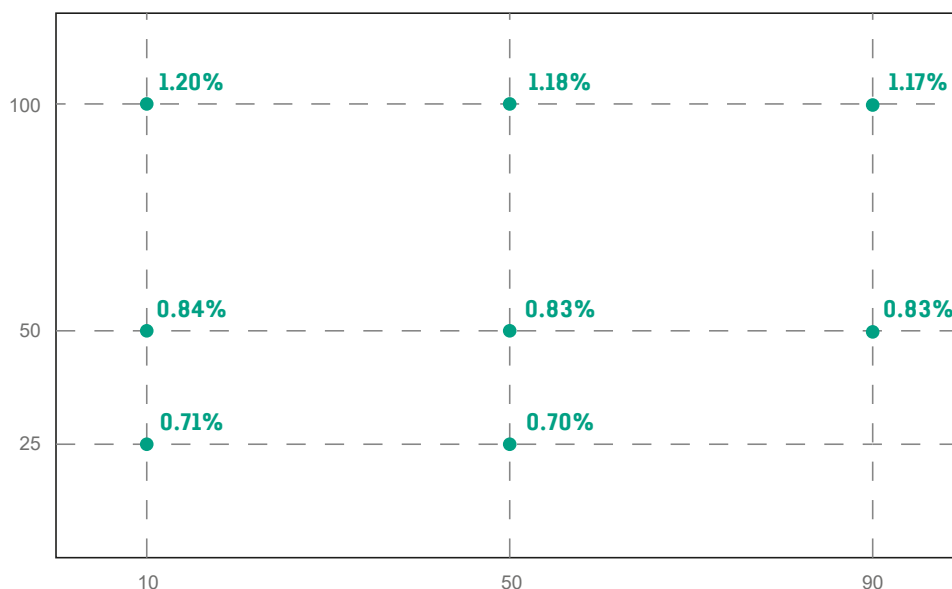
Code **S9032DS**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>355</b>   |
| Nominal current                 | (A)   | <b>650</b>   |
| Nominal apparent power          | (kVA) | <b>423.3</b> |
| Standby loss                    | (W)   | <b>451</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.17%         | 4,959.32          | 98.5%        |
| 90          | 50        | 0.83%         | 3,502.32          | 98.1%        |
| 50          | 100       | 1.18%         | 5,010.05          | 97.4%        |
| 50          | 50        | 0.83%         | 3,532.65          | 96.7%        |
| 50          | 25        | 0.70%         | 2,970.72          | 96.0%        |
| 10          | 100       | 1.20%         | 5,060.78          | 87.9%        |
| 10          | 50        | 0.84%         | 3,562.99          | 85.3%        |
| 10          | 25        | 0.71%         | 2,992.36          | 82.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ADV200-4, PARALLEL + Safety Card Category SIL3

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# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

**ADV200, PARALLEL CONFIGURATION: 400 kW**

Pn at 400Vac (HD)

**IE2 EFFICIENCY: 97.9%**

Code **S9025M** Type (Master) **ADV-72000-KXX-4-MS 04 -SI**

Code **S9025S** Type (Slave) **ADV-72000-XXX-4-SL**

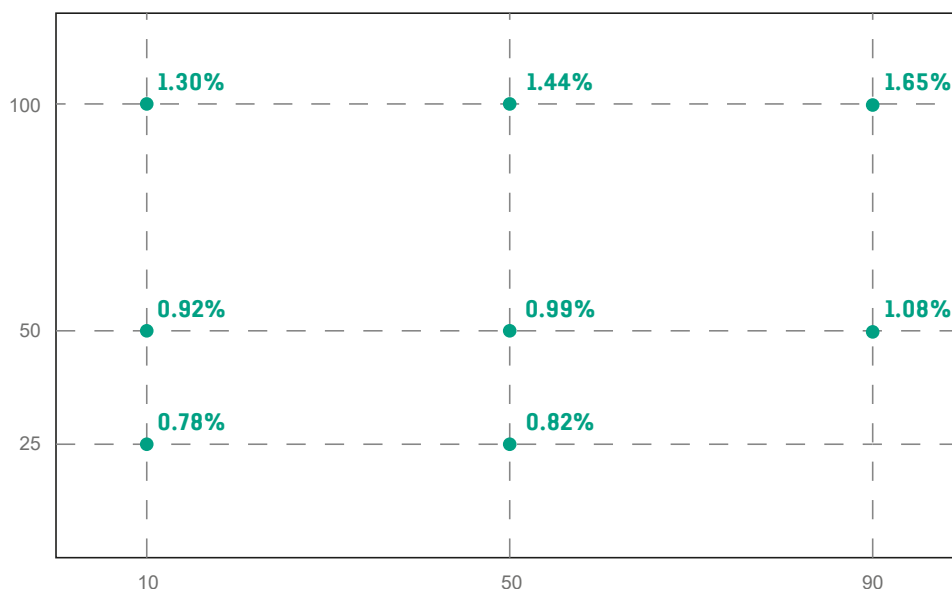
**Values for each master and slave(s) units:**

| Frequency % | Current % | Relative loss % | Absolute loss (W) | Efficiency % |
|-------------|-----------|-----------------|-------------------|--------------|
| 90          | 100       | 1.65%           | 4,149.10          | 97.9%        |
| 90          | 50        | 1.08%           | 2,715.38          | 97.6%        |
| 50          | 100       | 1.44%           | 3,622.81          | 96.8%        |
| 50          | 50        | 0.99%           | 2,487.06          | 96.1%        |
| 50          | 25        | 0.82%           | 2,066.30          | 95.4%        |
| 10          | 100       | 1.30%           | 3,247.44          | 87.0%        |
| 10          | 50        | 0.92%           | 2,306.08          | 84.1%        |
| 10          | 25        | 0.78%           | 1,948.12          | 81.4%        |

|                                |       |              |
|--------------------------------|-------|--------------|
| Rated supply voltage(s)        | (VAC) | <b>400</b>   |
| Motor Power output             | (kW)  | <b>200</b>   |
| Nominal current                | (A)   | <b>385</b>   |
| Nominal apparent power         | (kVA) | <b>250.7</b> |
| Standby loss                   | (W)   | <b>377</b>   |
| Nominal apparent frequency     | (Hz)  | <b>50</b>    |
| Maximum operating temperature* | (°C)  | <b>40</b>    |

\* without derating

**RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS**



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

**ADV200, PARALLEL CONFIGURATION: 500 kW**

Pn at 400Vac (HD)

**IE2 EFFICIENCY: 97.9%**

Code                      Type (Master)

**S9026M**

**ADV-72500-KXX-4-MS 05 -SI**

Code                      Type (Slave)

**S9026S**

**ADV-72500-XXX-4-SL**

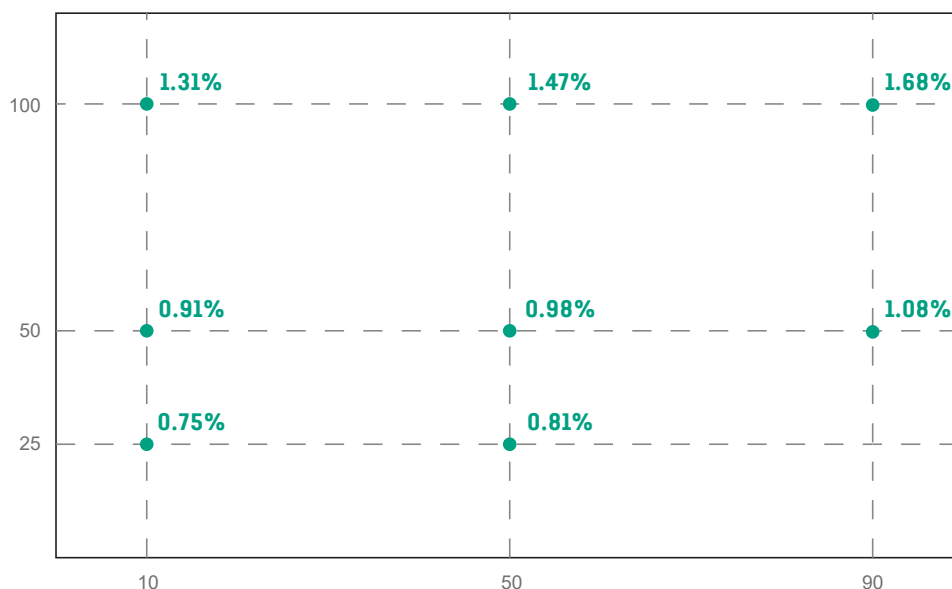
Values for each master and slave(s) units:

| Frequency<br>% | Current<br>% | Relative<br>loss | Absolute<br>loss (W) | Efficiency<br>% |
|----------------|--------------|------------------|----------------------|-----------------|
| 90             | 100          | 1.68%            | 5,035.22             | 97.9%           |
| 90             | 50           | 1.08%            | 3,234.78             | 97.6%           |
| 50             | 100          | 1.47%            | 4,395.93             | 96.7%           |
| 50             | 50           | 0.98%            | 2,950.18             | 96.1%           |
| 50             | 25           | 0.81%            | 2,413.76             | 95.5%           |
| 10             | 100          | 1.31%            | 3,921.30             | 86.9%           |
| 10             | 50           | 0.91%            | 2,717.22             | 84.3%           |
| 10             | 25           | 0.75%            | 2,260.35             | 81.8%           |

|                                |       |              |
|--------------------------------|-------|--------------|
| Rated supply voltage(s)        | (VAC) | <b>400</b>   |
| Motor Power output             | (kW)  | <b>250</b>   |
| Nominal current                | (A)   | <b>460</b>   |
| Nominal apparent power         | (kVA) | <b>299.6</b> |
| Standby loss                   | (W)   | <b>458</b>   |
| Nominal apparent frequency     | (Hz)  | <b>50</b>    |
| Maximum operating temperature* | (°C)  | <b>40</b>    |

\* without derating

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

**ADV200, PARALLEL CONFIGURATION: 630 kW**

Pn at 400Vac (HD)

**IE2 EFFICIENCY: 98.0%**

Code                      Type (Master)

**S9027M                      ADV-73150-KXX-4-MS 06 -SI**

Code                      Type (Slave)

**S9027S                      ADV-73150-XXX-4-SL**

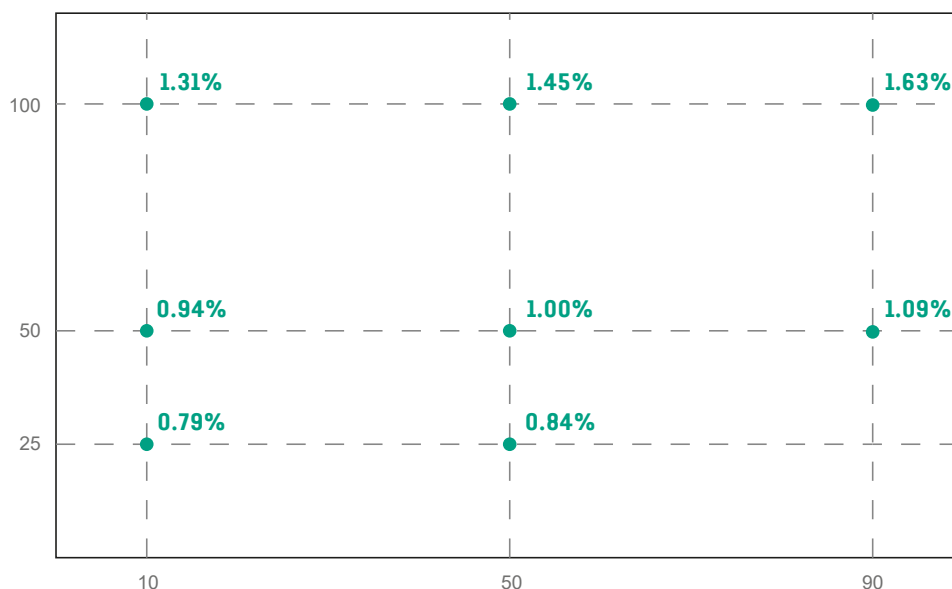
Values for each master and slave(s) units:

| Frequency<br>% | Current<br>% | Relative<br>loss | Absolute<br>loss (W) | Efficiency<br>% |
|----------------|--------------|------------------|----------------------|-----------------|
| 90             | 100          | 1.63%            | 6,281.26             | 98.0%           |
| 90             | 50           | 1.09%            | 4,173.99             | 97.6%           |
| 50             | 100          | 1.45%            | 5,559.37             | 96.8%           |
| 50             | 50           | 1.00%            | 3,854.14             | 96.0%           |
| 50             | 25           | 0.84%            | 3,220.95             | 95.3%           |
| 10             | 100          | 1.31%            | 5,027.54             | 86.9%           |
| 10             | 50           | 0.94%            | 3,593.88             | 83.9%           |
| 10             | 25           | 0.79%            | 3,049.81             | 81.0%           |

|                                |       |              |
|--------------------------------|-------|--------------|
| Rated supply voltage(s)        | (VAC) | <b>400</b>   |
| Motor Power output             | (kW)  | <b>315</b>   |
| Nominal current                | (A)   | <b>590</b>   |
| Nominal apparent power         | (kVA) | <b>384.2</b> |
| Standby loss                   | (W)   | <b>572</b>   |
| Nominal apparent frequency     | (Hz)  | <b>50</b>    |
| Maximum operating temperature* | (°C)  | <b>40</b>    |

\* without derating

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

**ADV200, PARALLEL CONFIGURATION: 710 kW**

Pn at 400Vac (HD)

**IE2 EFFICIENCY: 98.0%**

Code Type (Master)

**S9032M**

**ADV-73551-KXX-4-MS 07 -SI**

Code Type (Slave)

**S9032S**

**ADV-73551-XXX-4-SL**

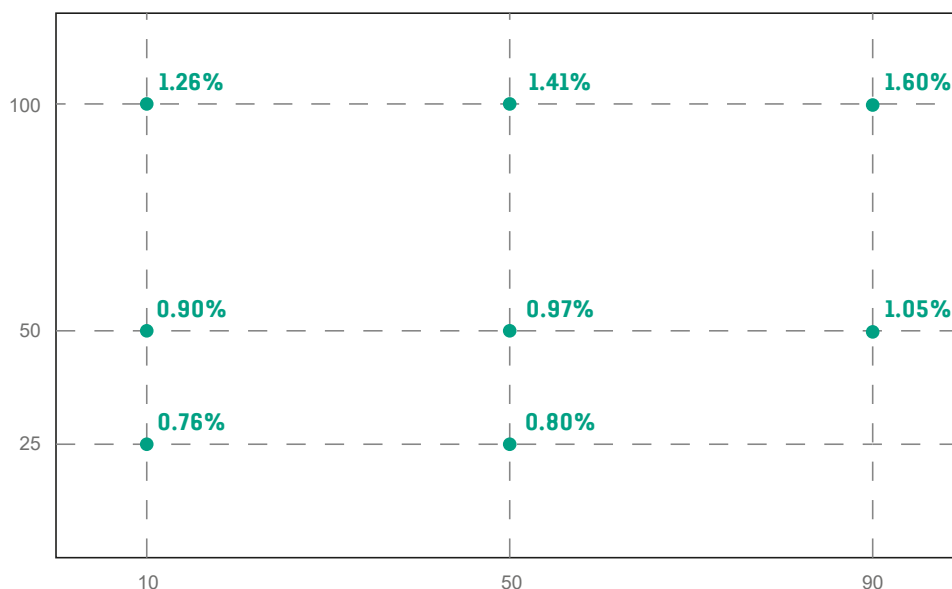
Values for each master and slave(s) units:

| Frequency<br>% | Current<br>% | Relative<br>loss | Absolute<br>loss (W) | Efficiency<br>% |
|----------------|--------------|------------------|----------------------|-----------------|
| 90             | 100          | 1.60%            | 6,780.70             | 98.0%           |
| 90             | 50           | 1.05%            | 4,451.60             | 97.7%           |
| 50             | 100          | 1.41%            | 5,951.67             | 96.9%           |
| 50             | 50           | 0.97%            | 4,088.64             | 96.2%           |
| 50             | 25           | 0.80%            | 3,396.38             | 95.5%           |
| 10             | 100          | 1.26%            | 5,353.10             | 87.3%           |
| 10             | 50           | 0.90%            | 3,797.95             | 84.4%           |
| 10             | 25           | 0.76%            | 3,205.91             | 81.8%           |

|                                |       |              |
|--------------------------------|-------|--------------|
| Rated supply voltage(s)        | (VAC) | <b>400</b>   |
| Motor Power output             | (kW)  | <b>355</b>   |
| Nominal current                | (A)   | <b>650</b>   |
| Nominal apparent power         | (kVA) | <b>423.3</b> |
| Standby loss                   | (W)   | <b>617</b>   |
| Nominal apparent frequency     | (Hz)  | <b>50</b>    |
| Maximum operating temperature* | (°C)  | <b>40</b>    |

\* without derating

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

**ADV200, PARALLEL CONFIGURATION: 900 kW**

Pn at 400Vac (HD)

**IE2 EFFICIENCY: 98.0%**

Code: **S9027M1** Type (Master): **ADV-73150-KXX-4-MS 09 -SI**

Code: **S9027S** Type (Slave): **ADV-73150-XXX-4-SL**

Code: **S9027S** Type (Slave): **ADV-73150-XXX-4-SL**

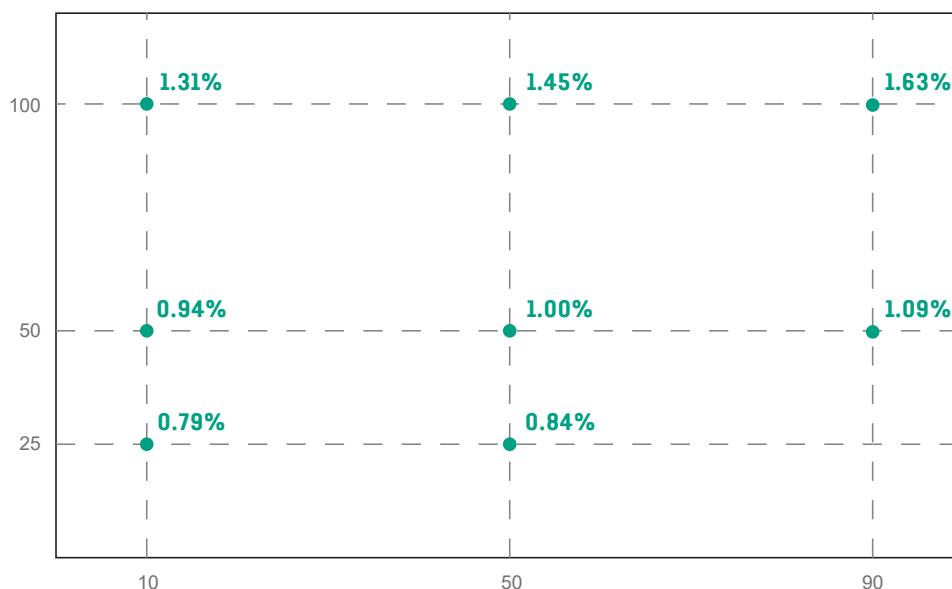
**Values for each master and slave(s) units:**

| Frequency % | Current % | Relative loss % | Absolute loss (W) | Efficiency % |
|-------------|-----------|-----------------|-------------------|--------------|
| 90          | 100       | 1.63%           | 6,281.26          | 98.0%        |
| 90          | 50        | 1.09%           | 4,173.99          | 97.6%        |
| 50          | 100       | 1.45%           | 5,559.37          | 96.8%        |
| 50          | 50        | 1.00%           | 3,854.14          | 96.0%        |
| 50          | 25        | 0.84%           | 3,220.95          | 95.3%        |
| 10          | 100       | 1.31%           | 5,027.54          | 86.9%        |
| 10          | 50        | 0.94%           | 3,593.88          | 83.9%        |
| 10          | 25        | 0.79%           | 3,049.81          | 81.0%        |

|                                |       |              |
|--------------------------------|-------|--------------|
| Rated supply voltage(s)        | (VAC) | <b>400</b>   |
| Motor Power output             | (kW)  | <b>315</b>   |
| Nominal current                | (A)   | <b>590</b>   |
| Nominal apparent power         | (kVA) | <b>384.2</b> |
| Standby loss                   | (W)   | <b>572</b>   |
| Nominal apparent frequency     | (Hz)  | <b>50</b>    |
| Maximum operating temperature* | (°C)  | <b>40</b>    |

\* without derating

**RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS**



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

**ADV200, PARALLEL CONFIGURATION: 1 MW**

Pn at 400Vac (HD)

**IE2 EFFICIENCY: 98.0%**

Code **S9032M1** Type (Master) **ADV-73551-KXX-4-MS 10-SI**

Code **S9032S** Type (Slave) **ADV-73551-XXX-4-SL**

**S9032S** **ADV-73551-XXX-4-SL**

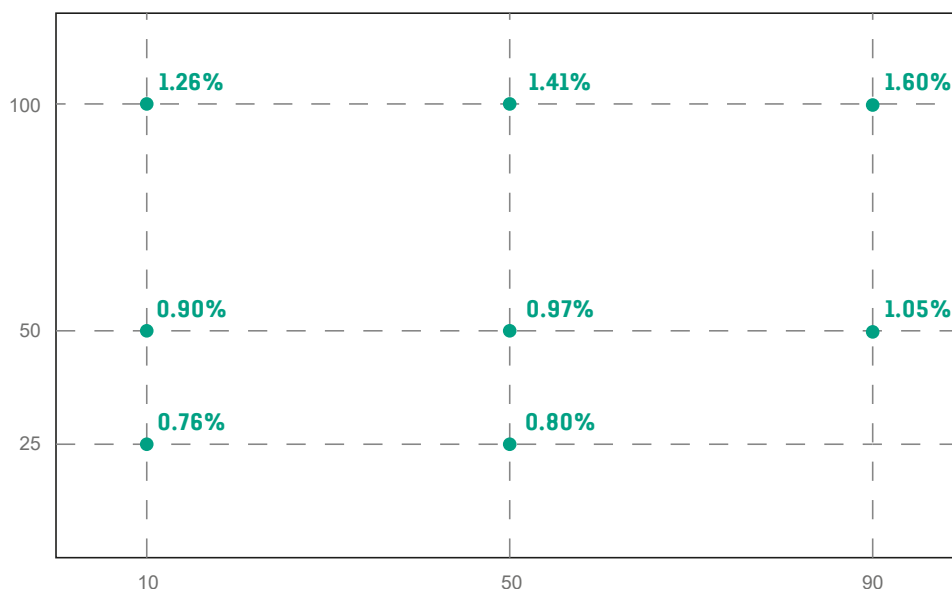
**Values for each master and slave(s) units:**

| Frequency % | Current % | Relative loss % | Absolute loss (W) | Efficiency % |
|-------------|-----------|-----------------|-------------------|--------------|
| 90          | 100       | 1.60%           | 6,780.70          | 98.0%        |
| 90          | 50        | 1.05%           | 4,451.60          | 97.7%        |
| 50          | 100       | 1.41%           | 5,951.67          | 96.9%        |
| 50          | 50        | 0.97%           | 4,088.64          | 96.2%        |
| 50          | 25        | 0.80%           | 3,396.38          | 95.5%        |
| 10          | 100       | 1.26%           | 5,353.10          | 87.3%        |
| 10          | 50        | 0.90%           | 3,797.95          | 84.4%        |
| 10          | 25        | 0.76%           | 3,205.91          | 81.8%        |

|                                |       |              |
|--------------------------------|-------|--------------|
| Rated supply voltage(s)        | (VAC) | <b>400</b>   |
| Motor Power output             | (kW)  | <b>355</b>   |
| Nominal current                | (A)   | <b>650</b>   |
| Nominal apparent power         | (kVA) | <b>423.3</b> |
| Standby loss                   | (W)   | <b>617</b>   |
| Nominal apparent frequency     | (Hz)  | <b>50</b>    |
| Maximum operating temperature* | (°C)  | <b>40</b>    |

\* without derating

**RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS**



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

**ADV200, PARALLEL CONFIGURATION: 1.35 MW**

Pn at 400Vac (HD)

**IE2 EFFICIENCY: 98.0%**

Code **S9028M3** Type (Master) **ADV-73550-KXX-4-MS 14-SI**

Code **S9030S** Type (Slave) **ADV-73550-XXX-4-SL**

**S9030S** **ADV-73550-XXX-4-SL**

**S9030S1** **ADV-73550-XXX-4-SL2**

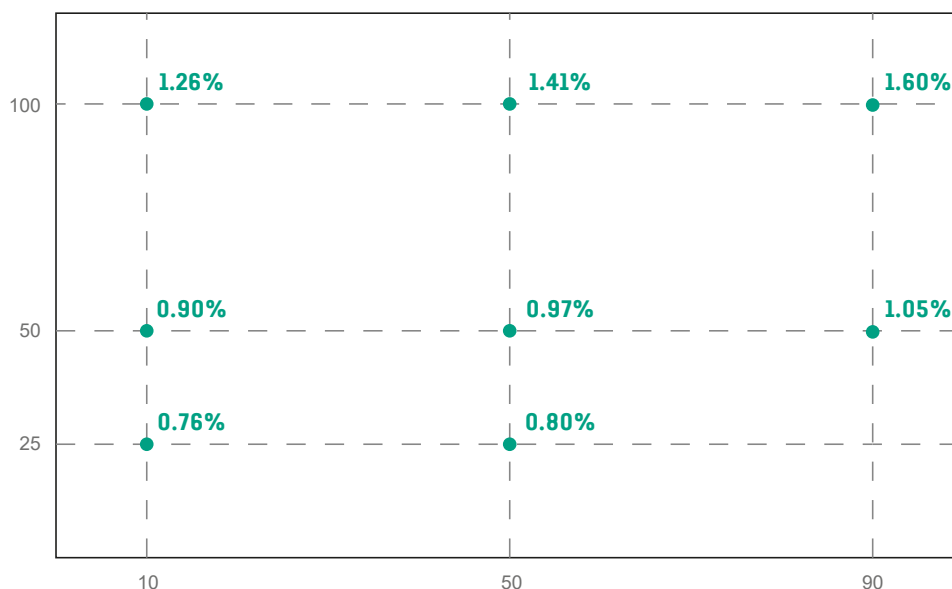
Values for each master and slave(s) units:

| Frequency % | Current % | Relative loss % | Absolute loss (W) | Efficiency % |
|-------------|-----------|-----------------|-------------------|--------------|
| 90          | 100       | 1.60%           | 6,780.70          | 98.0%        |
| 90          | 50        | 1.05%           | 4,451.60          | 97.7%        |
| 50          | 100       | 1.41%           | 5,951.67          | 96.9%        |
| 50          | 50        | 0.97%           | 4,088.64          | 96.2%        |
| 50          | 25        | 0.80%           | 3,396.38          | 95.5%        |
| 10          | 100       | 1.26%           | 5,353.10          | 87.3%        |
| 10          | 50        | 0.90%           | 3,797.95          | 84.4%        |
| 10          | 25        | 0.76%           | 3,205.91          | 81.8%        |

|                                |       |              |
|--------------------------------|-------|--------------|
| Rated supply voltage(s)        | (VAC) | <b>400</b>   |
| Motor Power output             | (kW)  | <b>355</b>   |
| Nominal current                | (A)   | <b>650</b>   |
| Nominal apparent power         | (kVA) | <b>423.3</b> |
| Standby loss                   | (W)   | <b>617</b>   |
| Nominal apparent frequency     | (Hz)  | <b>50</b>    |
| Maximum operating temperature* | (°C)  | <b>40</b>    |

\* without derating

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

**ADV200, PARALLEL CONFIGURATION: 1.65 MW**

Pn at 400Vac (HD)

**IE2 EFFICIENCY: 98.0%**

Code **S9028M4** Type (Master) **ADV-73550-KXX-4-MS 17-SI**

Code **S9030S** Type (Slave) **ADV-73550-XXX-4-SL**

**S9030S** **ADV-73550-XXX-4-SL**

**S9030S1** **ADV-73550-XXX-4-SL2**

**S9030S1** **ADV-73550-XXX-4-SL2**

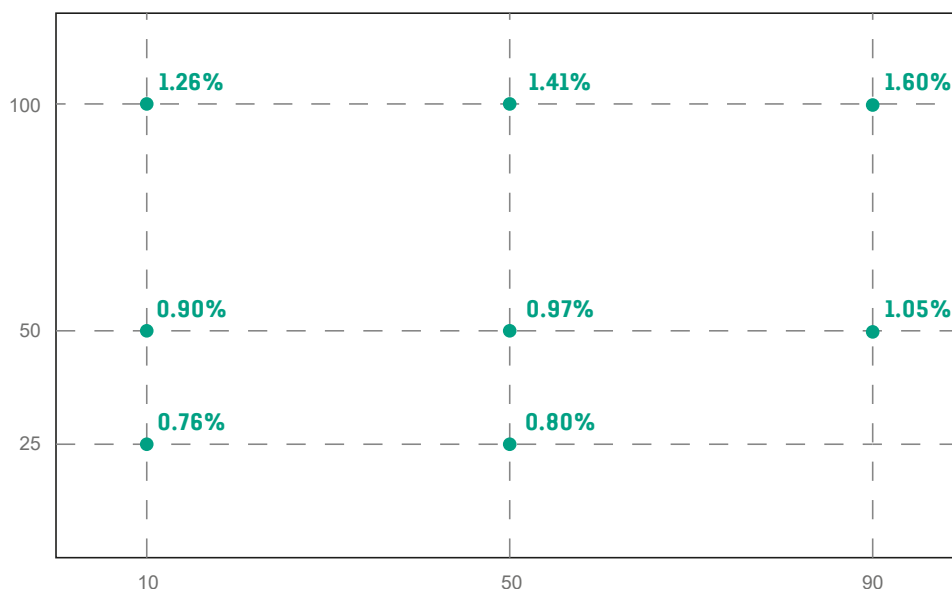
Values for each master and slave(s) units:

| Frequency % | Current % | Relative loss % | Absolute loss (W) | Efficiency % |
|-------------|-----------|-----------------|-------------------|--------------|
| 90          | 100       | 1.60%           | 6,780.70          | 98.0%        |
| 90          | 50        | 1.05%           | 4,451.60          | 97.7%        |
| 50          | 100       | 1.41%           | 5,951.67          | 96.9%        |
| 50          | 50        | 0.97%           | 4,088.64          | 96.2%        |
| 50          | 25        | 0.80%           | 3,396.38          | 95.5%        |
| 10          | 100       | 1.26%           | 5,353.10          | 87.3%        |
| 10          | 50        | 0.90%           | 3,797.95          | 84.4%        |
| 10          | 25        | 0.76%           | 3,205.91          | 81.8%        |

|                                |       |              |
|--------------------------------|-------|--------------|
| Rated supply voltage(s)        | (VAC) | <b>400</b>   |
| Motor Power output             | (kW)  | <b>355</b>   |
| Nominal current                | (A)   | <b>650</b>   |
| Nominal apparent power         | (kVA) | <b>423.3</b> |
| Standby loss                   | (W)   | <b>617</b>   |
| Nominal apparent frequency     | (Hz)  | <b>50</b>    |
| Maximum operating temperature* | (°C)  | <b>40</b>    |

\* without derating

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ADV200-DC, PARALLEL+ Safety Card Category SIL3

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# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

**ADV200-DC, PARALLEL CONFIGURATION: 400kW**

Pn at 400Vac (HD)

**IE2 EFFICIENCY: 98.5%**

Code Type (Master)

**S9025MC**

**ADV-72000-KXX-4-MS 04-DC-SI**

Code Type (Slave)

**S9025SC**

**ADV-72000-XXX-4-SL-DC**

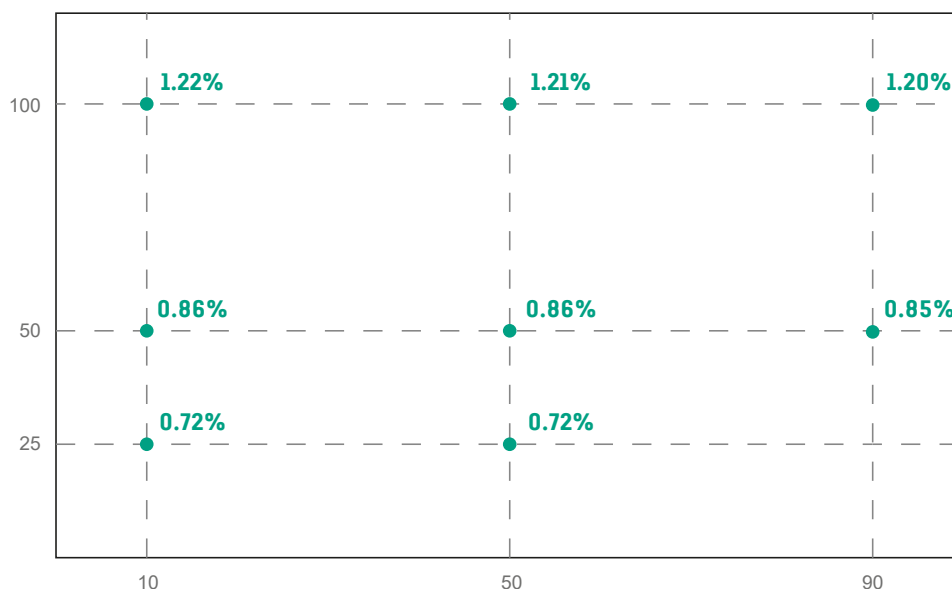
Values for each master and slave(s) units:

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.20%         | 3,012.78          | 98.5%        |
| 90          | 50        | 0.85%         | 2,127.85          | 98.1%        |
| 50          | 100       | 1.21%         | 3,040.07          | 97.3%        |
| 50          | 50        | 0.86%         | 2,144.46          | 96.6%        |
| 50          | 25        | 0.72%         | 1,804.26          | 95.9%        |
| 10          | 100       | 1.22%         | 3,067.36          | 87.7%        |
| 10          | 50        | 0.86%         | 2,161.08          | 85.0%        |
| 10          | 25        | 0.72%         | 1,816.18          | 82.4%        |

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>200</b>   |
| Nominal current                 | (A)   | <b>385</b>   |
| Nominal apparent power          | (kVA) | <b>250.7</b> |
| Standby loss                    | (W)   | <b>274</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

**ADV200-DC, PARALLEL CONFIGURATION: 500 kW**

Pn at 400Vac (HD)

**IE2 EFFICIENCY: 98.4%**

Code Type (Master)

**S9026MC**

**ADV-72500-KXX-4-MS 05-DC-SI**

Code Type (Slave)

**S9026SC**

**ADV-72500-XXX-4-SL-DC**

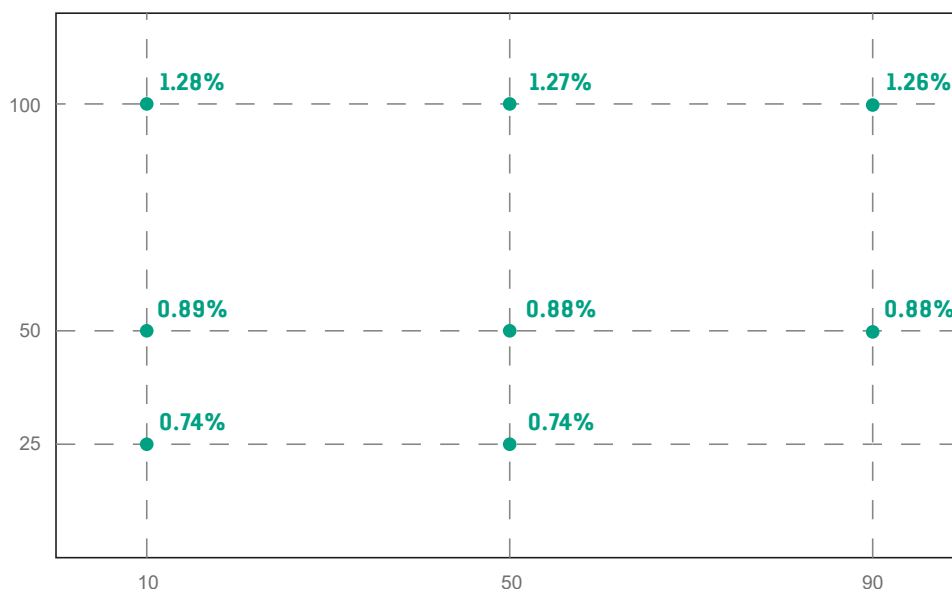
Values for each master and slave(s) units:

| Frequency % | Current % | Relative loss % | Absolute loss (W) | Efficiency % |
|-------------|-----------|-----------------|-------------------|--------------|
| 90          | 100       | 1.26%           | 3,762.48          | 98.4%        |
| 90          | 50        | 0.88%           | 2,624.74          | 98.0%        |
| 50          | 100       | 1.27%           | 3,791.77          | 97.2%        |
| 50          | 50        | 0.88%           | 2,643.55          | 96.5%        |
| 50          | 25        | 0.74%           | 2,208.73          | 95.8%        |
| 10          | 100       | 1.28%           | 3,821.05          | 87.2%        |
| 10          | 50        | 0.89%           | 2,662.35          | 84.6%        |
| 10          | 25        | 0.74%           | 2,222.48          | 82.1%        |

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>250</b>   |
| Nominal current                 | (A)   | <b>460</b>   |
| Nominal apparent power          | (kVA) | <b>299.6</b> |
| Standby loss                    | (W)   | <b>458</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

**ADV200-DC, PARALLEL CONFIGURATION: 630 kW**

Pn at 400Vac (HD)

**IE2 EFFICIENCY: 98.5%**

Code Type (Master)

**S9027MC**

**ADV-73150-KXX-4-MS 06-DC-SI**

Code Type (Slave)

**S9027SC**

**ADV-73150-XXX-4-SL-DC**

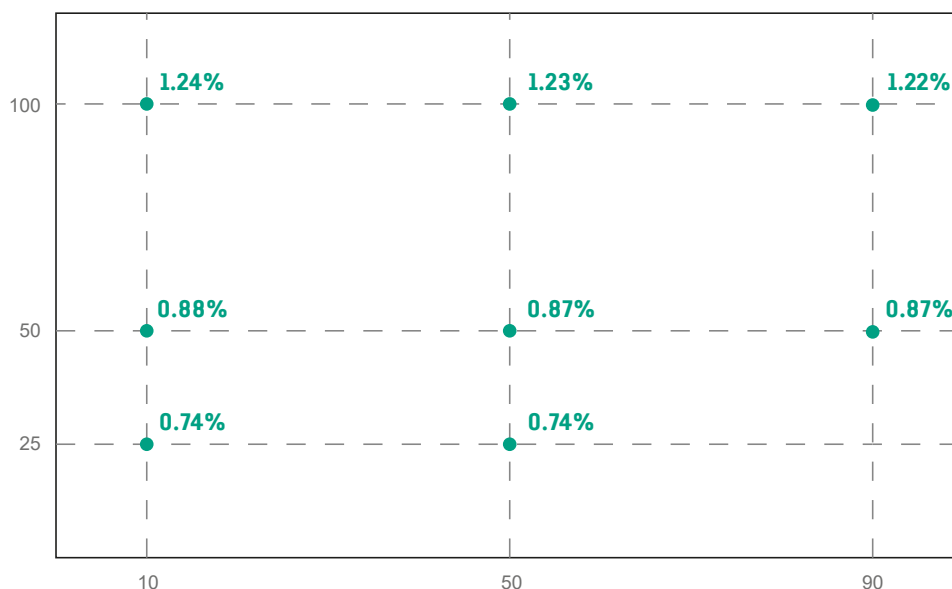
Values for each master and slave(s) units:

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.22%         | 4,681.05          | 98.5%        |
| 90          | 50        | 0.87%         | 3,332.18          | 98.1%        |
| 50          | 100       | 1.23%         | 4,724.27          | 97.3%        |
| 50          | 50        | 0.87%         | 3,358.83          | 96.5%        |
| 50          | 25        | 0.74%         | 2,841.53          | 95.8%        |
| 10          | 100       | 1.24%         | 4,767.48          | 87.5%        |
| 10          | 50        | 0.88%         | 3,385.47          | 84.7%        |
| 10          | 25        | 0.74%         | 2,860.74          | 82.0%        |

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>315</b>   |
| Nominal current                 | (A)   | <b>590</b>   |
| Nominal apparent power          | (kVA) | <b>384.2</b> |
| Standby loss                    | (W)   | <b>426</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

**ADV200-DC, PARALLEL CONFIGURATION: 710 kW**

Pn at 400Vac (HD)

**IE2 EFFICIENCY: 98.5%**

Code Type (Master)

**S9032MC**

**ADV-73551-KXX-4-MS 07-DC-SI**

Code Type (Slave)

**S9032SC**

**ADV-73551-XXX-4-SL-DC**

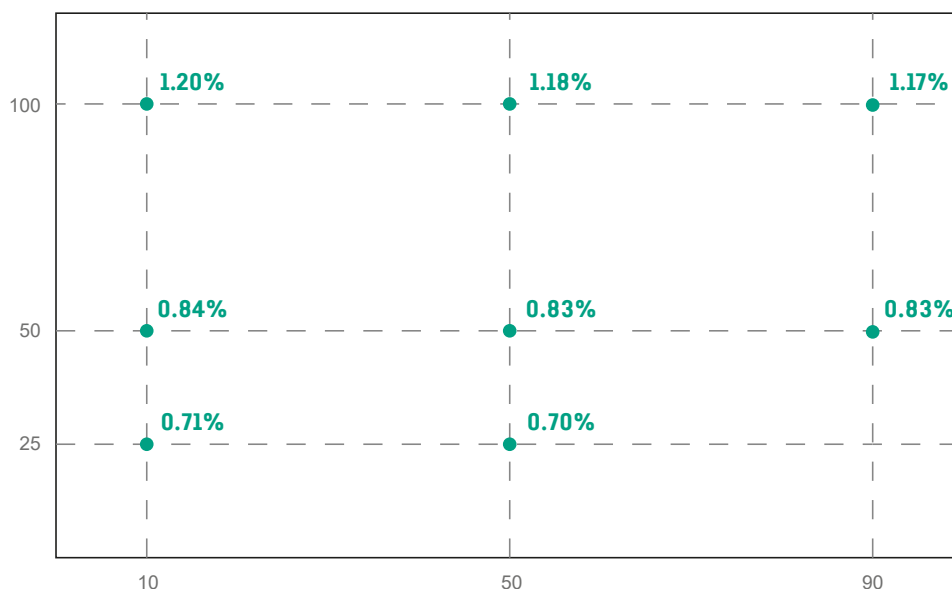
Values for each master and slave(s) units:

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.17%         | 4,959.32          | 98.5%        |
| 90          | 50        | 0.83%         | 3,502.32          | 98.1%        |
| 50          | 100       | 1.18%         | 5,010.05          | 97.4%        |
| 50          | 50        | 0.83%         | 3,532.65          | 96.7%        |
| 50          | 25        | 0.70%         | 2,970.72          | 96.0%        |
| 10          | 100       | 1.20%         | 5,060.78          | 87.9%        |
| 10          | 50        | 0.84%         | 3,562.99          | 85.3%        |
| 10          | 25        | 0.71%         | 2,992.36          | 82.8%        |

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>355</b>   |
| Nominal current                 | (A)   | <b>650</b>   |
| Nominal apparent power          | (kVA) | <b>423.3</b> |
| Standby loss                    | (W)   | <b>451</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

**ADV200-DC, PARALLEL CONFIGURATION: 900 kW**

Pn at 400Vac (HD)

**IE2 EFFICIENCY: 98.5%**

Code **S9027M2** Type (Master) **ADV-73150-KXX-4-MS 09-DC-SI**

Code **S9027SC** Type (Slave) **ADV-73150-XXX-4-SL-DC**

Code **S9027SC** Type (Slave) **ADV-73150-XXX-4-SL-DC**

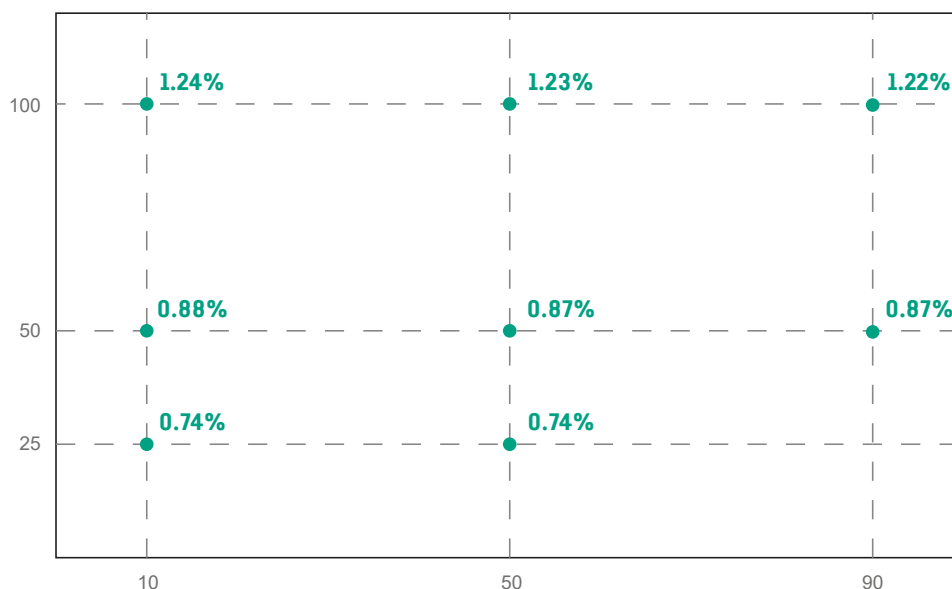
**Values for each master and slave(s) units:**

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.22%         | 4,681.05          | 98.5%        |
| 90          | 50        | 0.87%         | 3,332.18          | 98.1%        |
| 50          | 100       | 1.23%         | 4,724.27          | 97.3%        |
| 50          | 50        | 0.87%         | 3,358.83          | 96.5%        |
| 50          | 25        | 0.74%         | 2,841.53          | 95.8%        |
| 10          | 100       | 1.24%         | 4,767.48          | 87.5%        |
| 10          | 50        | 0.88%         | 3,385.47          | 84.7%        |
| 10          | 25        | 0.74%         | 2,860.74          | 82.0%        |

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>315</b>   |
| Nominal current                 | (A)   | <b>590</b>   |
| Nominal apparent power          | (kVA) | <b>384.2</b> |
| Standby loss                    | (W)   | <b>426</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

**RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS**



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

**ADV200-DC, PARALLEL CONFIGURATION: 1 MW**

Pn at 400Vac (HD)

**IE2 EFFICIENCY: 98.5%**

Code Type (Master)

**S9032M2 ADV-73551-KXX-4-MS 10-DC-SI**

Code Type (Slave)

**S9032SC ADV-73551-XXX-4-SL-DC**

**S9032SC ADV-73551-XXX-4-SL-DC**

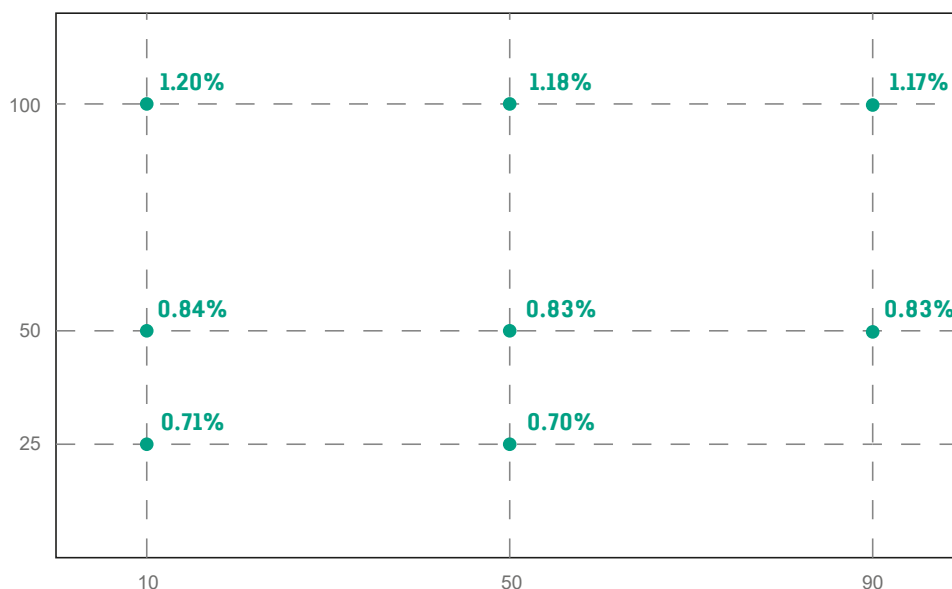
Values for each master and slave(s) units:

| Frequency % | Current % | Relative loss % | Absolute loss (W) | Efficiency % |
|-------------|-----------|-----------------|-------------------|--------------|
| 90          | 100       | 1.17%           | 4,959.32          | 98.5%        |
| 90          | 50        | 0.83%           | 3,502.32          | 98.1%        |
| 50          | 100       | 1.18%           | 5,010.05          | 97.4%        |
| 50          | 50        | 0.83%           | 3,532.65          | 96.7%        |
| 50          | 25        | 0.70%           | 2,970.72          | 96.0%        |
| 10          | 100       | 1.20%           | 5,060.78          | 87.9%        |
| 10          | 50        | 0.84%           | 3,562.99          | 85.3%        |
| 10          | 25        | 0.71%           | 2,992.36          | 82.8%        |

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>355</b>   |
| Nominal current                 | (A)   | <b>650</b>   |
| Nominal apparent power          | (kVA) | <b>423.3</b> |
| Standby loss                    | (W)   | <b>451</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

**ADV200-DC, PARALLEL CONFIGURATION: 1.35 MW**

Pn at 400Vac (HD)

**IE2 EFFICIENCY: 98.5%**

Code **S9028MC3** Type (Master) **ADV-73550-KXX-4-MS 14-DC-SI**

Code **S9028SC** Type (Slave) **ADV-73550-XXX-4-SL-DC**

**S9028SC** **ADV-73550-XXX-4-SL-DC**

**S9028SC1** **ADV-73550-XXX-4-SL2-DC**

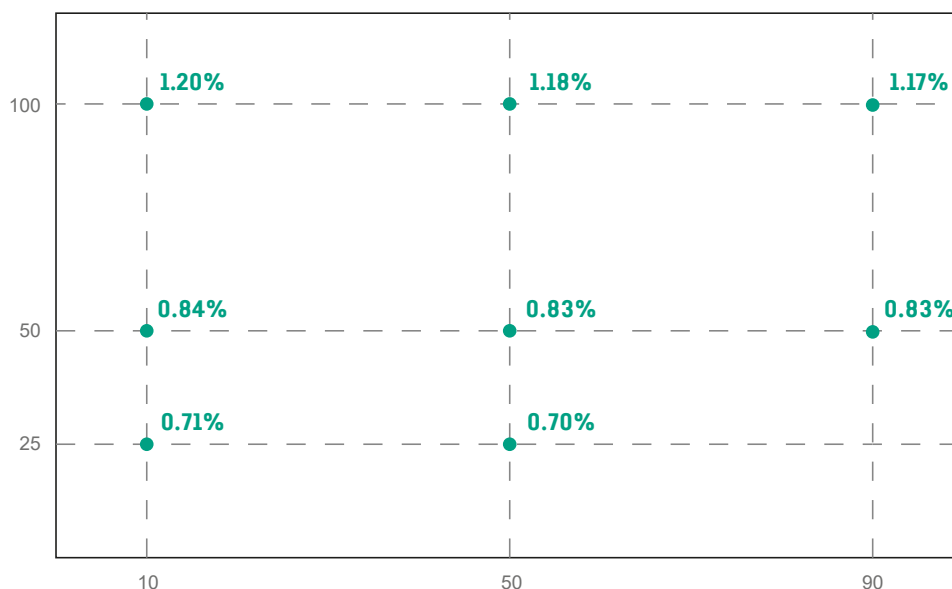
**Values for each master and slave(s) units:**

| Frequency % | Current % | Relative loss % | Absolute loss (W) | Efficiency % |
|-------------|-----------|-----------------|-------------------|--------------|
| 90          | 100       | 1.17%           | 4,959.32          | 98.5%        |
| 90          | 50        | 0.83%           | 3,502.32          | 98.1%        |
| 50          | 100       | 1.18%           | 5,010.05          | 97.4%        |
| 50          | 50        | 0.83%           | 3,532.65          | 96.7%        |
| 50          | 25        | 0.70%           | 2,970.72          | 96.0%        |
| 10          | 100       | 1.20%           | 5,060.78          | 87.9%        |
| 10          | 50        | 0.84%           | 3,562.99          | 85.3%        |
| 10          | 25        | 0.71%           | 2,992.36          | 82.8%        |

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>355</b>   |
| Nominal current                 | (A)   | <b>650</b>   |
| Nominal apparent power          | (kVA) | <b>423.3</b> |
| Standby loss                    | (W)   | <b>451</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

**RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS**



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

**ADV200-DC, PARALLEL CONFIGURATION: 1.65 MW**

Pn at 400Vac (HD)

**IE2 EFFICIENCY: 98.5%**

Code **S9028MG4** Type (Master) **ADV-73550-KXX-4-MS 17-DC-SI**

Code **S9028SC** Type (Slave) **ADV-73550-XXX-4-SL-DC**

**S9028SC** **ADV-73550-XXX-4-SL-DC**

**S9028SC1** **ADV-73550-XXX-4-SL2-DC**

**S9028SC1** **ADV-73550-XXX-4-SL2-DC**

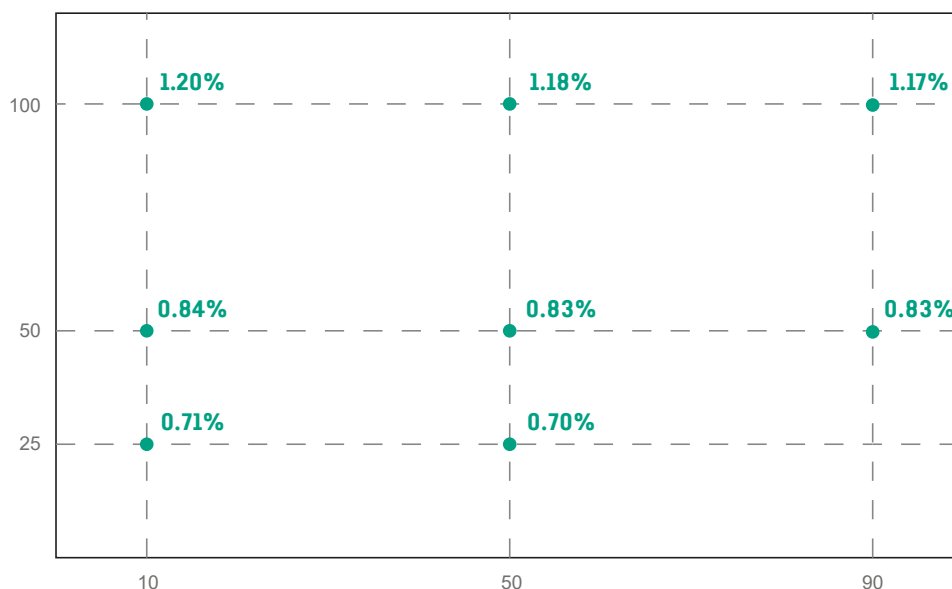
Values for each master and slave(s) units:

| Frequency % | Current % | Relative loss % | Absolute loss (W) | Efficiency % |
|-------------|-----------|-----------------|-------------------|--------------|
| 90          | 100       | 1.17%           | 4,959.32          | 98.5%        |
| 90          | 50        | 0.83%           | 3,502.32          | 98.1%        |
| 50          | 100       | 1.18%           | 5,010.05          | 97.4%        |
| 50          | 50        | 0.83%           | 3,532.65          | 96.7%        |
| 50          | 25        | 0.70%           | 2,970.72          | 96.0%        |
| 10          | 100       | 1.20%           | 5,060.78          | 87.9%        |
| 10          | 50        | 0.84%           | 3,562.99          | 85.3%        |
| 10          | 25        | 0.71%           | 2,992.36          | 82.8%        |

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>355</b>   |
| Nominal current                 | (A)   | <b>650</b>   |
| Nominal apparent power          | (kVA) | <b>423.3</b> |
| Standby loss                    | (W)   | <b>451</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ADV200-EH/EHR, External Heatsink Version

## Index Codes

|        |     |
|--------|-----|
| S9001H | 200 |
| S9003H | 202 |
| S9007H | 206 |
| S9008H | 207 |
| S9009H | 208 |
| S9010H | 209 |
| S9011H | 210 |
| R9011H | 210 |
| S9013H | 211 |
| S9015H | 212 |
| S9017H | 213 |
| S9019H | 214 |
| S9018H | 215 |
| S9020H | 216 |
| S9021H | 217 |
| S9033H | 220 |
| S9032H | 221 |
| S9035H | 222 |
| S9031H | 223 |
| S9034H | 224 |
| S9036H | 225 |

## Index Type

|                       |     |
|-----------------------|-----|
| ADV200-EH-1007-KBX-4  | 200 |
| ADV200-EH-1015-KBX-4  | 201 |
| ADV200-EH-1022-KBX-4  | 202 |
| ADV200-EH-1030-KBX-4  | 203 |
| ADV200-EH-1040-KBX-4  | 204 |
| ADV200-EH-2055-KBX-4  | 205 |
| ADV200-EH-2075-KBX-4  | 206 |
| ADV200-EH-2110-KBX-4  | 207 |
| ADV200-EH-3150-KBX-4  | 208 |
| ADV200-EH-3185-KBX-4  | 209 |
| ADV200-EH-3220-KBX-4  | 210 |
| ADV200-EH-4300-KBX-4  | 211 |
| ADV200-EH-4370-KBX-4  | 212 |
| ADV200-EH-4450-KBX-4  | 213 |
| ADV200-EH-5550-KBX-4  | 214 |
| ADV200-EH-5550-KXX-4  | 215 |
| ADV200-EH-5750-KXX-4  | 216 |
| ADV200-EH-5900-KXX-4  | 217 |
| ADV200-EH-61320-KXX-4 | 218 |
| ADV200-EHR-2075-KBX-4 | 219 |
| ADV200-EHR-2110-KBX-4 | 220 |
| ADV200-EH-3150-KBX-4  | 221 |
| ADV200-EHR-3185-KBX-4 | 222 |
| ADV200-EH-3220-KBX-4  | 223 |
| ADV200-EHR-4300-KBX-4 | 224 |
| ADV200-EHR-4300-KXX-4 | 225 |

# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-EH-1007-KBX-4**

**IE2** EFFICIENCY: **94.1%**

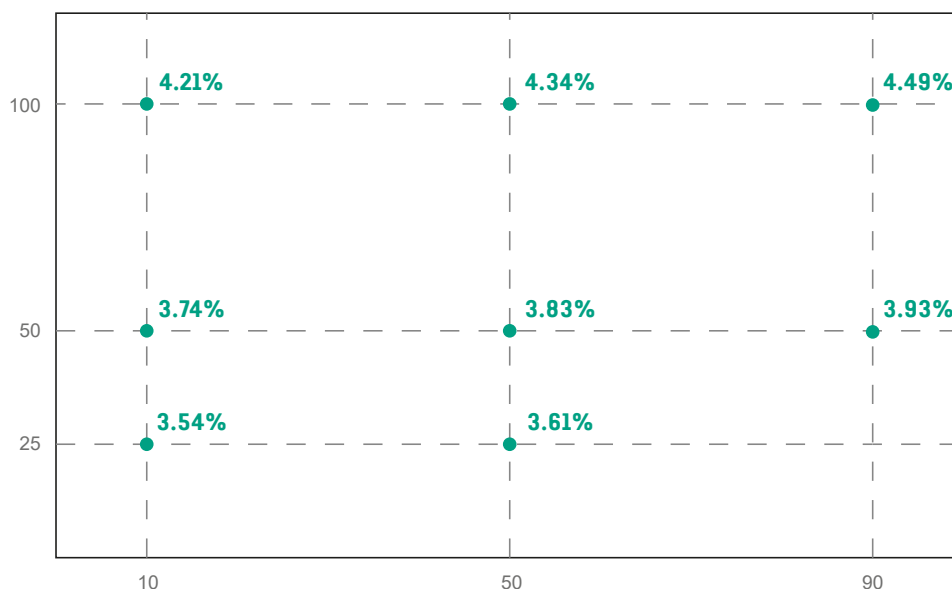
Code **S9001H**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>0.75</b> |
| Nominal current                 | (A)   | <b>2.5</b>  |
| Nominal apparent power          | (kVA) | <b>1.6</b>  |
| Standby loss                    | (W)   | <b>6.65</b> |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 4.49%         | 73.13             | 94.1%        |
| 90          | 50        | 3.93%         | 64.00             | 92.8%        |
| 50          | 100       | 4.34%         | 70.71             | 90.1%        |
| 50          | 50        | 3.83%         | 62.41             | 88.0%        |
| 50          | 25        | 3.61%         | 58.81             | 86.4%        |
| 10          | 100       | 4.21%         | 68.49             | 65.3%        |
| 10          | 50        | 3.74%         | 60.92             | 60.0%        |
| 10          | 25        | 3.54%         | 57.62             | 56.4%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-EH-1015-KBX-4**

**IE2** EFFICIENCY: **95.7%**

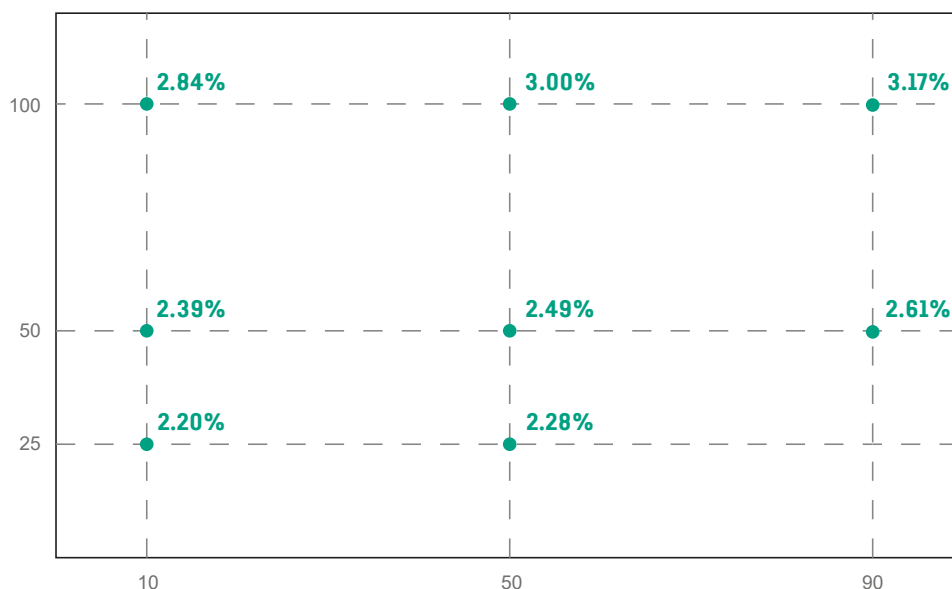
Code **On request**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>1.5</b> |
| Nominal current                 | (A)   | <b>4,3</b> |
| Nominal apparent power          | (kVA) | <b>2.8</b> |
| Standby loss                    | (W)   | <b>8</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 3.17%         | 88.82             | 95.7%        |
| 90          | 50        | 2.61%         | 72.95             | 95.1%        |
| 50          | 100       | 3.00%         | 83.95             | 92.9%        |
| 50          | 50        | 2.49%         | 69.86             | 91.8%        |
| 50          | 25        | 2.28%         | 63.90             | 90.9%        |
| 10          | 100       | 2.84%         | 79.65             | 73.5%        |
| 10          | 50        | 2.39%         | 67.05             | 70.1%        |
| 10          | 25        | 2.20%         | 61.70             | 67.5%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-EH-1022-KBX-4**

**IE2**

**EFFICIENCY:**

**96.0%**

Code

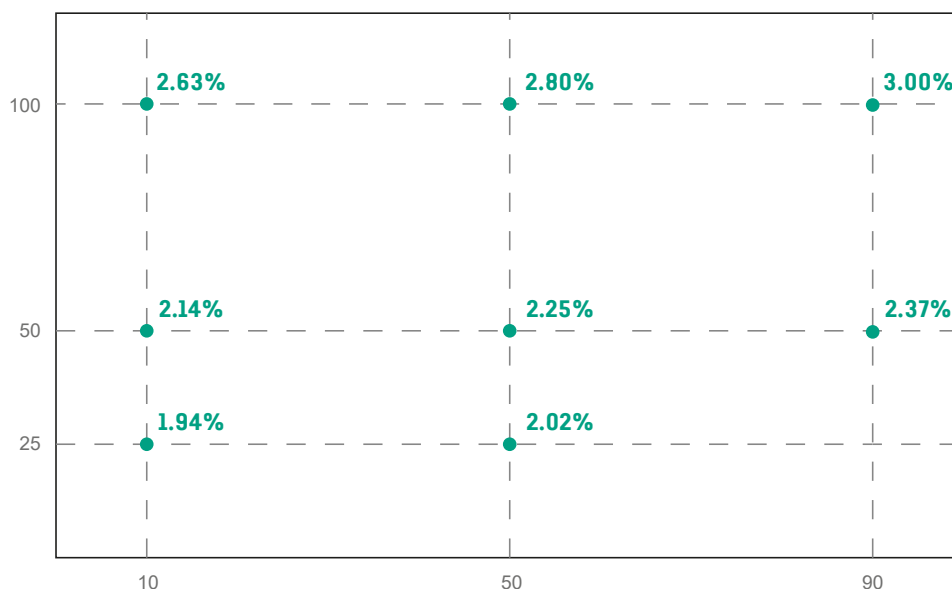
**S9003H**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>2.2</b> |
| Nominal current                 | (A)   | <b>5.8</b> |
| Nominal apparent power          | (kVA) | <b>3.8</b> |
| Standby loss                    | (W)   | <b>10</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 3.00%         | 113.27            | 96.0%        |
| 90          | 50        | 2.37%         | 89.62             | 95.5%        |
| 50          | 100       | 2.80%         | 105.86            | 93.4%        |
| 50          | 50        | 2.25%         | 85.02             | 92.6%        |
| 50          | 25        | 2.02%         | 76.35             | 91.9%        |
| 10          | 100       | 2.63%         | 99.49             | 75.0%        |
| 10          | 50        | 2.14%         | 80.94             | 72.4%        |
| 10          | 25        | 1.94%         | 73.18             | 70.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-EH-1030-KBX-4**

**IE2**

**EFFICIENCY:**

**95.8%**

Code

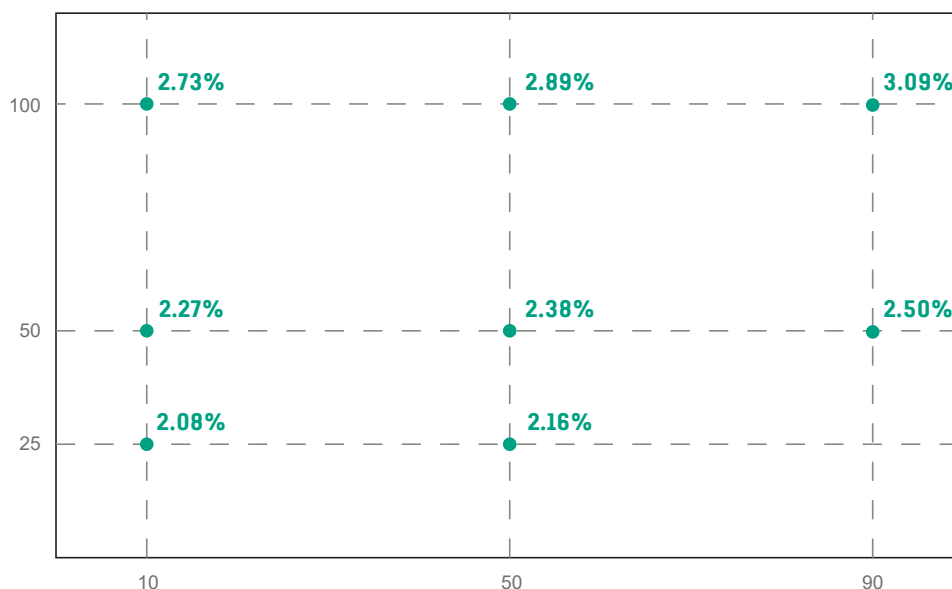
**On request**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>3</b>   |
| Nominal current                 | (A)   | <b>7.6</b> |
| Nominal apparent power          | (kVA) | <b>5</b>   |
| Standby loss                    | (W)   | <b>14</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 3.09%         | 152.80            | 95.8%        |
| 90          | 50        | 2.50%         | 123.97            | 95.3%        |
| 50          | 100       | 2.89%         | 143.08            | 93.2%        |
| 50          | 50        | 2.38%         | 117.80            | 92.2%        |
| 50          | 25        | 2.16%         | 107.15            | 91.4%        |
| 10          | 100       | 2.73%         | 135.13            | 74.3%        |
| 10          | 50        | 2.27%         | 112.52            | 71.2%        |
| 10          | 25        | 2.08%         | 102.98            | 68.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-EH-1040-KBX-4**

**IE2**

**EFFICIENCY:**

**96.2%**

Code

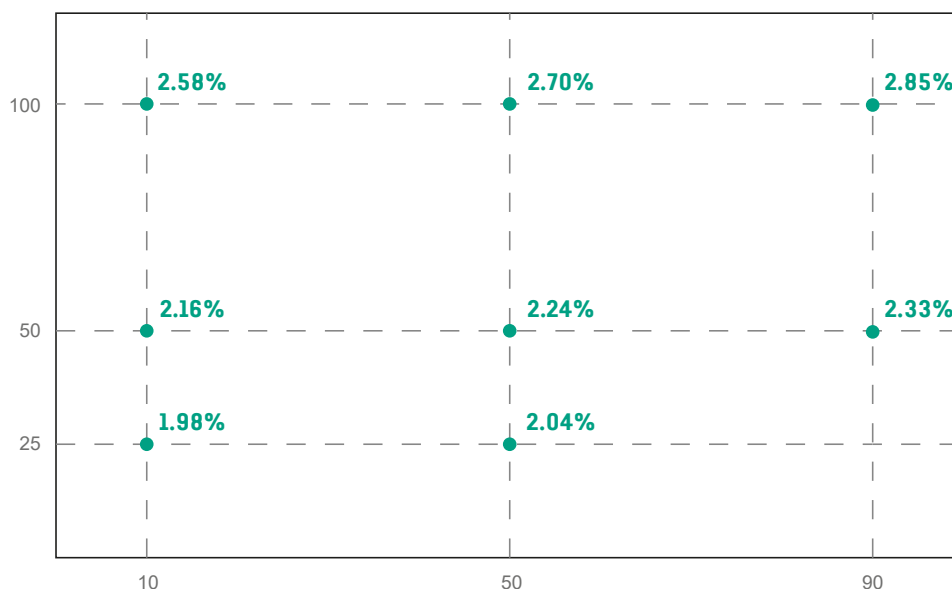
**On request**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>4</b>   |
| Nominal current                 | (A)   | <b>7.6</b> |
| Nominal apparent power          | (kVA) | <b>5</b>   |
| Standby loss                    | (W)   | <b>16</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.85%         | 176.12            | 96.2%        |
| 90          | 50        | 2.33%         | 143.97            | 95.6%        |
| 50          | 100       | 2.70%         | 167.24            | 93.6%        |
| 50          | 50        | 2.24%         | 138.36            | 92.6%        |
| 50          | 25        | 2.04%         | 126.09            | 91.8%        |
| 10          | 100       | 2.58%         | 159.83            | 75.4%        |
| 10          | 50        | 2.16%         | 133.48            | 72.2%        |
| 10          | 25        | 1.98%         | 122.25            | 69.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-EH-2055-KBX-4**

**IE2**

**EFFICIENCY:**

**96.6%**

Code

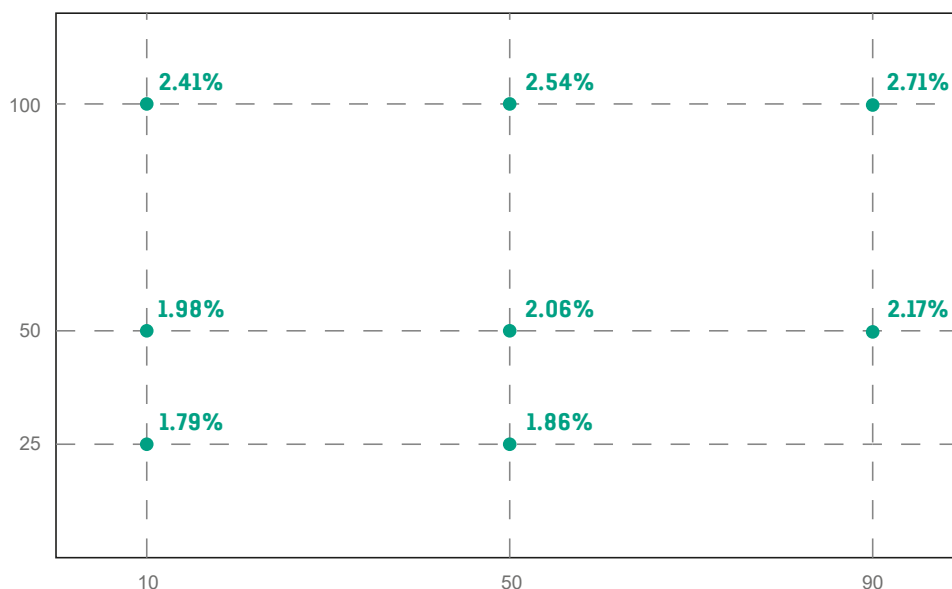
**On request**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>5.5</b> |
| Nominal current                 | (A)   | <b>13</b>  |
| Nominal apparent power          | (kVA) | <b>8.5</b> |
| Standby loss                    | (W)   | <b>21</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.71%         | 229.84            | 96.6%        |
| 90          | 50        | 2.17%         | 183.71            | 96.2%        |
| 50          | 100       | 2.54%         | 215.21            | 94.4%        |
| 50          | 50        | 2.06%         | 174.66            | 93.6%        |
| 50          | 25        | 1.86%         | 157.40            | 93.0%        |
| 10          | 100       | 2.41%         | 203.83            | 77.9%        |
| 10          | 50        | 1.98%         | 167.26            | 75.3%        |
| 10          | 25        | 1.79%         | 151.60            | 73.4%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-EH-2075-KBX-4**

**IE2**

**EFFICIENCY:**

**96.7%**

Code

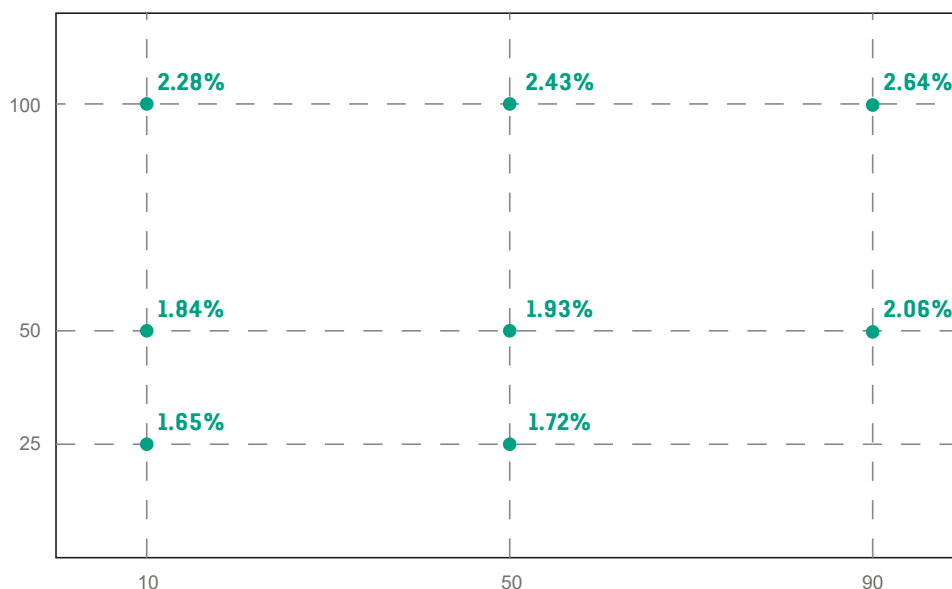
**S9007H**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>7.5</b>   |
| Nominal current                 | (A)   | <b>16.5</b>  |
| Nominal apparent power          | (kVA) | <b>10.75</b> |
| Standby loss                    | (W)   | <b>26</b>    |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.64%         | 283.96            | 96.7%        |
| 90          | 50        | 2.06%         | 221.32            | 96.3%        |
| 50          | 100       | 2.43%         | 261.60            | 94.6%        |
| 50          | 50        | 1.93%         | 207.92            | 94.0%        |
| 50          | 25        | 1.72%         | 185.34            | 93.5%        |
| 10          | 100       | 2.28%         | 245.28            | 78.8%        |
| 10          | 50        | 1.84%         | 197.58            | 76.6%        |
| 10          | 25        | 1.65%         | 177.34            | 74.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-EH-2110-KBX-4**

**IE2**

**EFFICIENCY:**

**97.0%**

Code

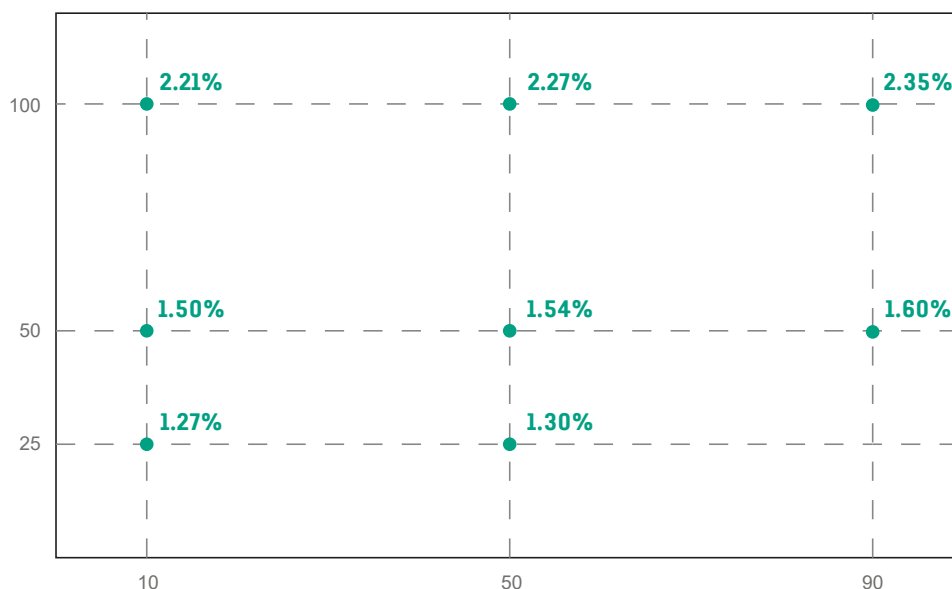
**S9008H**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>11</b>  |
| Nominal current                 | (A)   | <b>23</b>  |
| Nominal apparent power          | (kVA) | <b>15</b>  |
| Standby loss                    | (W)   | <b>32</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.35%         | 351.60            | 97.0%        |
| 90          | 50        | 1.60%         | 239.08            | 96.6%        |
| 50          | 100       | 2.27%         | 339.54            | 94.9%        |
| 50          | 50        | 1.54%         | 231.42            | 94.3%        |
| 50          | 25        | 1.30%         | 195.08            | 93.6%        |
| 10          | 100       | 2.21%         | 331.32            | 79.4%        |
| 10          | 50        | 1.50%         | 225.13            | 77.2%        |
| 10          | 25        | 1.27%         | 189.98            | 75.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-EH-3150-KBX-4**

**IE2**

**EFFICIENCY:**

**97.2%**

Code

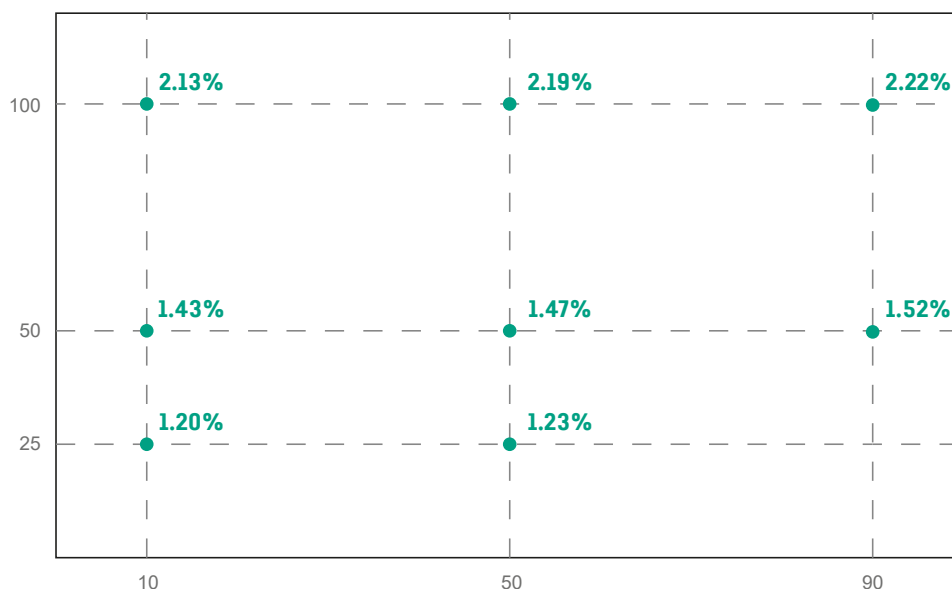
**S9009H**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>15</b>   |
| Nominal current                 | (A)   | <b>31</b>   |
| Nominal apparent power          | (kVA) | <b>20.2</b> |
| Standby loss                    | (W)   | <b>41</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.22%         | 449.00            | 97.2%        |
| 90          | 50        | 1.52%         | 307.79            | 96.8%        |
| 50          | 100       | 2.19%         | 441.42            | 95.1%        |
| 50          | 50        | 1.47%         | 297.10            | 94.5%        |
| 50          | 25        | 1.23%         | 248.44            | 94.0%        |
| 10          | 100       | 2.13%         | 430.38            | 79.9%        |
| 10          | 50        | 1.43%         | 288.64            | 78.1%        |
| 10          | 25        | 1.20%         | 241.58            | 76.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-EH-3185-KBX-4**

**IE2**

**EFFICIENCY:**

**97.2%**

Code

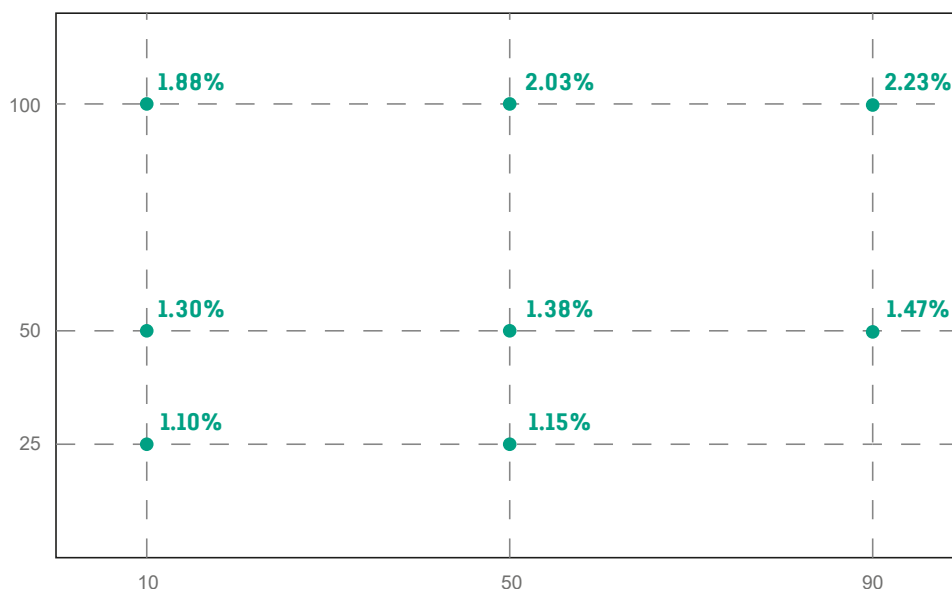
**S9010H**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>18.5</b>  |
| Nominal current                 | (A)   | <b>38</b>    |
| Nominal apparent power          | (kVA) | <b>24.75</b> |
| Standby loss                    | (W)   | <b>50</b>    |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.23%         | 552.10            | 97.2%        |
| 90          | 50        | 1.47%         | 364.08            | 96.9%        |
| 50          | 100       | 2.03%         | 502.12            | 95.4%        |
| 50          | 50        | 1.38%         | 340.61            | 94.9%        |
| 50          | 25        | 1.15%         | 284.60            | 94.3%        |
| 10          | 100       | 1.88%         | 465.36            | 81.9%        |
| 10          | 50        | 1.30%         | 321.90            | 79.7%        |
| 10          | 25        | 1.10%         | 271.51            | 77.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-EH-3220-KBX-4**

**IE2**

**EFFICIENCY:**

**96.8%**

Code

**S9011H**

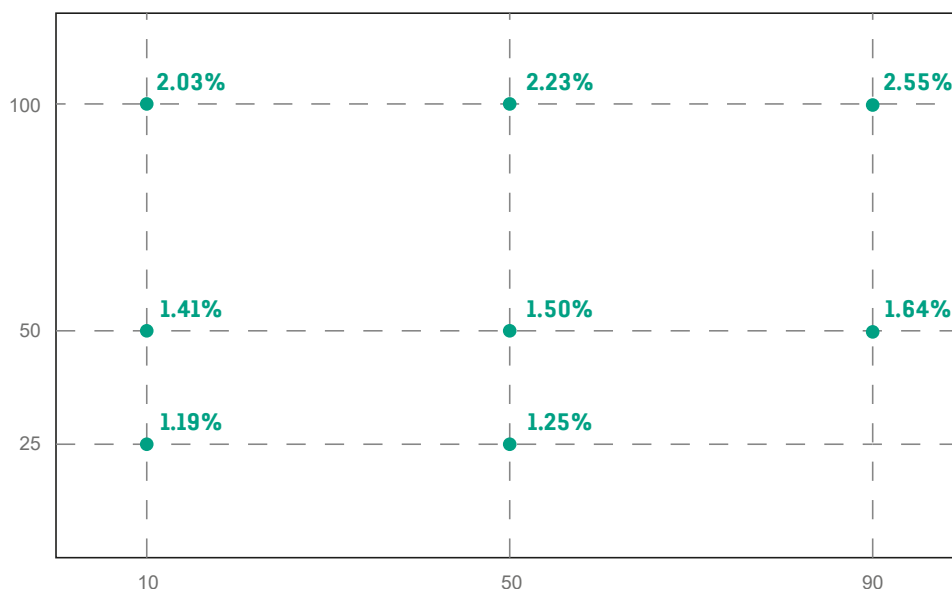
**R9011H**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>22</b>  |
| Nominal current                 | (A)   | <b>46</b>  |
| Nominal apparent power          | (kVA) | <b>30</b>  |
| Standby loss                    | (W)   | <b>69</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.55%         | 762.48            | 96.8%        |
| 90          | 50        | 1.64%         | 491.42            | 96.5%        |
| 50          | 100       | 2.23%         | 667.55            | 95.0%        |
| 50          | 50        | 1.50%         | 450.11            | 94.4%        |
| 50          | 25        | 1.25%         | 374.71            | 93.9%        |
| 10          | 100       | 2.03%         | 607.10            | 80.7%        |
| 10          | 50        | 1.41%         | 421.21            | 78.4%        |
| 10          | 25        | 1.19%         | 355.10            | 76.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-EH-4300-KBX-4**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

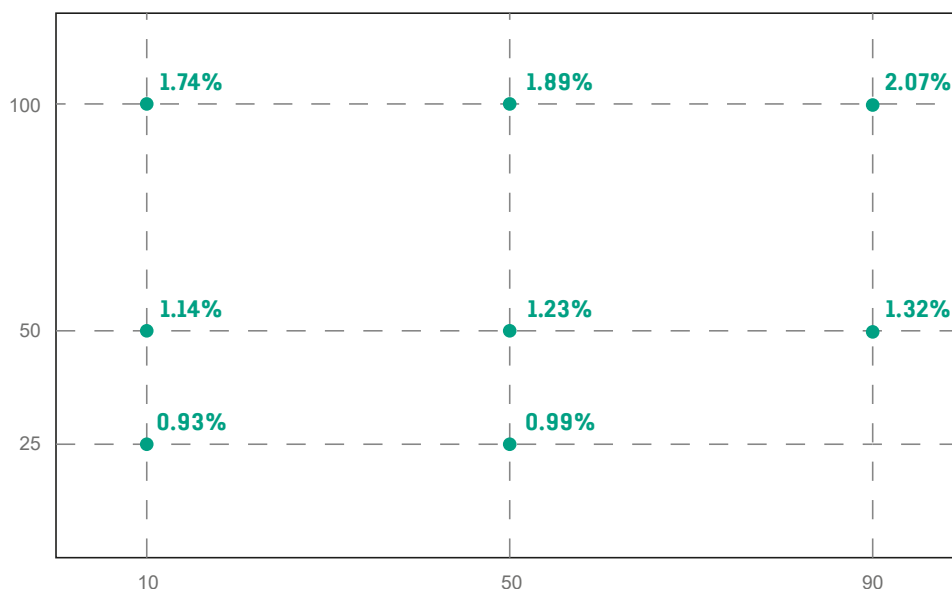
**S9013H**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>30</b>   |
| Nominal current                 | (A)   | <b>62</b>   |
| Nominal apparent power          | (kVA) | <b>40.4</b> |
| Standby loss                    | (W)   | <b>76</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 836.96            | 97.4%        |
| 90          | 50        | 1.32%         | 531.70            | 97.1%        |
| 50          | 100       | 1.89%         | 764.80            | 95.7%        |
| 50          | 50        | 1.23%         | 494.89            | 95.3%        |
| 50          | 25        | 0.99%         | 400.54            | 94.7%        |
| 10          | 100       | 1.74%         | 702.97            | 83.0%        |
| 10          | 50        | 1.14%         | 461.55            | 81.2%        |
| 10          | 25        | 0.93%         | 377.09            | 79.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-EH-4370-KBX-4**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

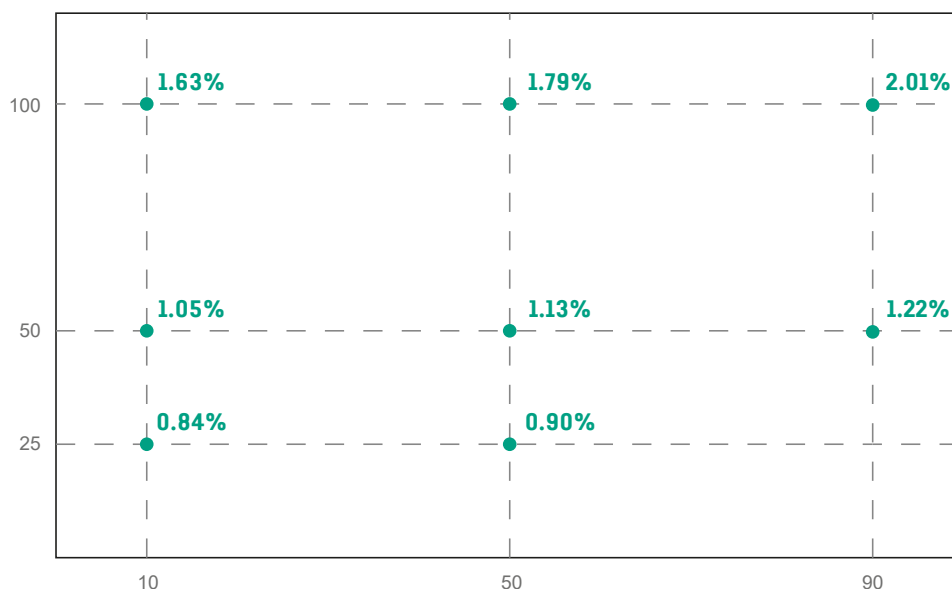
**S9015H**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>37</b>   |
| Nominal current                 | (A)   | <b>75</b>   |
| Nominal apparent power          | (kVA) | <b>48.8</b> |
| Standby loss                    | (W)   | <b>89</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.01%         | 980.88            | 97.4%        |
| 90          | 50        | 1.22%         | 597.76            | 97.3%        |
| 50          | 100       | 1.79%         | 875.11            | 96.0%        |
| 50          | 50        | 1.13%         | 549.53            | 95.6%        |
| 50          | 25        | 0.90%         | 438.75            | 95.2%        |
| 10          | 100       | 1.63%         | 798.06            | 83.9%        |
| 10          | 50        | 1.05%         | 510.96            | 82.5%        |
| 10          | 25        | 0.84%         | 412.51            | 80.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-EH-4450-KBX-4**

**IE2**

**EFFICIENCY:**

**97.3%**

Code

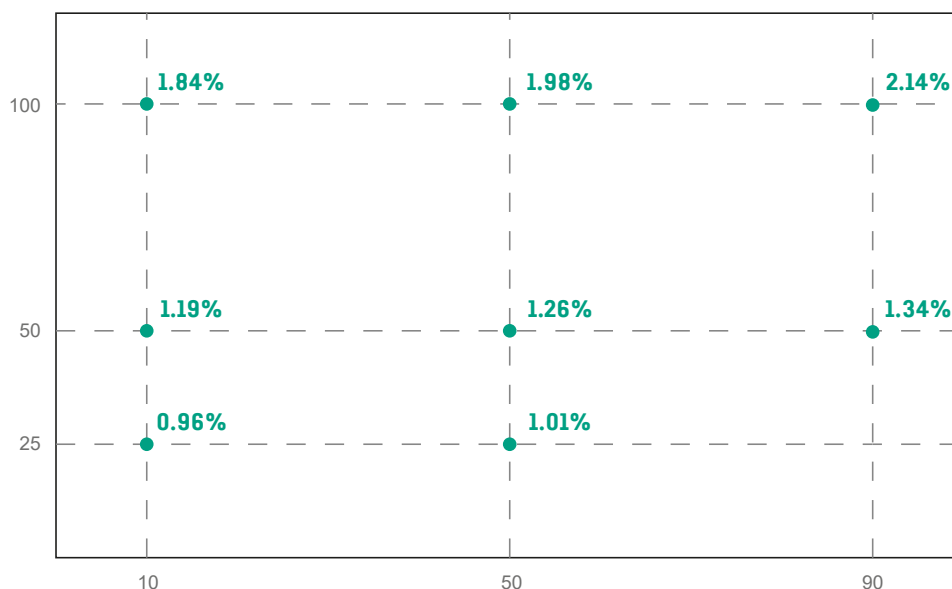
**S9017H**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>45</b>   |
| Nominal current                 | (A)   | <b>87</b>   |
| Nominal apparent power          | (kVA) | <b>56.7</b> |
| Standby loss                    | (W)   | <b>110</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.14%         | 1,214.58          | 97.3%        |
| 90          | 50        | 1.34%         | 759.44            | 97.1%        |
| 50          | 100       | 1.98%         | 1,121.61          | 95.6%        |
| 50          | 50        | 1.26%         | 713.70            | 95.2%        |
| 50          | 25        | 1.01%         | 569.50            | 94.7%        |
| 10          | 100       | 1.84%         | 1,045.20          | 82.3%        |
| 10          | 50        | 1.19%         | 673.55            | 80.8%        |
| 10          | 25        | 0.96%         | 541.57            | 79.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-EH-5550-KBX-4**

**IE2** EFFICIENCY: **97.4%**

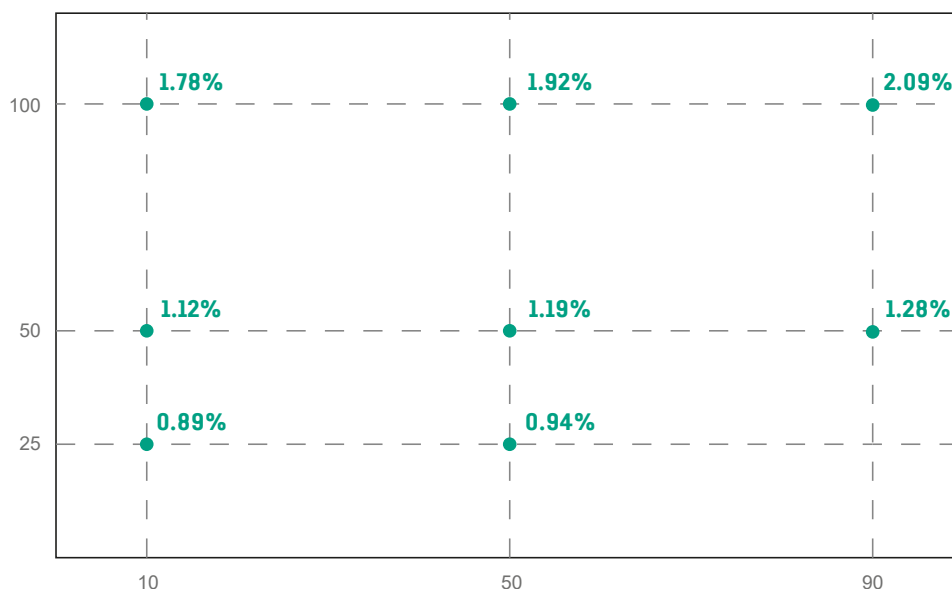
Code **S9019H**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>55</b>   |
| Nominal current                 | (A)   | <b>105</b>  |
| Nominal apparent power          | (kVA) | <b>68.4</b> |
| Standby loss                    | (W)   | <b>130</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.09%         | 1,431.96          | 97.4%        |
| 90          | 50        | 1.28%         | 875.52            | 97.2%        |
| 50          | 100       | 1.92%         | 1,310.93          | 95.7%        |
| 50          | 50        | 1.19%         | 816.88            | 95.4%        |
| 50          | 25        | 0.94%         | 645.19            | 95.0%        |
| 10          | 100       | 1.78%         | 1,214.14          | 82.9%        |
| 10          | 50        | 1.12%         | 766.40            | 81.7%        |
| 10          | 25        | 0.89%         | 610.20            | 80.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-EH-5550-KXX-4**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

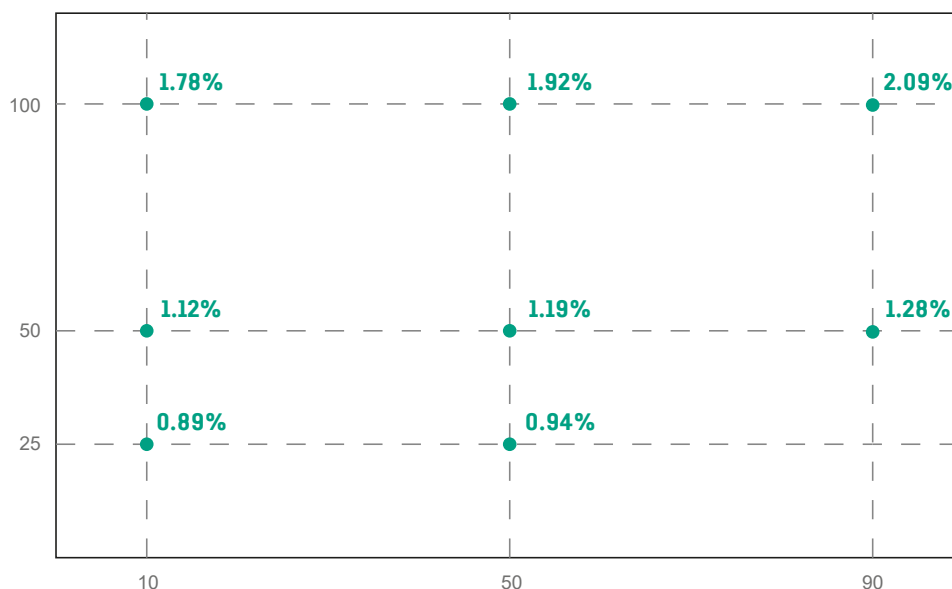
**S9018H**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>55</b>   |
| Nominal current                 | (A)   | <b>105</b>  |
| Nominal apparent power          | (kVA) | <b>68.4</b> |
| Standby loss                    | (W)   | <b>130</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.09%         | 1,431.96          | 97.4%        |
| 90          | 50        | 1.28%         | 875.52            | 97.2%        |
| 50          | 100       | 1.92%         | 1,310.93          | 95.7%        |
| 50          | 50        | 1.19%         | 816.88            | 95.4%        |
| 50          | 25        | 0.94%         | 645.19            | 95.0%        |
| 10          | 100       | 1.78%         | 1,214.14          | 82.9%        |
| 10          | 50        | 1.12%         | 766.40            | 81.7%        |
| 10          | 25        | 0.89%         | 610.20            | 80.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-EH-5750-KXX-4**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

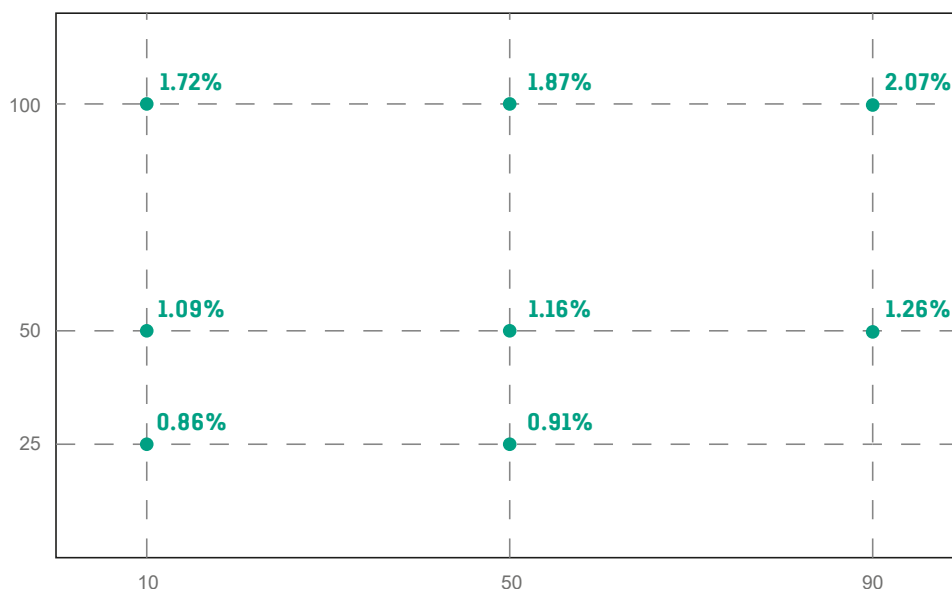
**S9020H**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>75</b>   |
| Nominal current                 | (A)   | <b>150</b>  |
| Nominal apparent power          | (kVA) | <b>97.7</b> |
| Standby loss                    | (W)   | <b>184</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 2,024.88          | 97.4%        |
| 90          | 50        | 1.26%         | 1,226.35          | 97.3%        |
| 50          | 100       | 1.87%         | 1,831.36          | 95.8%        |
| 50          | 50        | 1.16%         | 1,135.65          | 95.5%        |
| 50          | 25        | 0.91%         | 893.53            | 95.2%        |
| 10          | 100       | 1.72%         | 1,683.33          | 83.3%        |
| 10          | 50        | 1.09%         | 1,060.26          | 82.1%        |
| 10          | 25        | 0.86%         | 841.81            | 80.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-EH-5900-KXX-4**

**IE2**

**EFFICIENCY:**

**97.6%**

Code

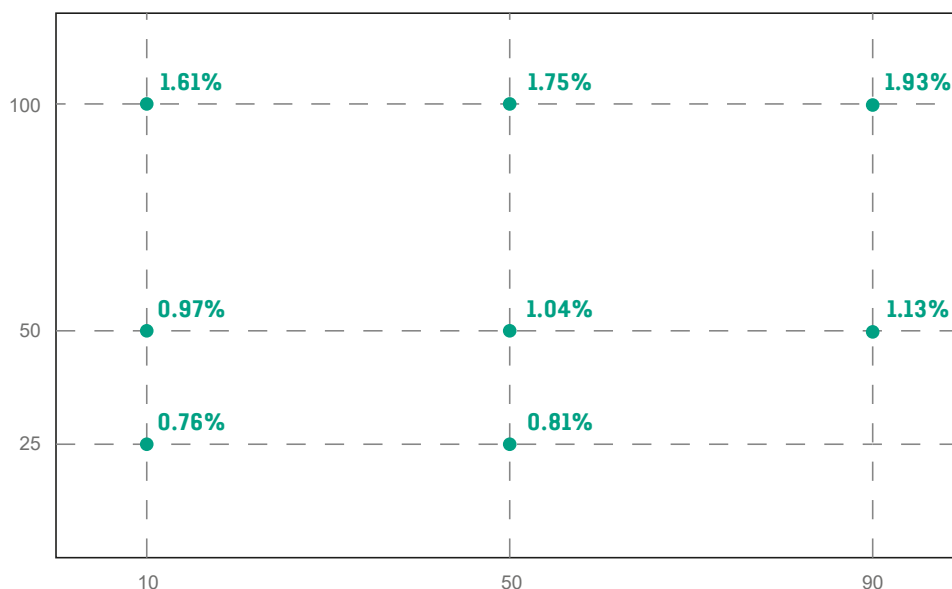
**S902IH**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>90</b>    |
| Nominal current                 | (A)   | <b>180</b>   |
| Nominal apparent power          | (kVA) | <b>117.2</b> |
| Standby loss                    | (W)   | <b>205</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.93%         | 2,257.49          | 97.6%        |
| 90          | 50        | 1.13%         | 1,322.22          | 97.5%        |
| 50          | 100       | 1.75%         | 2,051.77          | 96.1%        |
| 50          | 50        | 1.04%         | 1,224.33          | 96.0%        |
| 50          | 25        | 0.81%         | 944.69            | 95.7%        |
| 10          | 100       | 1.61%         | 1,889.73          | 84.2%        |
| 10          | 50        | 0.97%         | 1,141.14          | 83.7%        |
| 10          | 25        | 0.76%         | 887.42            | 82.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-EH-61320-KXX-4**

**IE2**

**EFFICIENCY:**

**98.0%**

Code

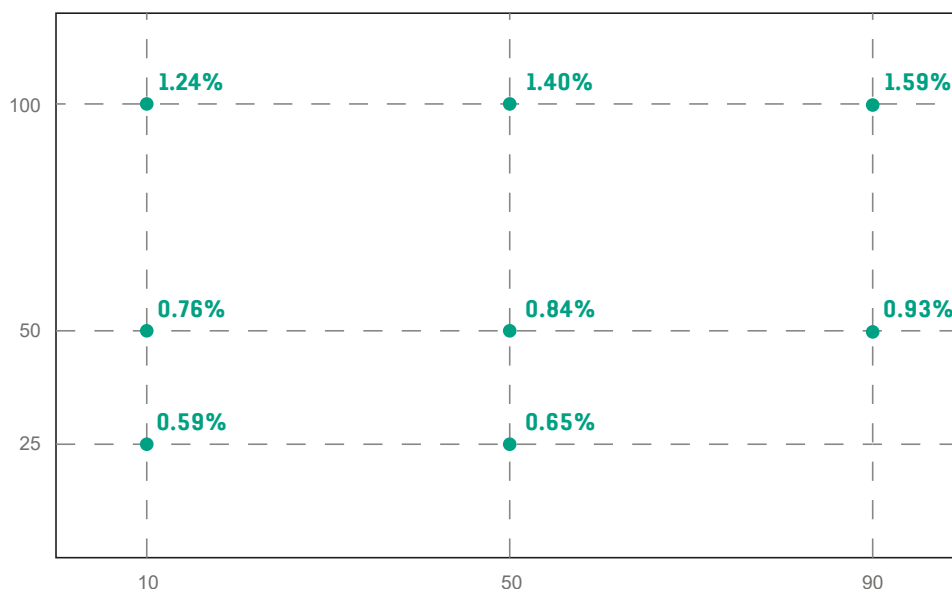
**On request**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>132</b>   |
| Nominal current                 | (A)   | <b>250</b>   |
| Nominal apparent power          | (kVA) | <b>162.8</b> |
| Standby loss                    | (W)   | <b>236</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.59%         | 2,596.15          | 98.0%        |
| 90          | 50        | 0.93%         | 1,513.51          | 98.0%        |
| 50          | 100       | 1.40%         | 2,275.29          | 96.9%        |
| 50          | 50        | 0.84%         | 1,360.86          | 96.8%        |
| 50          | 25        | 0.65%         | 1,051.50          | 96.5%        |
| 10          | 100       | 1.24%         | 2,017.62          | 87.4%        |
| 10          | 50        | 0.76%         | 1,229.46          | 86.9%        |
| 10          | 25        | 0.59%         | 961.33            | 85.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-EHR-2075-KBX-4**

**IE2**

**EFFICIENCY:**

**96.7%**

Code

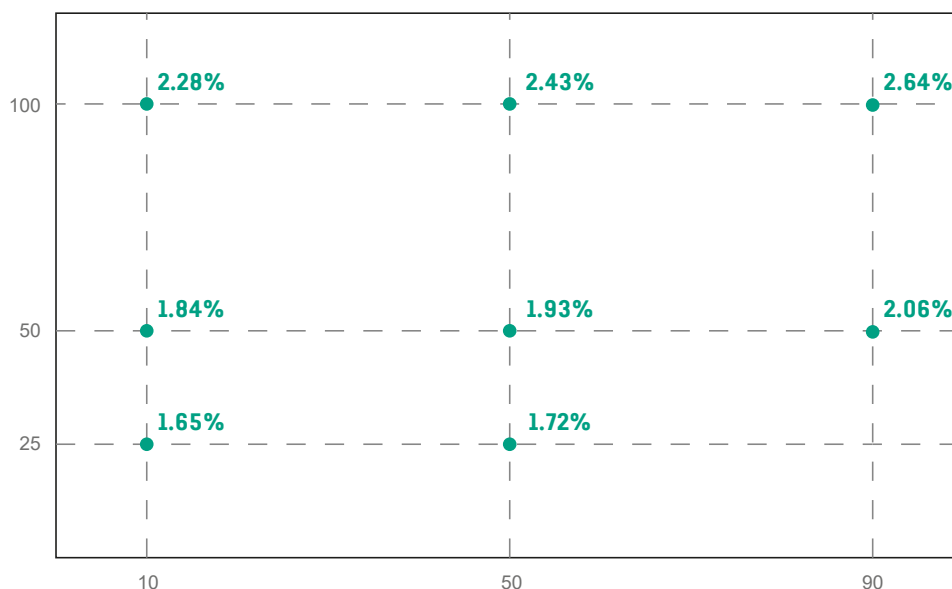
**On request**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>7.5</b>   |
| Nominal current                 | (A)   | <b>16.5</b>  |
| Nominal apparent power          | (kVA) | <b>10.75</b> |
| Standby loss                    | (W)   | <b>26</b>    |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.64%         | 283.96            | 96.7%        |
| 90          | 50        | 2.06%         | 221.32            | 96.3%        |
| 50          | 100       | 2.43%         | 261.60            | 94.6%        |
| 50          | 50        | 1.93%         | 207.92            | 94.0%        |
| 50          | 25        | 1.72%         | 185.34            | 93.5%        |
| 10          | 100       | 2.28%         | 245.28            | 78.8%        |
| 10          | 50        | 1.84%         | 197.58            | 76.6%        |
| 10          | 25        | 1.65%         | 177.34            | 74.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-EHR-2110-KBX-4**

**IE2**

**EFFICIENCY:**

**97.0%**

Code

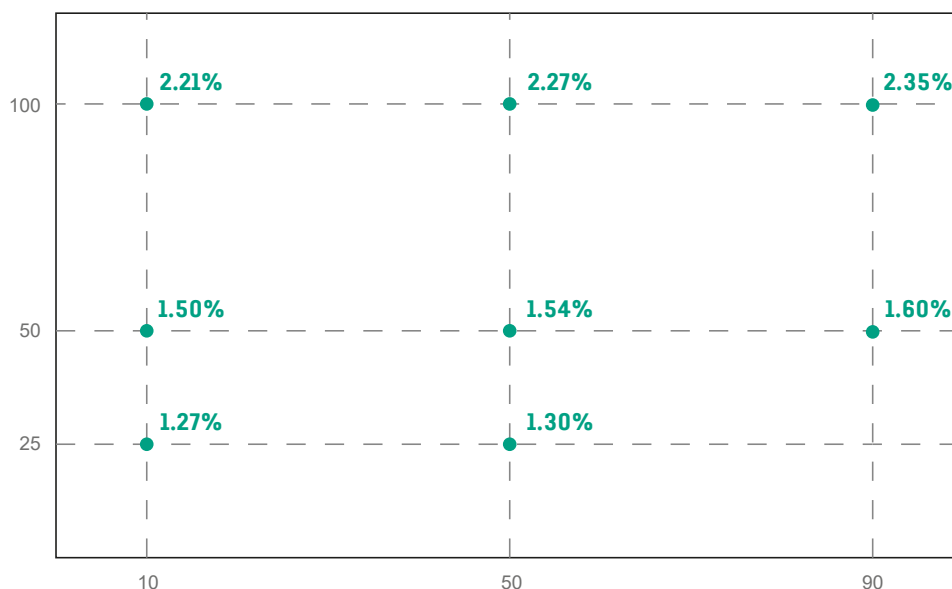
**S9033H**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>11</b>  |
| Nominal current                 | (A)   | <b>23</b>  |
| Nominal apparent power          | (kVA) | <b>15</b>  |
| Standby loss                    | (W)   | <b>32</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.35%         | 351.60            | 97.0%        |
| 90          | 50        | 1.60%         | 239.08            | 96.6%        |
| 50          | 100       | 2.27%         | 339.54            | 94.9%        |
| 50          | 50        | 1.54%         | 231.42            | 94.3%        |
| 50          | 25        | 1.30%         | 195.08            | 93.6%        |
| 10          | 100       | 2.21%         | 331.32            | 79.4%        |
| 10          | 50        | 1.50%         | 225.13            | 77.2%        |
| 10          | 25        | 1.27%         | 189.98            | 75.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-EH-3150-KBX-4**

**IE2**

**EFFICIENCY:**

**97.2%**

Code

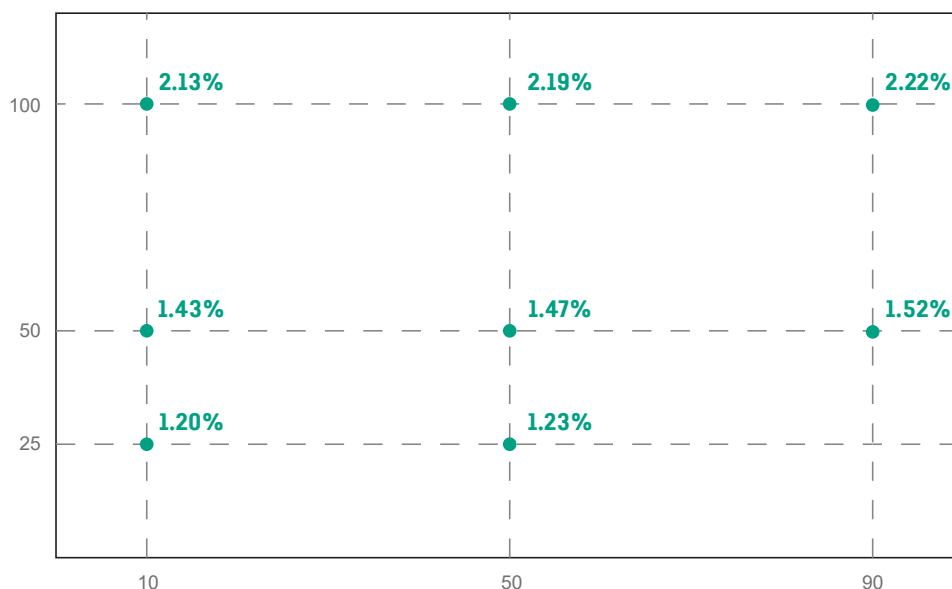
**S9032H**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>15</b>   |
| Nominal current                 | (A)   | <b>31</b>   |
| Nominal apparent power          | (kVA) | <b>20.2</b> |
| Standby loss                    | (W)   | <b>41</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.22%         | 449.00            | 97.2%        |
| 90          | 50        | 1.52%         | 307.79            | 96.8%        |
| 50          | 100       | 2.19%         | 441.42            | 95.1%        |
| 50          | 50        | 1.47%         | 297.10            | 94.5%        |
| 50          | 25        | 1.23%         | 248.44            | 94.0%        |
| 10          | 100       | 2.13%         | 430.38            | 79.9%        |
| 10          | 50        | 1.43%         | 288.64            | 78.1%        |
| 10          | 25        | 1.20%         | 241.58            | 76.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-EHR-3185-KBX-4**

**IE2**

**EFFICIENCY:**

**97.2%**

Code

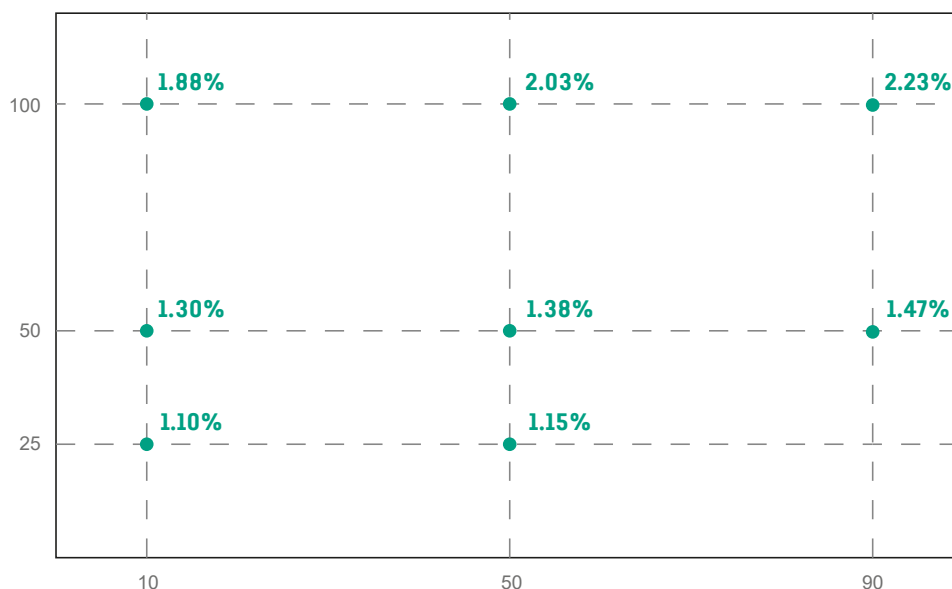
**S9035H**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>18.5</b>  |
| Nominal current                 | (A)   | <b>38</b>    |
| Nominal apparent power          | (kVA) | <b>24.75</b> |
| Standby loss                    | (W)   | <b>50</b>    |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.23%         | 552.10            | 97.2%        |
| 90          | 50        | 1.47%         | 364.08            | 96.9%        |
| 50          | 100       | 2.03%         | 502.12            | 95.4%        |
| 50          | 50        | 1.38%         | 340.61            | 94.9%        |
| 50          | 25        | 1.15%         | 284.60            | 94.3%        |
| 10          | 100       | 1.88%         | 465.36            | 81.9%        |
| 10          | 50        | 1.30%         | 321.90            | 79.7%        |
| 10          | 25        | 1.10%         | 271.51            | 77.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-EH-3220-KBX-4**

**IE2** EFFICIENCY: **96.8%**

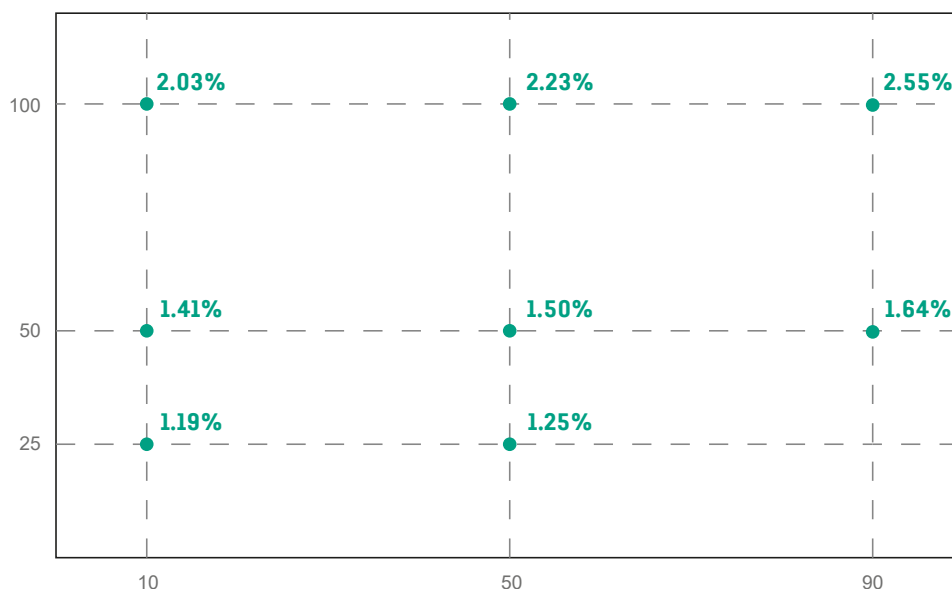
Code **S903IH**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>22</b>  |
| Nominal current                 | (A)   | <b>46</b>  |
| Nominal apparent power          | (kVA) | <b>30</b>  |
| Standby loss                    | (W)   | <b>69</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.55%         | 762.48            | 96.8%        |
| 90          | 50        | 1.64%         | 491.42            | 96.5%        |
| 50          | 100       | 2.23%         | 667.55            | 95.0%        |
| 50          | 50        | 1.50%         | 450.11            | 94.4%        |
| 50          | 25        | 1.25%         | 374.71            | 93.9%        |
| 10          | 100       | 2.03%         | 607.10            | 80.7%        |
| 10          | 50        | 1.41%         | 421.21            | 78.4%        |
| 10          | 25        | 1.19%         | 355.10            | 76.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-EHR-4300-KBX-4**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

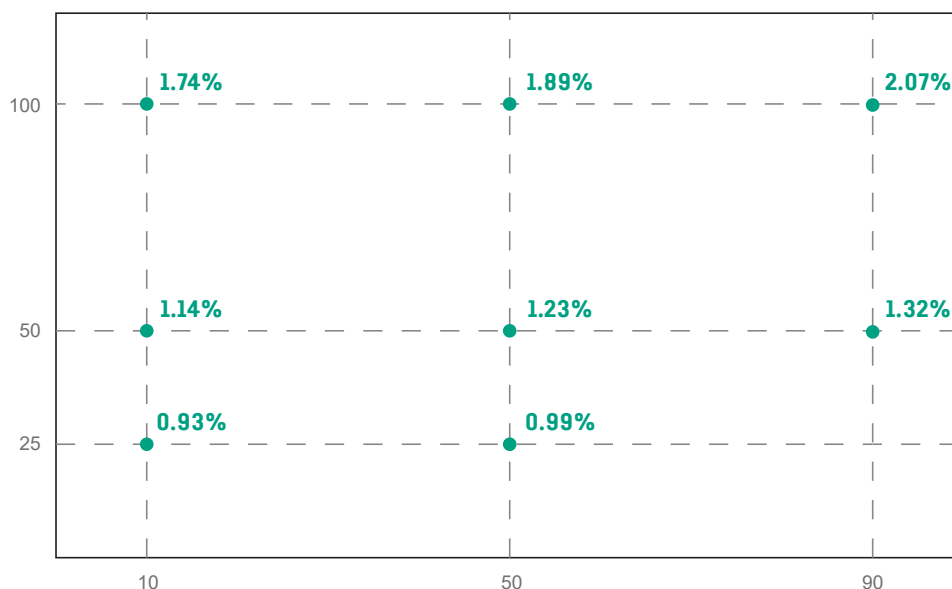
**S9034H**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>30</b>   |
| Nominal current                 | (A)   | <b>62</b>   |
| Nominal apparent power          | (kVA) | <b>40.4</b> |
| Standby loss                    | (W)   | <b>76</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 836.96            | 97.4%        |
| 90          | 50        | 1.32%         | 531.70            | 97.1%        |
| 50          | 100       | 1.89%         | 764.80            | 95.7%        |
| 50          | 50        | 1.23%         | 494.89            | 95.3%        |
| 50          | 25        | 0.99%         | 400.54            | 94.7%        |
| 10          | 100       | 1.74%         | 702.97            | 83.0%        |
| 10          | 50        | 1.14%         | 461.55            | 81.2%        |
| 10          | 25        | 0.93%         | 377.09            | 79.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-EHR-4300-KXX-4**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

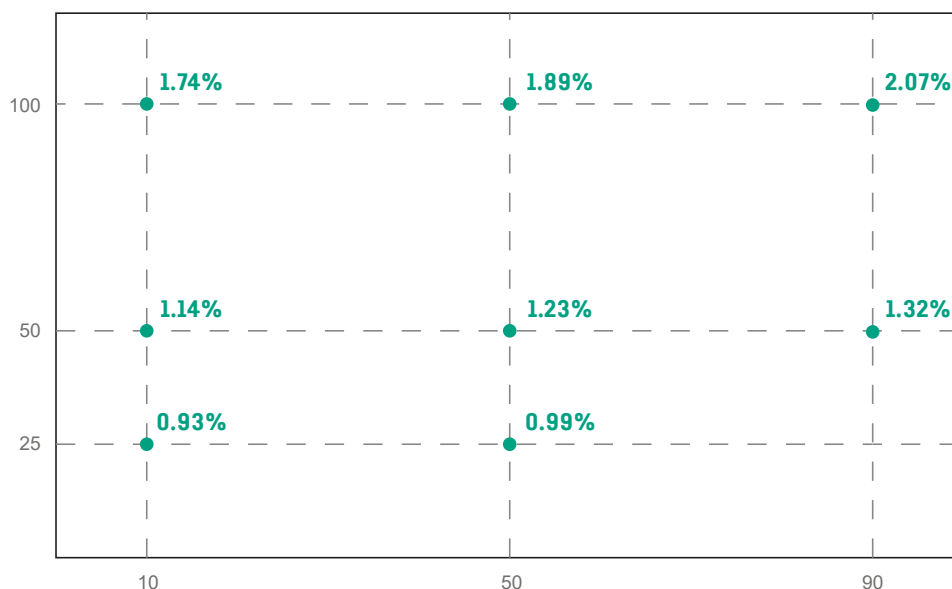
**S9036H**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>30</b>   |
| Nominal current                 | (A)   | <b>62</b>   |
| Nominal apparent power          | (kVA) | <b>40.4</b> |
| Standby loss                    | (W)   | <b>76</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 836.96            | 97.4%        |
| 90          | 50        | 1.32%         | 531.70            | 97.1%        |
| 50          | 100       | 1.89%         | 764.80            | 95.7%        |
| 50          | 50        | 1.23%         | 494.89            | 95.3%        |
| 50          | 25        | 0.99%         | 400.54            | 94.7%        |
| 10          | 100       | 1.74%         | 702.97            | 83.0%        |
| 10          | 50        | 1.14%         | 461.55            | 81.2%        |
| 10          | 25        | 0.93%         | 377.09            | 79.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ADV200-EH/EHR, External Heatsink Version + Safety Card Category SIL3

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| S9009HSI ..... | 233 |
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| S9018HSI ..... | 239 |
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| S9033HSI ..... | 243 |
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| ADV200-EH-1022-KBX-4+SI .....  | 228 |
| ADV200-EH-1030-KBX-4+SI .....  | 229 |
| ADV200-EH-1040-KBX-4+SI .....  | 230 |
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| ADV200-EH-5550-KXX-4+SI .....  | 239 |
| ADV200-EH-5750-KXX-4+SI .....  | 240 |
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# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-EH-1015-KBX-4+SI**

**IE2** EFFICIENCY: **95.7%**

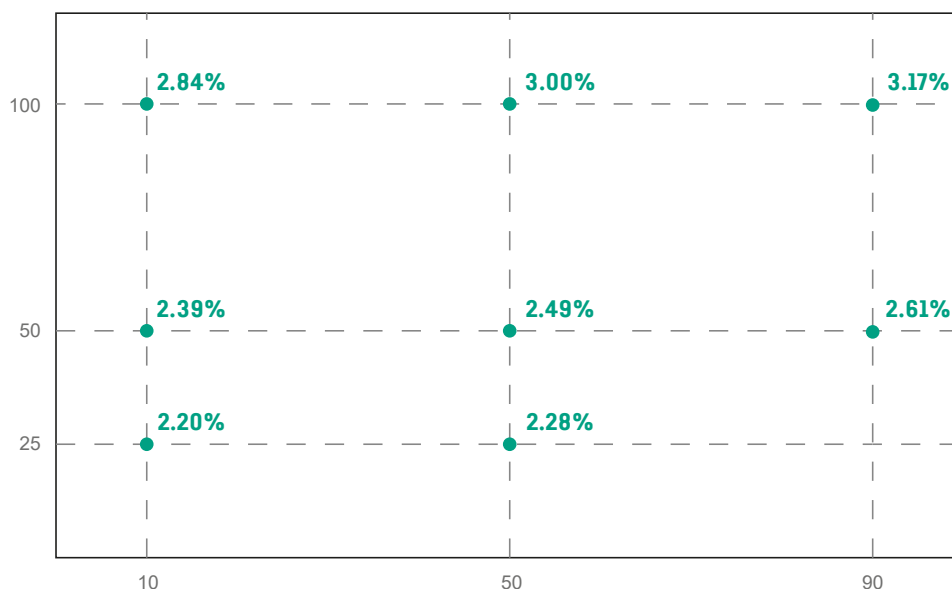
Code **On request**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>1.5</b> |
| Nominal current                 | (A)   | <b>4,3</b> |
| Nominal apparent power          | (kVA) | <b>2.8</b> |
| Standby loss                    | (W)   | <b>8</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 3.17%         | 88.82             | 95.7%        |
| 90          | 50        | 2.61%         | 72.95             | 95.1%        |
| 50          | 100       | 3.00%         | 83.95             | 92.9%        |
| 50          | 50        | 2.49%         | 69.86             | 91.8%        |
| 50          | 25        | 2.28%         | 63.90             | 90.9%        |
| 10          | 100       | 2.84%         | 79.65             | 73.5%        |
| 10          | 50        | 2.39%         | 67.05             | 70.1%        |
| 10          | 25        | 2.20%         | 61.70             | 67.5%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-EH-1022-KBX-4+SI**

**IE2** EFFICIENCY: **96.0%**

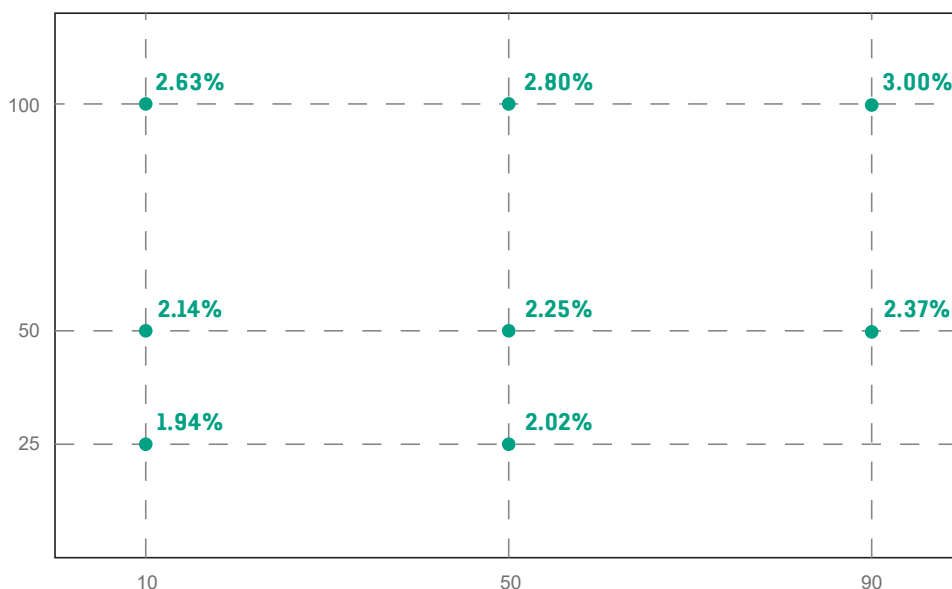
Code **S9003HSI**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>2.2</b> |
| Nominal current                 | (A)   | <b>5.8</b> |
| Nominal apparent power          | (kVA) | <b>3.8</b> |
| Standby loss                    | (W)   | <b>10</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 3.00%         | 113.27            | 96.0%        |
| 90          | 50        | 2.37%         | 89.62             | 95.5%        |
| 50          | 100       | 2.80%         | 105.86            | 93.4%        |
| 50          | 50        | 2.25%         | 85.02             | 92.6%        |
| 50          | 25        | 2.02%         | 76.35             | 91.9%        |
| 10          | 100       | 2.63%         | 99.49             | 75.0%        |
| 10          | 50        | 2.14%         | 80.94             | 72.4%        |
| 10          | 25        | 1.94%         | 73.18             | 70.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-EH-1030-KBX-4+SI**

**IE2** EFFICIENCY: **95.8%**

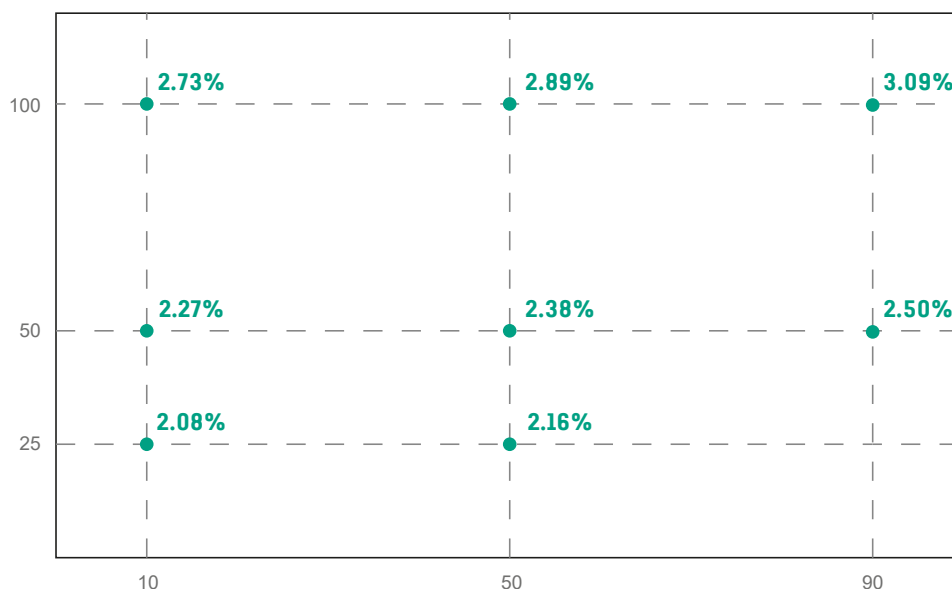
Code **On request**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>3</b>   |
| Nominal current                 | (A)   | <b>7.6</b> |
| Nominal apparent power          | (kVA) | <b>5</b>   |
| Standby loss                    | (W)   | <b>14</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 3.09%         | 152.80            | 95.8%        |
| 90          | 50        | 2.50%         | 123.97            | 95.3%        |
| 50          | 100       | 2.89%         | 143.08            | 93.2%        |
| 50          | 50        | 2.38%         | 117.80            | 92.2%        |
| 50          | 25        | 2.16%         | 107.15            | 91.4%        |
| 10          | 100       | 2.73%         | 135.13            | 74.3%        |
| 10          | 50        | 2.27%         | 112.52            | 71.2%        |
| 10          | 25        | 2.08%         | 102.98            | 68.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-EH-1040-KBX-4+SI**

**IE2** EFFICIENCY: **96.2%**

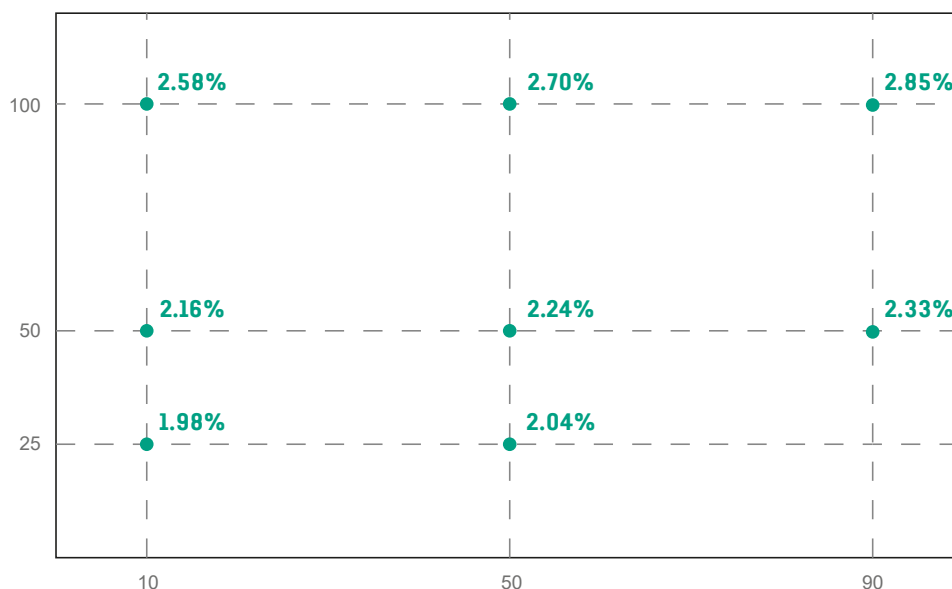
Code **On request**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>4</b>   |
| Nominal current                 | (A)   | <b>7.6</b> |
| Nominal apparent power          | (kVA) | <b>5</b>   |
| Standby loss                    | (W)   | <b>16</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.85%         | 176.12            | 96.2%        |
| 90          | 50        | 2.33%         | 143.97            | 95.6%        |
| 50          | 100       | 2.70%         | 167.24            | 93.6%        |
| 50          | 50        | 2.24%         | 138.36            | 92.6%        |
| 50          | 25        | 2.04%         | 126.09            | 91.8%        |
| 10          | 100       | 2.58%         | 159.83            | 75.4%        |
| 10          | 50        | 2.16%         | 133.48            | 72.2%        |
| 10          | 25        | 1.98%         | 122.25            | 69.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-EH-2075-KBX-4+SI**

**IE2** EFFICIENCY: **96.7%**

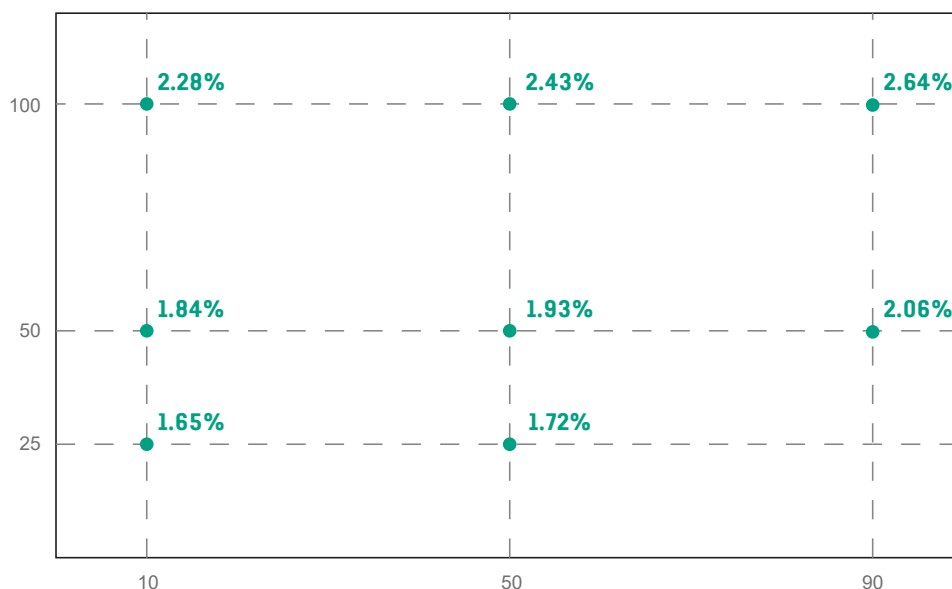
Code **S9007HSI**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>7.5</b>   |
| Nominal current                 | (A)   | <b>16.5</b>  |
| Nominal apparent power          | (kVA) | <b>10.75</b> |
| Standby loss                    | (W)   | <b>26</b>    |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.64%         | 283.96            | 96.7%        |
| 90          | 50        | 2.06%         | 221.32            | 96.3%        |
| 50          | 100       | 2.43%         | 261.60            | 94.6%        |
| 50          | 50        | 1.93%         | 207.92            | 94.0%        |
| 50          | 25        | 1.72%         | 185.34            | 93.5%        |
| 10          | 100       | 2.28%         | 245.28            | 78.8%        |
| 10          | 50        | 1.84%         | 197.58            | 76.6%        |
| 10          | 25        | 1.65%         | 177.34            | 74.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-EH-2110-KBX-4+SI**

**IE2** EFFICIENCY: **97.0%**

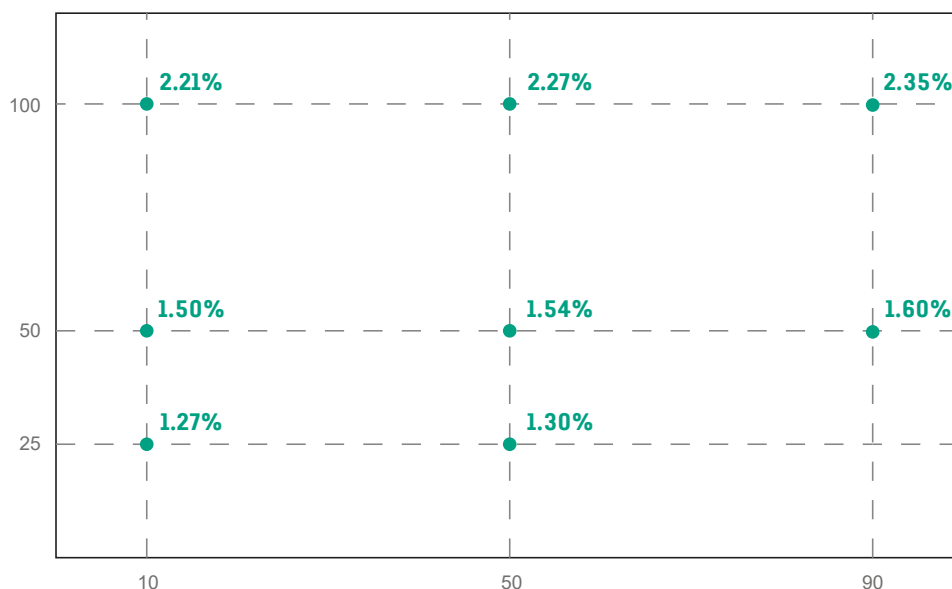
Code **S9008HSI**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>11</b>  |
| Nominal current                 | (A)   | <b>23</b>  |
| Nominal apparent power          | (kVA) | <b>15</b>  |
| Standby loss                    | (W)   | <b>32</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.35%         | 351.60            | 97.0%        |
| 90          | 50        | 1.60%         | 239.08            | 96.6%        |
| 50          | 100       | 2.27%         | 339.54            | 94.9%        |
| 50          | 50        | 1.54%         | 231.42            | 94.3%        |
| 50          | 25        | 1.30%         | 195.08            | 93.6%        |
| 10          | 100       | 2.21%         | 331.32            | 79.4%        |
| 10          | 50        | 1.50%         | 225.13            | 77.2%        |
| 10          | 25        | 1.27%         | 189.98            | 75.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-EH-3150-KBX-4+SI**

**IE2** EFFICIENCY: **97.2%**

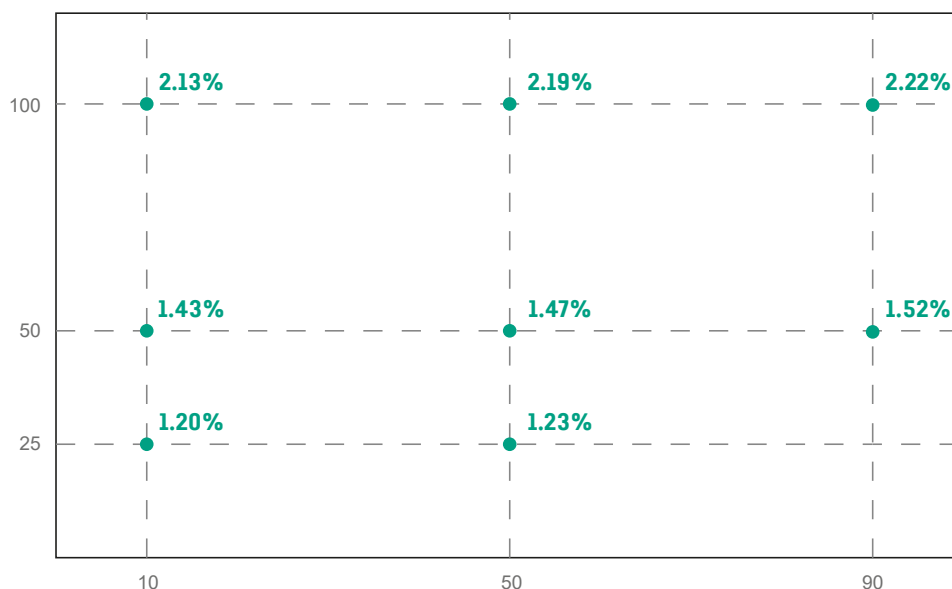
Code **S9009HSI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>15</b>   |
| Nominal current                 | (A)   | <b>31</b>   |
| Nominal apparent power          | (kVA) | <b>20.2</b> |
| Standby loss                    | (W)   | <b>41</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.22%         | 449.00            | 97.2%        |
| 90          | 50        | 1.52%         | 307.79            | 96.8%        |
| 50          | 100       | 2.19%         | 441.42            | 95.1%        |
| 50          | 50        | 1.47%         | 297.10            | 94.5%        |
| 50          | 25        | 1.23%         | 248.44            | 94.0%        |
| 10          | 100       | 2.13%         | 430.38            | 79.9%        |
| 10          | 50        | 1.43%         | 288.64            | 78.1%        |
| 10          | 25        | 1.20%         | 241.58            | 76.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-EH-3220-KBX-4+SI**

**IE2** EFFICIENCY: **96.8%**

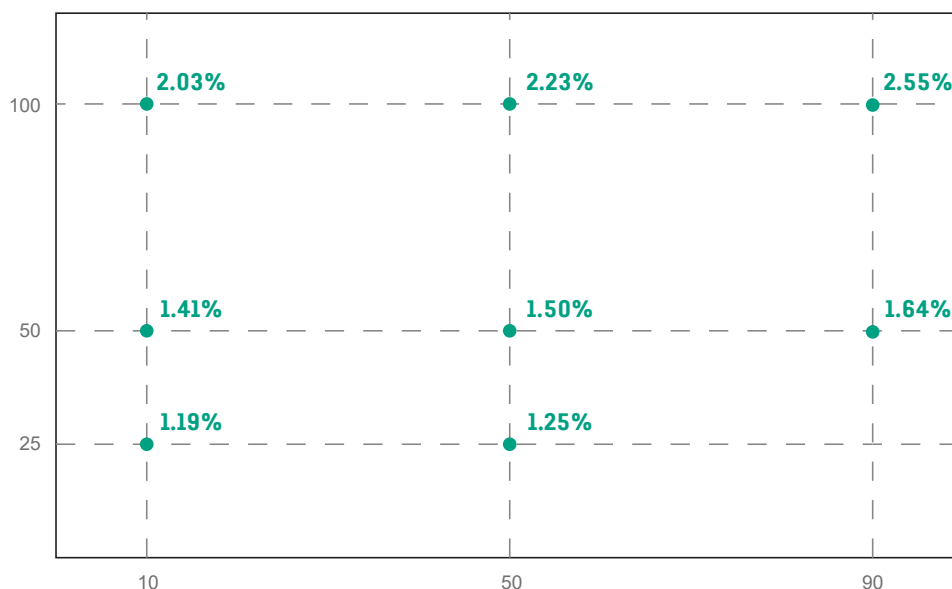
Code **S901HSI**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>22</b>  |
| Nominal current                 | (A)   | <b>46</b>  |
| Nominal apparent power          | (kVA) | <b>30</b>  |
| Standby loss                    | (W)   | <b>69</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.55%         | 762.48            | 96.8%        |
| 90          | 50        | 1.64%         | 491.42            | 96.5%        |
| 50          | 100       | 2.23%         | 667.55            | 95.0%        |
| 50          | 50        | 1.50%         | 450.11            | 94.4%        |
| 50          | 25        | 1.25%         | 374.71            | 93.9%        |
| 10          | 100       | 2.03%         | 607.10            | 80.7%        |
| 10          | 50        | 1.41%         | 421.21            | 78.4%        |
| 10          | 25        | 1.19%         | 355.10            | 76.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-EH-4300-KBX-4+SI**

**IE2** EFFICIENCY: **97.4%**

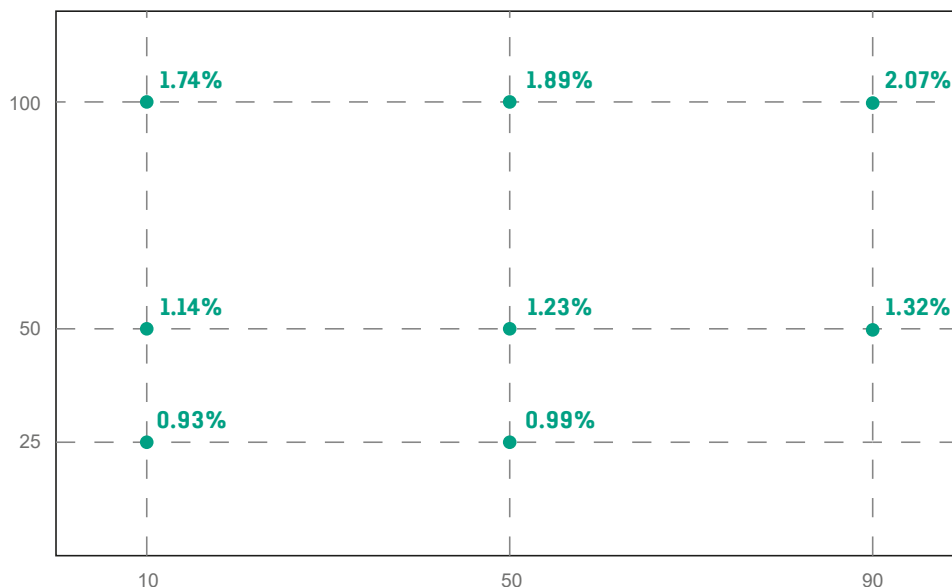
Code **S9013HSI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>30</b>   |
| Nominal current                 | (A)   | <b>62</b>   |
| Nominal apparent power          | (kVA) | <b>40.4</b> |
| Standby loss                    | (W)   | <b>76</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 836.96            | 97.4%        |
| 90          | 50        | 1.32%         | 531.70            | 97.1%        |
| 50          | 100       | 1.89%         | 764.80            | 95.7%        |
| 50          | 50        | 1.23%         | 494.89            | 95.3%        |
| 50          | 25        | 0.99%         | 400.54            | 94.7%        |
| 10          | 100       | 1.74%         | 702.97            | 83.0%        |
| 10          | 50        | 1.14%         | 461.55            | 81.2%        |
| 10          | 25        | 0.93%         | 377.09            | 79.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-EH-4370-KBX-4+SI**

**IE2** EFFICIENCY: **97.4%**

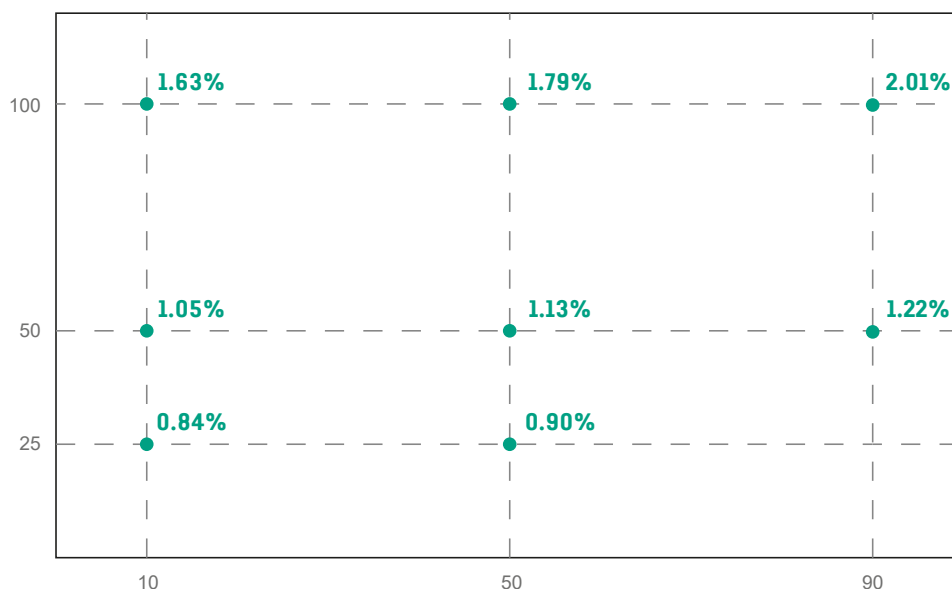
Code **S9015HSI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>37</b>   |
| Nominal current                 | (A)   | <b>75</b>   |
| Nominal apparent power          | (kVA) | <b>48.8</b> |
| Standby loss                    | (W)   | <b>89</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.01%         | 980.88            | 97.4%        |
| 90          | 50        | 1.22%         | 597.76            | 97.3%        |
| 50          | 100       | 1.79%         | 875.11            | 96.0%        |
| 50          | 50        | 1.13%         | 549.53            | 95.6%        |
| 50          | 25        | 0.90%         | 438.75            | 95.2%        |
| 10          | 100       | 1.63%         | 798.06            | 83.9%        |
| 10          | 50        | 1.05%         | 510.96            | 82.5%        |
| 10          | 25        | 0.84%         | 412.51            | 80.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-EH-4450-KBX-4+SI**

**IE2** EFFICIENCY: **97.3%**

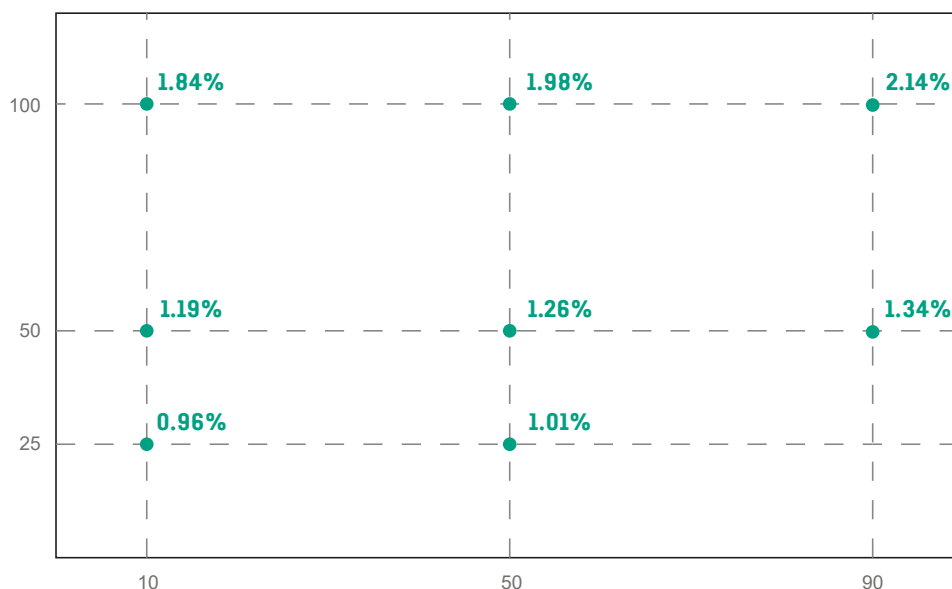
Code **S9017HSI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>45</b>   |
| Nominal current                 | (A)   | <b>87</b>   |
| Nominal apparent power          | (kVA) | <b>56.7</b> |
| Standby loss                    | (W)   | <b>110</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.14%         | 1,214.58          | 97.3%        |
| 90          | 50        | 1.34%         | 759.44            | 97.1%        |
| 50          | 100       | 1.98%         | 1,121.61          | 95.6%        |
| 50          | 50        | 1.26%         | 713.70            | 95.2%        |
| 50          | 25        | 1.01%         | 569.50            | 94.7%        |
| 10          | 100       | 1.84%         | 1,045.20          | 82.3%        |
| 10          | 50        | 1.19%         | 673.55            | 80.8%        |
| 10          | 25        | 0.96%         | 541.57            | 79.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-EH-5550-KBX-4+SI**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

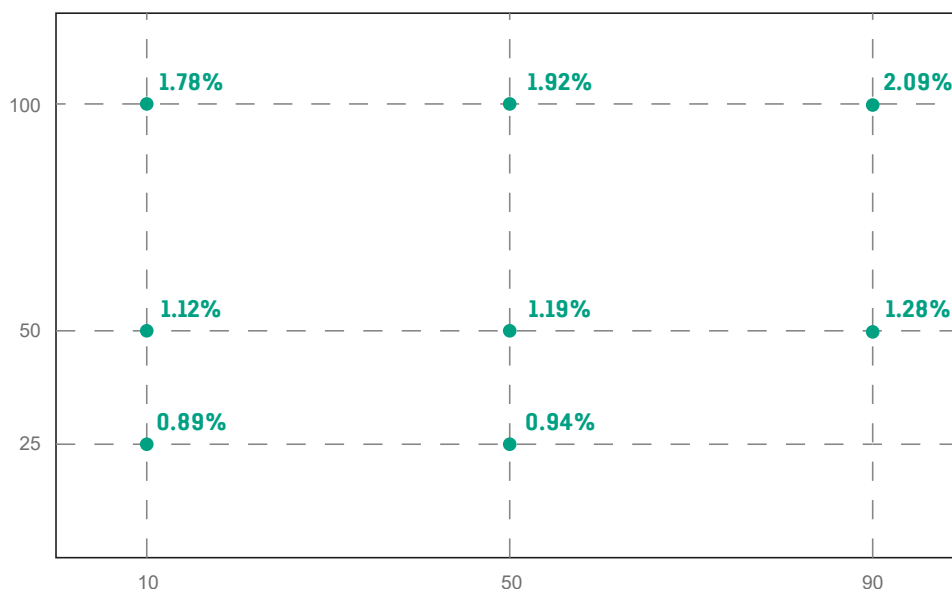
**S9019HSI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>55</b>   |
| Nominal current                 | (A)   | <b>105</b>  |
| Nominal apparent power          | (kVA) | <b>68.4</b> |
| Standby loss                    | (W)   | <b>130</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.09%         | 1,431.96          | 97.4%        |
| 90          | 50        | 1.28%         | 875.52            | 97.2%        |
| 50          | 100       | 1.92%         | 1,310.93          | 95.7%        |
| 50          | 50        | 1.19%         | 816.88            | 95.4%        |
| 50          | 25        | 0.94%         | 645.19            | 95.0%        |
| 10          | 100       | 1.78%         | 1,214.14          | 82.9%        |
| 10          | 50        | 1.12%         | 766.40            | 81.7%        |
| 10          | 25        | 0.89%         | 610.20            | 80.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-EH-5550-KXX-4+SI**

**IE2** EFFICIENCY: **97.4%**

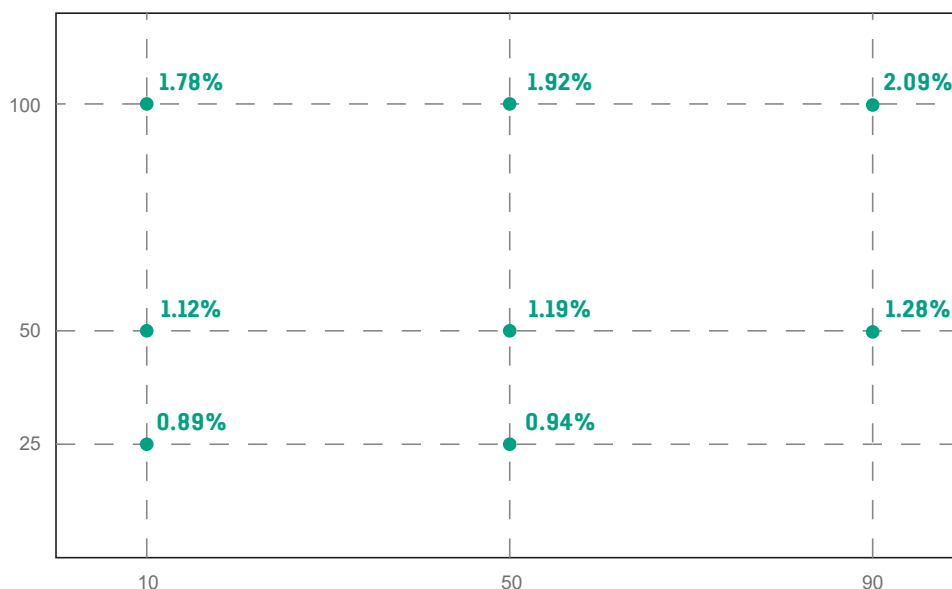
Code **S9018HSI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>55</b>   |
| Nominal current                 | (A)   | <b>105</b>  |
| Nominal apparent power          | (kVA) | <b>68.4</b> |
| Standby loss                    | (W)   | <b>130</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.09%         | 1,431.96          | 97.4%        |
| 90          | 50        | 1.28%         | 875.52            | 97.2%        |
| 50          | 100       | 1.92%         | 1,310.93          | 95.7%        |
| 50          | 50        | 1.19%         | 816.88            | 95.4%        |
| 50          | 25        | 0.94%         | 645.19            | 95.0%        |
| 10          | 100       | 1.78%         | 1,214.14          | 82.9%        |
| 10          | 50        | 1.12%         | 766.40            | 81.7%        |
| 10          | 25        | 0.89%         | 610.20            | 80.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-EH-5750-KXX-4+SI**

**IE2** EFFICIENCY: **97.4%**

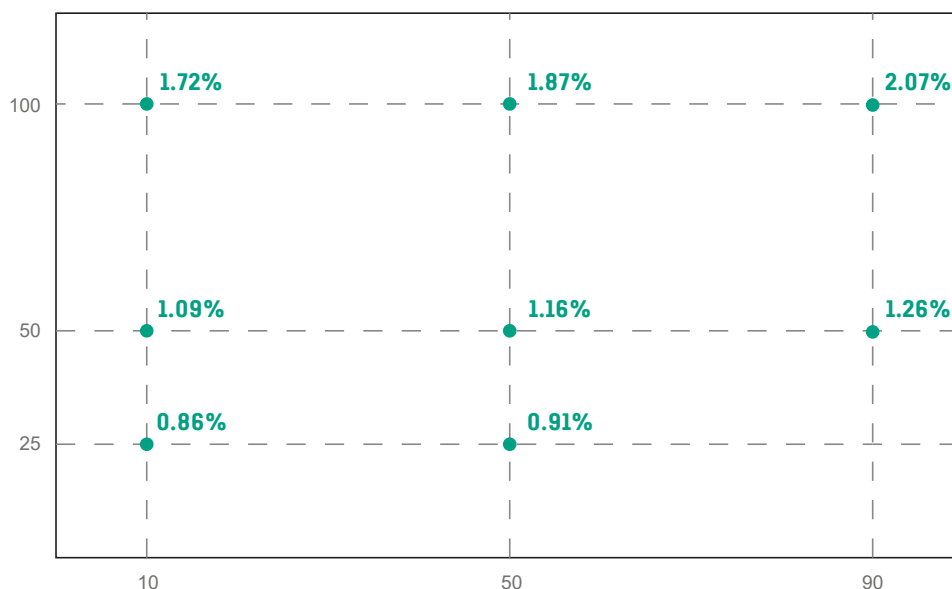
Code **S9020HSI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>75</b>   |
| Nominal current                 | (A)   | <b>150</b>  |
| Nominal apparent power          | (kVA) | <b>97.7</b> |
| Standby loss                    | (W)   | <b>184</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 2,024.88          | 97.4%        |
| 90          | 50        | 1.26%         | 1,226.35          | 97.3%        |
| 50          | 100       | 1.87%         | 1,831.36          | 95.8%        |
| 50          | 50        | 1.16%         | 1,135.65          | 95.5%        |
| 50          | 25        | 0.91%         | 893.53            | 95.2%        |
| 10          | 100       | 1.72%         | 1,683.33          | 83.3%        |
| 10          | 50        | 1.09%         | 1,060.26          | 82.1%        |
| 10          | 25        | 0.86%         | 841.81            | 80.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-EH-5900-KXX-4+SI**

**IE2** EFFICIENCY: **97.6%**

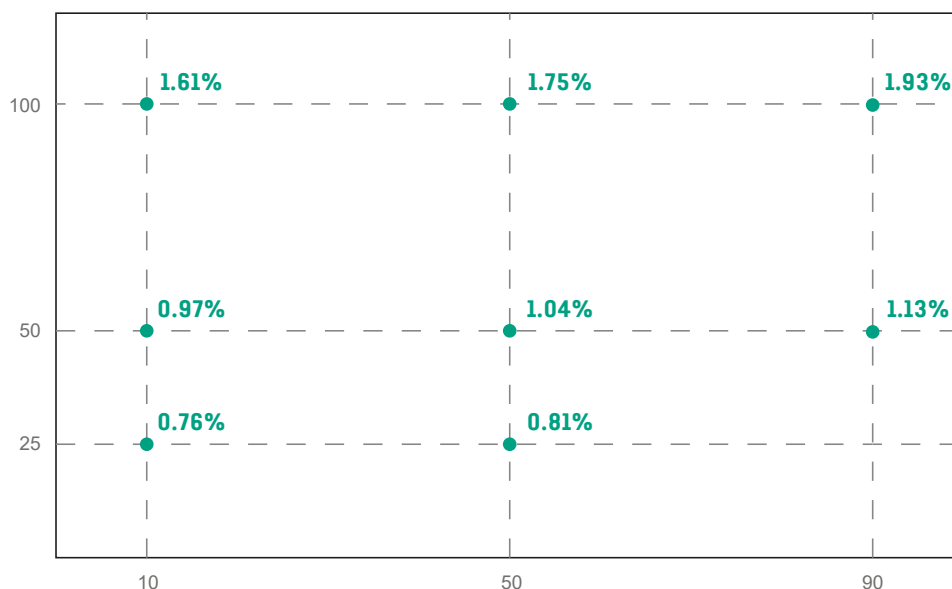
Code **S9021HSI**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>90</b>    |
| Nominal current                 | (A)   | <b>180</b>   |
| Nominal apparent power          | (kVA) | <b>117.2</b> |
| Standby loss                    | (W)   | <b>205</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.93%         | 2,257.49          | 97.6%        |
| 90          | 50        | 1.13%         | 1,322.22          | 97.5%        |
| 50          | 100       | 1.75%         | 2,051.77          | 96.1%        |
| 50          | 50        | 1.04%         | 1,224.33          | 96.0%        |
| 50          | 25        | 0.81%         | 944.69            | 95.7%        |
| 10          | 100       | 1.61%         | 1,889.73          | 84.2%        |
| 10          | 50        | 0.97%         | 1,141.14          | 83.7%        |
| 10          | 25        | 0.76%         | 887.42            | 82.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-EHR-2075-KBX-4+SI**

**IE2** EFFICIENCY: **96.7%**

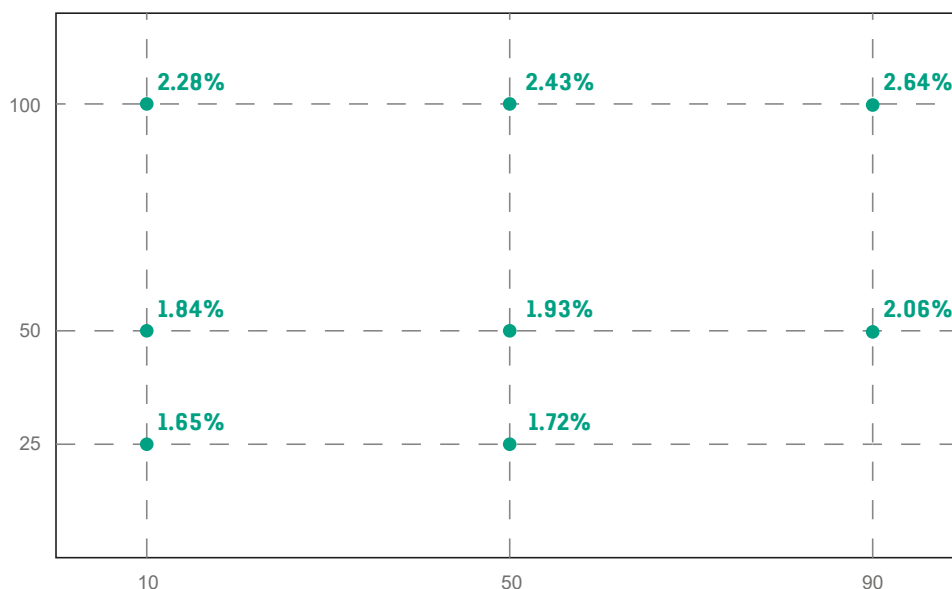
Code **On request**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>7.5</b>   |
| Nominal current                 | (A)   | <b>16.5</b>  |
| Nominal apparent power          | (kVA) | <b>10.75</b> |
| Standby loss                    | (W)   | <b>26</b>    |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.64%         | 283.96            | 96.7%        |
| 90          | 50        | 2.06%         | 221.32            | 96.3%        |
| 50          | 100       | 2.43%         | 261.60            | 94.6%        |
| 50          | 50        | 1.93%         | 207.92            | 94.0%        |
| 50          | 25        | 1.72%         | 185.34            | 93.5%        |
| 10          | 100       | 2.28%         | 245.28            | 78.8%        |
| 10          | 50        | 1.84%         | 197.58            | 76.6%        |
| 10          | 25        | 1.65%         | 177.34            | 74.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-EHR-2110-KBX-4+SI**

**IE2**

**EFFICIENCY:**

**97.0%**

Code

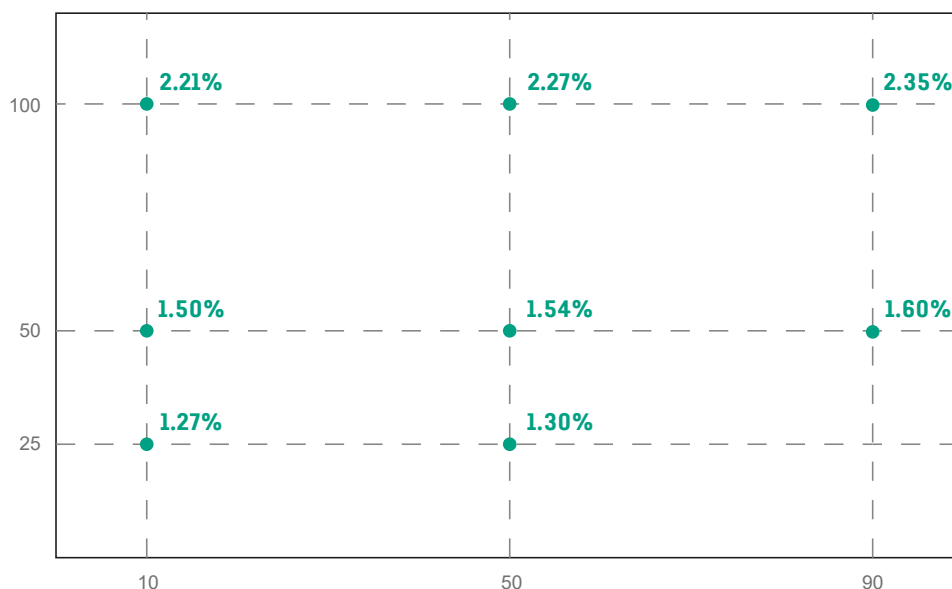
**S9033HSI**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>11</b>  |
| Nominal current                 | (A)   | <b>23</b>  |
| Nominal apparent power          | (kVA) | <b>15</b>  |
| Standby loss                    | (W)   | <b>32</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.35%         | 351.60            | 97.0%        |
| 90          | 50        | 1.60%         | 239.08            | 96.6%        |
| 50          | 100       | 2.27%         | 339.54            | 94.9%        |
| 50          | 50        | 1.54%         | 231.42            | 94.3%        |
| 50          | 25        | 1.30%         | 195.08            | 93.6%        |
| 10          | 100       | 2.21%         | 331.32            | 79.4%        |
| 10          | 50        | 1.50%         | 225.13            | 77.2%        |
| 10          | 25        | 1.27%         | 189.98            | 75.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-EH-3150-KBX-4+SI**

**IE2** EFFICIENCY: **97.2%**

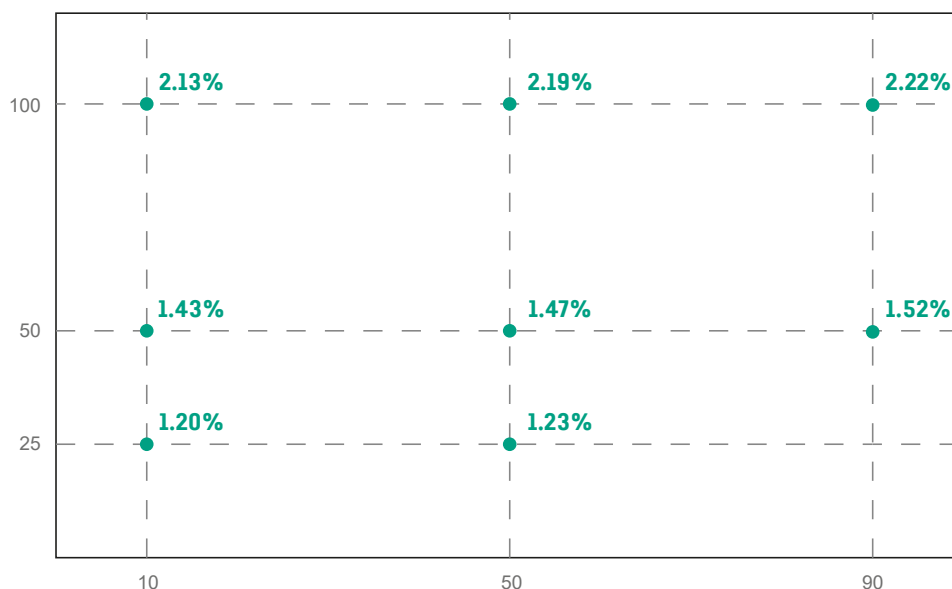
Code **S9032HSI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>15</b>   |
| Nominal current                 | (A)   | <b>31</b>   |
| Nominal apparent power          | (kVA) | <b>20.2</b> |
| Standby loss                    | (W)   | <b>41</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.22%         | 449.00            | 97.2%        |
| 90          | 50        | 1.52%         | 307.79            | 96.8%        |
| 50          | 100       | 2.19%         | 441.42            | 95.1%        |
| 50          | 50        | 1.47%         | 297.10            | 94.5%        |
| 50          | 25        | 1.23%         | 248.44            | 94.0%        |
| 10          | 100       | 2.13%         | 430.38            | 79.9%        |
| 10          | 50        | 1.43%         | 288.64            | 78.1%        |
| 10          | 25        | 1.20%         | 241.58            | 76.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-EHR-3185-KBX-4+SI**

**IE2** EFFICIENCY: **97.2%**

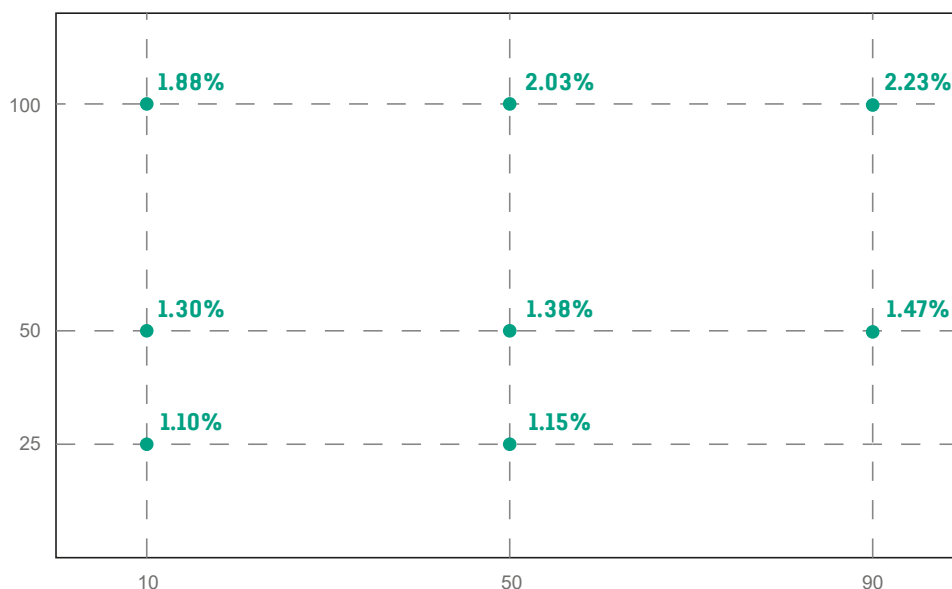
Code **S9035HSI**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>18.5</b>  |
| Nominal current                 | (A)   | <b>38</b>    |
| Nominal apparent power          | (kVA) | <b>24.75</b> |
| Standby loss                    | (W)   | <b>50</b>    |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.23%         | 552.10            | 97.2%        |
| 90          | 50        | 1.47%         | 364.08            | 96.9%        |
| 50          | 100       | 2.03%         | 502.12            | 95.4%        |
| 50          | 50        | 1.38%         | 340.61            | 94.9%        |
| 50          | 25        | 1.15%         | 284.60            | 94.3%        |
| 10          | 100       | 1.88%         | 465.36            | 81.9%        |
| 10          | 50        | 1.30%         | 321.90            | 79.7%        |
| 10          | 25        | 1.10%         | 271.51            | 77.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-EH-3220-KBX-4+SI**

**IE2** EFFICIENCY: **96.8%**

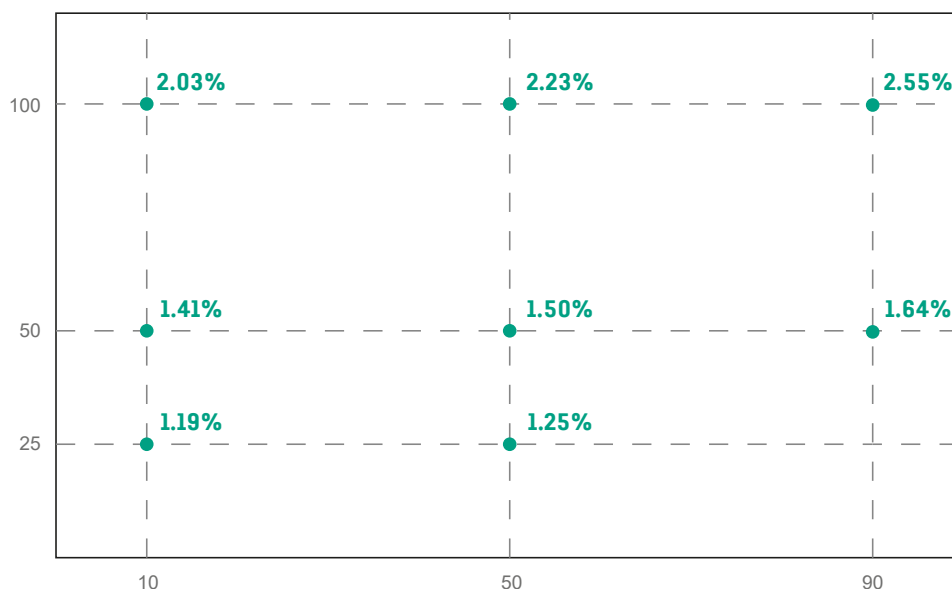
Code **S9031HSI**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>22</b>  |
| Nominal current                 | (A)   | <b>46</b>  |
| Nominal apparent power          | (kVA) | <b>30</b>  |
| Standby loss                    | (W)   | <b>69</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.55%         | 762.48            | 96.8%        |
| 90          | 50        | 1.64%         | 491.42            | 96.5%        |
| 50          | 100       | 2.23%         | 667.55            | 95.0%        |
| 50          | 50        | 1.50%         | 450.11            | 94.4%        |
| 50          | 25        | 1.25%         | 374.71            | 93.9%        |
| 10          | 100       | 2.03%         | 607.10            | 80.7%        |
| 10          | 50        | 1.41%         | 421.21            | 78.4%        |
| 10          | 25        | 1.19%         | 355.10            | 76.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-EHR-4300-KBX-4+SI**

**IE2** EFFICIENCY: **97.4%**

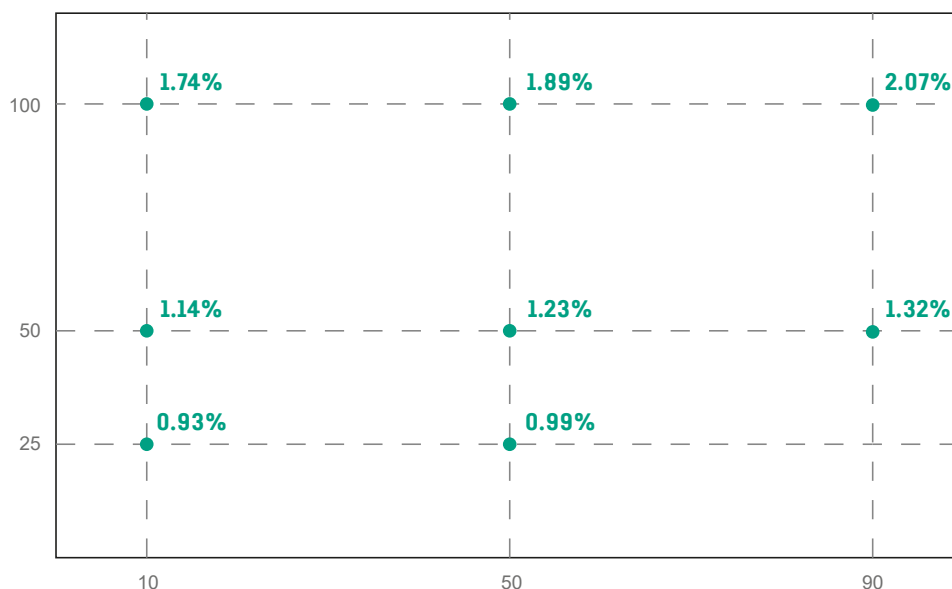
Code **S9034HSI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>30</b>   |
| Nominal current                 | (A)   | <b>62</b>   |
| Nominal apparent power          | (kVA) | <b>40.4</b> |
| Standby loss                    | (W)   | <b>76</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 836.96            | 97.4%        |
| 90          | 50        | 1.32%         | 531.70            | 97.1%        |
| 50          | 100       | 1.89%         | 764.80            | 95.7%        |
| 50          | 50        | 1.23%         | 494.89            | 95.3%        |
| 50          | 25        | 0.99%         | 400.54            | 94.7%        |
| 10          | 100       | 1.74%         | 702.97            | 83.0%        |
| 10          | 50        | 1.14%         | 461.55            | 81.2%        |
| 10          | 25        | 0.93%         | 377.09            | 79.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-EHR-4300-KXX-4+SI**

**IE2** EFFICIENCY: **97.4%**

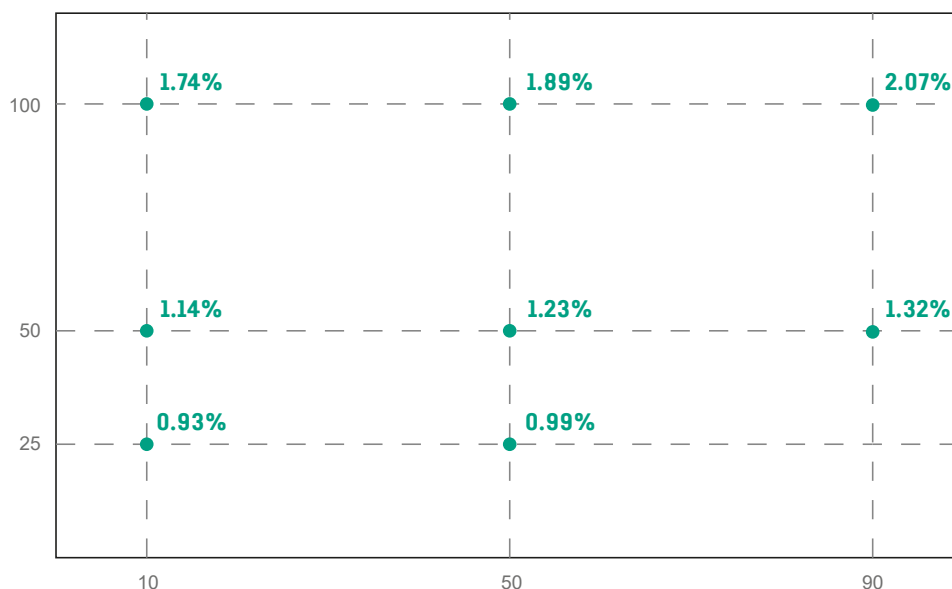
Code **S9036HSI**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>30</b>   |
| Nominal current                 | (A)   | <b>62</b>   |
| Nominal apparent power          | (kVA) | <b>40.4</b> |
| Standby loss                    | (W)   | <b>76</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 836.96            | 97.4%        |
| 90          | 50        | 1.32%         | 531.70            | 97.1%        |
| 50          | 100       | 1.89%         | 764.80            | 95.7%        |
| 50          | 50        | 1.23%         | 494.89            | 95.3%        |
| 50          | 25        | 0.99%         | 400.54            | 94.7%        |
| 10          | 100       | 1.74%         | 702.97            | 83.0%        |
| 10          | 50        | 1.14%         | 461.55            | 81.2%        |
| 10          | 25        | 0.93%         | 377.09            | 79.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ADV200-4+SI-P, ADV200-4-P

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# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to EN 50598-2

Type

**ADV-2075-KBX-4+SI-P**

**IE2**

**EFFICIENCY:**

**96.7%**

Code

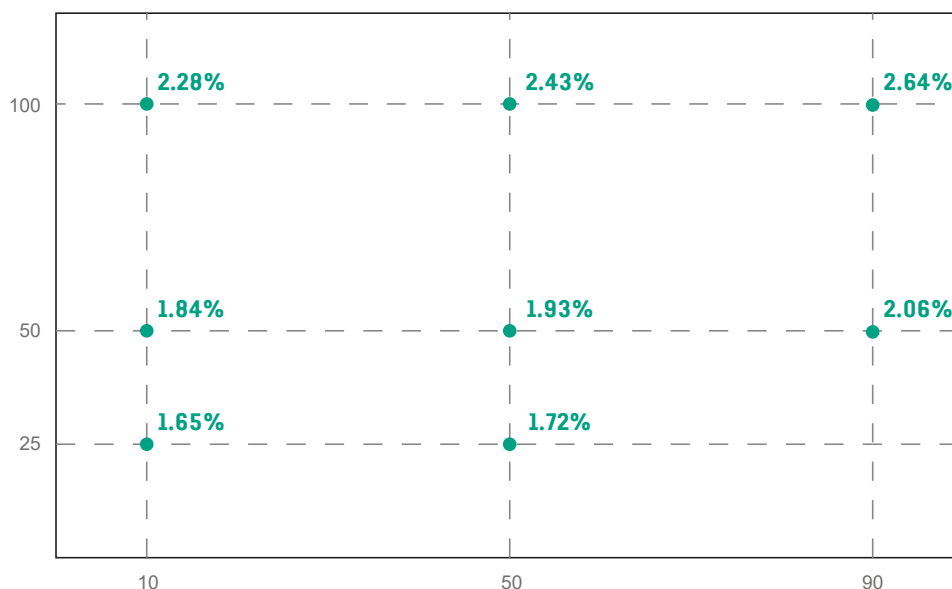
**S9007SIP**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>7.5</b>   |
| Nominal current                 | (A)   | <b>16.5</b>  |
| Nominal apparent power          | (kVA) | <b>10.75</b> |
| Standby loss                    | (W)   | <b>26</b>    |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.64%         | 283.96            | 96.7%        |
| 90          | 50        | 2.06%         | 221.32            | 96.3%        |
| 50          | 100       | 2.43%         | 261.60            | 94.6%        |
| 50          | 50        | 1.93%         | 207.92            | 94.0%        |
| 50          | 25        | 1.72%         | 185.34            | 93.5%        |
| 10          | 100       | 2.28%         | 245.28            | 78.8%        |
| 10          | 50        | 1.84%         | 197.58            | 76.6%        |
| 10          | 25        | 1.65%         | 177.34            | 74.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to EN 50598-2

Type

**ADV-2110-KBX-4+SI-P**

**IE2**

**EFFICIENCY:**

**97.0%**

Code

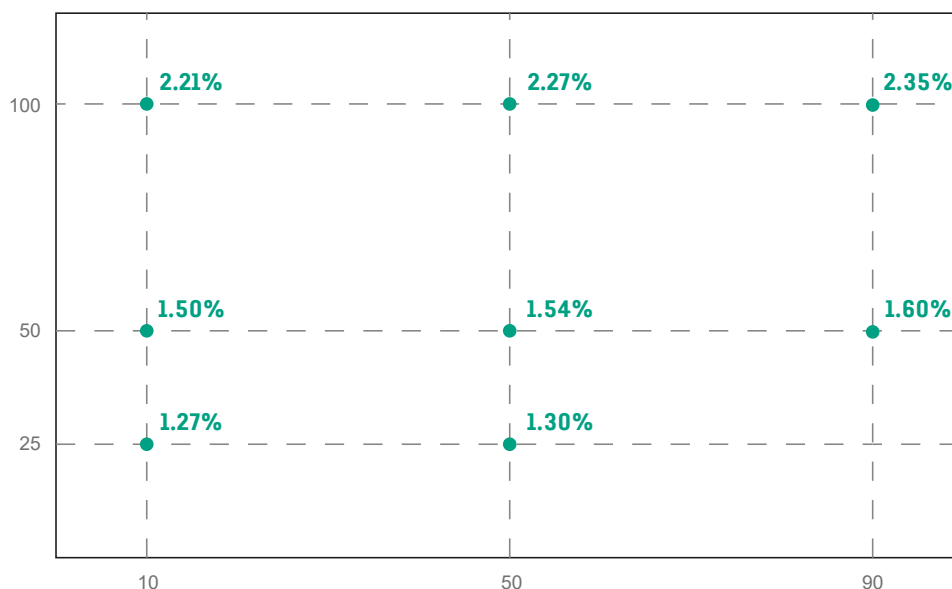
**S9008SIP**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>11</b>  |
| Nominal current                 | (A)   | <b>23</b>  |
| Nominal apparent power          | (kVA) | <b>15</b>  |
| Standby loss                    | (W)   | <b>32</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.35%         | 351.60            | 97.0%        |
| 90          | 50        | 1.60%         | 239.08            | 96.6%        |
| 50          | 100       | 2.27%         | 339.54            | 94.9%        |
| 50          | 50        | 1.54%         | 231.42            | 94.3%        |
| 50          | 25        | 1.30%         | 195.08            | 93.6%        |
| 10          | 100       | 2.21%         | 331.32            | 79.4%        |
| 10          | 50        | 1.50%         | 225.13            | 77.2%        |
| 10          | 25        | 1.27%         | 189.98            | 75.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to EN 50598-2

Type

**ADV-3150-KBX-4+SI-P**

**IE2**

**EFFICIENCY:**

**97.2%**

Code

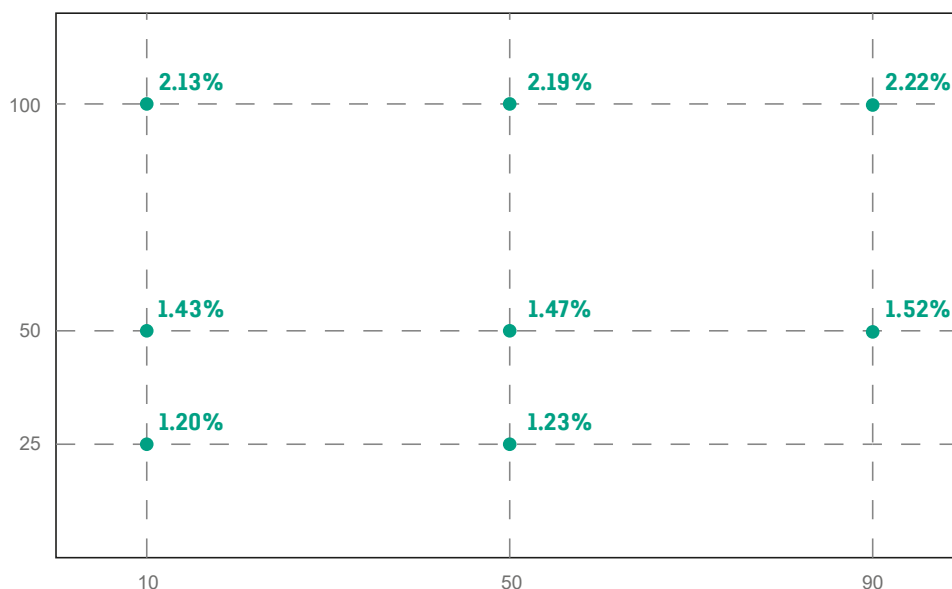
**S9009SIP**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>15</b>   |
| Nominal current                 | (A)   | <b>31</b>   |
| Nominal apparent power          | (kVA) | <b>20.2</b> |
| Standby loss                    | (W)   | <b>41</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.22%         | 449.00            | 97.2%        |
| 90          | 50        | 1.52%         | 307.79            | 96.8%        |
| 50          | 100       | 2.19%         | 441.42            | 95.1%        |
| 50          | 50        | 1.47%         | 297.10            | 94.5%        |
| 50          | 25        | 1.23%         | 248.44            | 94.0%        |
| 10          | 100       | 2.13%         | 430.38            | 79.9%        |
| 10          | 50        | 1.43%         | 288.64            | 78.1%        |
| 10          | 25        | 1.20%         | 241.58            | 76.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to EN 50598-2

Type

**ADV-3185-KBX-4+SI-P**

**IE2**

**EFFICIENCY:**

**97.2%**

Code

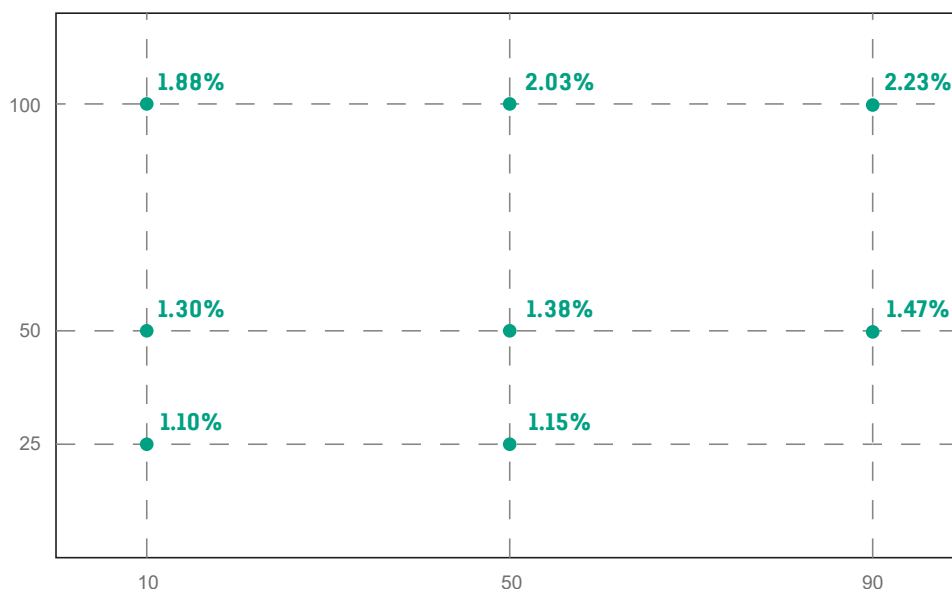
**S9010SIP**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>18.5</b>  |
| Nominal current                 | (A)   | <b>38</b>    |
| Nominal apparent power          | (kVA) | <b>24.75</b> |
| Standby loss                    | (W)   | <b>50</b>    |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.23%         | 552.10            | 97.2%        |
| 90          | 50        | 1.47%         | 364.08            | 96.9%        |
| 50          | 100       | 2.03%         | 502.12            | 95.4%        |
| 50          | 50        | 1.38%         | 340.61            | 94.9%        |
| 50          | 25        | 1.15%         | 284.60            | 94.3%        |
| 10          | 100       | 1.88%         | 465.36            | 81.9%        |
| 10          | 50        | 1.30%         | 321.90            | 79.7%        |
| 10          | 25        | 1.10%         | 271.51            | 77.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to EN 50598-2

Type **ADV-3220-KBX-4+SI-P**

**IE2** EFFICIENCY: **96.8%**

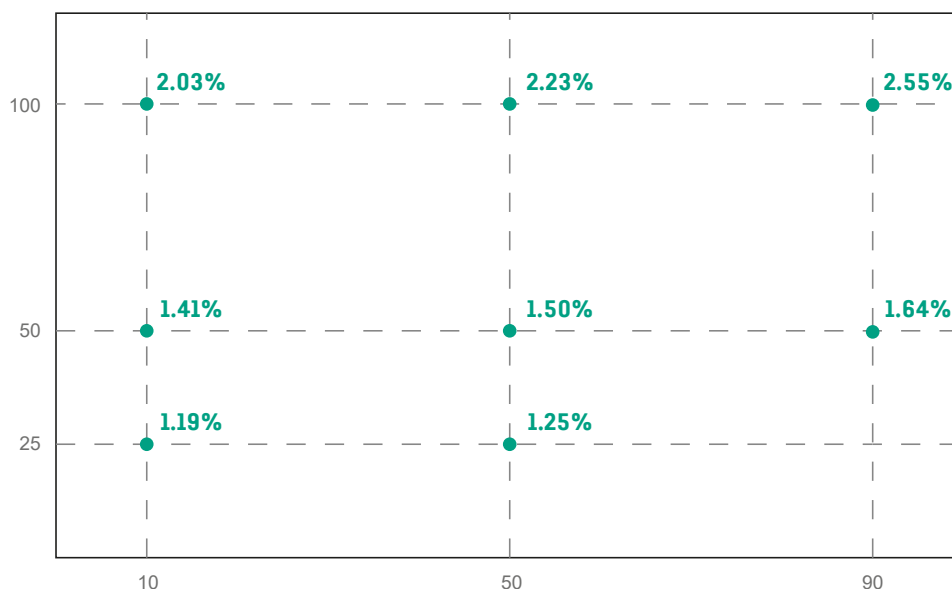
Code **S9011SIP**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>22</b>  |
| Nominal current                 | (A)   | <b>46</b>  |
| Nominal apparent power          | (kVA) | <b>30</b>  |
| Standby loss                    | (W)   | <b>69</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.55%         | 762.48            | 96.8%        |
| 90          | 50        | 1.64%         | 491.42            | 96.5%        |
| 50          | 100       | 2.23%         | 667.55            | 95.0%        |
| 50          | 50        | 1.50%         | 450.11            | 94.4%        |
| 50          | 25        | 1.25%         | 374.71            | 93.9%        |
| 10          | 100       | 2.03%         | 607.10            | 80.7%        |
| 10          | 50        | 1.41%         | 421.21            | 78.4%        |
| 10          | 25        | 1.19%         | 355.10            | 76.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to EN 50598-2

Type **ADV-4300-KXX-4+SI-P**

**IE2** EFFICIENCY: **97.4%**

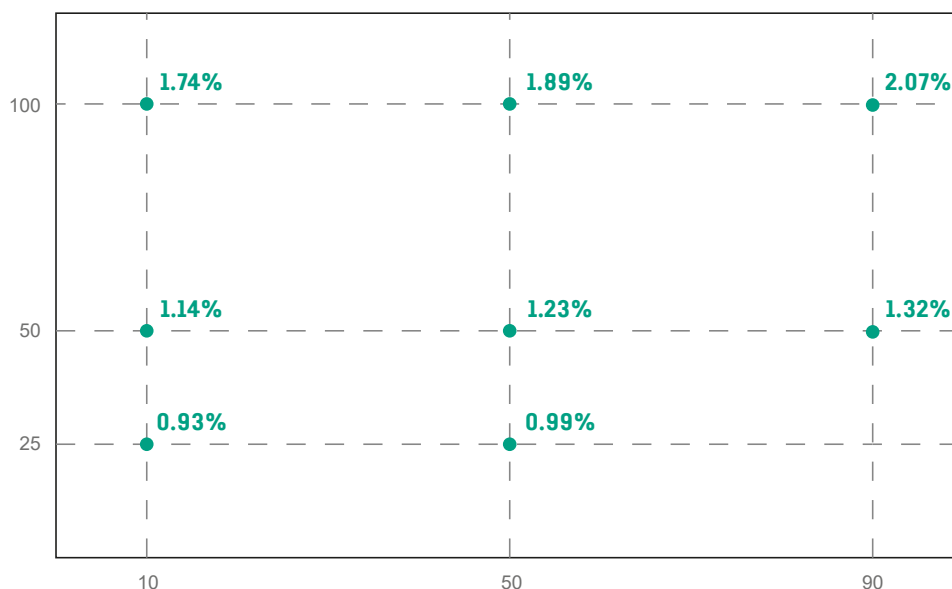
Code **S9012SIP**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>30</b>   |
| Nominal current                 | (A)   | <b>62</b>   |
| Nominal apparent power          | (kVA) | <b>40.4</b> |
| Standby loss                    | (W)   | <b>76</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 836.96            | 97.4%        |
| 90          | 50        | 1.32%         | 531.70            | 97.1%        |
| 50          | 100       | 1.89%         | 764.80            | 95.7%        |
| 50          | 50        | 1.23%         | 494.89            | 95.3%        |
| 50          | 25        | 0.99%         | 400.54            | 94.7%        |
| 10          | 100       | 1.74%         | 702.97            | 83.0%        |
| 10          | 50        | 1.14%         | 461.55            | 81.2%        |
| 10          | 25        | 0.93%         | 377.09            | 79.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to EN 50598-2

Type **ADV-4300-KBX-4+SI-P**

**IE2** EFFICIENCY: **97.4%**

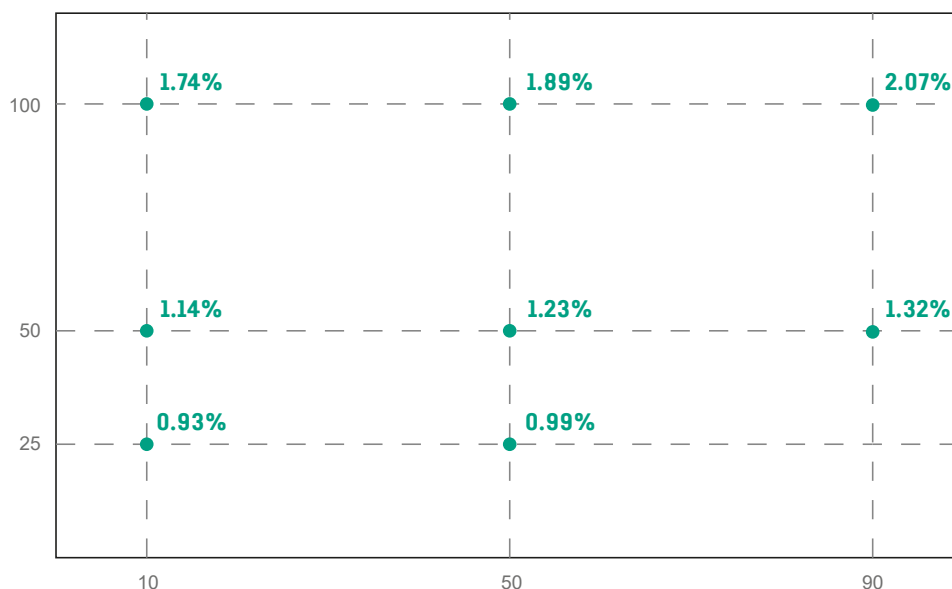
Code **S9013SIP**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>30</b>   |
| Nominal current                 | (A)   | <b>62</b>   |
| Nominal apparent power          | (kVA) | <b>40.4</b> |
| Standby loss                    | (W)   | <b>76</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 836.96            | 97.4%        |
| 90          | 50        | 1.32%         | 531.70            | 97.1%        |
| 50          | 100       | 1.89%         | 764.80            | 95.7%        |
| 50          | 50        | 1.23%         | 494.89            | 95.3%        |
| 50          | 25        | 0.99%         | 400.54            | 94.7%        |
| 10          | 100       | 1.74%         | 702.97            | 83.0%        |
| 10          | 50        | 1.14%         | 461.55            | 81.2%        |
| 10          | 25        | 0.93%         | 377.09            | 79.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to EN 50598-2

Type **ADV-4370-KBX-4+SI-P**

**IE2** EFFICIENCY: **97.4%**

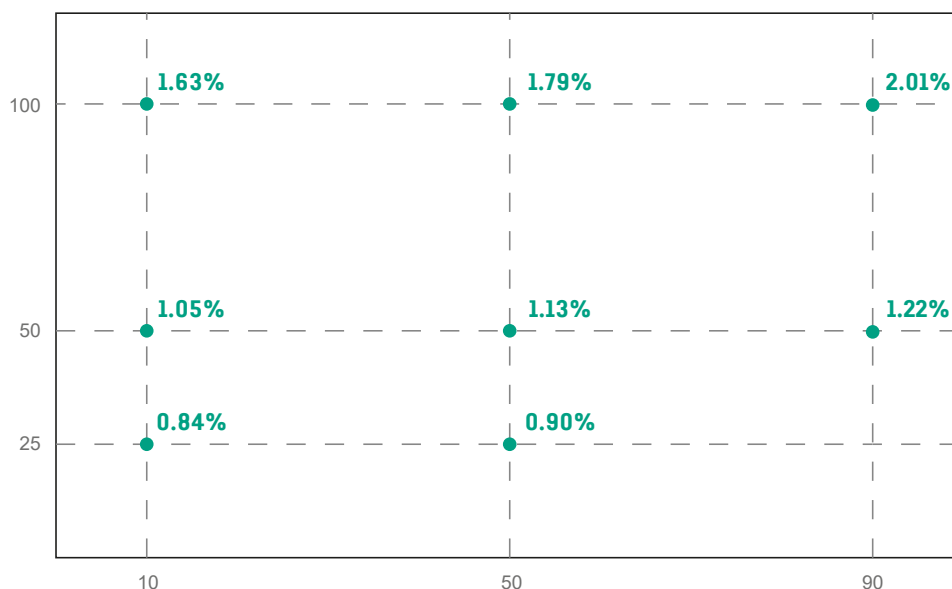
Code **S9015SIP**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>37</b>   |
| Nominal current                 | (A)   | <b>75</b>   |
| Nominal apparent power          | (kVA) | <b>48.8</b> |
| Standby loss                    | (W)   | <b>89</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.01%         | 980.88            | 97.4%        |
| 90          | 50        | 1.22%         | 597.76            | 97.3%        |
| 50          | 100       | 1.79%         | 875.11            | 96.0%        |
| 50          | 50        | 1.13%         | 549.53            | 95.6%        |
| 50          | 25        | 0.90%         | 438.75            | 95.2%        |
| 10          | 100       | 1.63%         | 798.06            | 83.9%        |
| 10          | 50        | 1.05%         | 510.96            | 82.5%        |
| 10          | 25        | 0.84%         | 412.51            | 80.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to EN 50598-2

Type **ADV-4450-KBX-4+SI-P**

**IE2** EFFICIENCY: **97.3%**

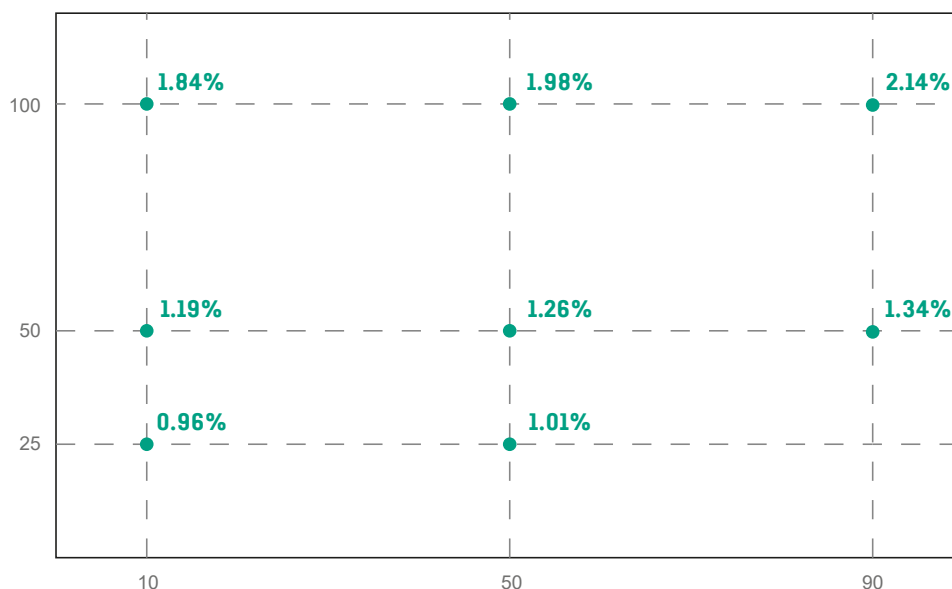
Code **S9017SIP**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>45</b>   |
| Nominal current                 | (A)   | <b>87</b>   |
| Nominal apparent power          | (kVA) | <b>56.7</b> |
| Standby loss                    | (W)   | <b>110</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.14%         | 1,214.58          | 97.3%        |
| 90          | 50        | 1.34%         | 759.44            | 97.1%        |
| 50          | 100       | 1.98%         | 1,121.61          | 95.6%        |
| 50          | 50        | 1.26%         | 713.70            | 95.2%        |
| 50          | 25        | 1.01%         | 569.50            | 94.7%        |
| 10          | 100       | 1.84%         | 1,045.20          | 82.3%        |
| 10          | 50        | 1.19%         | 673.55            | 80.8%        |
| 10          | 25        | 0.96%         | 541.57            | 79.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to EN 50598-2

Type

**ADV-5550-KBX-4+SI-P**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

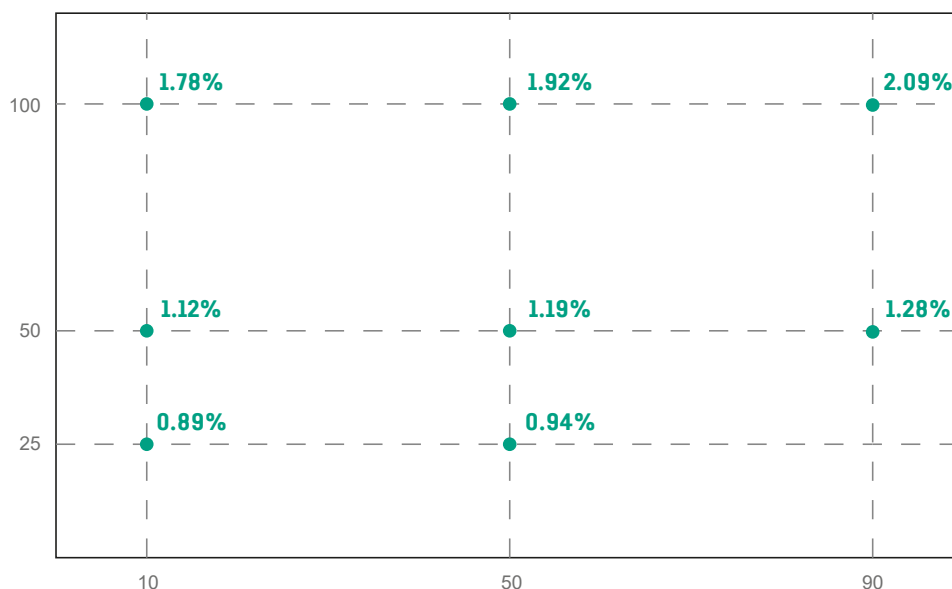
**S9019SIP**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>55</b>   |
| Nominal current                 | (A)   | <b>105</b>  |
| Nominal apparent power          | (kVA) | <b>68.4</b> |
| Standby loss                    | (W)   | <b>130</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.09%         | 1,431.96          | 97.4%        |
| 90          | 50        | 1.28%         | 875.52            | 97.2%        |
| 50          | 100       | 1.92%         | 1,310.93          | 95.7%        |
| 50          | 50        | 1.19%         | 816.88            | 95.4%        |
| 50          | 25        | 0.94%         | 645.19            | 95.0%        |
| 10          | 100       | 1.78%         | 1,214.14          | 82.9%        |
| 10          | 50        | 1.12%         | 766.40            | 81.7%        |
| 10          | 25        | 0.89%         | 610.20            | 80.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to EN 50598-2

Type

**ADV-5750-KXX-4+SI-P**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

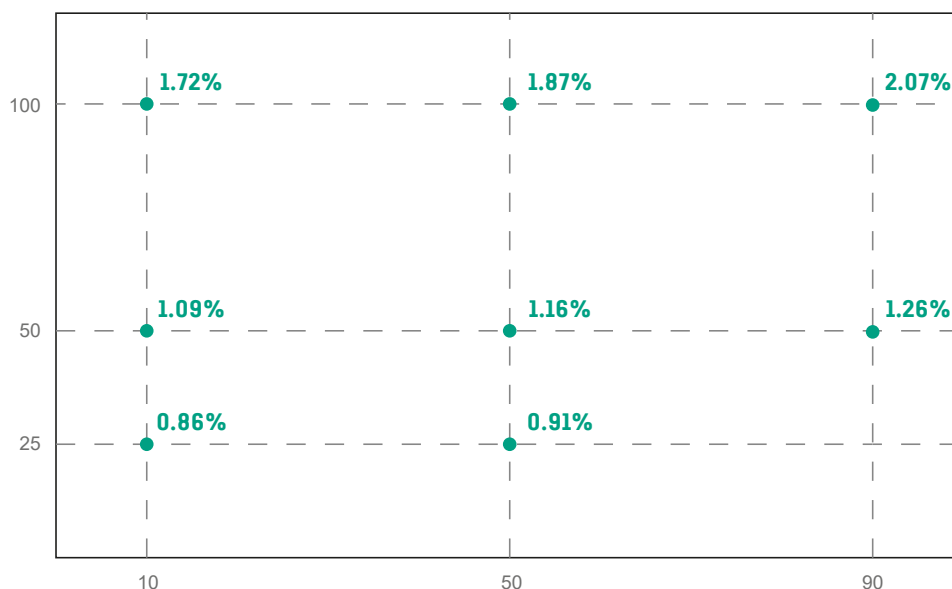
**S9020SIP**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>75</b>   |
| Nominal current                 | (A)   | <b>150</b>  |
| Nominal apparent power          | (kVA) | <b>97.7</b> |
| Standby loss                    | (W)   | <b>184</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 2,024.88          | 97.4%        |
| 90          | 50        | 1.26%         | 1,226.35          | 97.3%        |
| 50          | 100       | 1.87%         | 1,831.36          | 95.8%        |
| 50          | 50        | 1.16%         | 1,135.65          | 95.5%        |
| 50          | 25        | 0.91%         | 893.53            | 95.2%        |
| 10          | 100       | 1.72%         | 1,683.33          | 83.3%        |
| 10          | 50        | 1.09%         | 1,060.26          | 82.1%        |
| 10          | 25        | 0.86%         | 841.81            | 80.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to EN 50598-2

Type

**ADV-2075-KBX-4-P**

**IE2**

**EFFICIENCY:**

**96.7%**

Code

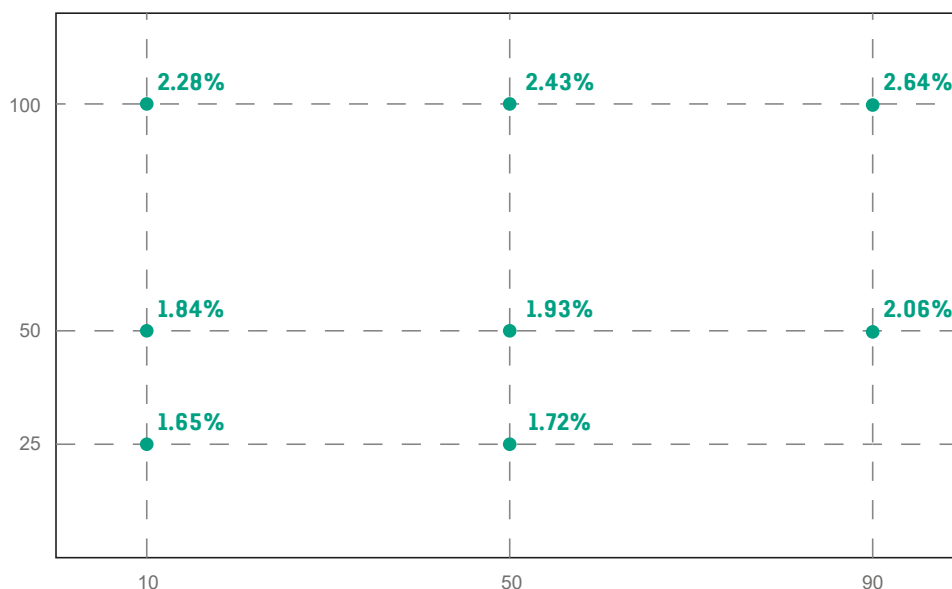
**S9007P**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>7.5</b>   |
| Nominal current                 | (A)   | <b>16.5</b>  |
| Nominal apparent power          | (kVA) | <b>10.75</b> |
| Standby loss                    | (W)   | <b>26</b>    |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.64%         | 283.96            | 96.7%        |
| 90          | 50        | 2.06%         | 221.32            | 96.3%        |
| 50          | 100       | 2.43%         | 261.60            | 94.6%        |
| 50          | 50        | 1.93%         | 207.92            | 94.0%        |
| 50          | 25        | 1.72%         | 185.34            | 93.5%        |
| 10          | 100       | 2.28%         | 245.28            | 78.8%        |
| 10          | 50        | 1.84%         | 197.58            | 76.6%        |
| 10          | 25        | 1.65%         | 177.34            | 74.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to EN 50598-2

Type

**ADV-2110-KBX-4-P**

**IE2**

**EFFICIENCY:**

**97.0%**

Code

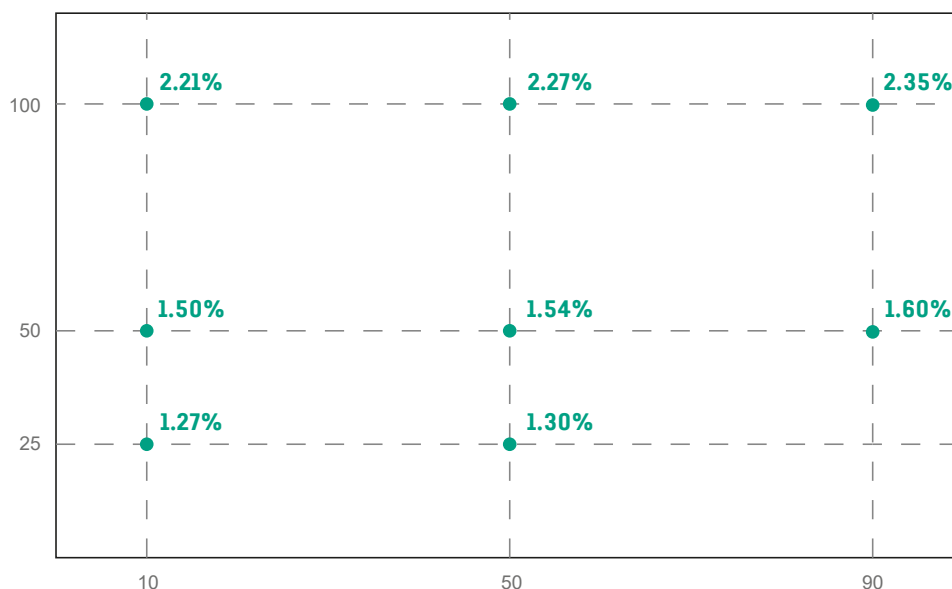
**S9008P**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>11</b>  |
| Nominal current                 | (A)   | <b>23</b>  |
| Nominal apparent power          | (kVA) | <b>15</b>  |
| Standby loss                    | (W)   | <b>32</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.35%         | 351.60            | 97.0%        |
| 90          | 50        | 1.60%         | 239.08            | 96.6%        |
| 50          | 100       | 2.27%         | 339.54            | 94.9%        |
| 50          | 50        | 1.54%         | 231.42            | 94.3%        |
| 50          | 25        | 1.30%         | 195.08            | 93.6%        |
| 10          | 100       | 2.21%         | 331.32            | 79.4%        |
| 10          | 50        | 1.50%         | 225.13            | 77.2%        |
| 10          | 25        | 1.27%         | 189.98            | 75.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to EN 50598-2

Type

**ADV-3150-KBX-4-P**

**IE2**

**EFFICIENCY:**

**97.2%**

Code

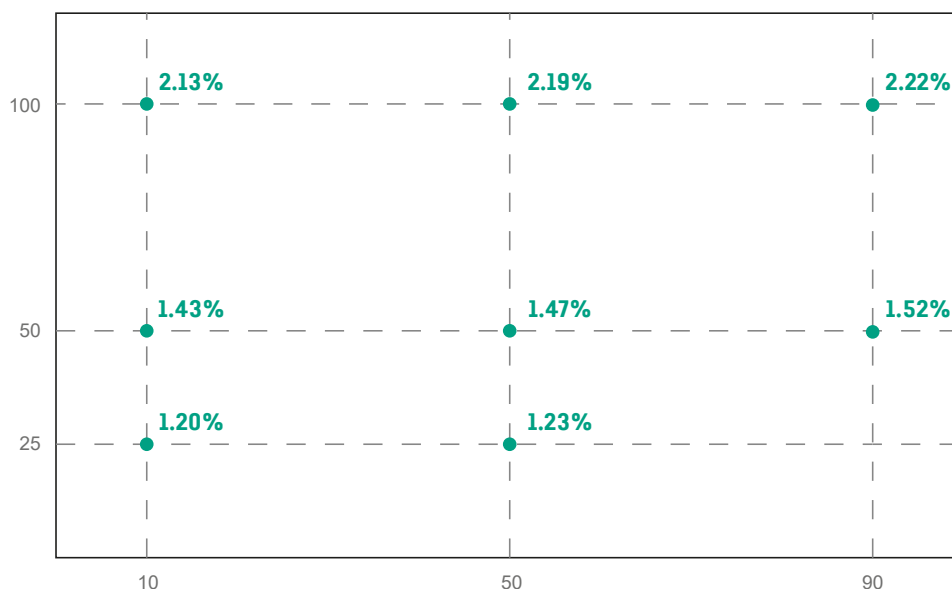
**S9009P**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>15</b>   |
| Nominal current                 | (A)   | <b>31</b>   |
| Nominal apparent power          | (kVA) | <b>20.2</b> |
| Standby loss                    | (W)   | <b>41</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.22%         | 449.00            | 97.2%        |
| 90          | 50        | 1.52%         | 307.79            | 96.8%        |
| 50          | 100       | 2.19%         | 441.42            | 95.1%        |
| 50          | 50        | 1.47%         | 297.10            | 94.5%        |
| 50          | 25        | 1.23%         | 248.44            | 94.0%        |
| 10          | 100       | 2.13%         | 430.38            | 79.9%        |
| 10          | 50        | 1.43%         | 288.64            | 78.1%        |
| 10          | 25        | 1.20%         | 241.58            | 76.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to EN 50598-2

Type

**ADV-3185-KBX-4-P**

**IE2**

**EFFICIENCY:**

**97.2%**

Code

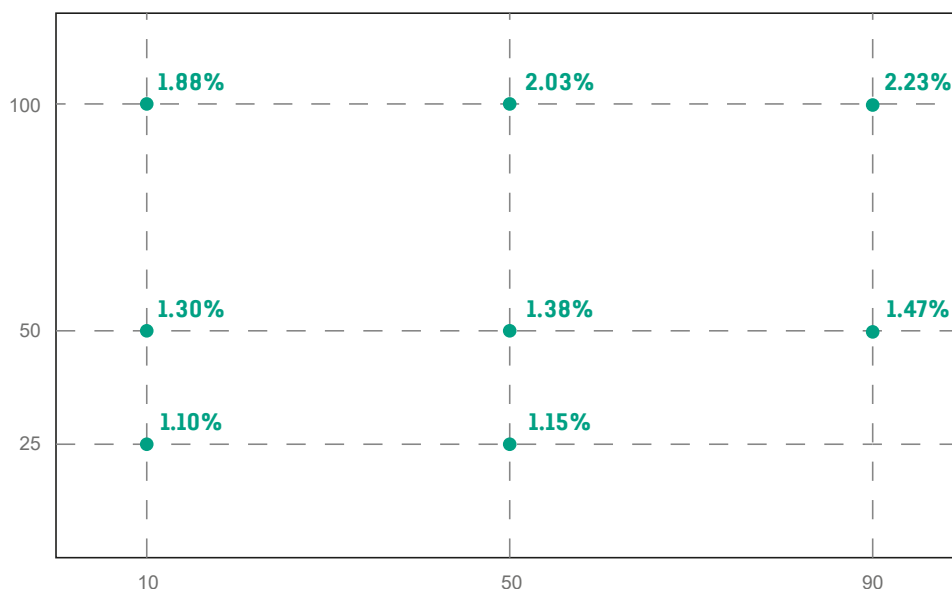
**S9010P**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>18.5</b>  |
| Nominal current                 | (A)   | <b>38</b>    |
| Nominal apparent power          | (kVA) | <b>24.75</b> |
| Standby loss                    | (W)   | <b>50</b>    |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.23%         | 552.10            | 97.2%        |
| 90          | 50        | 1.47%         | 364.08            | 96.9%        |
| 50          | 100       | 2.03%         | 502.12            | 95.4%        |
| 50          | 50        | 1.38%         | 340.61            | 94.9%        |
| 50          | 25        | 1.15%         | 284.60            | 94.3%        |
| 10          | 100       | 1.88%         | 465.36            | 81.9%        |
| 10          | 50        | 1.30%         | 321.90            | 79.7%        |
| 10          | 25        | 1.10%         | 271.51            | 77.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to EN 50598-2

Type

**ADV-3220-KBX-4-P**

**IE2**

**EFFICIENCY:**

**96.8%**

Code

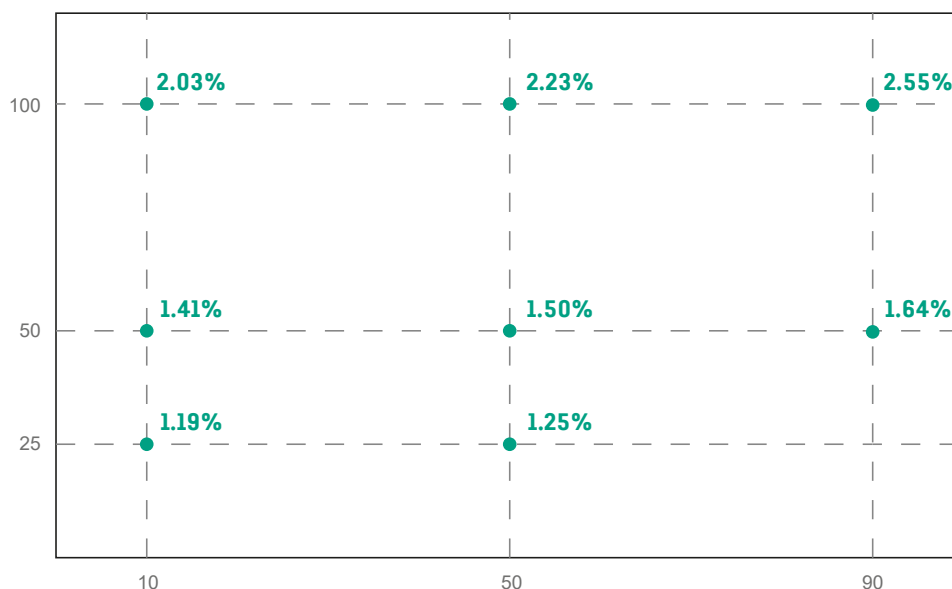
**S9011P**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>22</b>  |
| Nominal current                 | (A)   | <b>46</b>  |
| Nominal apparent power          | (kVA) | <b>30</b>  |
| Standby loss                    | (W)   | <b>69</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.55%         | 762.48            | 96.8%        |
| 90          | 50        | 1.64%         | 491.42            | 96.5%        |
| 50          | 100       | 2.23%         | 667.55            | 95.0%        |
| 50          | 50        | 1.50%         | 450.11            | 94.4%        |
| 50          | 25        | 1.25%         | 374.71            | 93.9%        |
| 10          | 100       | 2.03%         | 607.10            | 80.7%        |
| 10          | 50        | 1.41%         | 421.21            | 78.4%        |
| 10          | 25        | 1.19%         | 355.10            | 76.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to EN 50598-2

Type

**ADV-4300-KBX-4-P**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

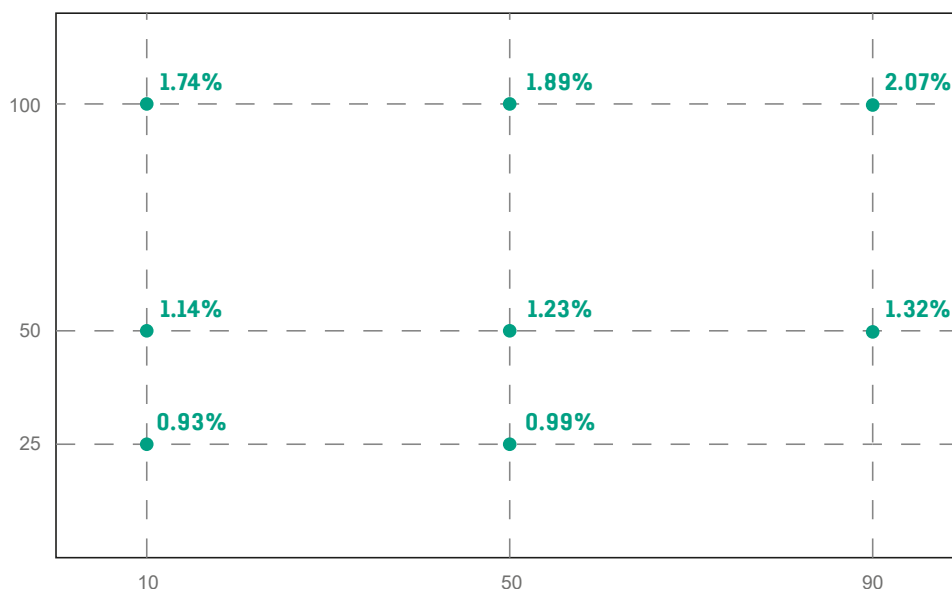
**S9013P**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>30</b>   |
| Nominal current                 | (A)   | <b>62</b>   |
| Nominal apparent power          | (kVA) | <b>40.4</b> |
| Standby loss                    | (W)   | <b>76</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 836.96            | 97.4%        |
| 90          | 50        | 1.32%         | 531.70            | 97.1%        |
| 50          | 100       | 1.89%         | 764.80            | 95.7%        |
| 50          | 50        | 1.23%         | 494.89            | 95.3%        |
| 50          | 25        | 0.99%         | 400.54            | 94.7%        |
| 10          | 100       | 1.74%         | 702.97            | 83.0%        |
| 10          | 50        | 1.14%         | 461.55            | 81.2%        |
| 10          | 25        | 0.93%         | 377.09            | 79.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to EN 50598-2

Type

**ADV-4370-KBX-4-P**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

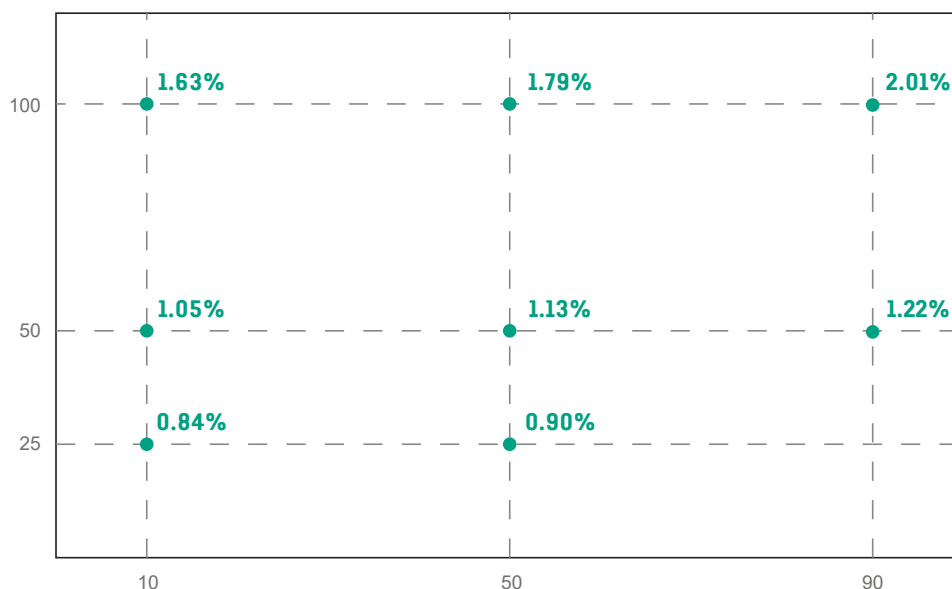
**S9015P**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>37</b>   |
| Nominal current                 | (A)   | <b>75</b>   |
| Nominal apparent power          | (kVA) | <b>48.8</b> |
| Standby loss                    | (W)   | <b>89</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.01%         | 980.88            | 97.4%        |
| 90          | 50        | 1.22%         | 597.76            | 97.3%        |
| 50          | 100       | 1.79%         | 875.11            | 96.0%        |
| 50          | 50        | 1.13%         | 549.53            | 95.6%        |
| 50          | 25        | 0.90%         | 438.75            | 95.2%        |
| 10          | 100       | 1.63%         | 798.06            | 83.9%        |
| 10          | 50        | 1.05%         | 510.96            | 82.5%        |
| 10          | 25        | 0.84%         | 412.51            | 80.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to EN 50598-2

Type

**ADV-4450-KBX-4-P**

**IE2**

**EFFICIENCY:**

**97.3%**

Code

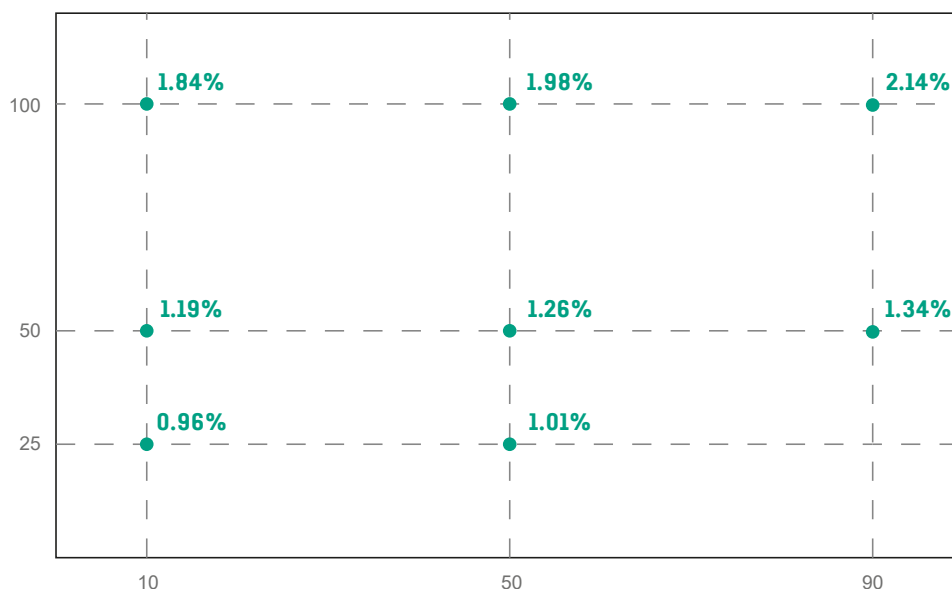
**S9017P**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>45</b>   |
| Nominal current                 | (A)   | <b>87</b>   |
| Nominal apparent power          | (kVA) | <b>56.7</b> |
| Standby loss                    | (W)   | <b>110</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.14%         | 1,214.58          | 97.3%        |
| 90          | 50        | 1.34%         | 759.44            | 97.1%        |
| 50          | 100       | 1.98%         | 1,121.61          | 95.6%        |
| 50          | 50        | 1.26%         | 713.70            | 95.2%        |
| 50          | 25        | 1.01%         | 569.50            | 94.7%        |
| 10          | 100       | 1.84%         | 1,045.20          | 82.3%        |
| 10          | 50        | 1.19%         | 673.55            | 80.8%        |
| 10          | 25        | 0.96%         | 541.57            | 79.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to EN 50598-2

Type

**ADV-5550-KBX-4-P**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

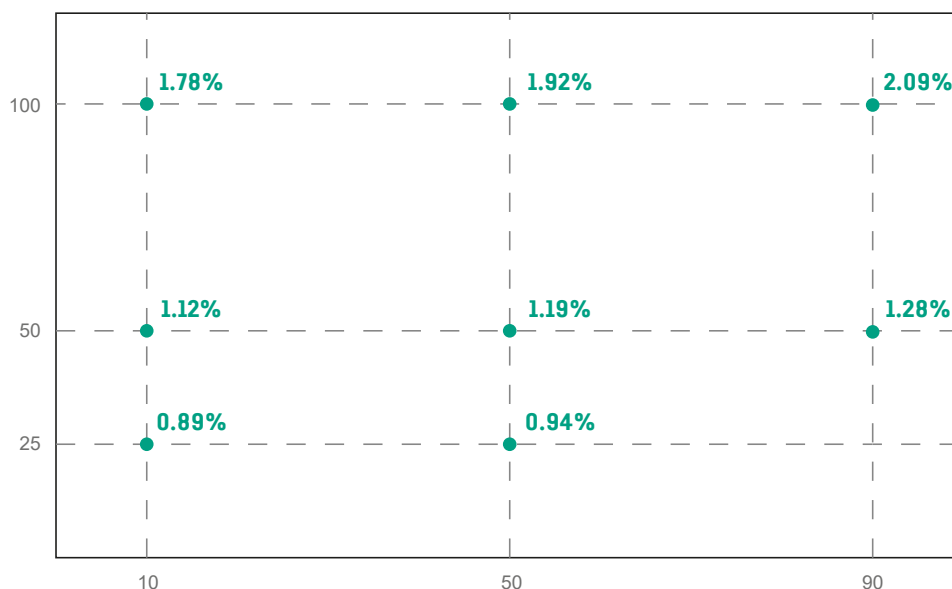
**S9019P**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>55</b>   |
| Nominal current                 | (A)   | <b>105</b>  |
| Nominal apparent power          | (kVA) | <b>68.4</b> |
| Standby loss                    | (W)   | <b>130</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.09%         | 1,431.96          | 97.4%        |
| 90          | 50        | 1.28%         | 875.52            | 97.2%        |
| 50          | 100       | 1.92%         | 1,310.93          | 95.7%        |
| 50          | 50        | 1.19%         | 816.88            | 95.4%        |
| 50          | 25        | 0.94%         | 645.19            | 95.0%        |
| 10          | 100       | 1.78%         | 1,214.14          | 82.9%        |
| 10          | 50        | 1.12%         | 766.40            | 81.7%        |
| 10          | 25        | 0.89%         | 610.20            | 80.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to EN 50598-2

Type

**ADV-5750-KXX-4-P**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

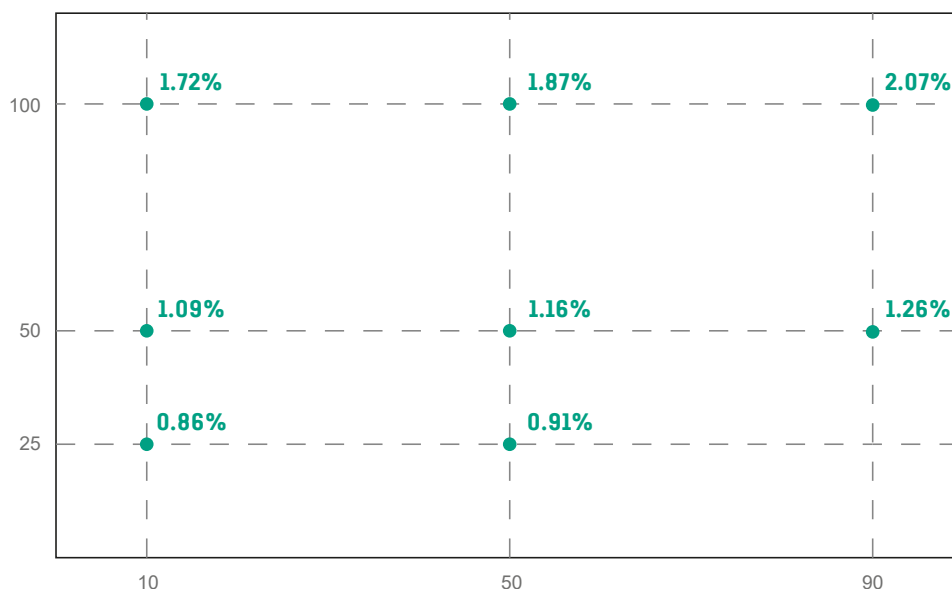
**S9020P**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>75</b>   |
| Nominal current                 | (A)   | <b>150</b>  |
| Nominal apparent power          | (kVA) | <b>97.7</b> |
| Standby loss                    | (W)   | <b>184</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 2,024.88          | 97.4%        |
| 90          | 50        | 1.26%         | 1,226.35          | 97.3%        |
| 50          | 100       | 1.87%         | 1,831.36          | 95.8%        |
| 50          | 50        | 1.16%         | 1,135.65          | 95.5%        |
| 50          | 25        | 0.91%         | 893.53            | 95.2%        |
| 10          | 100       | 1.72%         | 1,683.33          | 83.3%        |
| 10          | 50        | 1.09%         | 1,060.26          | 82.1%        |
| 10          | 25        | 0.86%         | 841.81            | 80.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



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# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-HC-1007-KBX-4**

**IE2**

**EFFICIENCY:**

**94.1%**

Code

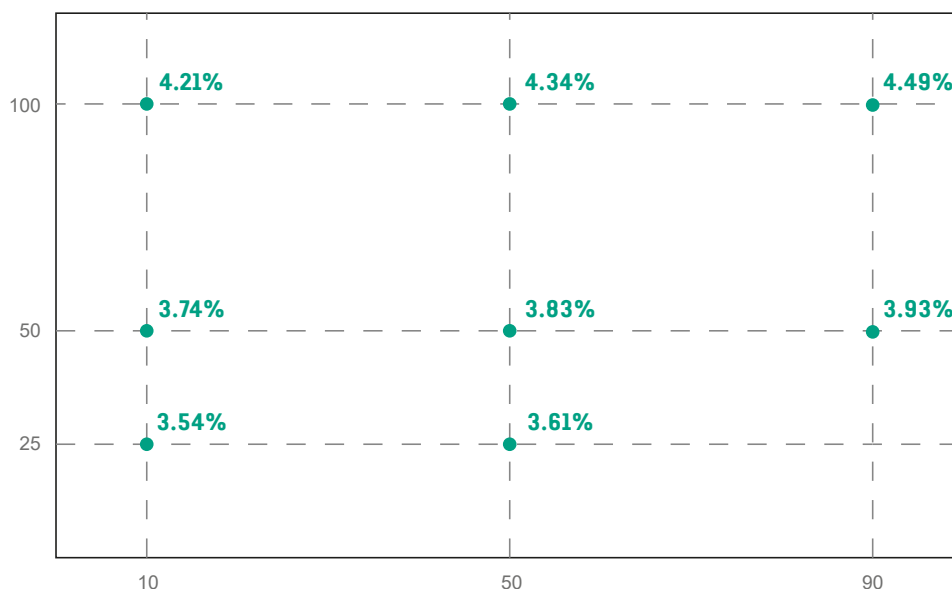
**S9HC01**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>0.75</b> |
| Nominal current                 | (A)   | <b>2.5</b>  |
| Nominal apparent power          | (kVA) | <b>1.6</b>  |
| Standby loss                    | (W)   | <b>6.65</b> |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 4.49%         | 73.13             | 94.1%        |
| 90          | 50        | 3.93%         | 64.00             | 92.8%        |
| 50          | 100       | 4.34%         | 70.71             | 90.1%        |
| 50          | 50        | 3.83%         | 62.41             | 88.0%        |
| 50          | 25        | 3.61%         | 58.81             | 86.4%        |
| 10          | 100       | 4.21%         | 68.49             | 65.3%        |
| 10          | 50        | 3.74%         | 60.92             | 60.0%        |
| 10          | 25        | 3.54%         | 57.62             | 56.4%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-HC-1015-KBX-4**

**IE2**

**EFFICIENCY:**

**95.7%**

Code

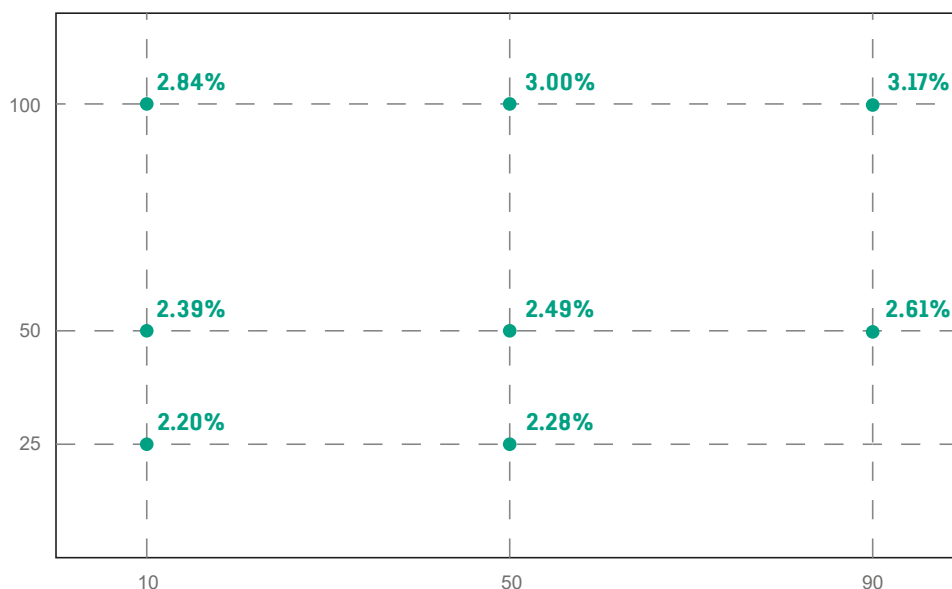
**S9HC02**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>1.5</b> |
| Nominal current                 | (A)   | <b>4,3</b> |
| Nominal apparent power          | (kVA) | <b>2.8</b> |
| Standby loss                    | (W)   | <b>8</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 3.17%         | 88.82             | 95.7%        |
| 90          | 50        | 2.61%         | 72.95             | 95.1%        |
| 50          | 100       | 3.00%         | 83.95             | 92.9%        |
| 50          | 50        | 2.49%         | 69.86             | 91.8%        |
| 50          | 25        | 2.28%         | 63.90             | 90.9%        |
| 10          | 100       | 2.84%         | 79.65             | 73.5%        |
| 10          | 50        | 2.39%         | 67.05             | 70.1%        |
| 10          | 25        | 2.20%         | 61.70             | 67.5%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-HC-1022-KBX-4**

**IE2**

**EFFICIENCY:**

**96.0%**

Code

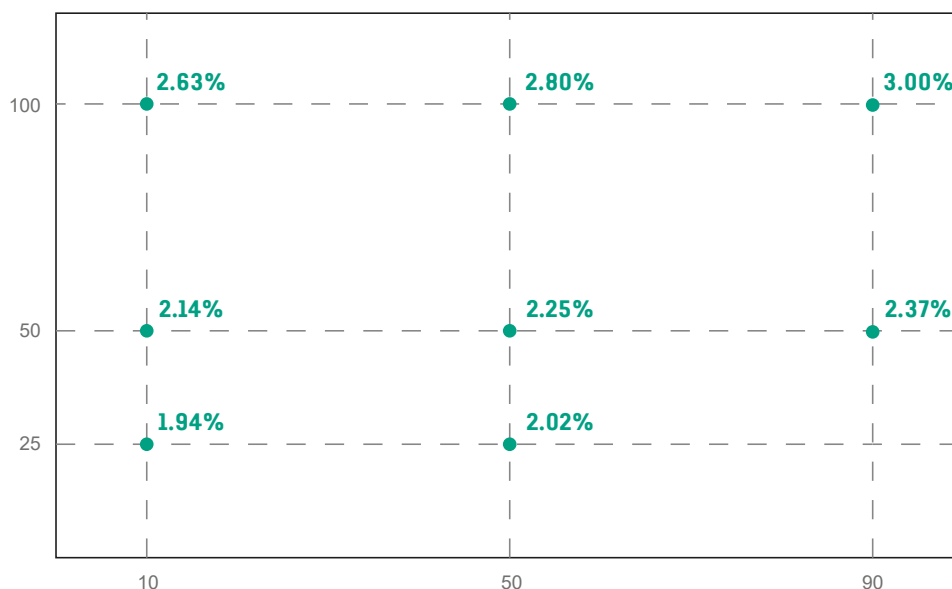
**S9HC03**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>2.2</b> |
| Nominal current                 | (A)   | <b>5.8</b> |
| Nominal apparent power          | (kVA) | <b>3.8</b> |
| Standby loss                    | (W)   | <b>10</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 3.00%         | 113.27            | 96.0%        |
| 90          | 50        | 2.37%         | 89.62             | 95.5%        |
| 50          | 100       | 2.80%         | 105.86            | 93.4%        |
| 50          | 50        | 2.25%         | 85.02             | 92.6%        |
| 50          | 25        | 2.02%         | 76.35             | 91.9%        |
| 10          | 100       | 2.63%         | 99.49             | 75.0%        |
| 10          | 50        | 2.14%         | 80.94             | 72.4%        |
| 10          | 25        | 1.94%         | 73.18             | 70.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-HC-1030-KBX-4**

**IE2**

**EFFICIENCY:**

**95.8%**

Code

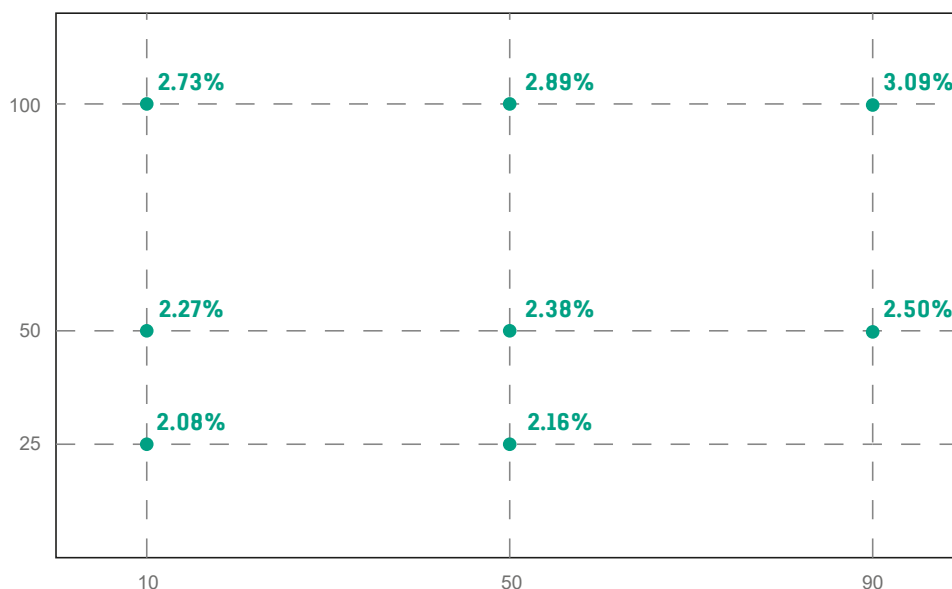
**S9HC04**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>3</b>   |
| Nominal current                 | (A)   | <b>7.6</b> |
| Nominal apparent power          | (kVA) | <b>5</b>   |
| Standby loss                    | (W)   | <b>14</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 3.09%         | 152.80            | 95.8%        |
| 90          | 50        | 2.50%         | 123.97            | 95.3%        |
| 50          | 100       | 2.89%         | 143.08            | 93.2%        |
| 50          | 50        | 2.38%         | 117.80            | 92.2%        |
| 50          | 25        | 2.16%         | 107.15            | 91.4%        |
| 10          | 100       | 2.73%         | 135.13            | 74.3%        |
| 10          | 50        | 2.27%         | 112.52            | 71.2%        |
| 10          | 25        | 2.08%         | 102.98            | 68.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-HC-1040-KBX-4**

**IE2**

**EFFICIENCY:**

**96.2%**

Code

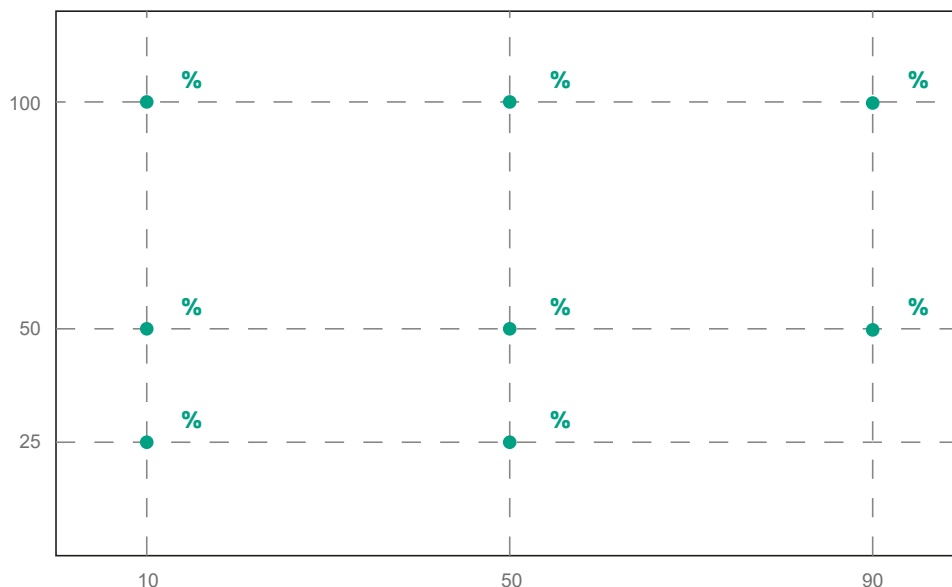
**S9HC05**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>4</b>   |
| Nominal current                 | (A)   | <b>7.6</b> |
| Nominal apparent power          | (kVA) | <b>5</b>   |
| Standby loss                    | (W)   | <b>16</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.85%         | 176.12            | 96.2%        |
| 90          | 50        | 2.33%         | 143.97            | 95.6%        |
| 50          | 100       | 2.70%         | 167.24            | 93.6%        |
| 50          | 50        | 2.24%         | 138.36            | 92.6%        |
| 50          | 25        | 2.04%         | 126.09            | 91.8%        |
| 10          | 100       | 2.58%         | 159.83            | 75.4%        |
| 10          | 50        | 2.16%         | 133.48            | 72.2%        |
| 10          | 25        | 1.98%         | 122.25            | 69.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-HC-2055-KBX-4**

**IE2**

**EFFICIENCY:**

**96.6%**

Code

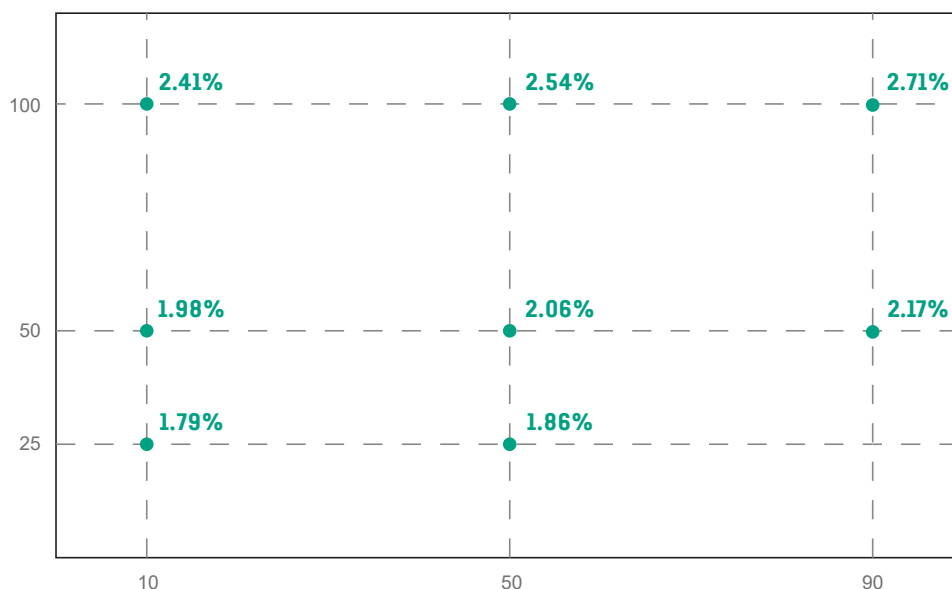
**S9HC06**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>5.5</b> |
| Nominal current                 | (A)   | <b>13</b>  |
| Nominal apparent power          | (kVA) | <b>8.5</b> |
| Standby loss                    | (W)   | <b>21</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.71%         | 229.84            | 96.6%        |
| 90          | 50        | 2.17%         | 183.71            | 96.2%        |
| 50          | 100       | 2.54%         | 215.21            | 94.4%        |
| 50          | 50        | 2.06%         | 174.66            | 93.6%        |
| 50          | 25        | 1.86%         | 157.40            | 93.0%        |
| 10          | 100       | 2.41%         | 203.83            | 77.9%        |
| 10          | 50        | 1.98%         | 167.26            | 75.3%        |
| 10          | 25        | 1.79%         | 151.60            | 73.4%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-HC-2075-KBX-4**

**IE2**

**EFFICIENCY:**

**96.7%**

Code

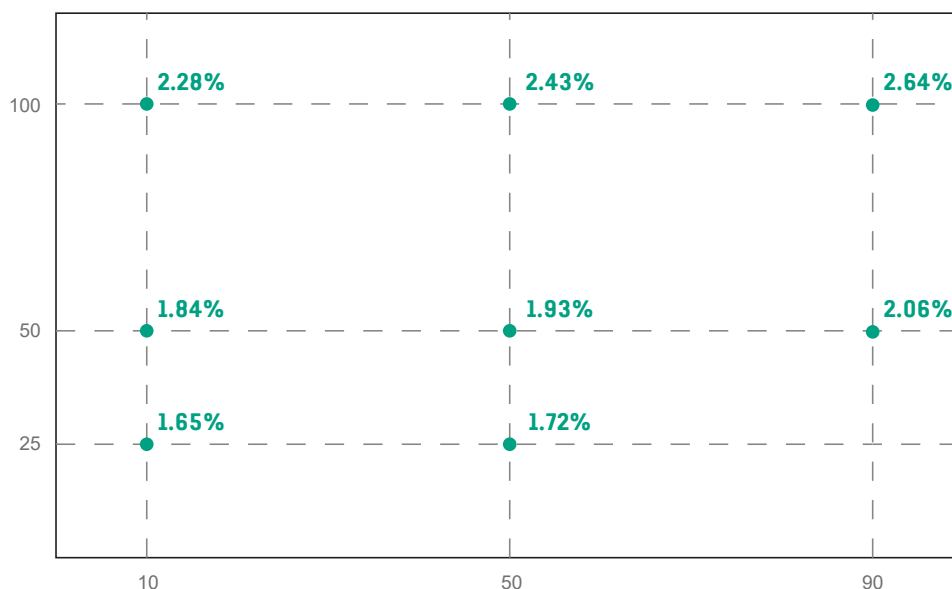
**S9HC07**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>7.5</b>   |
| Nominal current                 | (A)   | <b>16.5</b>  |
| Nominal apparent power          | (kVA) | <b>10.75</b> |
| Standby loss                    | (W)   | <b>26</b>    |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.64%         | 283.96            | 96.7%        |
| 90          | 50        | 2.06%         | 221.32            | 96.3%        |
| 50          | 100       | 2.43%         | 261.60            | 94.6%        |
| 50          | 50        | 1.93%         | 207.92            | 94.0%        |
| 50          | 25        | 1.72%         | 185.34            | 93.5%        |
| 10          | 100       | 2.28%         | 245.28            | 78.8%        |
| 10          | 50        | 1.84%         | 197.58            | 76.6%        |
| 10          | 25        | 1.65%         | 177.34            | 74.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-HC-2110-KBX-4**

**IE2**

**EFFICIENCY:**

**97.0%**

Code

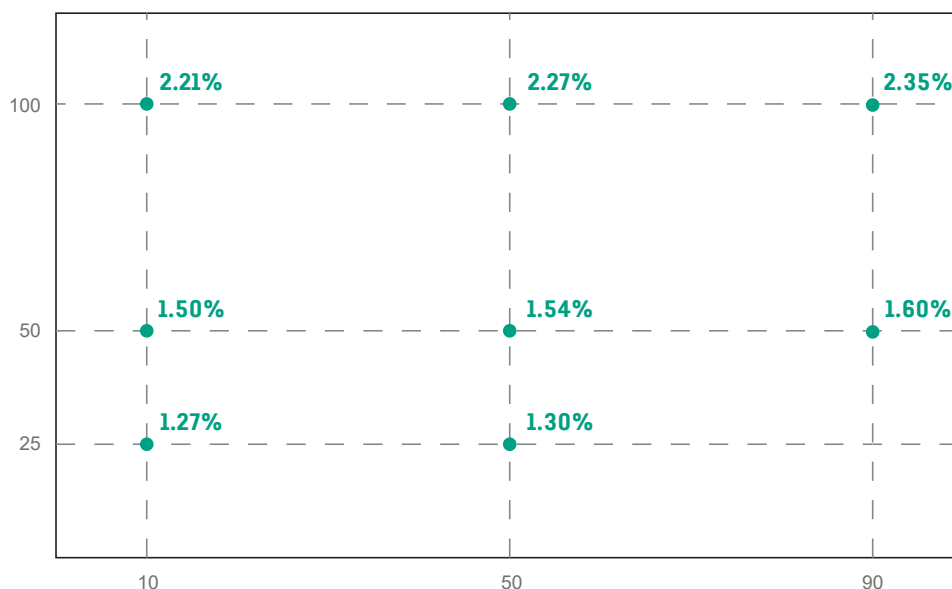
**S9HC08**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>11</b>  |
| Nominal current                 | (A)   | <b>23</b>  |
| Nominal apparent power          | (kVA) | <b>15</b>  |
| Standby loss                    | (W)   | <b>32</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.35%         | 351.60            | 97.0%        |
| 90          | 50        | 1.60%         | 239.08            | 96.6%        |
| 50          | 100       | 2.27%         | 339.54            | 94.9%        |
| 50          | 50        | 1.54%         | 231.42            | 94.3%        |
| 50          | 25        | 1.30%         | 195.08            | 93.6%        |
| 10          | 100       | 2.21%         | 331.32            | 79.4%        |
| 10          | 50        | 1.50%         | 225.13            | 77.2%        |
| 10          | 25        | 1.27%         | 189.98            | 75.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-HC-3150-KBX-4**

**IE2**

**EFFICIENCY:**

**97.2%**

Code

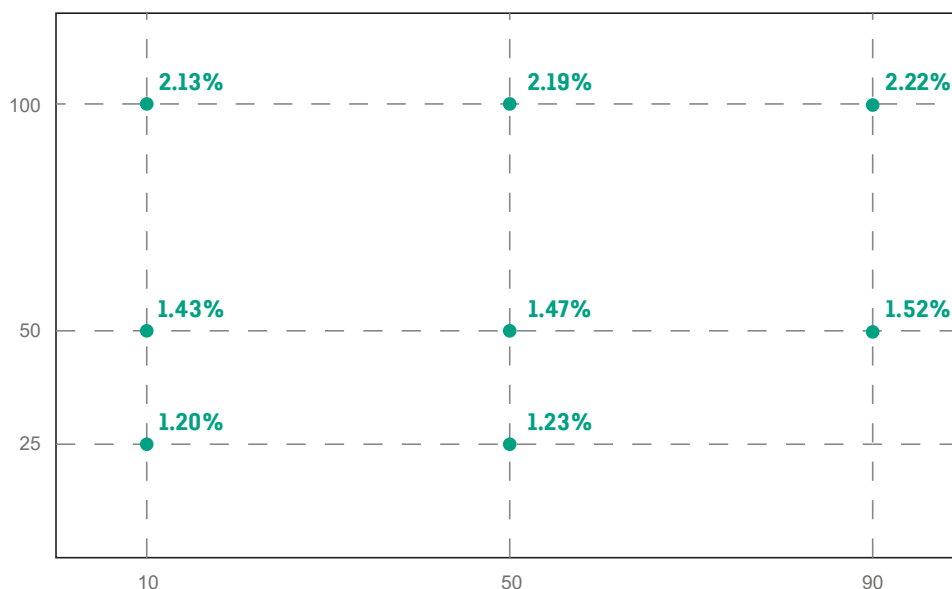
**S9HC09**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>15</b>   |
| Nominal current                 | (A)   | <b>31</b>   |
| Nominal apparent power          | (kVA) | <b>20.2</b> |
| Standby loss                    | (W)   | <b>41</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.22%         | 449.00            | 97.2%        |
| 90          | 50        | 1.52%         | 307.79            | 96.8%        |
| 50          | 100       | 2.19%         | 441.42            | 95.1%        |
| 50          | 50        | 1.47%         | 297.10            | 94.5%        |
| 50          | 25        | 1.23%         | 248.44            | 94.0%        |
| 10          | 100       | 2.13%         | 430.38            | 79.9%        |
| 10          | 50        | 1.43%         | 288.64            | 78.1%        |
| 10          | 25        | 1.20%         | 241.58            | 76.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-HC-3185-KBX-4**

**IE2**

**EFFICIENCY:**

**97.2%**

Code

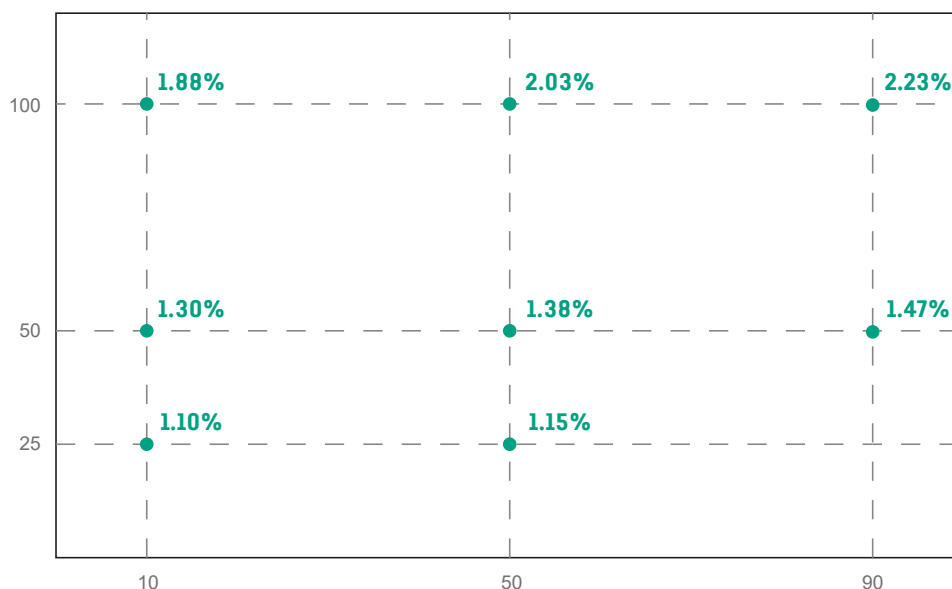
**S9HC10**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>18.5</b>  |
| Nominal current                 | (A)   | <b>38</b>    |
| Nominal apparent power          | (kVA) | <b>24.75</b> |
| Standby loss                    | (W)   | <b>50</b>    |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.23%         | 552.10            | 97.2%        |
| 90          | 50        | 1.47%         | 364.08            | 96.9%        |
| 50          | 100       | 2.03%         | 502.12            | 95.4%        |
| 50          | 50        | 1.38%         | 340.61            | 94.9%        |
| 50          | 25        | 1.15%         | 284.60            | 94.3%        |
| 10          | 100       | 1.88%         | 465.36            | 81.9%        |
| 10          | 50        | 1.30%         | 321.90            | 79.7%        |
| 10          | 25        | 1.10%         | 271.51            | 77.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-HC-3220-KBX-4**

**IE2**

**EFFICIENCY:**

**96.8%**

Code

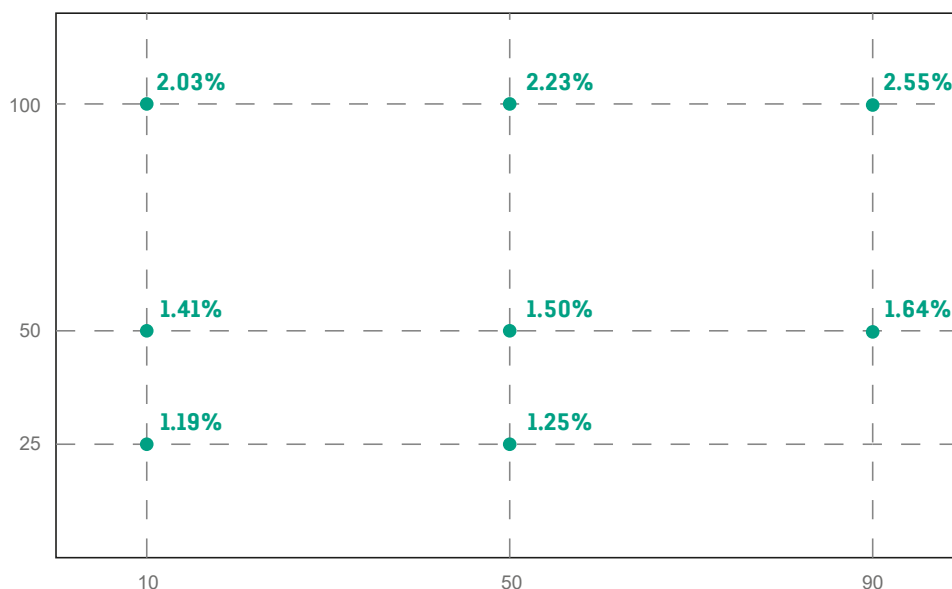
**S9HC11**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>22</b>  |
| Nominal current                 | (A)   | <b>46</b>  |
| Nominal apparent power          | (kVA) | <b>30</b>  |
| Standby loss                    | (W)   | <b>69</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.55%         | 762.48            | 96.8%        |
| 90          | 50        | 1.64%         | 491.42            | 96.5%        |
| 50          | 100       | 2.23%         | 667.55            | 95.0%        |
| 50          | 50        | 1.50%         | 450.11            | 94.4%        |
| 50          | 25        | 1.25%         | 374.71            | 93.9%        |
| 10          | 100       | 2.03%         | 607.10            | 80.7%        |
| 10          | 50        | 1.41%         | 421.21            | 78.4%        |
| 10          | 25        | 1.19%         | 355.10            | 76.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-HC-4300-KBX-4**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

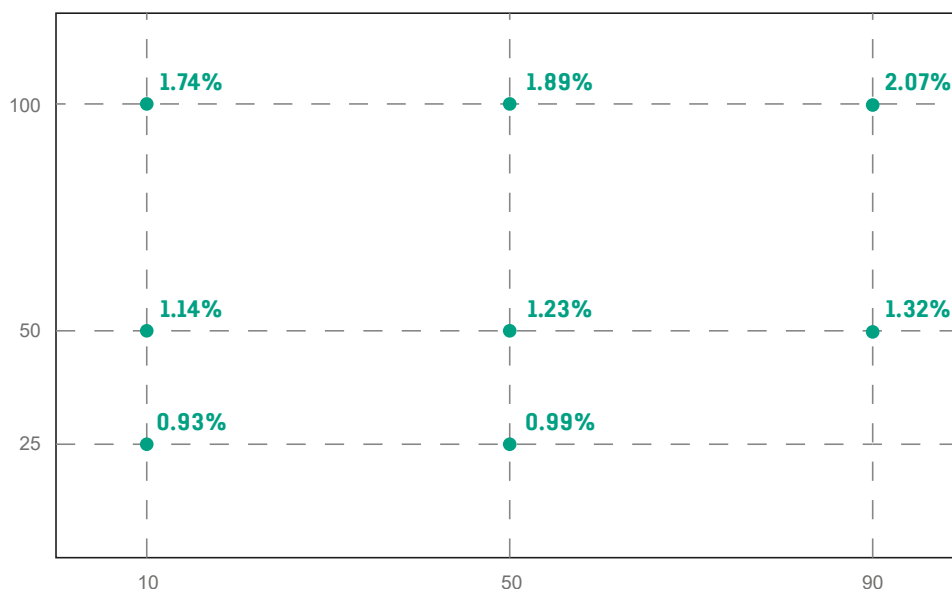
**S9HC12**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>30</b>   |
| Nominal current                 | (A)   | <b>62</b>   |
| Nominal apparent power          | (kVA) | <b>40.4</b> |
| Standby loss                    | (W)   | <b>76</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 836.96            | 97.4%        |
| 90          | 50        | 1.32%         | 531.70            | 97.1%        |
| 50          | 100       | 1.89%         | 764.80            | 95.7%        |
| 50          | 50        | 1.23%         | 494.89            | 95.3%        |
| 50          | 25        | 0.99%         | 400.54            | 94.7%        |
| 10          | 100       | 1.74%         | 702.97            | 83.0%        |
| 10          | 50        | 1.14%         | 461.55            | 81.2%        |
| 10          | 25        | 0.93%         | 377.09            | 79.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-HC-4370-KBX-4**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

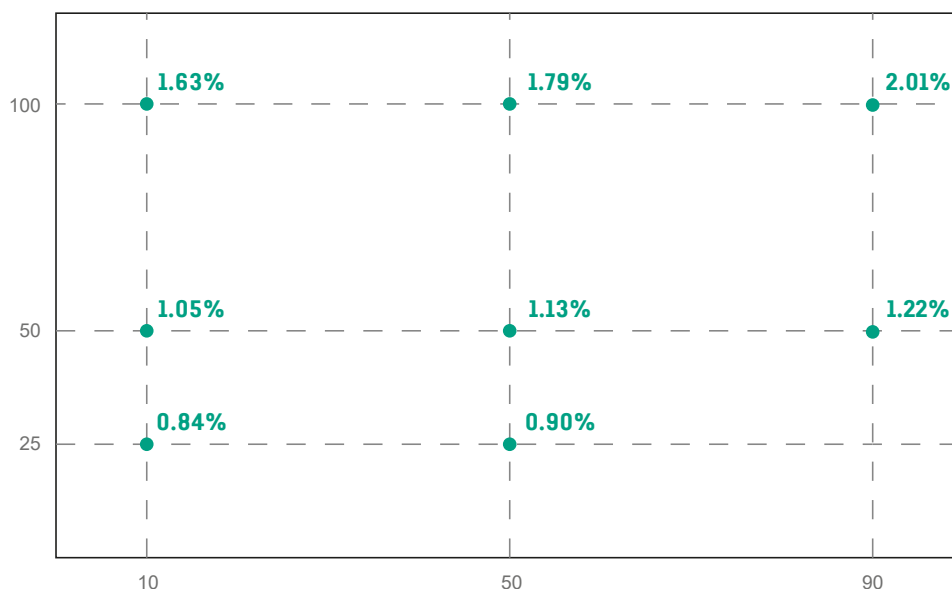
**S9HC13**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>37</b>   |
| Nominal current                 | (A)   | <b>75</b>   |
| Nominal apparent power          | (kVA) | <b>48.8</b> |
| Standby loss                    | (W)   | <b>89</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.01%         | 980.88            | 97.4%        |
| 90          | 50        | 1.22%         | 597.76            | 97.3%        |
| 50          | 100       | 1.79%         | 875.11            | 96.0%        |
| 50          | 50        | 1.13%         | 549.53            | 95.6%        |
| 50          | 25        | 0.90%         | 438.75            | 95.2%        |
| 10          | 100       | 1.63%         | 798.06            | 83.9%        |
| 10          | 50        | 1.05%         | 510.96            | 82.5%        |
| 10          | 25        | 0.84%         | 412.51            | 80.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-HC-4450-KBX-4**

**IE2**

**EFFICIENCY:**

**97.3%**

Code

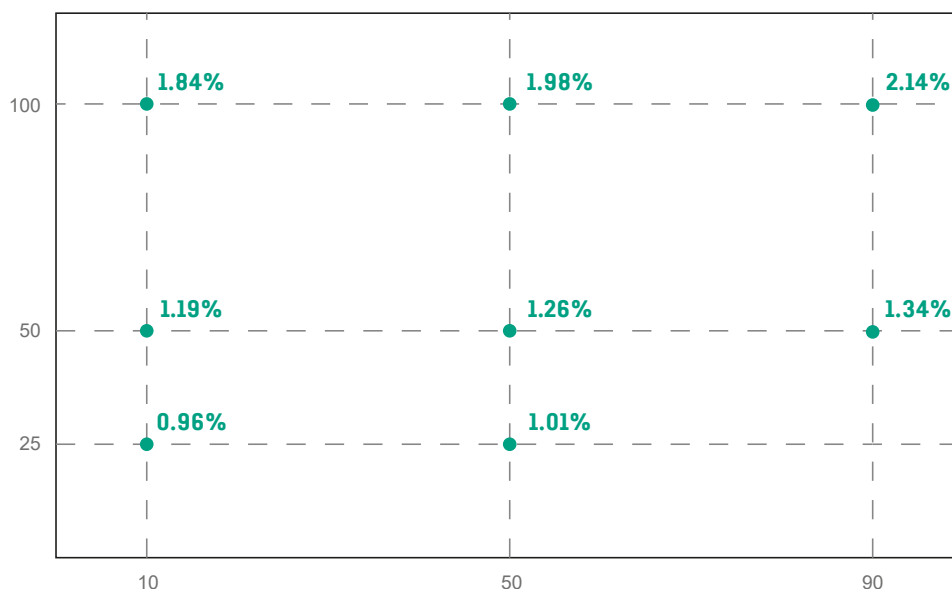
**S9HC14**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>45</b>   |
| Nominal current                 | (A)   | <b>87</b>   |
| Nominal apparent power          | (kVA) | <b>56.7</b> |
| Standby loss                    | (W)   | <b>110</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.14%         | 1,214.58          | 97.3%        |
| 90          | 50        | 1.34%         | 759.44            | 97.1%        |
| 50          | 100       | 1.98%         | 1,121.61          | 95.6%        |
| 50          | 50        | 1.26%         | 713.70            | 95.2%        |
| 50          | 25        | 1.01%         | 569.50            | 94.7%        |
| 10          | 100       | 1.84%         | 1,045.20          | 82.3%        |
| 10          | 50        | 1.19%         | 673.55            | 80.8%        |
| 10          | 25        | 0.96%         | 541.57            | 79.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-HC-5550-KBX-4**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

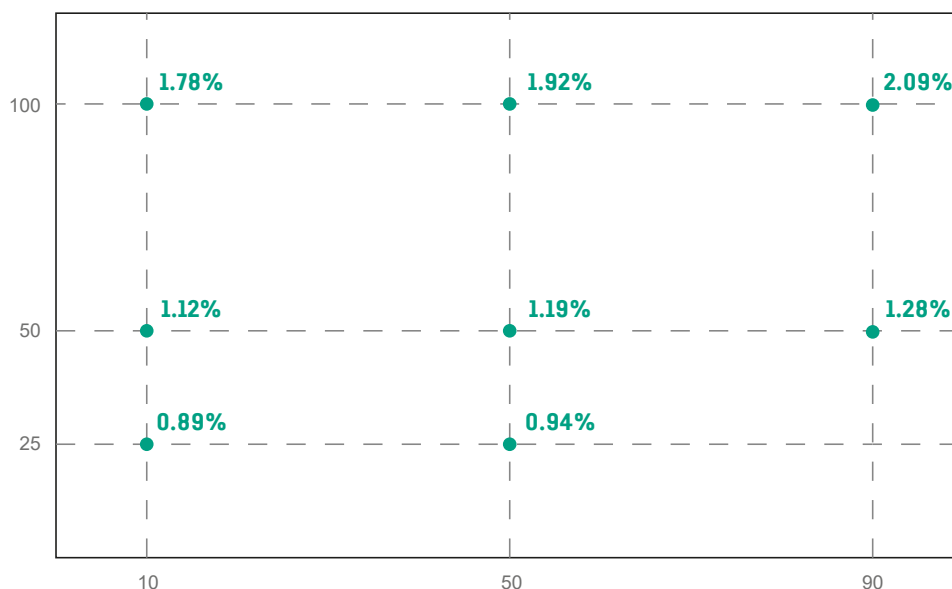
**S9HC15**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>55</b>   |
| Nominal current                 | (A)   | <b>105</b>  |
| Nominal apparent power          | (kVA) | <b>68.4</b> |
| Standby loss                    | (W)   | <b>130</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.09%         | 1,431.96          | 97.4%        |
| 90          | 50        | 1.28%         | 875.52            | 97.2%        |
| 50          | 100       | 1.92%         | 1,310.93          | 95.7%        |
| 50          | 50        | 1.19%         | 816.88            | 95.4%        |
| 50          | 25        | 0.94%         | 645.19            | 95.0%        |
| 10          | 100       | 1.78%         | 1,214.14          | 82.9%        |
| 10          | 50        | 1.12%         | 766.40            | 81.7%        |
| 10          | 25        | 0.89%         | 610.20            | 80.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-HC-4300-KXX-4**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

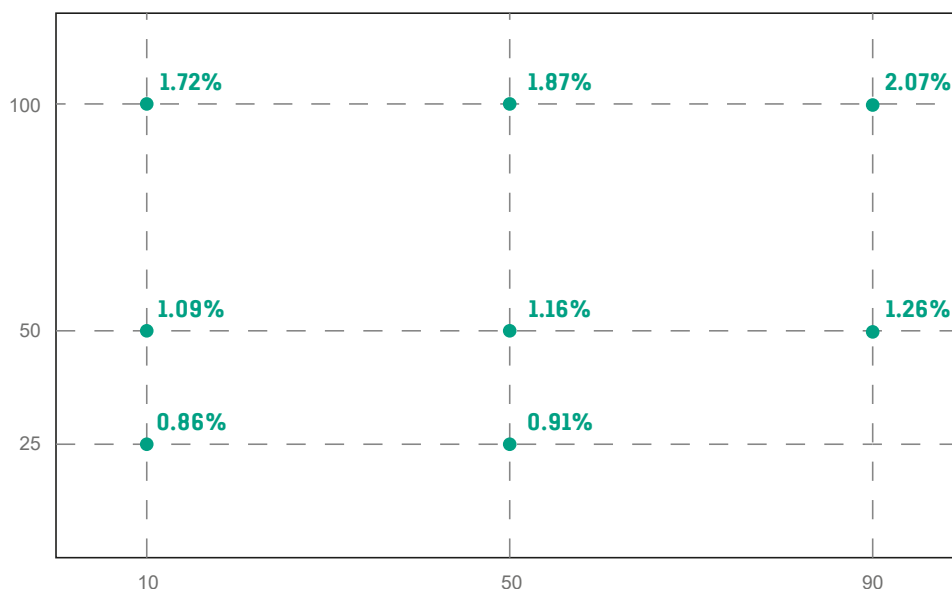
**S9HC16**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>30</b>   |
| Nominal current                 | (A)   | <b>62</b>   |
| Nominal apparent power          | (kVA) | <b>40.4</b> |
| Standby loss                    | (W)   | <b>76</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 2,024.88          | 97.4%        |
| 90          | 50        | 1.26%         | 1,226.35          | 97.3%        |
| 50          | 100       | 1.87%         | 1,831.36          | 95.8%        |
| 50          | 50        | 1.16%         | 1,135.65          | 95.5%        |
| 50          | 25        | 0.91%         | 893.53            | 95.2%        |
| 10          | 100       | 1.72%         | 1,683.33          | 83.3%        |
| 10          | 50        | 1.09%         | 1,060.26          | 82.1%        |
| 10          | 25        | 0.86%         | 841.81            | 80.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-HC-4370-KXX-4**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

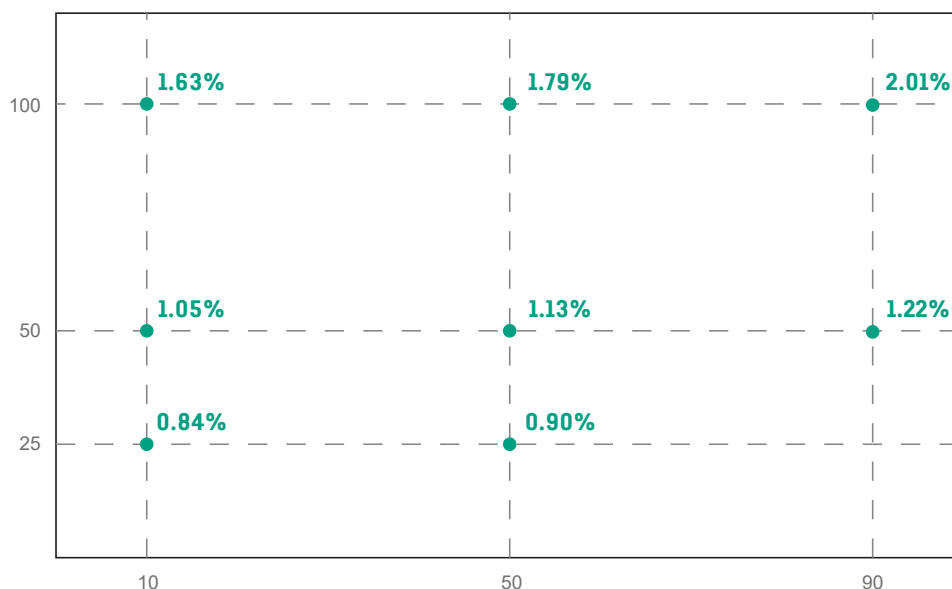
**S9HC17**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>37</b>   |
| Nominal current                 | (A)   | <b>75</b>   |
| Nominal apparent power          | (kVA) | <b>48.8</b> |
| Standby loss                    | (W)   | <b>89</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.01%         | 980.88            | 97.4%        |
| 90          | 50        | 1.22%         | 597.76            | 97.3%        |
| 50          | 100       | 1.79%         | 875.11            | 96.0%        |
| 50          | 50        | 1.13%         | 549.53            | 95.6%        |
| 50          | 25        | 0.90%         | 438.75            | 95.2%        |
| 10          | 100       | 1.63%         | 798.06            | 83.9%        |
| 10          | 50        | 1.05%         | 510.96            | 82.5%        |
| 10          | 25        | 0.84%         | 412.51            | 80.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-HC-4450-KXX-4**

**IE2**

**EFFICIENCY:**

**97.3%**

Code

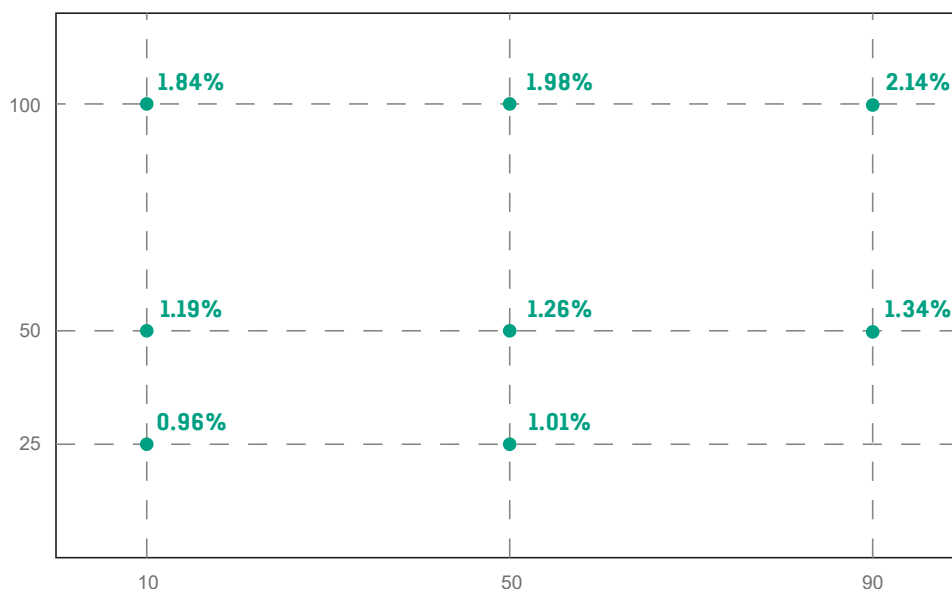
**S9HC18**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>45</b>   |
| Nominal current                 | (A)   | <b>87</b>   |
| Nominal apparent power          | (kVA) | <b>56.7</b> |
| Standby loss                    | (W)   | <b>110</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.14%         | 1,214.58          | 97.3%        |
| 90          | 50        | 1.34%         | 759.44            | 97.1%        |
| 50          | 100       | 1.98%         | 1,121.61          | 95.6%        |
| 50          | 50        | 1.26%         | 713.70            | 95.2%        |
| 50          | 25        | 1.01%         | 569.50            | 94.7%        |
| 10          | 100       | 1.84%         | 1,045.20          | 82.3%        |
| 10          | 50        | 1.19%         | 673.55            | 80.8%        |
| 10          | 25        | 0.96%         | 541.57            | 79.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-HC-5550-KXX-4**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

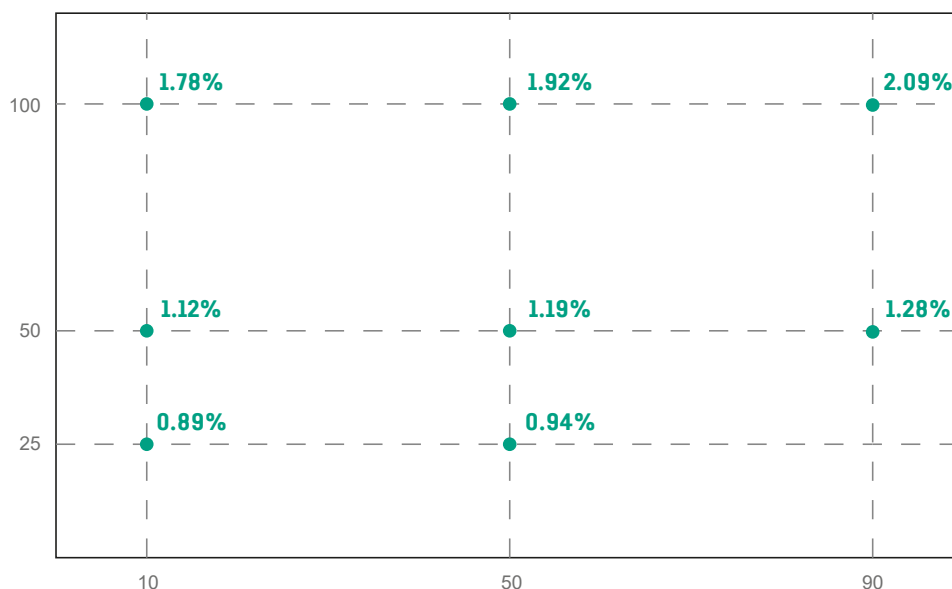
**S9HC19**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>55</b>   |
| Nominal current                 | (A)   | <b>105</b>  |
| Nominal apparent power          | (kVA) | <b>68.4</b> |
| Standby loss                    | (W)   | <b>130</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.09%         | 1,431.96          | 97.4%        |
| 90          | 50        | 1.28%         | 875.52            | 97.2%        |
| 50          | 100       | 1.92%         | 1,310.93          | 95.7%        |
| 50          | 50        | 1.19%         | 816.88            | 95.4%        |
| 50          | 25        | 0.94%         | 645.19            | 95.0%        |
| 10          | 100       | 1.78%         | 1,214.14          | 82.9%        |
| 10          | 50        | 1.12%         | 766.40            | 81.7%        |
| 10          | 25        | 0.89%         | 610.20            | 80.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-HC-5750-KXX-4**

**IE2**

**EFFICIENCY:**

**97.4%**

Code

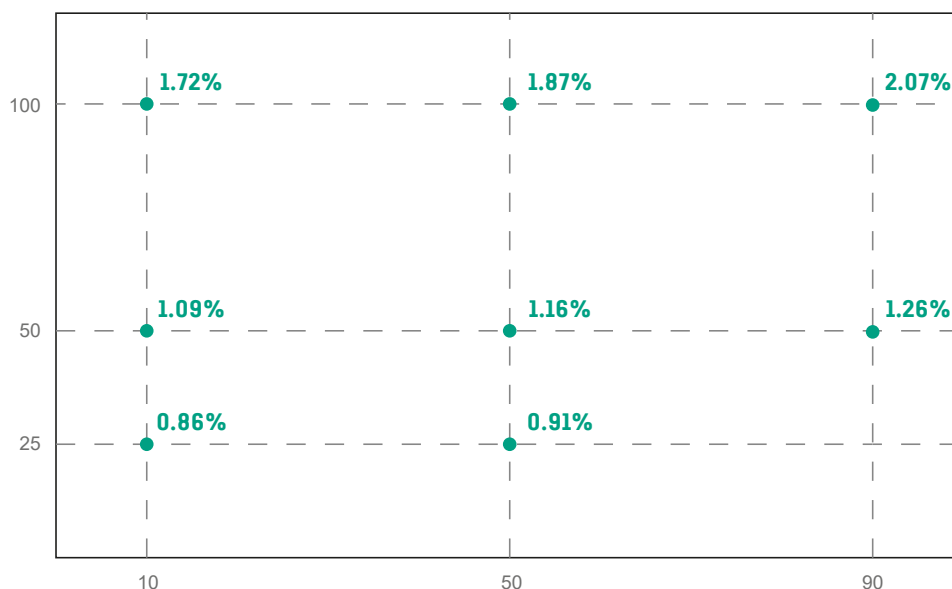
**S9HC20**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>75</b>   |
| Nominal current                 | (A)   | <b>150</b>  |
| Nominal apparent power          | (kVA) | <b>97.7</b> |
| Standby loss                    | (W)   | <b>184</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 2,024.88          | 97.4%        |
| 90          | 50        | 1.26%         | 1,226.35          | 97.3%        |
| 50          | 100       | 1.87%         | 1,831.36          | 95.8%        |
| 50          | 50        | 1.16%         | 1,135.65          | 95.5%        |
| 50          | 25        | 0.91%         | 893.53            | 95.2%        |
| 10          | 100       | 1.72%         | 1,683.33          | 83.3%        |
| 10          | 50        | 1.09%         | 1,060.26          | 82.1%        |
| 10          | 25        | 0.86%         | 841.81            | 80.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-HC-5900-KXX-4**

**IE2**

**EFFICIENCY:**

**97.6%**

Code

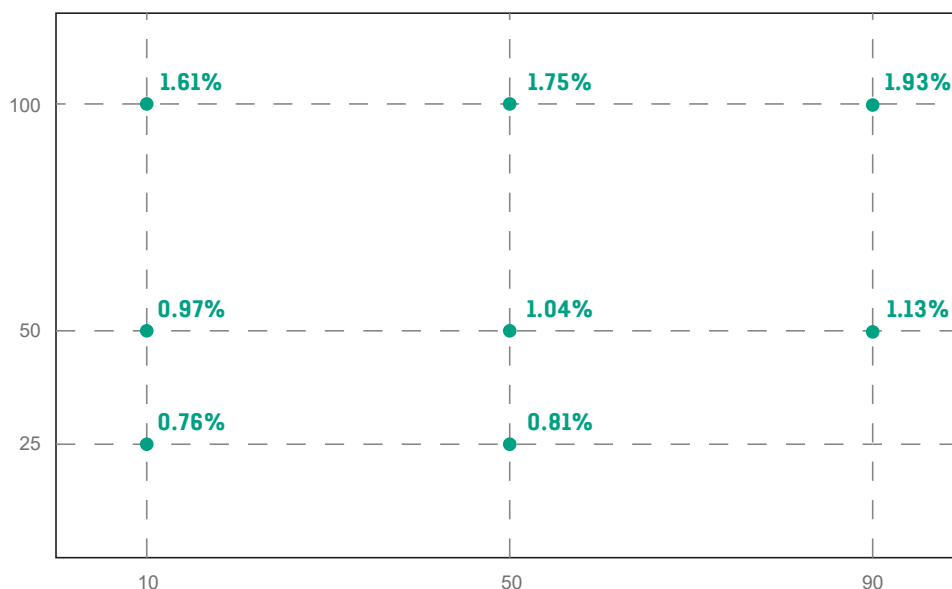
**S9HC21**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>90</b>    |
| Nominal current                 | (A)   | <b>180</b>   |
| Nominal apparent power          | (kVA) | <b>117.2</b> |
| Standby loss                    | (W)   | <b>205</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.93%         | 2,257.49          | 97.6%        |
| 90          | 50        | 1.13%         | 1,322.22          | 97.5%        |
| 50          | 100       | 1.75%         | 2,051.77          | 96.1%        |
| 50          | 50        | 1.04%         | 1,224.33          | 96.0%        |
| 50          | 25        | 0.81%         | 944.69            | 95.7%        |
| 10          | 100       | 1.61%         | 1,889.73          | 84.2%        |
| 10          | 50        | 0.97%         | 1,141.14          | 83.7%        |
| 10          | 25        | 0.76%         | 887.42            | 82.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-HC-61100-KXX-4**

**IE2**

**EFFICIENCY:**

**98.0%**

Code

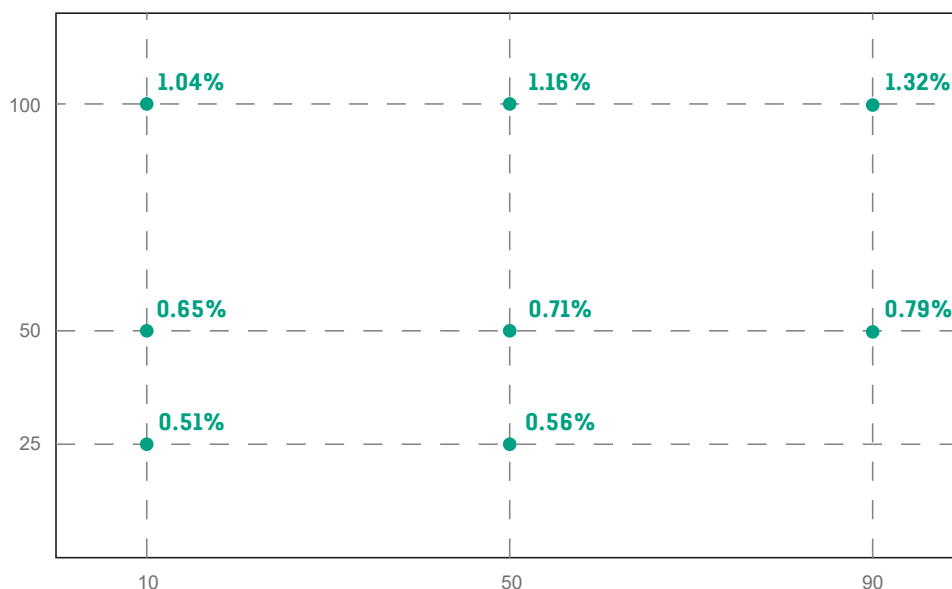
**S9HC22**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>110</b>   |
| Nominal current                 | (A)   | <b>210</b>   |
| Nominal apparent power          | (kVA) | <b>162.8</b> |
| Standby loss                    | (W)   | <b>195</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.32%         | 2,143.86          | 98.0%        |
| 90          | 50        | 0.79%         | 1,281.43          | 98.0%        |
| 50          | 100       | 1.16%         | 1,896.62          | 96.9%        |
| 50          | 50        | 0.71%         | 1,160.70          | 96.7%        |
| 50          | 25        | 0.56%         | 905.74            | 96.5%        |
| 10          | 100       | 1.04%         | 1,699.32          | 87.4%        |
| 10          | 50        | 0.65%         | 1,056.76          | 86.6%        |
| 10          | 25        | 0.51%         | 833.37            | 85.6%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-HC-61320-KXX-4**

**IE2**

**EFFICIENCY:**

**98.0%**

Code

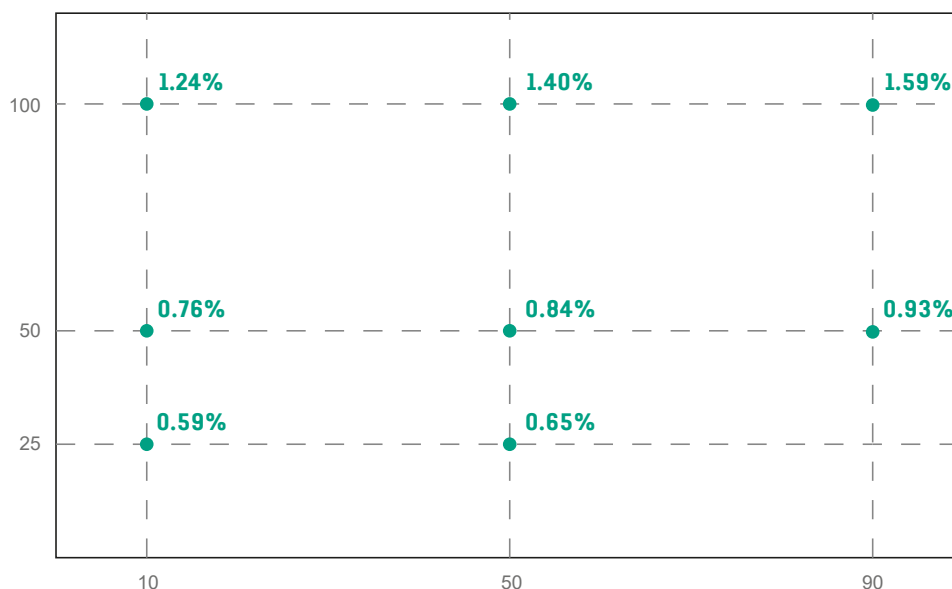
**S9HC23**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>132</b>   |
| Nominal current                 | (A)   | <b>250</b>   |
| Nominal apparent power          | (kVA) | <b>162.8</b> |
| Standby loss                    | (W)   | <b>236</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.59%         | 2,596.15          | 98.0%        |
| 90          | 50        | 0.93%         | 1,513.51          | 98.0%        |
| 50          | 100       | 1.40%         | 2,275.29          | 96.9%        |
| 50          | 50        | 0.84%         | 1,360.86          | 96.8%        |
| 50          | 25        | 0.65%         | 1,051.50          | 96.5%        |
| 10          | 100       | 1.24%         | 2,017.62          | 87.4%        |
| 10          | 50        | 0.76%         | 1,229.46          | 86.9%        |
| 10          | 25        | 0.59%         | 961.33            | 85.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-HC-71600-KXX-4**

**IE2**

**EFFICIENCY:**

**97.8%**

Code

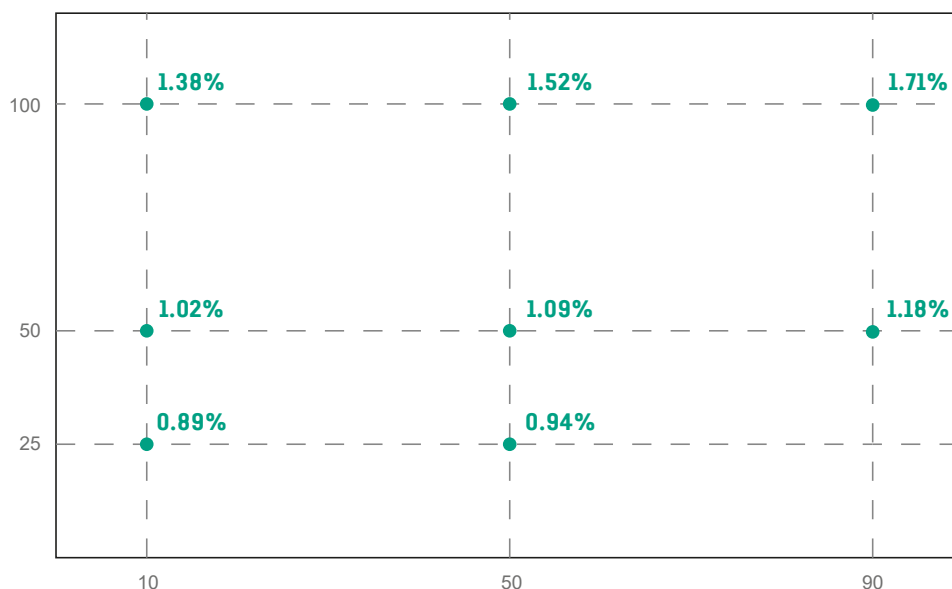
**S9HC24**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>160</b>   |
| Nominal current                 | (A)   | <b>300</b>   |
| Nominal apparent power          | (kVA) | <b>195.4</b> |
| Standby loss                    | (W)   | <b>304</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.71%         | 3,342.40          | 97.8%        |
| 90          | 50        | 1.18%         | 2,313.43          | 97.4%        |
| 50          | 100       | 1.52%         | 2,968.06          | 96.6%        |
| 50          | 50        | 1.09%         | 2,136.10          | 95.8%        |
| 50          | 25        | 0.94%         | 1,831.37          | 95.1%        |
| 10          | 100       | 1.38%         | 2,687.17          | 86.2%        |
| 10          | 50        | 1.02%         | 1,993.17          | 83.0%        |
| 10          | 25        | 0.89%         | 1,733.38          | 80.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-HC-72000-KXX-4**

**IE2**

**EFFICIENCY:**

**97.9%**

Code

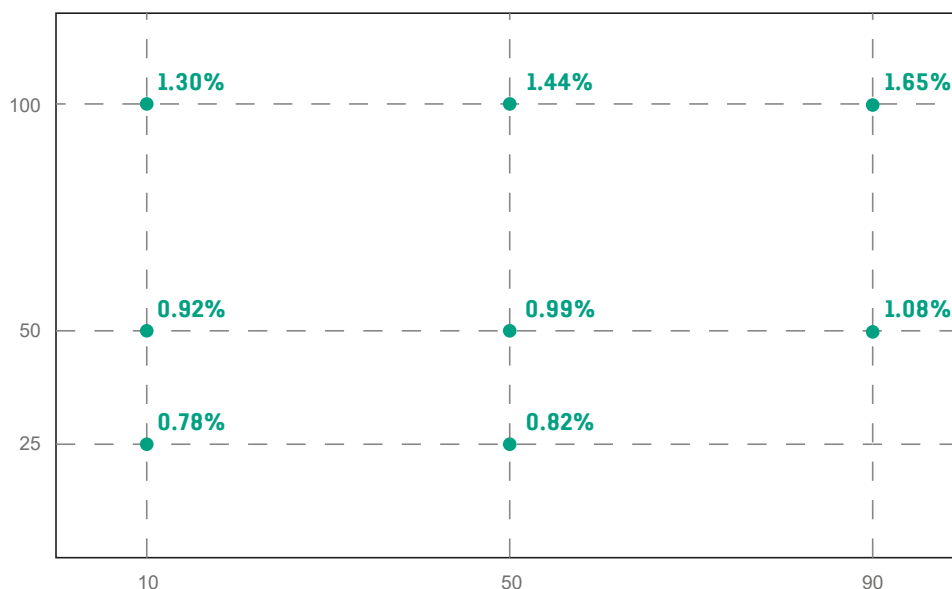
**S9HC25**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>200</b>   |
| Nominal current                 | (A)   | <b>385</b>   |
| Nominal apparent power          | (kVA) | <b>250.7</b> |
| Standby loss                    | (W)   | <b>377</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.65%         | 4,149.10          | 97.9%        |
| 90          | 50        | 1.08%         | 2,715.38          | 97.6%        |
| 50          | 100       | 1.44%         | 3,622.81          | 96.8%        |
| 50          | 50        | 0.99%         | 2,487.06          | 96.1%        |
| 50          | 25        | 0.82%         | 2,066.30          | 95.4%        |
| 10          | 100       | 1.30%         | 3,247.44          | 87.0%        |
| 10          | 50        | 0.92%         | 2,306.08          | 84.1%        |
| 10          | 25        | 0.78%         | 1,948.12          | 81.4%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-HC-72500-KXX-4**

**IE2**

**EFFICIENCY:**

**97.9%**

Code

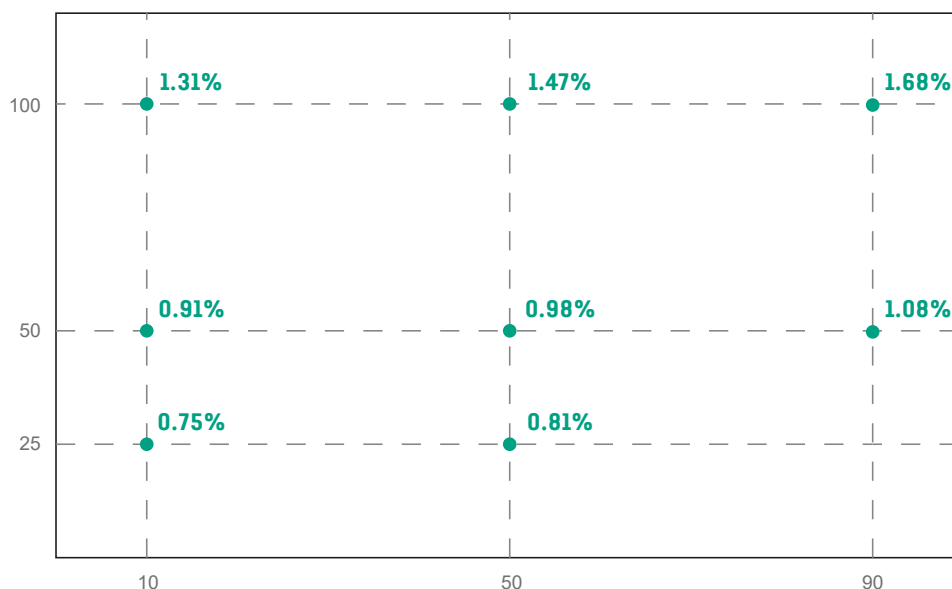
**S9HC26**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>250</b>   |
| Nominal current                 | (A)   | <b>460</b>   |
| Nominal apparent power          | (kVA) | <b>299.6</b> |
| Standby loss                    | (W)   | <b>458</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.68%         | 5,035.22          | 97.9%        |
| 90          | 50        | 1.08%         | 3,234.78          | 97.6%        |
| 50          | 100       | 1.47%         | 4,395.93          | 96.7%        |
| 50          | 50        | 0.98%         | 2,950.18          | 96.1%        |
| 50          | 25        | 0.81%         | 2,413.76          | 95.5%        |
| 10          | 100       | 1.31%         | 3,921.30          | 86.9%        |
| 10          | 50        | 0.91%         | 2,717.22          | 84.3%        |
| 10          | 25        | 0.75%         | 2,260.35          | 81.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-HC-73150-KXX-4**

**IE2**

**EFFICIENCY:**

**98.0%**

Code

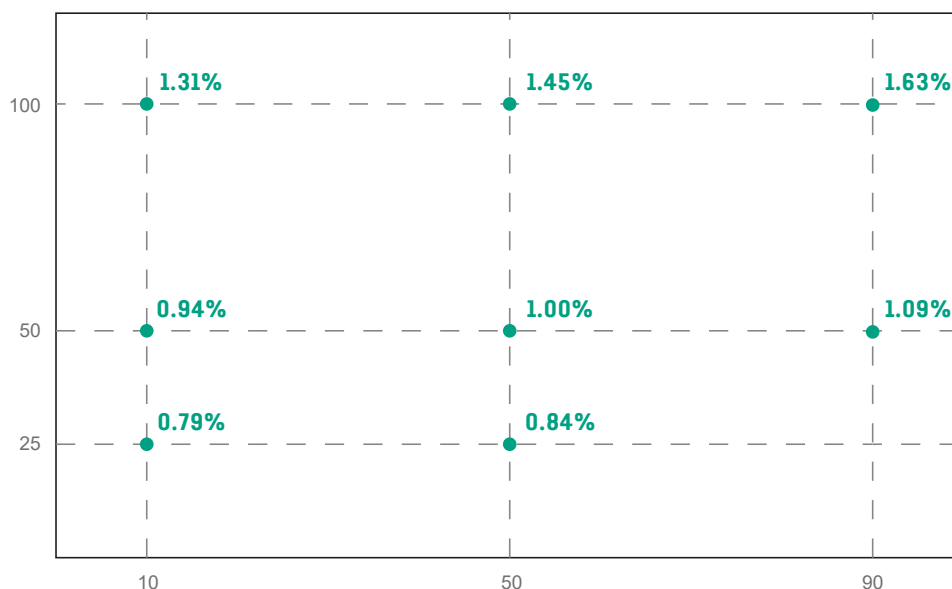
**S9HC27**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>315</b>   |
| Nominal current                 | (A)   | <b>590</b>   |
| Nominal apparent power          | (kVA) | <b>384.2</b> |
| Standby loss                    | (W)   | <b>572</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.63%         | 6,281.26          | 98.0%        |
| 90          | 50        | 1.09%         | 4,173.99          | 97.6%        |
| 50          | 100       | 1.45%         | 5,559.37          | 96.8%        |
| 50          | 50        | 1.00%         | 3,854.14          | 96.0%        |
| 50          | 25        | 0.84%         | 3,220.95          | 95.3%        |
| 10          | 100       | 1.31%         | 5,027.54          | 86.9%        |
| 10          | 50        | 0.94%         | 3,593.88          | 83.9%        |
| 10          | 25        | 0.79%         | 3,049.81          | 81.0%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type

**ADV200-HC-73551-KXX-4**

**IE2**

**EFFICIENCY:**

**98.0%**

Code

**S9HC28**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>355</b>   |
| Nominal current                 | (A)   | <b>650</b>   |
| Nominal apparent power          | (kVA) | <b>423.3</b> |
| Standby loss                    | (W)   | <b>617</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.60%         | 6,780.70          | 98.0%        |
| 90          | 50        | 1.05%         | 4,451.60          | 97.7%        |
| 50          | 100       | 1.41%         | 5,951.67          | 96.9%        |
| 50          | 50        | 0.97%         | 4,088.64          | 96.2%        |
| 50          | 25        | 0.80%         | 3,396.38          | 95.5%        |
| 10          | 100       | 1.26%         | 5,353.10          | 87.3%        |
| 10          | 50        | 0.90%         | 3,797.95          | 84.4%        |
| 10          | 25        | 0.76%         | 3,205.91          | 81.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-1007-KBX-4+SI**

**IE2** EFFICIENCY: **94.1%**

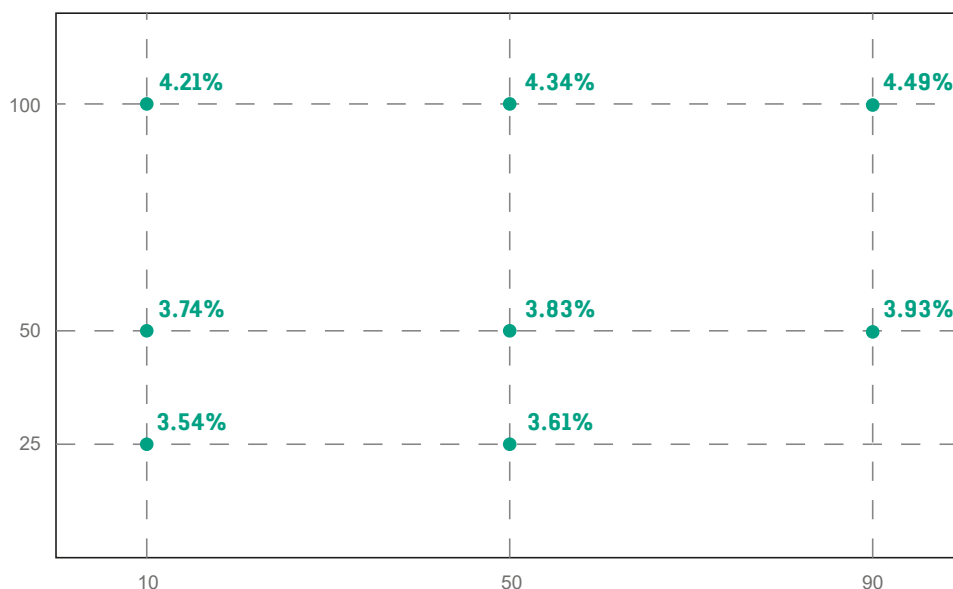
Code **S9HC41**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>0.75</b> |
| Nominal current                 | (A)   | <b>2.5</b>  |
| Nominal apparent power          | (kVA) | <b>1.6</b>  |
| Standby loss                    | (W)   | <b>6.65</b> |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 4.49%         | 73.13             | 94.1%        |
| 90          | 50        | 3.93%         | 64.00             | 92.8%        |
| 50          | 100       | 4.34%         | 70.71             | 90.1%        |
| 50          | 50        | 3.83%         | 62.41             | 88.0%        |
| 50          | 25        | 3.61%         | 58.81             | 86.4%        |
| 10          | 100       | 4.21%         | 68.49             | 65.3%        |
| 10          | 50        | 3.74%         | 60.92             | 60.0%        |
| 10          | 25        | 3.54%         | 57.62             | 56.4%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-1015-KBX-4+SI**

**IE2** EFFICIENCY: **95.7%**

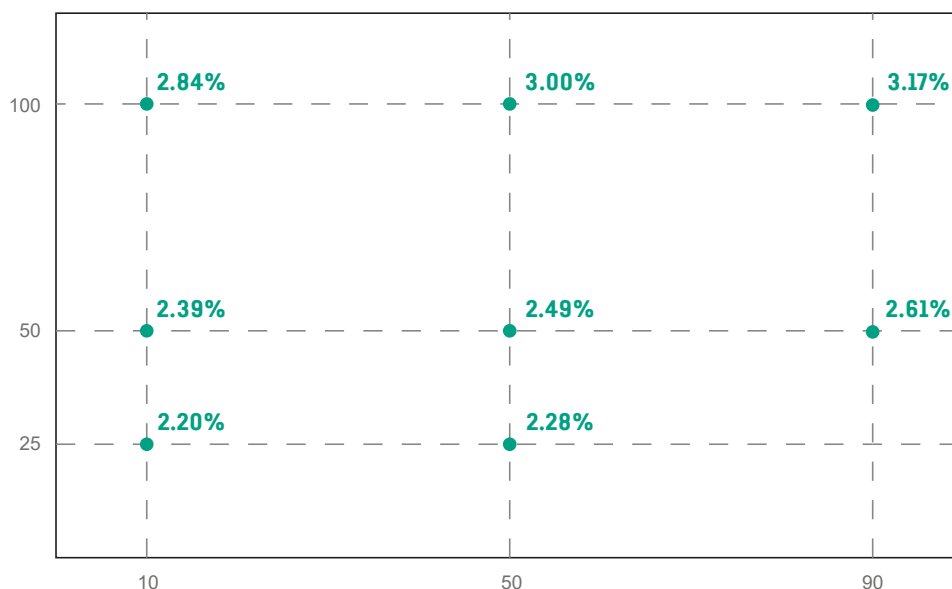
Code **S9HC42**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>1.5</b> |
| Nominal current                 | (A)   | <b>4,3</b> |
| Nominal apparent power          | (kVA) | <b>2.8</b> |
| Standby loss                    | (W)   | <b>8</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 3.17%         | 88.82             | 95.7%        |
| 90          | 50        | 2.61%         | 72.95             | 95.1%        |
| 50          | 100       | 3.00%         | 83.95             | 92.9%        |
| 50          | 50        | 2.49%         | 69.86             | 91.8%        |
| 50          | 25        | 2.28%         | 63.90             | 90.9%        |
| 10          | 100       | 2.84%         | 79.65             | 73.5%        |
| 10          | 50        | 2.39%         | 67.05             | 70.1%        |
| 10          | 25        | 2.20%         | 61.70             | 67.5%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-1022-KBX-4+S1**

**IE2** EFFICIENCY: **96.0%**

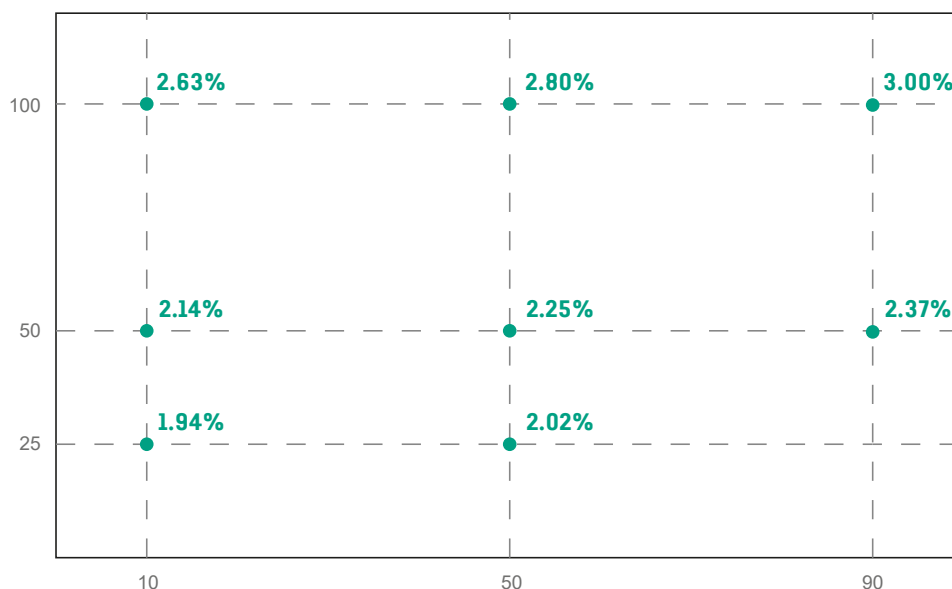
Code **S9HC43**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>2.2</b> |
| Nominal current                 | (A)   | <b>5.8</b> |
| Nominal apparent power          | (kVA) | <b>3.8</b> |
| Standby loss                    | (W)   | <b>10</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 3.00%         | 113.27            | 96.0%        |
| 90          | 50        | 2.37%         | 89.62             | 95.5%        |
| 50          | 100       | 2.80%         | 105.86            | 93.4%        |
| 50          | 50        | 2.25%         | 85.02             | 92.6%        |
| 50          | 25        | 2.02%         | 76.35             | 91.9%        |
| 10          | 100       | 2.63%         | 99.49             | 75.0%        |
| 10          | 50        | 2.14%         | 80.94             | 72.4%        |
| 10          | 25        | 1.94%         | 73.18             | 70.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-1030-KBX-4+S1**

**IE2** EFFICIENCY: **95.8%**

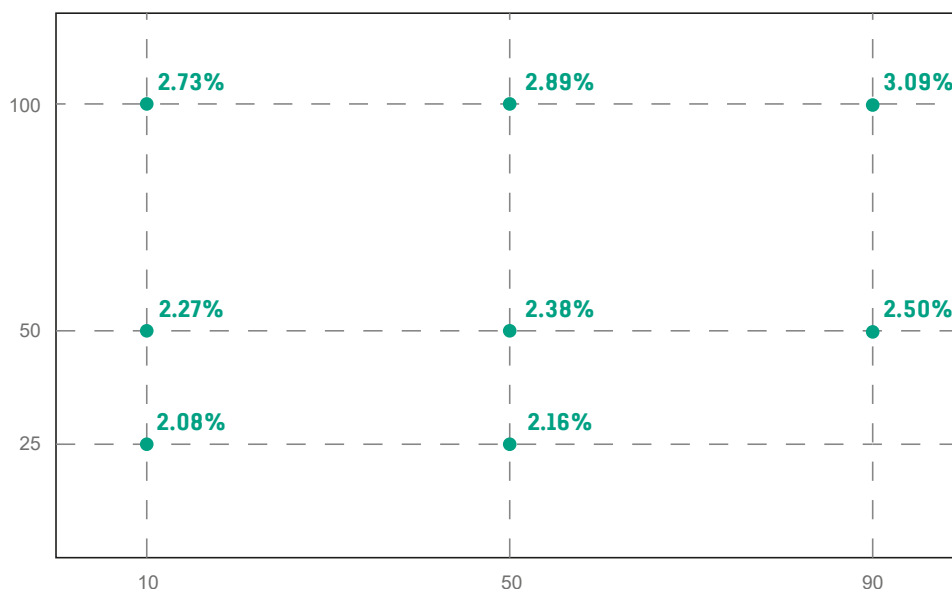
Code **S9HC44**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>3</b>   |
| Nominal current                 | (A)   | <b>7.6</b> |
| Nominal apparent power          | (kVA) | <b>5</b>   |
| Standby loss                    | (W)   | <b>14</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 3.09%         | 152.80            | 95.8%        |
| 90          | 50        | 2.50%         | 123.97            | 95.3%        |
| 50          | 100       | 2.89%         | 143.08            | 93.2%        |
| 50          | 50        | 2.38%         | 117.80            | 92.2%        |
| 50          | 25        | 2.16%         | 107.15            | 91.4%        |
| 10          | 100       | 2.73%         | 135.13            | 74.3%        |
| 10          | 50        | 2.27%         | 112.52            | 71.2%        |
| 10          | 25        | 2.08%         | 102.98            | 68.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-1040-KBX-4+SI**

**IE2** EFFICIENCY: **96.2%**

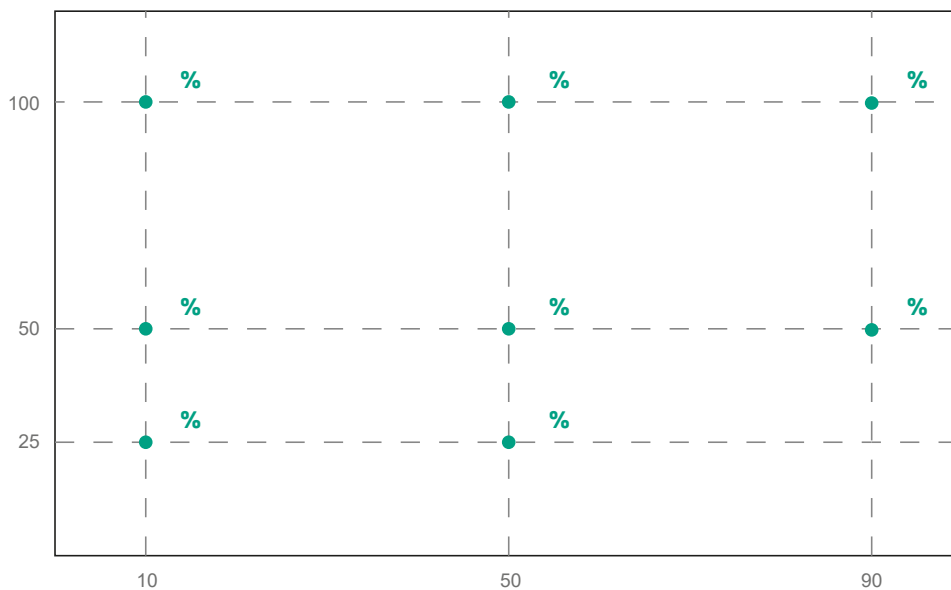
Code **S9HC45**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>4</b>   |
| Nominal current                 | (A)   | <b>7.6</b> |
| Nominal apparent power          | (kVA) | <b>5</b>   |
| Standby loss                    | (W)   | <b>16</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.85%         | 176.12            | 96.2%        |
| 90          | 50        | 2.33%         | 143.97            | 95.6%        |
| 50          | 100       | 2.70%         | 167.24            | 93.6%        |
| 50          | 50        | 2.24%         | 138.36            | 92.6%        |
| 50          | 25        | 2.04%         | 126.09            | 91.8%        |
| 10          | 100       | 2.58%         | 159.83            | 75.4%        |
| 10          | 50        | 2.16%         | 133.48            | 72.2%        |
| 10          | 25        | 1.98%         | 122.25            | 69.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-2055-KBX-4+SI**

**IE2** EFFICIENCY: **96.6%**

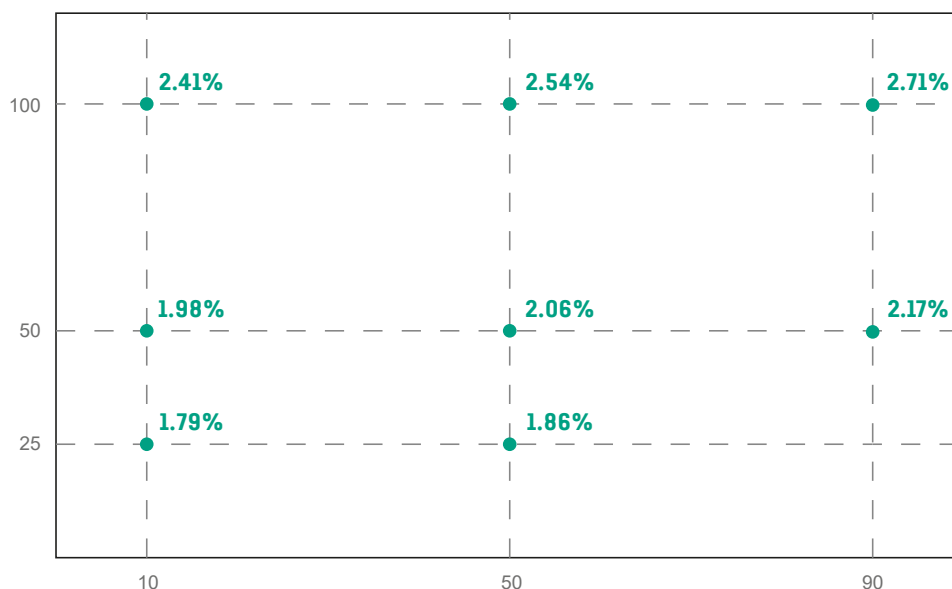
Code **S9HC46**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>5.5</b> |
| Nominal current                 | (A)   | <b>13</b>  |
| Nominal apparent power          | (kVA) | <b>8.5</b> |
| Standby loss                    | (W)   | <b>21</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.71%         | 229.84            | 96.6%        |
| 90          | 50        | 2.17%         | 183.71            | 96.2%        |
| 50          | 100       | 2.54%         | 215.21            | 94.4%        |
| 50          | 50        | 2.06%         | 174.66            | 93.6%        |
| 50          | 25        | 1.86%         | 157.40            | 93.0%        |
| 10          | 100       | 2.41%         | 203.83            | 77.9%        |
| 10          | 50        | 1.98%         | 167.26            | 75.3%        |
| 10          | 25        | 1.79%         | 151.60            | 73.4%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-2075-KBX-4+SI**

**IE2** EFFICIENCY: **96.7%**

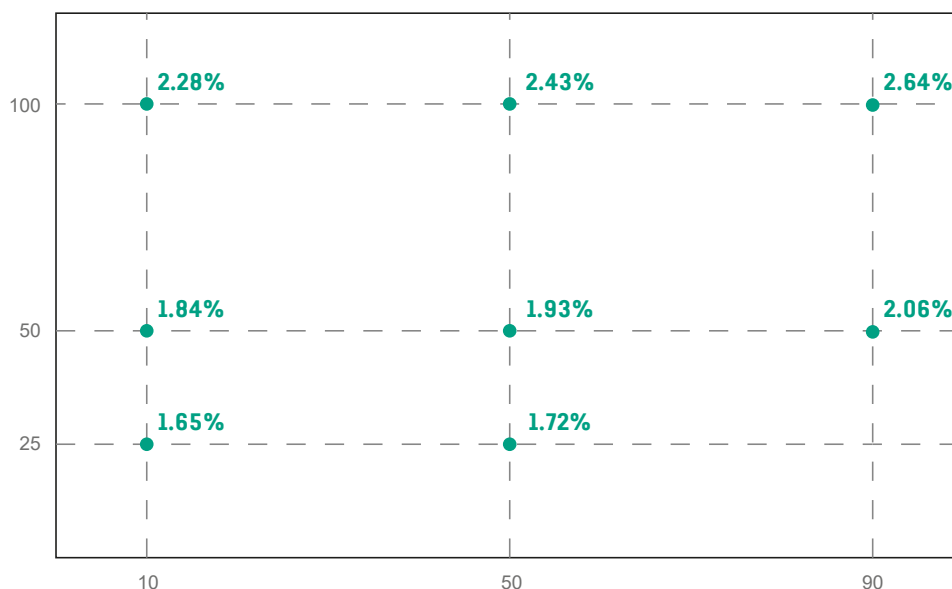
Code **S9HC47**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>7.5</b>   |
| Nominal current                 | (A)   | <b>16.5</b>  |
| Nominal apparent power          | (kVA) | <b>10.75</b> |
| Standby loss                    | (W)   | <b>26</b>    |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.64%         | 283.96            | 96.7%        |
| 90          | 50        | 2.06%         | 221.32            | 96.3%        |
| 50          | 100       | 2.43%         | 261.60            | 94.6%        |
| 50          | 50        | 1.93%         | 207.92            | 94.0%        |
| 50          | 25        | 1.72%         | 185.34            | 93.5%        |
| 10          | 100       | 2.28%         | 245.28            | 78.8%        |
| 10          | 50        | 1.84%         | 197.58            | 76.6%        |
| 10          | 25        | 1.65%         | 177.34            | 74.9%        |

RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-2110-KBX-4+SI**

**IE2** EFFICIENCY: **97.0%**

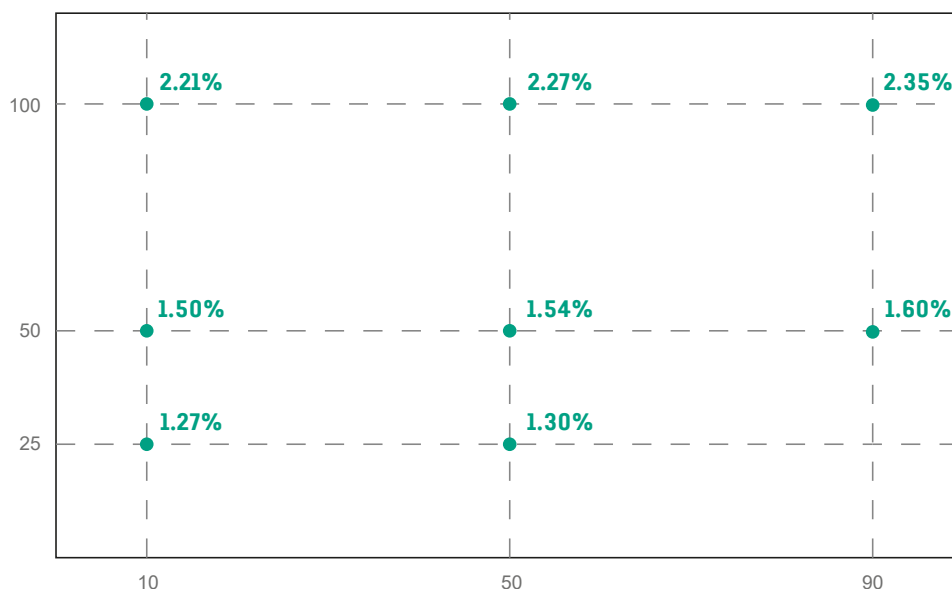
Code **S9HC48**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>11</b>  |
| Nominal current                 | (A)   | <b>23</b>  |
| Nominal apparent power          | (kVA) | <b>15</b>  |
| Standby loss                    | (W)   | <b>32</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.35%         | 351.60            | 97.0%        |
| 90          | 50        | 1.60%         | 239.08            | 96.6%        |
| 50          | 100       | 2.27%         | 339.54            | 94.9%        |
| 50          | 50        | 1.54%         | 231.42            | 94.3%        |
| 50          | 25        | 1.30%         | 195.08            | 93.6%        |
| 10          | 100       | 2.21%         | 331.32            | 79.4%        |
| 10          | 50        | 1.50%         | 225.13            | 77.2%        |
| 10          | 25        | 1.27%         | 189.98            | 75.1%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-3150-KBX-4+SI**

**IE2** EFFICIENCY: **97.2%**

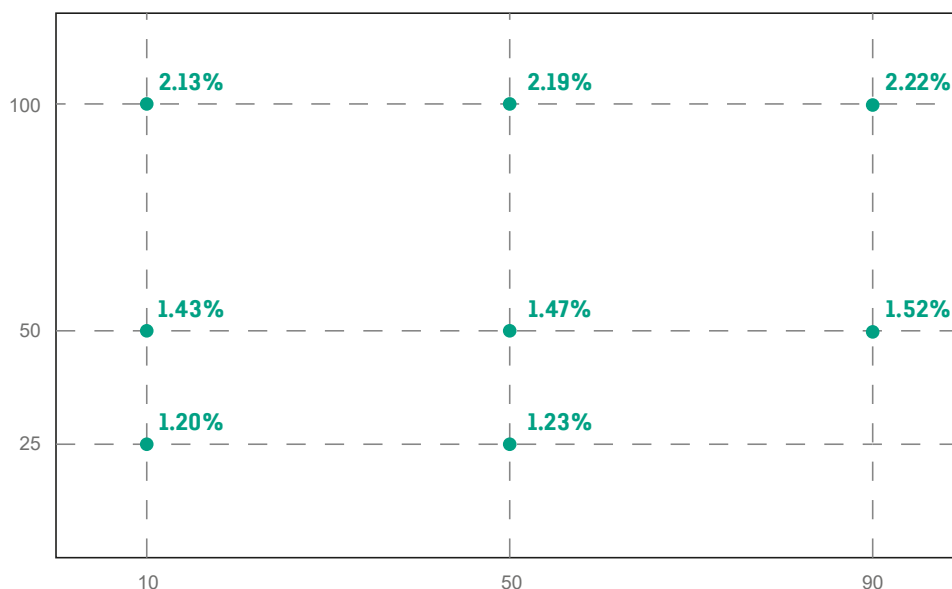
Code **S9HC49**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>15</b>   |
| Nominal current                 | (A)   | <b>31</b>   |
| Nominal apparent power          | (kVA) | <b>20.2</b> |
| Standby loss                    | (W)   | <b>41</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.22%         | 449.00            | 97.2%        |
| 90          | 50        | 1.52%         | 307.79            | 96.8%        |
| 50          | 100       | 2.19%         | 441.42            | 95.1%        |
| 50          | 50        | 1.47%         | 297.10            | 94.5%        |
| 50          | 25        | 1.23%         | 248.44            | 94.0%        |
| 10          | 100       | 2.13%         | 430.38            | 79.9%        |
| 10          | 50        | 1.43%         | 288.64            | 78.1%        |
| 10          | 25        | 1.20%         | 241.58            | 76.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-3185-KBX-4+SI**

**IE2** EFFICIENCY: **97.2%**

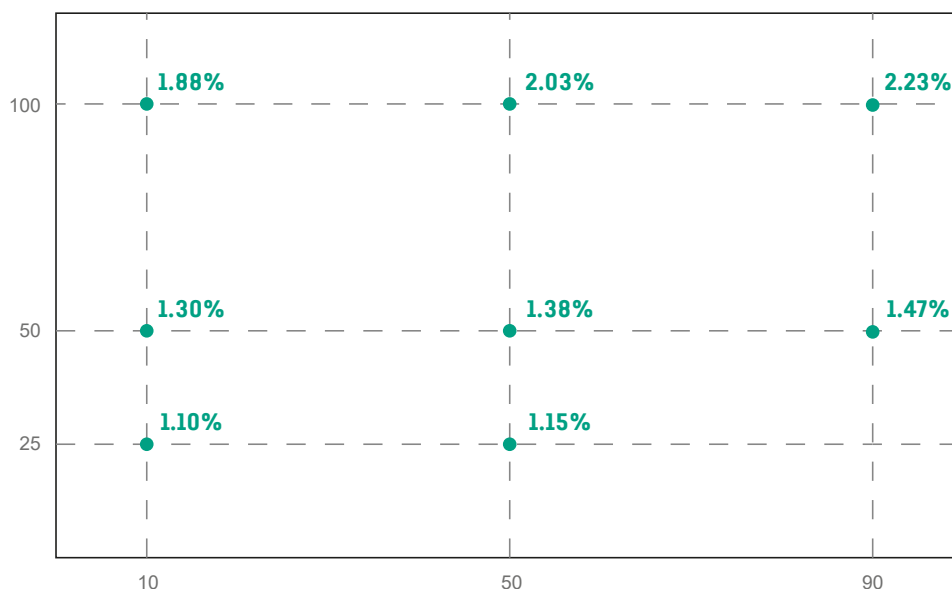
Code **S9HC50**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>18.5</b>  |
| Nominal current                 | (A)   | <b>38</b>    |
| Nominal apparent power          | (kVA) | <b>24.75</b> |
| Standby loss                    | (W)   | <b>50</b>    |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.23%         | 552.10            | 97.2%        |
| 90          | 50        | 1.47%         | 364.08            | 96.9%        |
| 50          | 100       | 2.03%         | 502.12            | 95.4%        |
| 50          | 50        | 1.38%         | 340.61            | 94.9%        |
| 50          | 25        | 1.15%         | 284.60            | 94.3%        |
| 10          | 100       | 1.88%         | 465.36            | 81.9%        |
| 10          | 50        | 1.30%         | 321.90            | 79.7%        |
| 10          | 25        | 1.10%         | 271.51            | 77.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-3220-KBX-4+SI**

**IE2** EFFICIENCY: **96.8%**

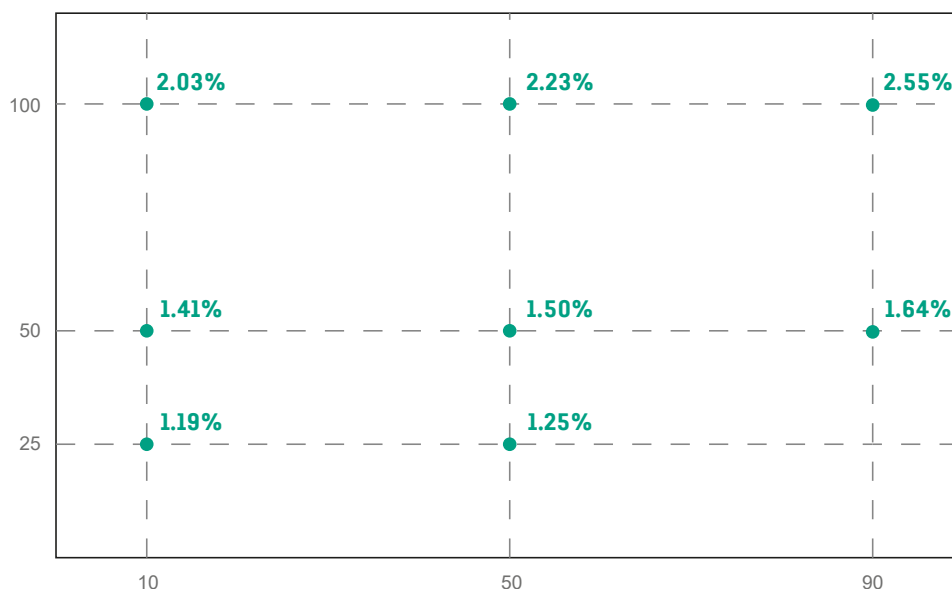
Code **S9HC51**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>22</b>  |
| Nominal current                 | (A)   | <b>46</b>  |
| Nominal apparent power          | (kVA) | <b>30</b>  |
| Standby loss                    | (W)   | <b>69</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.55%         | 762.48            | 96.8%        |
| 90          | 50        | 1.64%         | 491.42            | 96.5%        |
| 50          | 100       | 2.23%         | 667.55            | 95.0%        |
| 50          | 50        | 1.50%         | 450.11            | 94.4%        |
| 50          | 25        | 1.25%         | 374.71            | 93.9%        |
| 10          | 100       | 2.03%         | 607.10            | 80.7%        |
| 10          | 50        | 1.41%         | 421.21            | 78.4%        |
| 10          | 25        | 1.19%         | 355.10            | 76.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-4300-KBX-4+SI**

**IE2** EFFICIENCY: **97.4%**

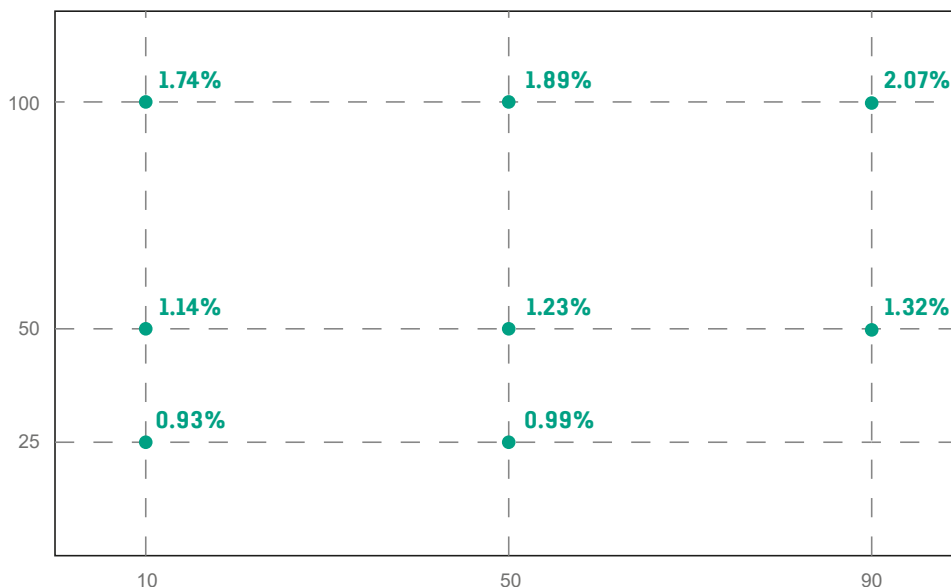
Code **S9HC52**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>30</b>   |
| Nominal current                 | (A)   | <b>62</b>   |
| Nominal apparent power          | (kVA) | <b>40.4</b> |
| Standby loss                    | (W)   | <b>76</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 836.96            | 97.4%        |
| 90          | 50        | 1.32%         | 531.70            | 97.1%        |
| 50          | 100       | 1.89%         | 764.80            | 95.7%        |
| 50          | 50        | 1.23%         | 494.89            | 95.3%        |
| 50          | 25        | 0.99%         | 400.54            | 94.7%        |
| 10          | 100       | 1.74%         | 702.97            | 83.0%        |
| 10          | 50        | 1.14%         | 461.55            | 81.2%        |
| 10          | 25        | 0.93%         | 377.09            | 79.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-4370-KBX-4+SI**

**IE2** EFFICIENCY: **97.4%**

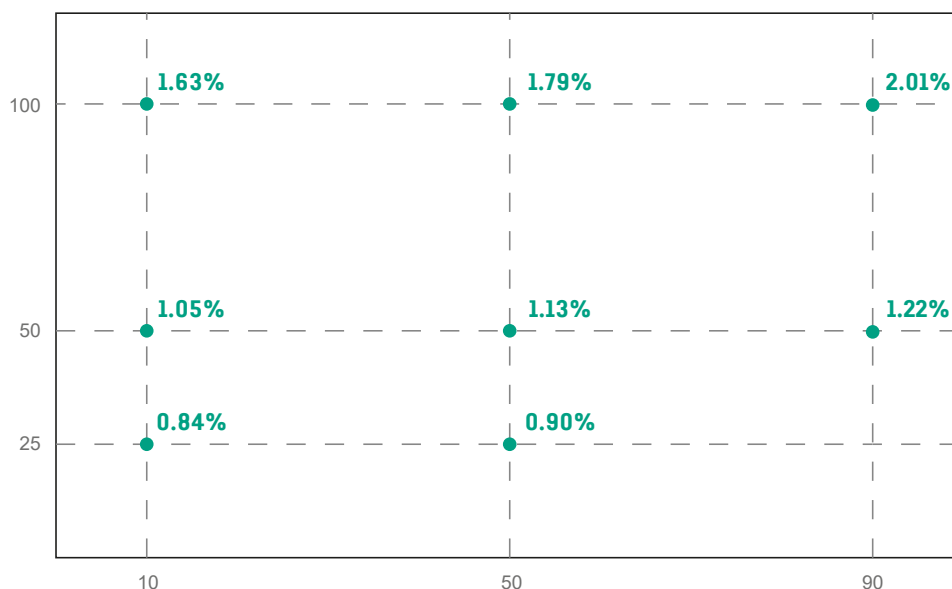
Code **S9HC53**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>37</b>   |
| Nominal current                 | (A)   | <b>75</b>   |
| Nominal apparent power          | (kVA) | <b>48.8</b> |
| Standby loss                    | (W)   | <b>89</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.01%         | 980.88            | 97.4%        |
| 90          | 50        | 1.22%         | 597.76            | 97.3%        |
| 50          | 100       | 1.79%         | 875.11            | 96.0%        |
| 50          | 50        | 1.13%         | 549.53            | 95.6%        |
| 50          | 25        | 0.90%         | 438.75            | 95.2%        |
| 10          | 100       | 1.63%         | 798.06            | 83.9%        |
| 10          | 50        | 1.05%         | 510.96            | 82.5%        |
| 10          | 25        | 0.84%         | 412.51            | 80.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-4450-KBX-4+SI**

**IE2** EFFICIENCY: **97.3%**

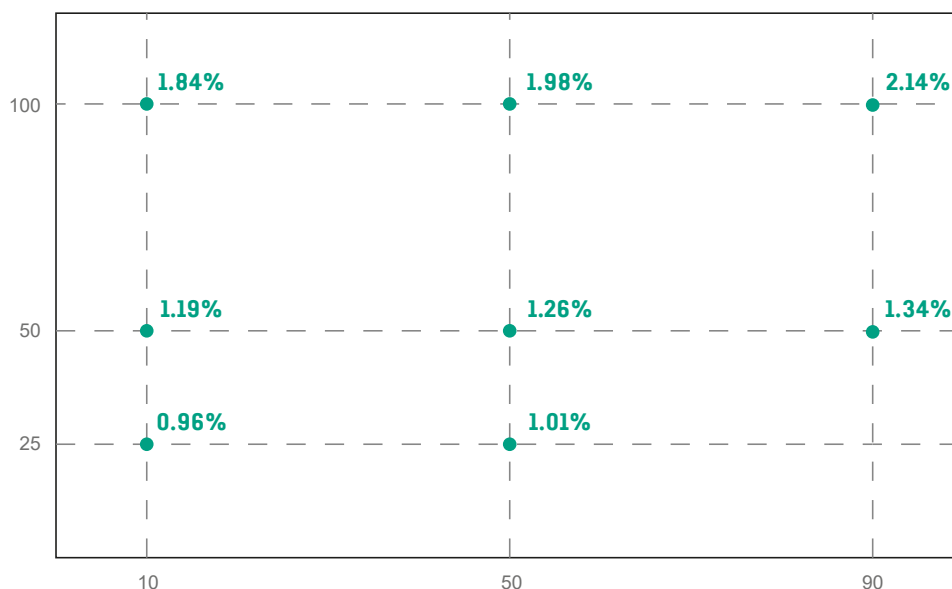
Code **S9HC54**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>45</b>   |
| Nominal current                 | (A)   | <b>87</b>   |
| Nominal apparent power          | (kVA) | <b>56.7</b> |
| Standby loss                    | (W)   | <b>110</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.14%         | 1,214.58          | 97.3%        |
| 90          | 50        | 1.34%         | 759.44            | 97.1%        |
| 50          | 100       | 1.98%         | 1,121.61          | 95.6%        |
| 50          | 50        | 1.26%         | 713.70            | 95.2%        |
| 50          | 25        | 1.01%         | 569.50            | 94.7%        |
| 10          | 100       | 1.84%         | 1,045.20          | 82.3%        |
| 10          | 50        | 1.19%         | 673.55            | 80.8%        |
| 10          | 25        | 0.96%         | 541.57            | 79.1%        |

RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-5550-KBX-4+SI**

**IE2** EFFICIENCY: **97.4%**

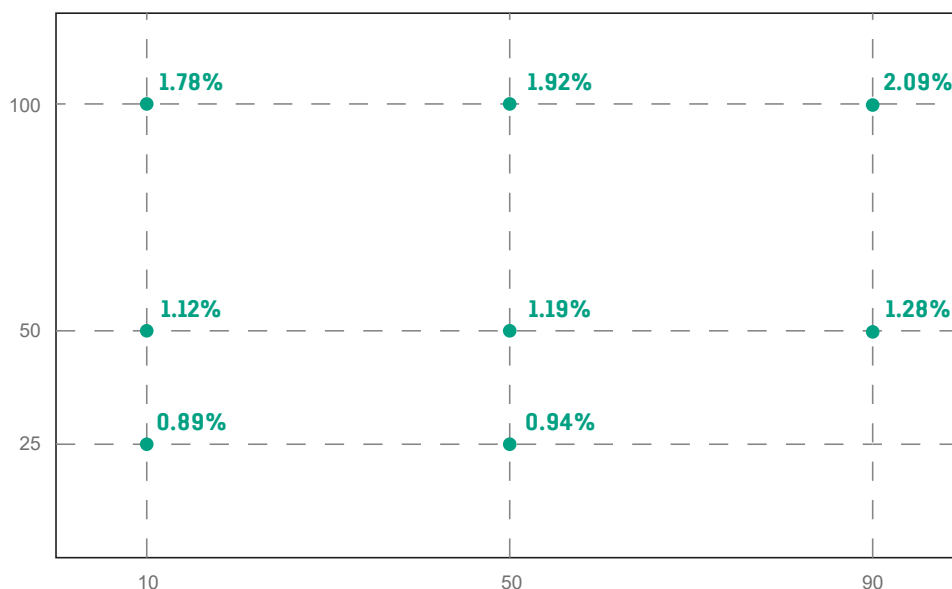
Code **S9HC55**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>55</b>   |
| Nominal current                 | (A)   | <b>105</b>  |
| Nominal apparent power          | (kVA) | <b>68.4</b> |
| Standby loss                    | (W)   | <b>130</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.09%         | 1,431.96          | 97.4%        |
| 90          | 50        | 1.28%         | 875.52            | 97.2%        |
| 50          | 100       | 1.92%         | 1,310.93          | 95.7%        |
| 50          | 50        | 1.19%         | 816.88            | 95.4%        |
| 50          | 25        | 0.94%         | 645.19            | 95.0%        |
| 10          | 100       | 1.78%         | 1,214.14          | 82.9%        |
| 10          | 50        | 1.12%         | 766.40            | 81.7%        |
| 10          | 25        | 0.89%         | 610.20            | 80.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-4300-KXX-4+SI**

**IE2** EFFICIENCY: **97.4%**

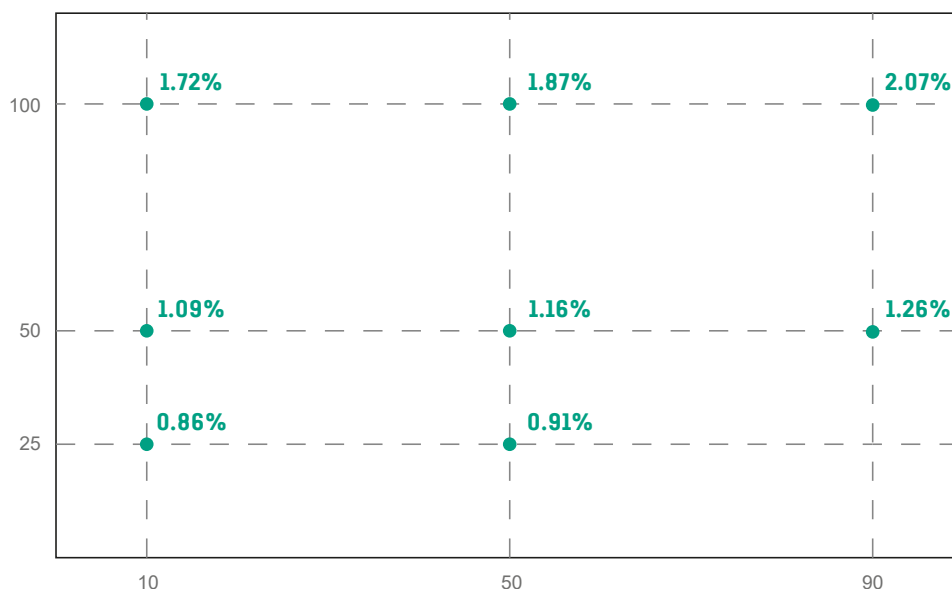
Code **S9HC56**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>30</b>   |
| Nominal current                 | (A)   | <b>62</b>   |
| Nominal apparent power          | (kVA) | <b>40.4</b> |
| Standby loss                    | (W)   | <b>76</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 2,024.88          | 97.4%        |
| 90          | 50        | 1.26%         | 1,226.35          | 97.3%        |
| 50          | 100       | 1.87%         | 1,831.36          | 95.8%        |
| 50          | 50        | 1.16%         | 1,135.65          | 95.5%        |
| 50          | 25        | 0.91%         | 893.53            | 95.2%        |
| 10          | 100       | 1.72%         | 1,683.33          | 83.3%        |
| 10          | 50        | 1.09%         | 1,060.26          | 82.1%        |
| 10          | 25        | 0.86%         | 841.81            | 80.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-4370-KXX-4+SI**

**IE2** EFFICIENCY: **97.4%**

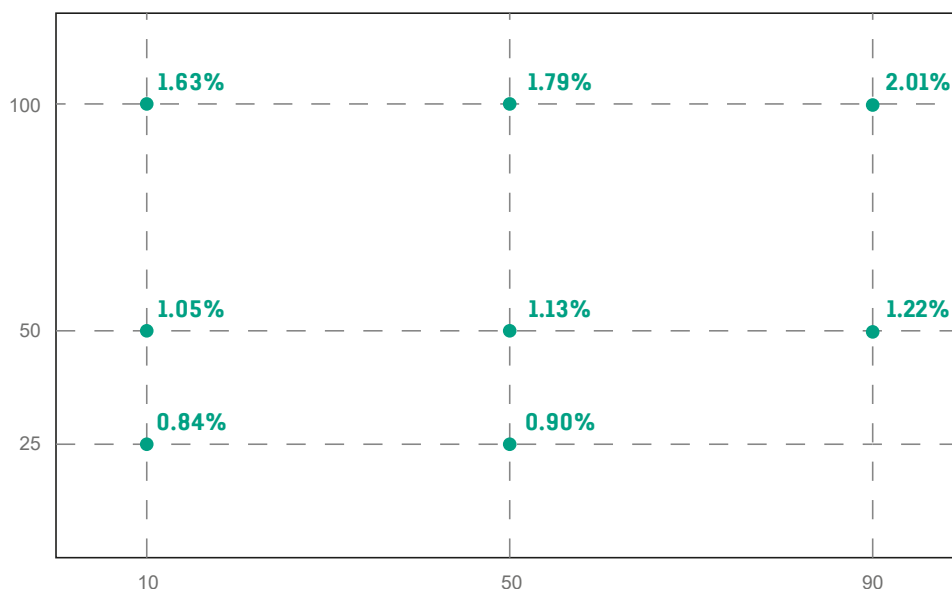
Code **S9HC57**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>37</b>   |
| Nominal current                 | (A)   | <b>75</b>   |
| Nominal apparent power          | (kVA) | <b>48.8</b> |
| Standby loss                    | (W)   | <b>89</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.01%         | 980.88            | 97.4%        |
| 90          | 50        | 1.22%         | 597.76            | 97.3%        |
| 50          | 100       | 1.79%         | 875.11            | 96.0%        |
| 50          | 50        | 1.13%         | 549.53            | 95.6%        |
| 50          | 25        | 0.90%         | 438.75            | 95.2%        |
| 10          | 100       | 1.63%         | 798.06            | 83.9%        |
| 10          | 50        | 1.05%         | 510.96            | 82.5%        |
| 10          | 25        | 0.84%         | 412.51            | 80.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-4450-KXX-4+SI**

**IE2** EFFICIENCY: **97.3%**

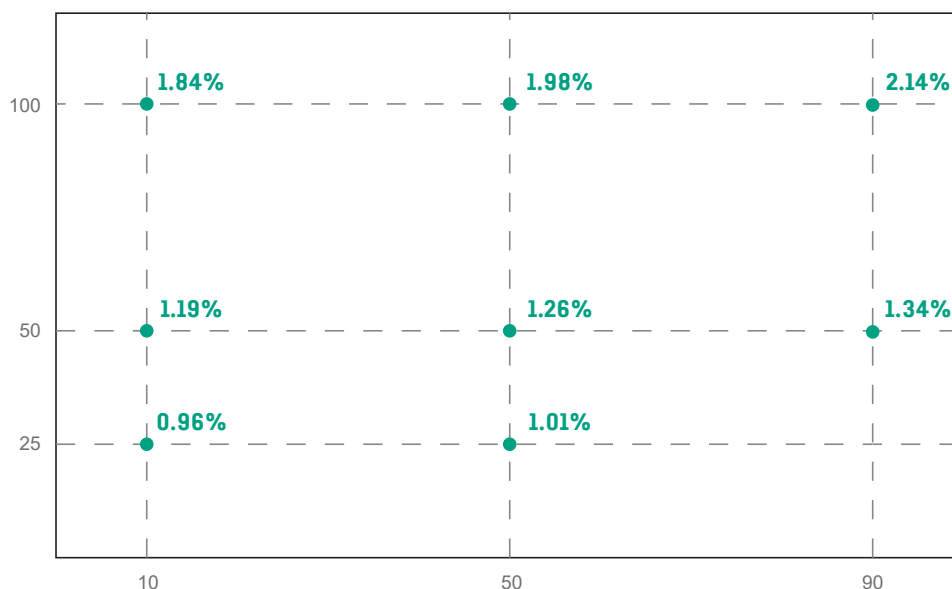
Code **S9HC58**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>45</b>   |
| Nominal current                 | (A)   | <b>87</b>   |
| Nominal apparent power          | (kVA) | <b>56.7</b> |
| Standby loss                    | (W)   | <b>110</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.14%         | 1,214.58          | 97.3%        |
| 90          | 50        | 1.34%         | 759.44            | 97.1%        |
| 50          | 100       | 1.98%         | 1,121.61          | 95.6%        |
| 50          | 50        | 1.26%         | 713.70            | 95.2%        |
| 50          | 25        | 1.01%         | 569.50            | 94.7%        |
| 10          | 100       | 1.84%         | 1,045.20          | 82.3%        |
| 10          | 50        | 1.19%         | 673.55            | 80.8%        |
| 10          | 25        | 0.96%         | 541.57            | 79.1%        |

RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-5550-KXX-4+SI**

**IE2** EFFICIENCY: **97.4%**

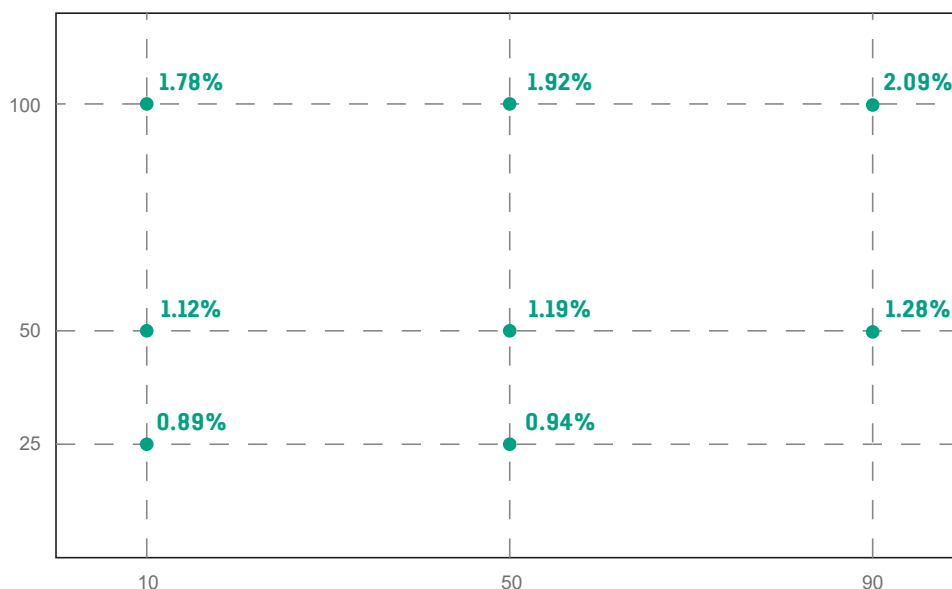
Code **S9HC59**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>55</b>   |
| Nominal current                 | (A)   | <b>105</b>  |
| Nominal apparent power          | (kVA) | <b>68.4</b> |
| Standby loss                    | (W)   | <b>130</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.09%         | 1,431.96          | 97.4%        |
| 90          | 50        | 1.28%         | 875.52            | 97.2%        |
| 50          | 100       | 1.92%         | 1,310.93          | 95.7%        |
| 50          | 50        | 1.19%         | 816.88            | 95.4%        |
| 50          | 25        | 0.94%         | 645.19            | 95.0%        |
| 10          | 100       | 1.78%         | 1,214.14          | 82.9%        |
| 10          | 50        | 1.12%         | 766.40            | 81.7%        |
| 10          | 25        | 0.89%         | 610.20            | 80.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-5750-KXX-4+SI**

**IE2** EFFICIENCY: **97.4%**

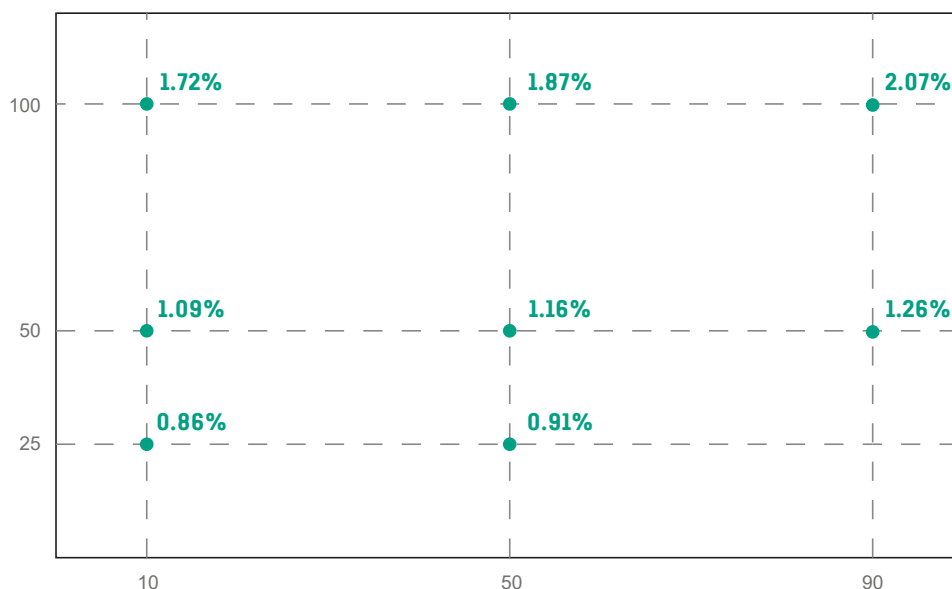
Code **S9HC60**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>75</b>   |
| Nominal current                 | (A)   | <b>150</b>  |
| Nominal apparent power          | (kVA) | <b>97.7</b> |
| Standby loss                    | (W)   | <b>184</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 2.07%         | 2,024.88          | 97.4%        |
| 90          | 50        | 1.26%         | 1,226.35          | 97.3%        |
| 50          | 100       | 1.87%         | 1,831.36          | 95.8%        |
| 50          | 50        | 1.16%         | 1,135.65          | 95.5%        |
| 50          | 25        | 0.91%         | 893.53            | 95.2%        |
| 10          | 100       | 1.72%         | 1,683.33          | 83.3%        |
| 10          | 50        | 1.09%         | 1,060.26          | 82.1%        |
| 10          | 25        | 0.86%         | 841.81            | 80.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-5900-KXX-4+SI**

**IE2** EFFICIENCY: **97.6%**

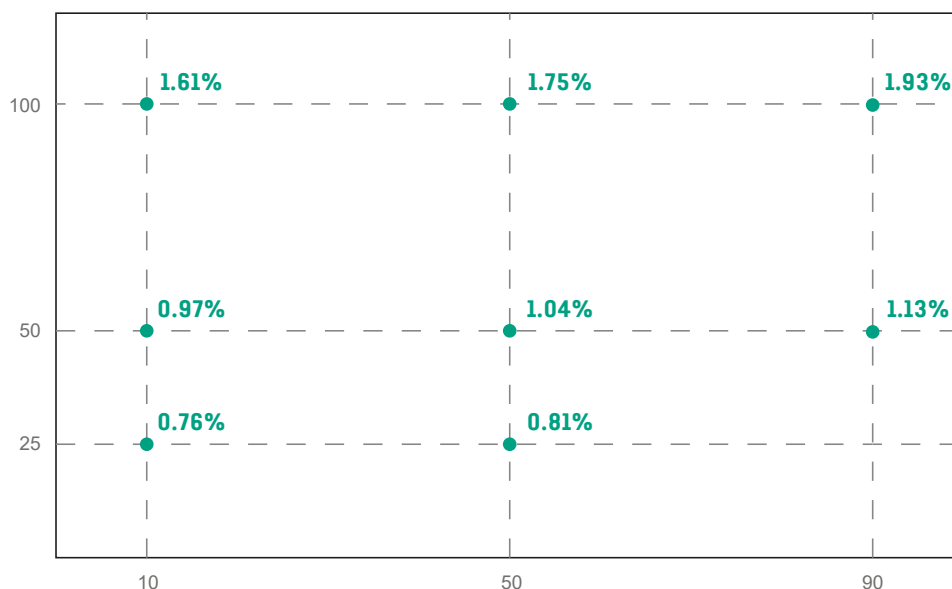
Code **S9HC61**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>90</b>    |
| Nominal current                 | (A)   | <b>180</b>   |
| Nominal apparent power          | (kVA) | <b>117.2</b> |
| Standby loss                    | (W)   | <b>205</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.93%         | 2,257.49          | 97.6%        |
| 90          | 50        | 1.13%         | 1,322.22          | 97.5%        |
| 50          | 100       | 1.75%         | 2,051.77          | 96.1%        |
| 50          | 50        | 1.04%         | 1,224.33          | 96.0%        |
| 50          | 25        | 0.81%         | 944.69            | 95.7%        |
| 10          | 100       | 1.61%         | 1,889.73          | 84.2%        |
| 10          | 50        | 0.97%         | 1,141.14          | 83.7%        |
| 10          | 25        | 0.76%         | 887.42            | 82.7%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-61100-KXX-4+SI**

**IE2** EFFICIENCY: **98.0%**

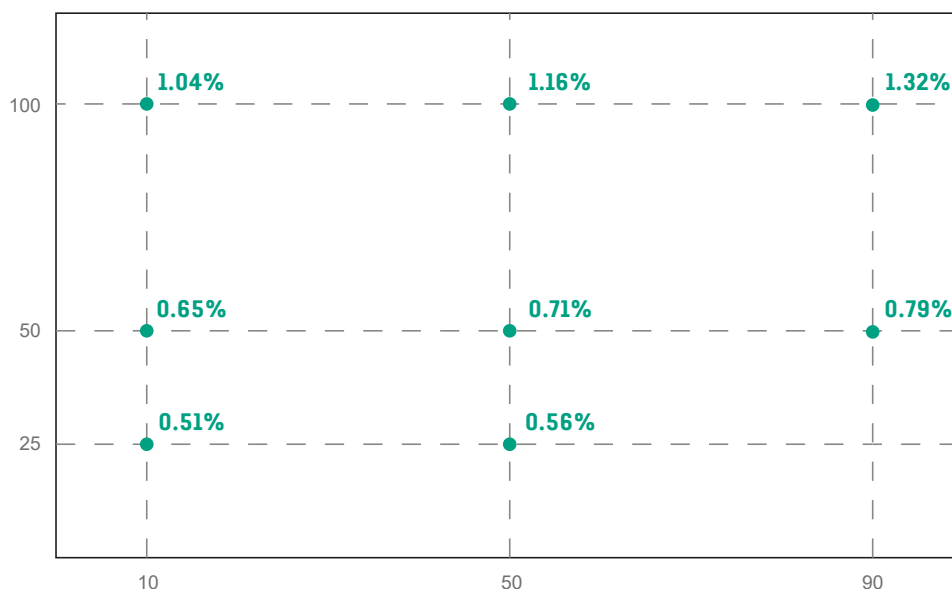
Code **S9HC62**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>110</b>   |
| Nominal current                 | (A)   | <b>210</b>   |
| Nominal apparent power          | (kVA) | <b>162.8</b> |
| Standby loss                    | (W)   | <b>195</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.32%         | 2,143.86          | 98.0%        |
| 90          | 50        | 0.79%         | 1,281.43          | 98.0%        |
| 50          | 100       | 1.16%         | 1,896.62          | 96.9%        |
| 50          | 50        | 0.71%         | 1,160.70          | 96.7%        |
| 50          | 25        | 0.56%         | 905.74            | 96.5%        |
| 10          | 100       | 1.04%         | 1,699.32          | 87.4%        |
| 10          | 50        | 0.65%         | 1,056.76          | 86.6%        |
| 10          | 25        | 0.51%         | 833.37            | 85.6%        |

RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-61320-KXX-4+SI**

**IE2** EFFICIENCY: **98.0%**

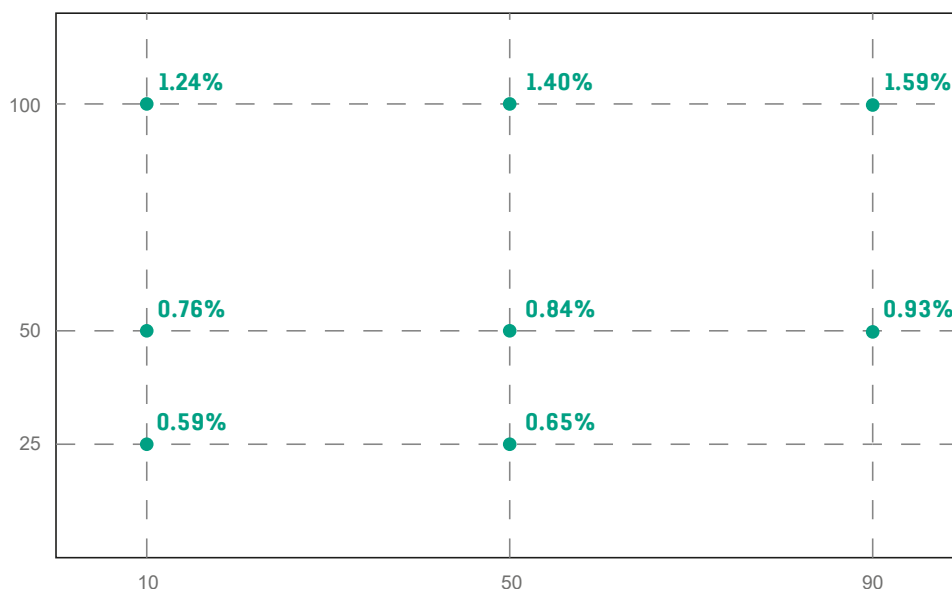
Code **S9HC63**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>132</b>   |
| Nominal current                 | (A)   | <b>250</b>   |
| Nominal apparent power          | (kVA) | <b>162.8</b> |
| Standby loss                    | (W)   | <b>236</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.59%         | 2,596.15          | 98.0%        |
| 90          | 50        | 0.93%         | 1,513.51          | 98.0%        |
| 50          | 100       | 1.40%         | 2,275.29          | 96.9%        |
| 50          | 50        | 0.84%         | 1,360.86          | 96.8%        |
| 50          | 25        | 0.65%         | 1,051.50          | 96.5%        |
| 10          | 100       | 1.24%         | 2,017.62          | 87.4%        |
| 10          | 50        | 0.76%         | 1,229.46          | 86.9%        |
| 10          | 25        | 0.59%         | 961.33            | 85.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-71600-KXX-4+SI**

**IE2** EFFICIENCY: **97.8%**

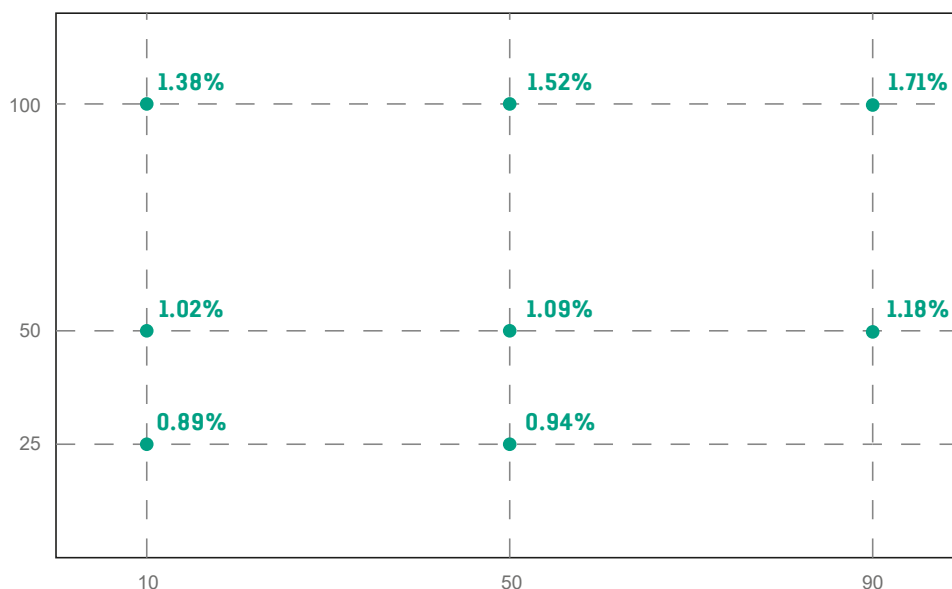
Code **S9HC64**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>160</b>   |
| Nominal current                 | (A)   | <b>300</b>   |
| Nominal apparent power          | (kVA) | <b>195.4</b> |
| Standby loss                    | (W)   | <b>304</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.71%         | 3,342.40          | 97.8%        |
| 90          | 50        | 1.18%         | 2,313.43          | 97.4%        |
| 50          | 100       | 1.52%         | 2,968.06          | 96.6%        |
| 50          | 50        | 1.09%         | 2,136.10          | 95.8%        |
| 50          | 25        | 0.94%         | 1,831.37          | 95.1%        |
| 10          | 100       | 1.38%         | 2,687.17          | 86.2%        |
| 10          | 50        | 1.02%         | 1,993.17          | 83.0%        |
| 10          | 25        | 0.89%         | 1,733.38          | 80.3%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-72000-KXX-4+SI**

**IE2** EFFICIENCY: **97.9%**

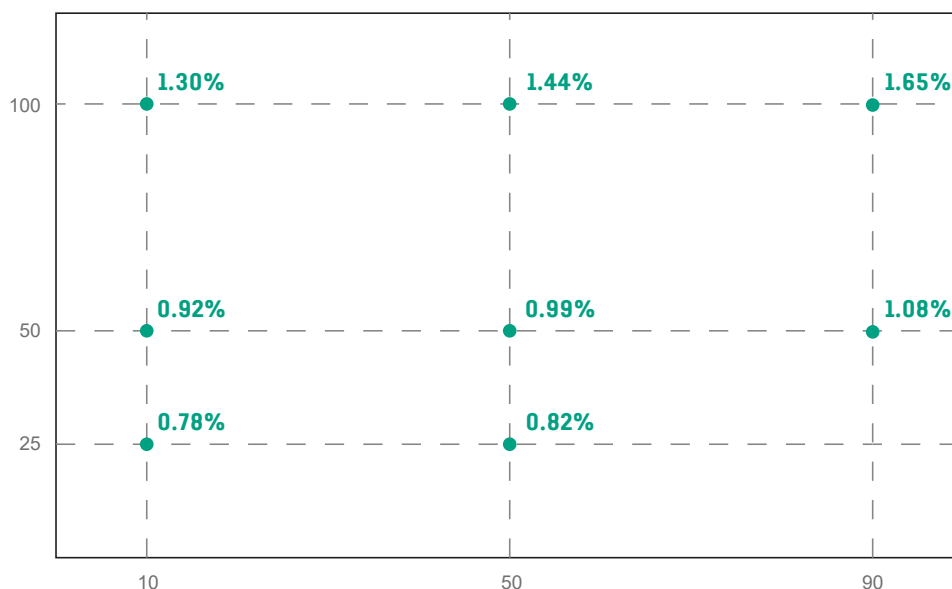
Code **S9HC65**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>200</b>   |
| Nominal current                 | (A)   | <b>385</b>   |
| Nominal apparent power          | (kVA) | <b>250.7</b> |
| Standby loss                    | (W)   | <b>377</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.65%         | 4,149.10          | 97.9%        |
| 90          | 50        | 1.08%         | 2,715.38          | 97.6%        |
| 50          | 100       | 1.44%         | 3,622.81          | 96.8%        |
| 50          | 50        | 0.99%         | 2,487.06          | 96.1%        |
| 50          | 25        | 0.82%         | 2,066.30          | 95.4%        |
| 10          | 100       | 1.30%         | 3,247.44          | 87.0%        |
| 10          | 50        | 0.92%         | 2,306.08          | 84.1%        |
| 10          | 25        | 0.78%         | 1,948.12          | 81.4%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-72500-KXX-4+SI**

**IE2** EFFICIENCY: **97.9%**

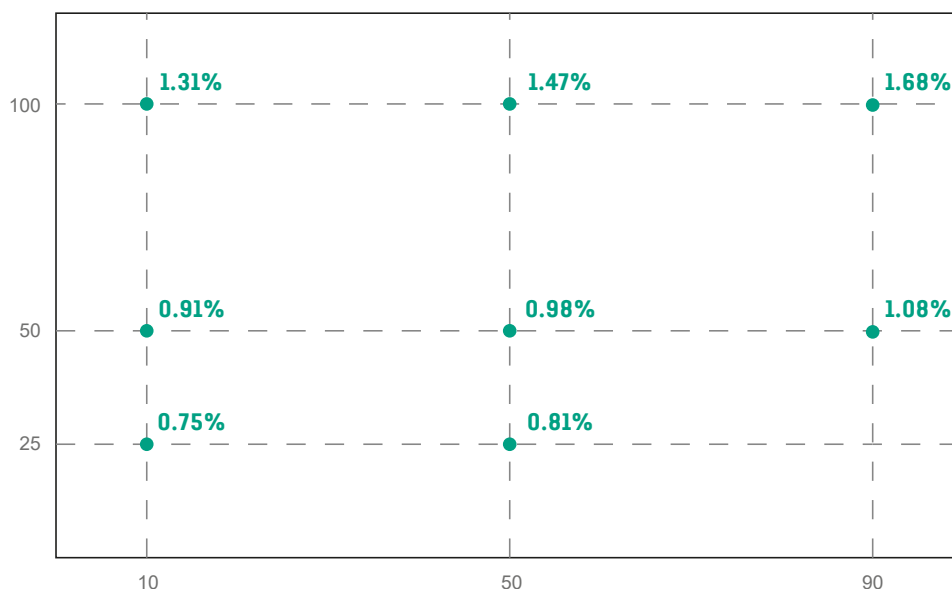
Code **S9HC66**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>250</b>   |
| Nominal current                 | (A)   | <b>460</b>   |
| Nominal apparent power          | (kVA) | <b>299.6</b> |
| Standby loss                    | (W)   | <b>458</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.68%         | 5,035.22          | 97.9%        |
| 90          | 50        | 1.08%         | 3,234.78          | 97.6%        |
| 50          | 100       | 1.47%         | 4,395.93          | 96.7%        |
| 50          | 50        | 0.98%         | 2,950.18          | 96.1%        |
| 50          | 25        | 0.81%         | 2,413.76          | 95.5%        |
| 10          | 100       | 1.31%         | 3,921.30          | 86.9%        |
| 10          | 50        | 0.91%         | 2,717.22          | 84.3%        |
| 10          | 25        | 0.75%         | 2,260.35          | 81.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-73150-KXX-4+SI**

**IE2** EFFICIENCY: **98.0%**

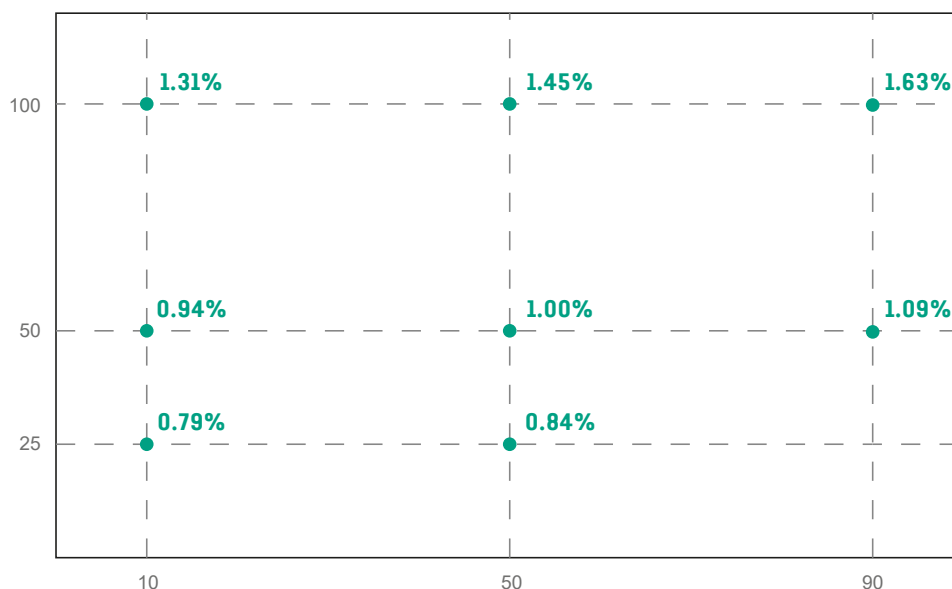
Code **S9HC67**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>315</b>   |
| Nominal current                 | (A)   | <b>590</b>   |
| Nominal apparent power          | (kVA) | <b>384.2</b> |
| Standby loss                    | (W)   | <b>572</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.63%         | 6,281.26          | 98.0%        |
| 90          | 50        | 1.09%         | 4,173.99          | 97.6%        |
| 50          | 100       | 1.45%         | 5,559.37          | 96.8%        |
| 50          | 50        | 1.00%         | 3,854.14          | 96.0%        |
| 50          | 25        | 0.84%         | 3,220.95          | 95.3%        |
| 10          | 100       | 1.31%         | 5,027.54          | 86.9%        |
| 10          | 50        | 0.94%         | 3,593.88          | 83.9%        |
| 10          | 25        | 0.79%         | 3,049.81          | 81.0%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-73551-KXX-4+SI**

**IE2** EFFICIENCY: **98.0%**

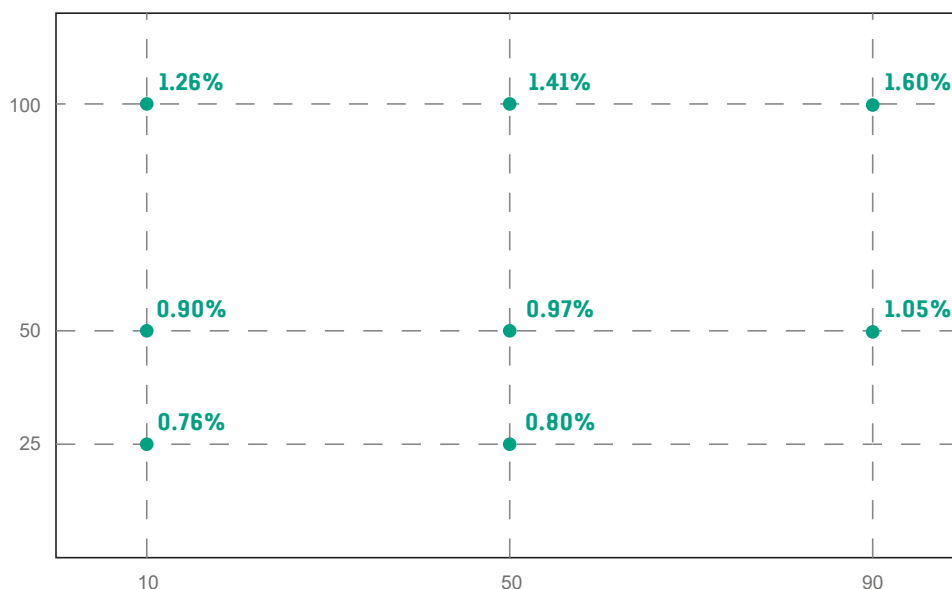
Code **S9HC68**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>355</b>   |
| Nominal current                 | (A)   | <b>650</b>   |
| Nominal apparent power          | (kVA) | <b>423.3</b> |
| Standby loss                    | (W)   | <b>617</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.60%         | 6,780.70          | 98.0%        |
| 90          | 50        | 1.05%         | 4,451.60          | 97.7%        |
| 50          | 100       | 1.41%         | 5,951.67          | 96.9%        |
| 50          | 50        | 0.97%         | 4,088.64          | 96.2%        |
| 50          | 25        | 0.80%         | 3,396.38          | 95.5%        |
| 10          | 100       | 1.26%         | 5,353.10          | 87.3%        |
| 10          | 50        | 0.90%         | 3,797.95          | 84.4%        |
| 10          | 25        | 0.76%         | 3,205.91          | 81.8%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-3185-KXX-4-DC**

**IE2** EFFICIENCY: **97.7%**

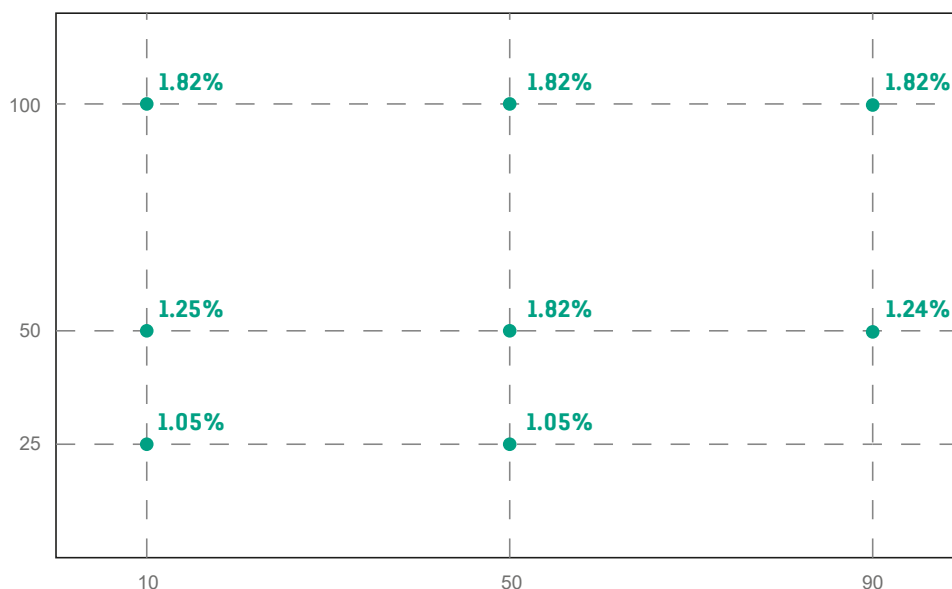
Code **S9HC101**

|                                 |       |              |
|---------------------------------|-------|--------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>   |
| Motor Power output              | (kW)  | <b>18.5</b>  |
| Nominal current                 | (A)   | <b>38</b>    |
| Nominal apparent power          | (kVA) | <b>24.75</b> |
| Standby loss                    | (W)   | <b>41.1</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>    |
| Maximum operating temperature * | (°C)  | <b>40</b>    |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.82%         | 450.74            | 97.7%        |
| 90          | 50        | 1.24%         | 307.70            | 97.4%        |
| 50          | 100       | 1.82%         | 450.07            | 95.9%        |
| 50          | 50        | 1.25%         | 308.26            | 95.3%        |
| 50          | 25        | 1.05%         | 258.79            | 94.8%        |
| 10          | 100       | 1.82%         | 449.40            | 82.4%        |
| 10          | 50        | 1.25%         | 308.82            | 80.3%        |
| 10          | 25        | 1.05%         | 259.48            | 78.5%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-3220-KXX-4-DC**

**IE2** EFFICIENCY: **97.5%**

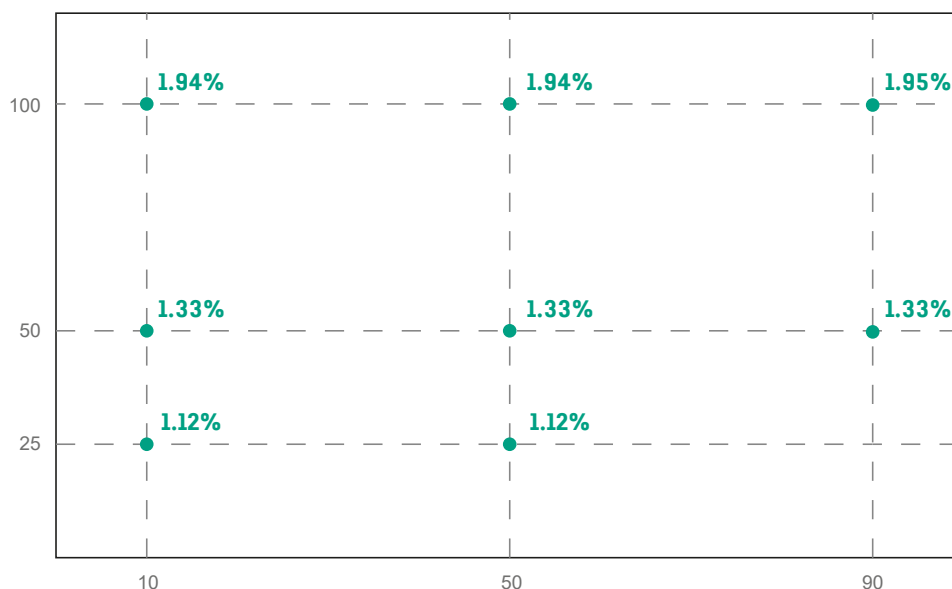
Code **S9HC102**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>22</b>  |
| Nominal current                 | (A)   | <b>46</b>  |
| Nominal apparent power          | (kVA) | <b>30</b>  |
| Standby loss                    | (W)   | <b>69</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.95%         | 583.20            | 97.5%        |
| 90          | 50        | 1.33%         | 398.39            | 97.2%        |
| 50          | 100       | 1.94%         | 582.39            | 95.6%        |
| 50          | 50        | 1.33%         | 399.07            | 95.0%        |
| 50          | 25        | 1.12%         | 334.25            | 94.5%        |
| 10          | 100       | 1.94%         | 581.58            | 81.4%        |
| 10          | 50        | 1.33%         | 399.75            | 79.3%        |
| 10          | 25        | 1.12%         | 335.08            | 77.4%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-3220-KXX-4-DC+SI**

**IE2** EFFICIENCY: **97.5%**

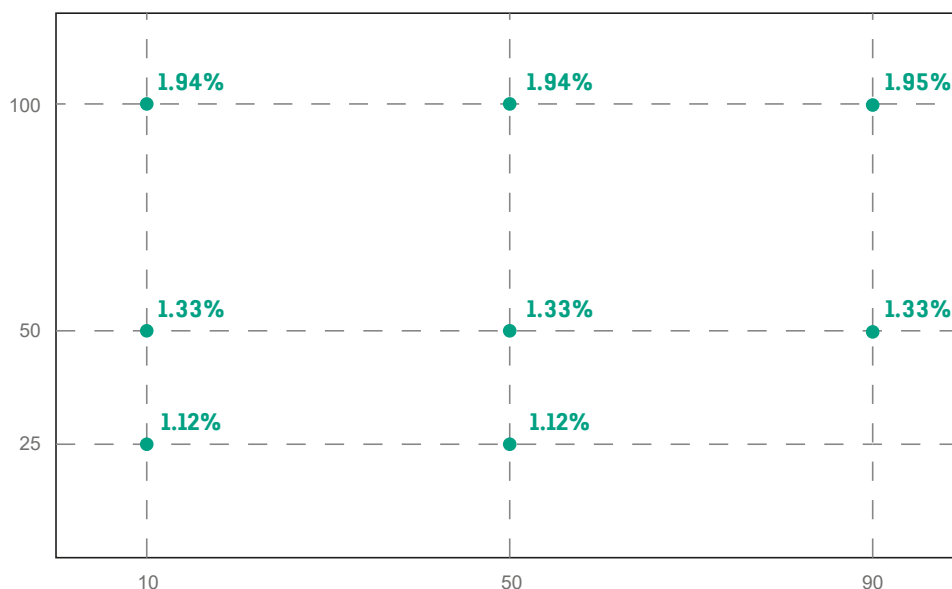
Code **S9HC122**

|                                 |       |            |
|---------------------------------|-------|------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b> |
| Motor Power output              | (kW)  | <b>22</b>  |
| Nominal current                 | (A)   | <b>46</b>  |
| Nominal apparent power          | (kVA) | <b>30</b>  |
| Standby loss                    | (W)   | <b>69</b>  |
| Nominal apparent frequency      | (Hz)  | <b>50</b>  |
| Maximum operating temperature * | (°C)  | <b>40</b>  |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.95%         | 583.20            | 97.5%        |
| 90          | 50        | 1.33%         | 398.39            | 97.2%        |
| 50          | 100       | 1.94%         | 582.39            | 95.6%        |
| 50          | 50        | 1.33%         | 399.07            | 95.0%        |
| 50          | 25        | 1.12%         | 334.25            | 94.5%        |
| 10          | 100       | 1.94%         | 581.58            | 81.4%        |
| 10          | 50        | 1.33%         | 399.75            | 79.3%        |
| 10          | 25        | 1.12%         | 335.08            | 77.4%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS



# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-4300-KXX-4-DC**

**IE2** EFFICIENCY: **97.9%**

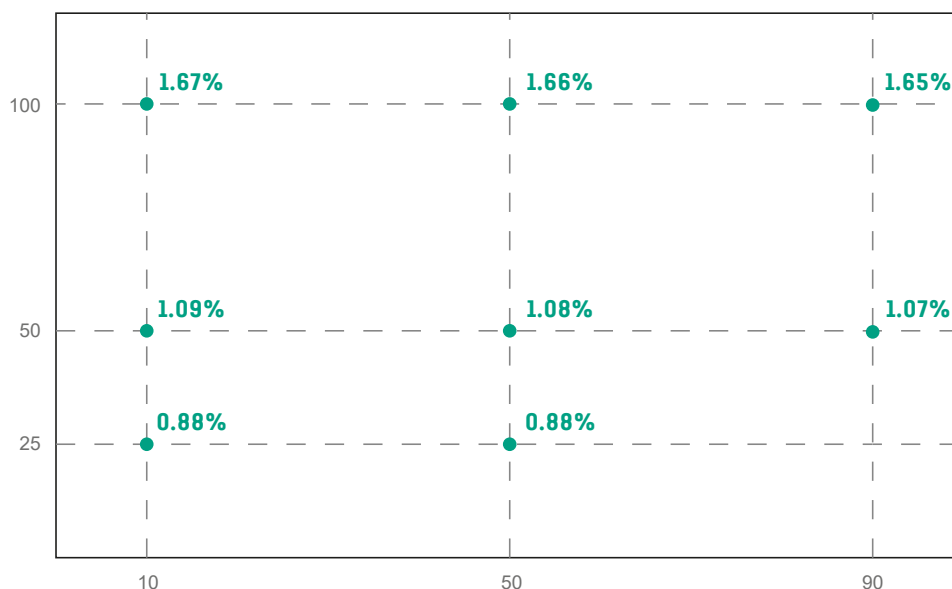
Code **S9HC103**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>30</b>   |
| Nominal current                 | (A)   | <b>62</b>   |
| Nominal apparent power          | (kVA) | <b>40.4</b> |
| Standby loss                    | (W)   | <b>61</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.65%         | 667.74            | 97.9%        |
| 90          | 50        | 1.07%         | 433.62            | 97.6%        |
| 50          | 100       | 1.66%         | 670.57            | 96.2%        |
| 50          | 50        | 1.08%         | 435.90            | 95.8%        |
| 50          | 25        | 0.88%         | 354.23            | 95.3%        |
| 10          | 100       | 1.67%         | 673.41            | 83.6%        |
| 10          | 50        | 1.09%         | 438.18            | 82.0%        |
| 10          | 25        | 0.88%         | 356.06            | 80.2%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





# ENERGY EFFICIENCY CERTIFICATE

Drive efficiency according to IEC 61800-9-2

Type **ADV200-HC-4370-KXX-4-DC**

**IE2** EFFICIENCY: **98.0%**

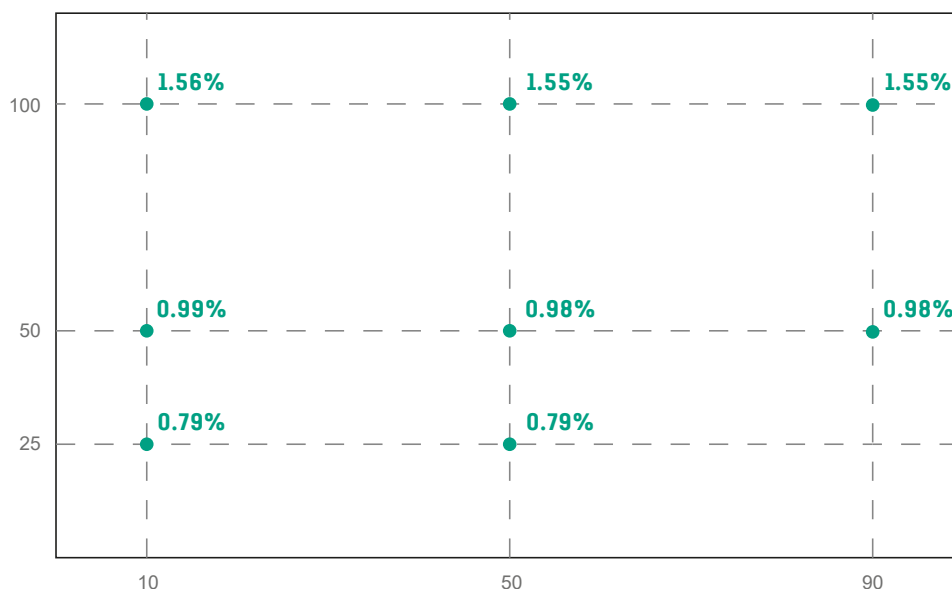
Code **S9HC104**

|                                 |       |             |
|---------------------------------|-------|-------------|
| Rated supply voltage(s)         | (VAC) | <b>400</b>  |
| Motor Power output              | (kW)  | <b>37</b>   |
| Nominal current                 | (A)   | <b>75</b>   |
| Nominal apparent power          | (kVA) | <b>48.8</b> |
| Standby loss                    | (W)   | <b>69</b>   |
| Nominal apparent frequency      | (Hz)  | <b>50</b>   |
| Maximum operating temperature * | (°C)  | <b>40</b>   |

\* without derating

| Frequency % | Current % | Relative loss | Absolute loss (W) | Efficiency % |
|-------------|-----------|---------------|-------------------|--------------|
| 90          | 100       | 1.55%         | 756.46            | 98.0%        |
| 90          | 50        | 0.98%         | 476.92            | 97.8%        |
| 50          | 100       | 1.55%         | 759.50            | 96.5%        |
| 50          | 50        | 0.98%         | 479.55            | 96.2%        |
| 50          | 25        | 0.79%         | 384.06            | 95.8%        |
| 10          | 100       | 1.56%         | 762.53            | 84.5%        |
| 10          | 50        | 0.99%         | 482.17            | 83.3%        |
| 10          | 25        | 0.79%         | 386.21            | 81.9%        |

## RELATIVE LOSSES AT THE PREDEFINED OPERATING POINTS





**Energy Efficiency Certificate**

Series: ADV200-4  
Date: 15-12-2022  
Code: 1S9ENEF01

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