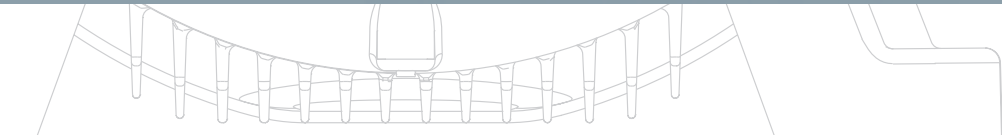
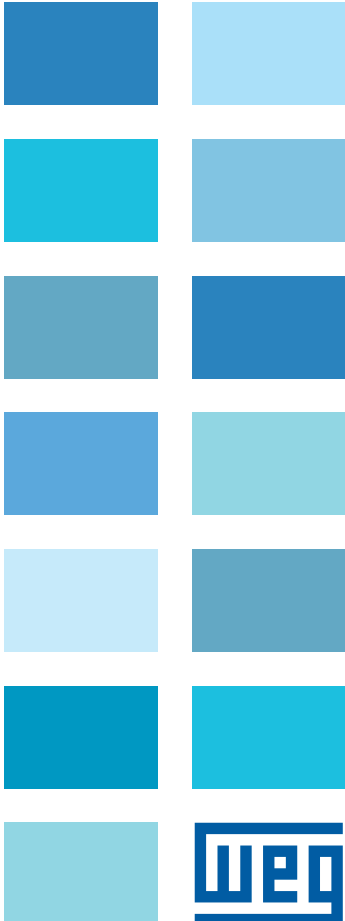
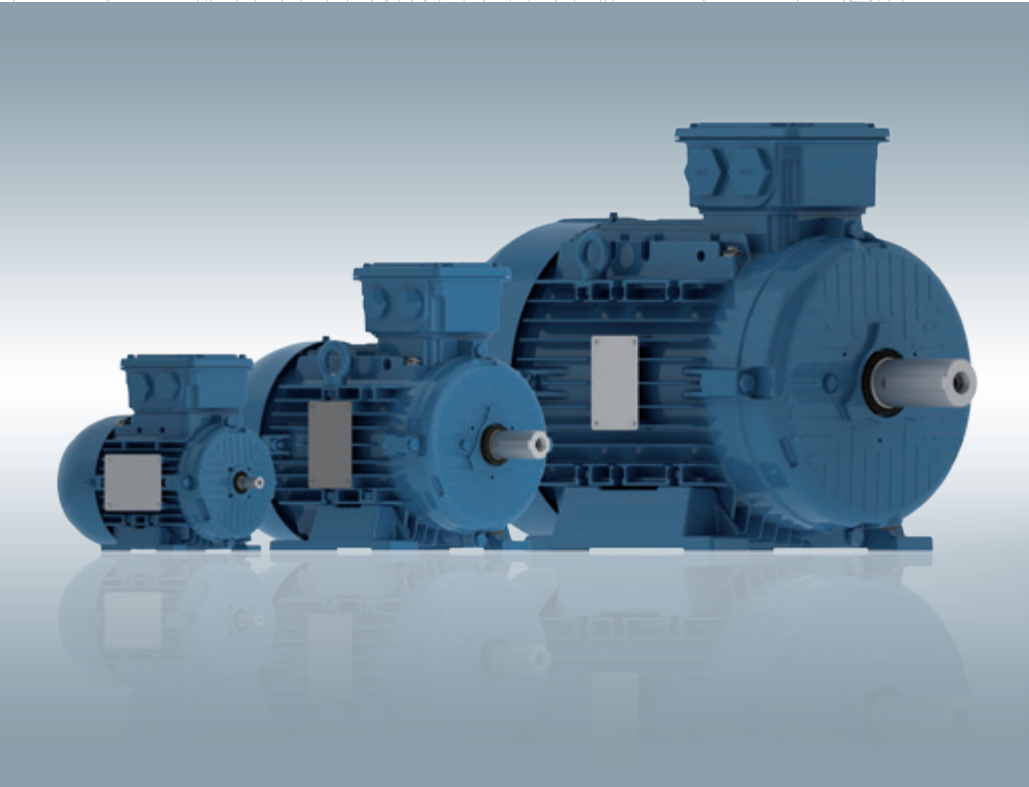
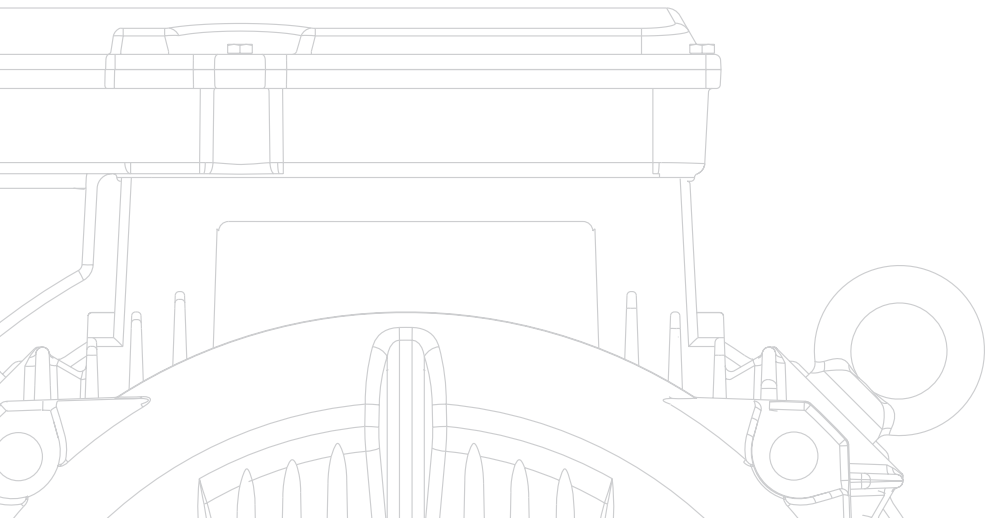


# W11

## Aluminium Multimounting Three-phase Electric Motors

Technical Catalogue  
African Market





# W11

Recognised for their high quality and reliability, the W11 Aluminium Multimounting Three-phase Electric Motors range from WEG is suitable for use in a variety of industrial applications around the world.

Particularly suited to the OEM and Re-sale (Distribution) markets, the W11 line provides an optimal balance between standard product features, reduced weight, rapid availability and competitive pricing.

## Standard Features

- Rated output: 0,12 to 11 kW
- Number of poles: 2, 4, 6 and 8
- Frame sizes IEC 63 to 132
- Efficiency level IE1
- Frequency: 50 Hz
- Voltage: 220-240/380-415 V (up to 100L)  
380-415/660-690 V (from 112M and above)
- Insulation class F (DT 80 K)
- Design N
- Degree of protection: IP55
- Cooling method: IC411
- Mounting: B3T
- Frame, endshields and terminal box material:  
Die cast aluminium
- Terminal block for motor connection
- Grounding: Single grounding  
(Inside the terminal box)
- Fan material: Polypropylene
- Fan cover Material: Steel
- Drain hole: Rubber drain plug
- V'ring seal on both endshields
- Shaft material: AISI 1040/45
- 'ZZ' ball bearings
- Eyebolts for frames 112 and 132
- Nameplate: Stainless steel
- Painting: WEG internal painting plan 207A (semi-matt)  
meeting the "C2" performance criteria defined in the  
DIN EN ISO 12944-2

## Optional Features

- Multispeed motors
- Thermal protection: Thermistors (PTC) or bimetallic  
thermal protector (thermostat) in windings
- Anti-condensation heaters
- Canopy for vertical shaft down applications
- Fan material: Conductive plastic or aluminium
- Shaft material: Stainless steel
- Efficiency level IE2
- Pad mount option

*\*For further information regarding frequency  
inverter operation, please contact WEG.*

## Motor Spare Parts

The innovative design of the W11 Aluminium Multimounting line offers the additional advantage on standardisation and stock flexibility, considering that a single motor may be utilised for all mounting possibilities whilst also offering full interchangeability with existing cast iron frame motors.

### Cooling System

The fan design for the W11 ensures high efficiency cooling and low noise level.

### Frame

Made of high quality die cast aluminium, providing a lightweight and robust enclosure.

Fan cover

Cooling fan

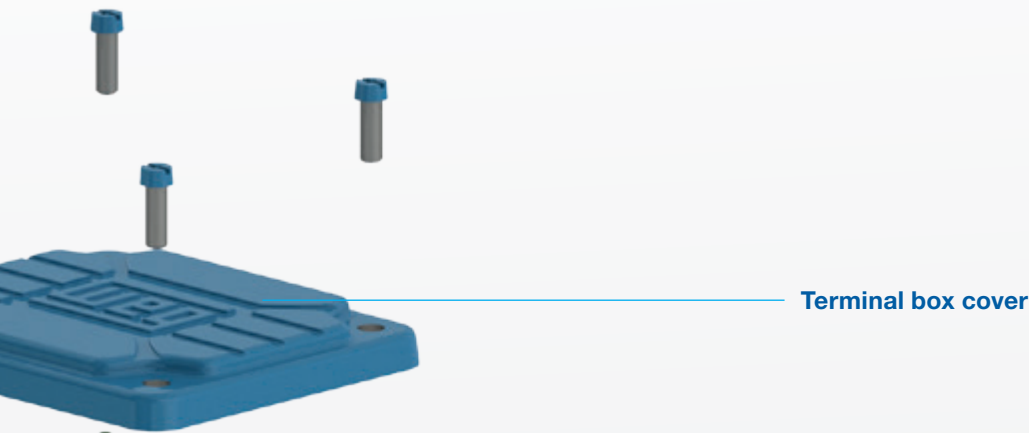
Bearing seal ('V' Ring)

Non-drive endshield

NDE Bearing

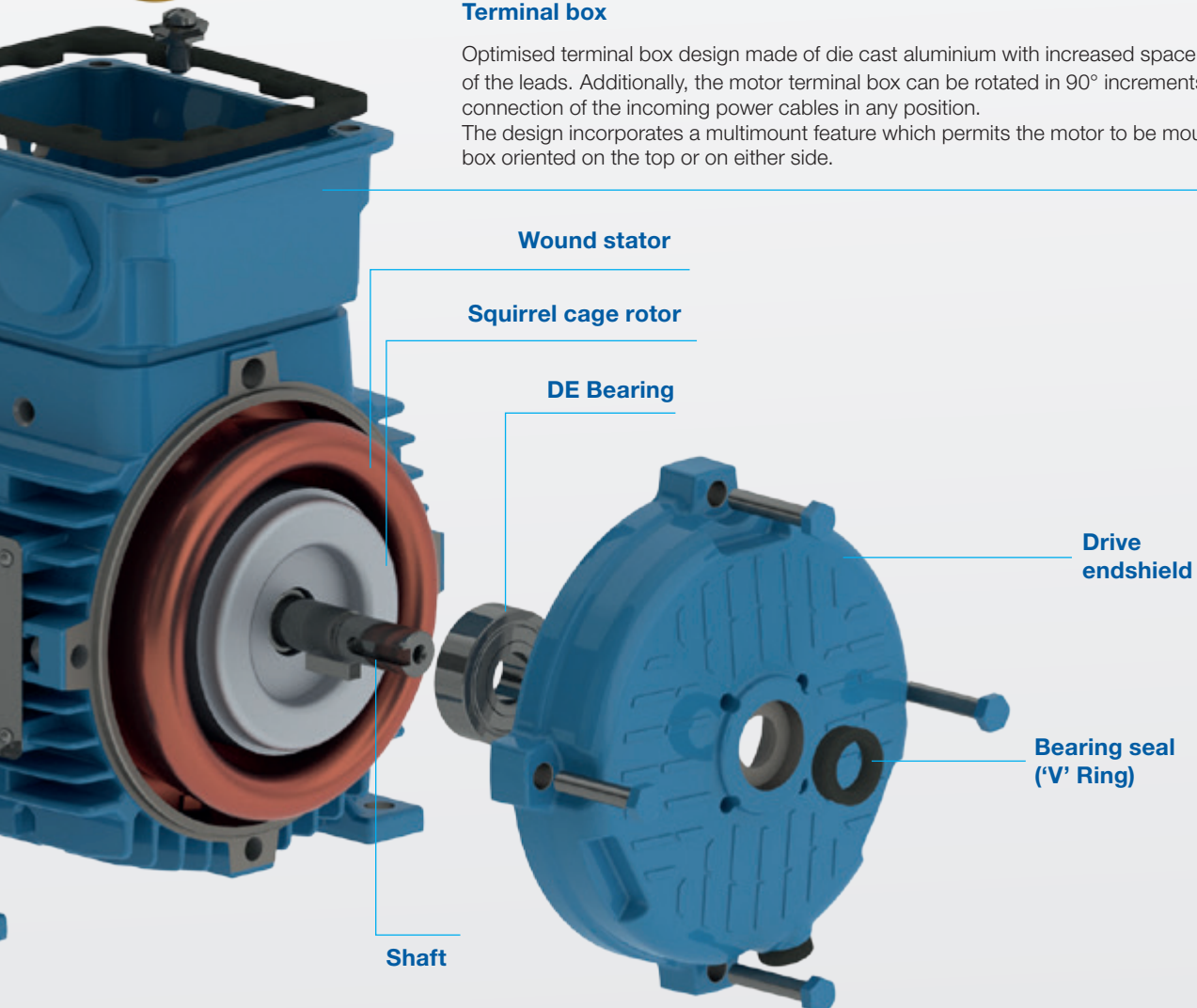
### Removable feet

This unique system enables the mounting configuration to be easily changed with no machining or modification to the motor feet required.



### Terminal box

Optimised terminal box design made of die cast aluminium with increased space for easier connection of the leads. Additionally, the motor terminal box can be rotated in 90° increments, permitting connection of the incoming power cables in any position. The design incorporates a multimount feature which permits the motor to be mounted with the terminal box oriented on the top or on either side.



# IE1 Standard Efficiency<sup>1)</sup>

| Output          |      | Frame | Full load torque (Nm) | Locked rotor current I <sub>L</sub> /I <sub>n</sub> | Locked rotor torque T <sub>L</sub> /T <sub>n</sub> | Breakdown torque T <sub>b</sub> /T <sub>n</sub> | Inertia J (kgm <sup>2</sup> ) | Allowable locked rotor time (s) |                | Weight (kg) | Sound dB (A) | 400 V        |      |      |                                      |      |      |      |       |  |
|-----------------|------|-------|-----------------------|---|--|---|-------------------------------|---------------------------------|----------------|-------------|--------------|--------------|------|------|--------------------------------------|------|------|------|-------|--|
|                 |      |       |                       |   |  |   |                               | Rated speed (rpm)               | % of full load |             |              |              |      |      | Full load current I <sub>n</sub> (A) |      |      |      |       |  |
|                 |      |       |                       |   |  |   |                               |                                 | Efficiency     |             |              | Power factor |      |      |                                      |      |      |      |       |  |
| kW              | HP   |       |                       |   |  |   |                               | Hot                             | Cold           |             |              | 50           | 75   | 100  | 50                                   | 75   | 100  |      |       |  |
| II pole - 50 Hz |      |       |                       |   |  |   |                               |                                 |                |             |              |              |      |      |                                      |      |      |      |       |  |
| 0,12            | 0,16 | 63    | 0,420                 | 3,8   | 2,3  | 2,3   | 0,0001                        | 27                              | 59             | 3,1         | 52,0         | 2720         | 45,5 | 53,5 | 56,0                                 | 0,55 | 0,68 | 0,80 | 0,387 |  |
| 0,18            | 0,25 | 63    | 0,620                 | 5,0   | 2,4  | 2,4   | 0,0001                        | 10                              | 22             | 3,6         | 52,0         | 2790         | 52,0 | 57,0 | 59,0                                 | 0,54 | 0,67 | 0,77 | 0,572 |  |
| 0,25            | 0,33 | 63    | 0,880                 | 4,3   | 2,5  | 2,3   | 0,0002                        | 25                              | 55             | 4,0         | 52,0         | 2720         | 52,0 | 57,0 | 60,0                                 | 0,50 | 0,65 | 0,76 | 0,791 |  |
| 0,37            | 0,5  | 71    | 1,26                  | 4,3   | 2,3  | 2,3   | 0,0003                        | 23                              | 51             | 4,6         | 56,0         | 2800         | 61,2 | 66,0 | 67,6                                 | 0,60 | 0,75 | 0,85 | 0,929 |  |
| 0,55            | 0,75 | 71    | 1,89                  | 5,0   | 2,5  | 2,5   | 0,0003                        | 10                              | 22             | 5,6         | 56,0         | 2780         | 64,0 | 70,0 | 70,0                                 | 0,56 | 0,71 | 0,82 | 1,38  |  |
| 0,75            | 1    | 80    | 2,55                  | 5,0   | 2,4  | 2,4   | 0,0006                        | 9                               | 20             | 8,4         | 59,0         | 2805         | 66,0 | 72,0 | 72,5                                 | 0,50 | 0,65 | 0,76 | 1,96  |  |
| 1,1             | 1,5  | 80    | 3,79                  | 6,0   | 2,6  | 2,6   | 0,0008                        | 7                               | 15             | 10,0        | 59,0         | 2770         | 73,0 | 75,0 | 75,5                                 | 0,60 | 0,75 | 0,83 | 2,53  |  |
| 1,5             | 2    | 90S/L | 5,05                  | 6,3   | 2,7  | 2,6   | 0,0017                        | 7                               | 15             | 13,7        | 64,0         | 2840         | 75,0 | 78,0 | 78,0                                 | 0,63 | 0,76 | 0,83 | 3,34  |  |
| 2,2             | 3    | 90S/L | 7,48                  | 6,8   | 2,8  | 2,9   | 0,0022                        | 9                               | 20             | 15,4        | 64,0         | 2810         | 77,0 | 78,0 | 80,0                                 | 0,63 | 0,77 | 0,85 | 4,58  |  |
| 3               | 4    | 100L  | 10,0                  | 6,8   | 2,0  | 2,8   | 0,0052                        | 9                               | 20             | 21,6        | 67,0         | 2870         | 80,0 | 81,0 | 82,0                                 | 0,69 | 0,81 | 0,87 | 6,07  |  |
| 4               | 5,5  | 112M  | 13,3                  | 6,8   | 2,4  | 3,0   | 0,0073                        | 9                               | 20             | 27,0        | 64,0         | 2875         | 81,0 | 83,0 | 83,1                                 | 0,71 | 0,82 | 0,87 | 7,81  |  |
| 5,5             | 7,5  | 132S  | 18,1                  | 6,5   | 2,1  | 2,7   | 0,0159                        | 11                              | 24             | 36,4        | 68,0         | 2910         | 82,5 | 84,5 | 84,7                                 | 0,71 | 0,81 | 0,87 | 10,5  |  |
| 7,5             | 10   | 132S  | 24,7                  | 6,4   | 2,3  | 2,6   | 0,0187                        | 7                               | 15             | 47,4        | 68,0         | 2900         | 85,0 | 86,5 | 86,5                                 | 0,72 | 0,82 | 0,87 | 14,2  |  |
| 9,2             | 12,5 | 132M  | 30,2                  | 6,8   | 2,1  | 2,6   | 0,0243                        | 8                               | 18             | 52,4        | 68,0         | 2910         | 86,0 | 87,0 | 87,0                                 | 0,70 | 0,81 | 0,86 | 17,7  |  |
| 11              | 15   | 132M  | 36,0                  | 8,0   | 2,7  | 3,2   | 0,0280                        | 8                               | 18             | 68,4        | 68,0         | 2920         | 87,0 | 88,0 | 88,0                                 | 0,71 | 0,81 | 0,86 | 20,6  |  |
| IV pole - 50 Hz |      |       |                       |   |  |   |                               |                                 |                |             |              |              |      |      |                                      |      |      |      |       |  |
| 0,12            | 0,16 | 63    | 0,830                 | 3,5   | 2,0  | 2,2   | 0,0003                        | 30                              | 66             | 3,3         | 44,0         | 1375         | 45,0 | 54,0 | 57,0                                 | 0,49 | 0,61 | 0,72 | 0,422 |  |
| 0,18            | 0,25 | 63    | 1,26                  | 3,5   | 2,0  | 2,2   | 0,0004                        | 23                              | 51             | 5,9         | 44,0         | 1370         | 46,0 | 54,0 | 58,0                                 | 0,49 | 0,63 | 0,74 | 0,605 |  |
| 0,25            | 0,33 | 71    | 1,74                  | 3,7   | 1,8  | 1,9   | 0,0004                        | 28                              | 62             | 4,7         | 43,0         | 1370         | 53,0 | 58,0 | 61,5                                 | 0,50 | 0,62 | 0,71 | 0,826 |  |
| 0,37            | 0,5  | 71    | 2,68                  | 3,7   | 2,0  | 2,0   | 0,0006                        | 17                              | 37             | 6,0         | 43,0         | 1320         | 58,0 | 62,0 | 66,0                                 | 0,50 | 0,63 | 0,76 | 1,06  |  |
| 0,55            | 0,75 | 80    | 3,71                  | 5,4   | 2,0  | 2,8   | 0,0019                        | 8                               | 18             | 8,4         | 44,0         | 1415         | 63,0 | 68,0 | 70,0                                 | 0,57 | 0,70 | 0,80 | 1,42  |  |
| 0,75            | 1    | 80    | 5,08                  | 5,0   | 2,1  | 2,2   | 0,0023                        | 14                              | 31             | 9,4         | 44,0         | 1410         | 63,5 | 71,0 | 72,1                                 | 0,55 | 0,70 | 0,81 | 1,85  |  |
| 1,1             | 1,5  | 90S/L | 7,51                  | 5,6   | 2,3  | 2,4   | 0,0039                        | 8                               | 18             | 13,2        | 49,0         | 1400         | 70,0 | 75,0 | 75,5                                 | 0,55 | 0,69 | 0,79 | 2,66  |  |
| 1,5             | 2    | 90S/L | 9,95                  | 5,5   | 2,0  | 2,4   | 0,0048                        | 8                               | 18             | 15,6        | 49,0         | 1440         | 74,0 | 77,0 | 77,2                                 | 0,58 | 0,73 | 0,82 | 3,42  |  |
| 2,2             | 3    | 100L  | 14,9                  | 5,6   | 2,4  | 2,6   | 0,0065                        | 9                               | 20             | 21,0        | 53,0         | 1410         | 79,0 | 80,0 | 80,0                                 | 0,60 | 0,73 | 0,81 | 4,90  |  |
| 3               | 4    | 100L  | 20,2                  | 6,0   | 2,8  | 3,0   | 0,0084                        | 8                               | 18             | 28,0        | 53,0         | 1420         | 79,0 | 80,0 | 81,5                                 | 0,57 | 0,72 | 0,81 | 6,56  |  |
| 4               | 5,5  | 112M  | 26,5                  | 7,0   | 2,1  | 2,5   | 0,0147                        | 7                               | 15             | 29,0        | 56,0         | 1440         | 82,0 | 83,1 | 83,1                                 | 0,62 | 0,75 | 0,82 | 8,33  |  |
| 5,5             | 7,5  | 132S  | 36,2                  | 6,5   | 2,1  | 2,5   | 0,0349                        | 6                               | 13             | 41,4        | 60,0         | 1450         | 83,5 | 84,5 | 85,0                                 | 0,63 | 0,77 | 0,84 | 11,1  |  |
| 7,5             | 10   | 132M  | 49,3                  | 6,7   | 1,9  | 2,8   | 0,0465                        | 8                               | 18             | 59,0        | 60,0         | 1455         | 84,0 | 85,5 | 86,0                                 | 0,63 | 0,77 | 0,84 | 14,8  |  |
| 9,2             | 12,5 | 132M  | 60,4                  | 7,5   | 2,2  | 2,8   | 0,0582                        | 6                               | 13             | 64,4        | 60,0         | 1455         | 85,5 | 86,5 | 87,0                                 | 0,64 | 0,78 | 0,85 | 18,0  |  |

1) Efficiency values are given according to IEC 60034-2-1. They are calculated according to indirect method, with stray load losses determined by measurement.

| Output          |      | 380 V             |                |      |      |              |      |      |                          | 415 V             |                |      |      |              |      |      |                          | 525 V             |                |      |      |              |      |      |                          |
|-----------------|------|-------------------|----------------|------|------|--------------|------|------|--------------------------|-------------------|----------------|------|------|--------------|------|------|--------------------------|-------------------|----------------|------|------|--------------|------|------|--------------------------|
|                 |      | Rated speed (rpm) | % of full load |      |      |              |      |      | Full load current In (A) | Rated speed (rpm) | % of full load |      |      |              |      |      | Full load current In (A) | Rated speed (rpm) | % of full load |      |      |              |      |      | Full load current In (A) |
|                 |      |                   | Efficiency     |      |      | Power factor |      |      |                          |                   | Efficiency     |      |      | Power factor |      |      |                          |                   | Efficiency     |      |      | Power factor |      |      |                          |
|                 |      |                   | 50             | 75   | 100  | 50           | 75   | 100  |                          |                   | 50             | 75   | 100  | 50           | 75   | 100  |                          |                   | 50             | 75   | 100  | 50           | 75   | 100  |                          |
| kW              | HP   | II pole - 50 Hz   |                |      |      |              |      |      |                          |                   |                |      |      |              |      |      |                          |                   |                |      |      |              |      |      |                          |
| 0,12            | 0,16 | 2690              | 48,0           | 55,0 | 58,8 | 0,59         | 0,74 | 0,84 | 0,369                    | 2735              | 43,0           | 51,0 | 53,5 | 0,52         | 0,64 | 0,75 | 0,416                    | 2720              | 45,5           | 53,5 | 56,0 | 0,55         | 0,68 | 0,80 | 0,295                    |
| 0,18            | 0,25 | 2760              | 54,0           | 58,0 | 59,5 | 0,59         | 0,73 | 0,82 | 0,561                    | 2810              | 49,2           | 55,0 | 58,0 | 0,51         | 0,62 | 0,73 | 0,591                    | 2790              | 52,0           | 57,0 | 59,0 | 0,54         | 0,67 | 0,77 | 0,436                    |
| 0,25            | 0,33 | 2685              | 54,0           | 59,0 | 60,0 | 0,56         | 0,71 | 0,81 | 0,782                    | 2740              | 50,0           | 55,5 | 59,9 | 0,47         | 0,60 | 0,72 | 0,806                    | 2720              | 52,0           | 57,0 | 60,0 | 0,50         | 0,65 | 0,76 | 0,603                    |
| 0,37            | 0,5  | 2770              | 62,8           | 66,5 | 67,0 | 0,66         | 0,81 | 0,89 | 0,943                    | 2820              | 60,0           | 65,5 | 67,0 | 0,55         | 0,70 | 0,81 | 0,948                    | 2800              | 61,2           | 66,0 | 67,6 | 0,60         | 0,75 | 0,85 | 0,708                    |
| 0,55            | 0,75 | 2735              | 64,9           | 70,0 | 69,0 | 0,61         | 0,76 | 0,85 | 1,42                     | 2800              | 61,6           | 69,0 | 70,1 | 0,52         | 0,66 | 0,79 | 1,38                     | 2780              | 64,0           | 70,0 | 70,0 | 0,56         | 0,71 | 0,82 | 1,05                     |
| 0,75            | 1    | 2775              | 69,0           | 73,0 | 72,5 | 0,56         | 0,71 | 0,80 | 1,96                     | 2825              | 63,0           | 70,5 | 72,5 | 0,46         | 0,60 | 0,72 | 2,00                     | 2805              | 66,0           | 72,0 | 72,5 | 0,50         | 0,65 | 0,76 | 1,49                     |
| 1,1             | 1,5  | 2745              | 74,0           | 75,0 | 75,5 | 0,68         | 0,81 | 0,87 | 2,54                     | 2790              | 71,0           | 74,5 | 75,5 | 0,54         | 0,70 | 0,80 | 2,53                     | 2770              | 73,0           | 75,0 | 75,5 | 0,60         | 0,75 | 0,83 | 1,93                     |
| 1,5             | 2    | 2820              | 76,0           | 78,0 | 78,0 | 0,70         | 0,81 | 0,87 | 3,36                     | 2855              | 74,0           | 78,0 | 78,0 | 0,57         | 0,71 | 0,80 | 3,34                     | 2840              | 75,0           | 78,0 | 78,0 | 0,63         | 0,76 | 0,83 | 2,54                     |
| 2,2             | 3    | 2790              | 77,0           | 78,0 | 80,0 | 0,70         | 0,82 | 0,88 | 4,70                     | 2820              | 77,0           | 78,0 | 80,0 | 0,57         | 0,72 | 0,82 | 4,58                     | 2810              | 77,0           | 78,0 | 80,0 | 0,69         | 0,77 | 0,85 | 3,49                     |
| 3               | 4    | 2855              | 80,0           | 81,0 | 81,5 | 0,75         | 0,85 | 0,89 | 6,28                     | 2880              | 80,0           | 81,0 | 82,0 | 0,64         | 0,77 | 0,84 | 6,06                     | 2870              | 80,0           | 81,0 | 82,0 | 0,69         | 0,81 | 0,87 | 4,62                     |
| 4               | 5,5  | 2860              | 82,0           | 83,0 | 83,1 | 0,77         | 0,86 | 0,89 | 8,08                     | 2885              | 80,0           | 82,5 | 83,1 | 0,66         | 0,78 | 0,85 | 7,72                     | 2875              | 81,0           | 83,0 | 83,1 | 0,71         | 0,82 | 0,87 | 5,95                     |
| 5,5             | 7,5  | 2895              | 82,5           | 84,5 | 84,7 | 0,77         | 0,85 | 0,89 | 10,9                     | 2915              | 81,5           | 84,0 | 84,7 | 0,66         | 0,78 | 0,84 | 10,5                     | 2910              | 82,5           | 84,5 | 84,7 | 0,71         | 0,81 | 0,87 | 8,00                     |
| 7,5             | 10   | 2890              | 85,0           | 86,0 | 86,0 | 0,78         | 0,86 | 0,89 | 14,7                     | 2910              | 84,0           | 86,5 | 86,5 | 0,66         | 0,78 | 0,84 | 14,2                     | 2900              | 85,0           | 86,5 | 86,5 | 0,72         | 0,82 | 0,87 | 10,8                     |
| 9,2             | 12,5 | 2900              | 86,0           | 87,0 | 87,0 | 0,76         | 0,85 | 0,89 | 18,1                     | 2915              | 85,0           | 87,0 | 87,0 | 0,63         | 0,76 | 0,83 | 17,7                     | 2910              | 86,0           | 87,0 | 87,0 | 0,70         | 0,81 | 0,86 | 13,5                     |
| 11              | 15   | 2910              | 87,0           | 88,0 | 88,0 | 0,76         | 0,84 | 0,88 | 21,3                     | 2930              | 86,5           | 88,0 | 88,0 | 0,66         | 0,77 | 0,83 | 20,6                     | 2920              | 87,0           | 88,0 | 88,0 | 0,71         | 0,81 | 0,86 | 15,7                     |
| II pole - 50 Hz |      |                   |                |      |      |              |      |      |                          |                   |                |      |      |              |      |      |                          |                   |                |      |      |              |      |      |                          |
| 0,12            | 0,16 | 1360              | 47,0           | 55,0 | 57,0 | 0,53         | 0,65 | 0,76 | 0,421                    | 1385              | 42,0           | 51,0 | 55,0 | 0,45         | 0,57 | 0,67 | 0,453                    | 1375              | 45,0           | 54,0 | 57,0 | 0,49         | 0,61 | 0,72 | 0,322                    |
| 0,18            | 0,25 | 1350              | 46,0           | 54,0 | 58,0 | 0,54         | 0,67 | 0,79 | 0,597                    | 1385              | 43,0           | 52,0 | 56,0 | 0,45         | 0,57 | 0,68 | 0,658                    | 1370              | 46,0           | 54,0 | 58,0 | 0,49         | 0,63 | 0,74 | 0,461                    |
| 0,25            | 0,33 | 1340              | 57,3           | 58,9 | 61,5 | 0,55         | 0,68 | 0,75 | 0,823                    | 1385              | 48,9           | 58,5 | 61,5 | 0,47         | 0,58 | 0,68 | 0,832                    | 1370              | 53,0           | 58,0 | 61,5 | 0,50         | 0,62 | 0,71 | 0,629                    |
| 0,37            | 0,5  | 1300              | 58,0           | 62,0 | 66,0 | 0,52         | 0,67 | 0,78 | 1,09                     | 1340              | 54,3           | 59,8 | 66,0 | 0,44         | 0,55 | 0,68 | 1,15                     | 1320              | 58,0           | 62,0 | 66,0 | 0,50         | 0,63 | 0,76 | 0,808                    |
| 0,55            | 0,75 | 1400              | 68,0           | 70,0 | 70,0 | 0,61         | 0,75 | 0,83 | 1,44                     | 1420              | 61,0           | 67,4 | 70,0 | 0,53         | 0,66 | 0,75 | 1,46                     | 1415              | 63,0           | 68,0 | 70,0 | 0,57         | 0,70 | 0,80 | 1,08                     |
| 0,75            | 1    | 1395              | 64,0           | 71,0 | 72,1 | 0,61         | 0,75 | 0,84 | 1,88                     | 1420              | 60,0           | 67,0 | 72,1 | 0,50         | 0,64 | 0,76 | 1,90                     | 1410              | 63,5           | 71,0 | 72,1 | 0,55         | 0,70 | 0,81 | 1,41                     |
| 1,1             | 1,5  | 1385              | 72,0           | 75,0 | 75,5 | 0,62         | 0,75 | 0,83 | 2,67                     | 1405              | 67,0           | 75,0 | 77,0 | 0,49         | 0,64 | 0,75 | 2,65                     | 1400              | 70,0           | 75,0 | 75,5 | 0,55         | 0,69 | 0,79 | 2,03                     |
| 1,5             | 2    | 1430              | 76,0           | 77,5 | 77,2 | 0,65         | 0,78 | 0,86 | 3,43                     | 1440              | 72,0           | 76,5 | 77,2 | 0,52         | 0,67 | 0,77 | 3,51                     | 1440              | 74,0           | 77,0 | 77,2 | 0,58         | 0,73 | 0,82 | 2,61                     |
| 2,2             | 3    | 1400              | 79,0           | 80,0 | 80,0 | 0,66         | 0,77 | 0,83 | 5,03                     | 1420              | 78,0           | 80,0 | 80,0 | 0,55         | 0,68 | 0,78 | 4,90                     | 1410              | 79,0           | 80,0 | 80,0 | 0,60         | 0,73 | 0,81 | 3,73                     |
| 3               | 4    | 1410              | 80,0           | 81,0 | 81,5 | 0,64         | 0,77 | 0,84 | 6,66                     | 1430              | 77,0           | 80,0 | 81,5 | 0,52         | 0,67 | 0,78 | 6,57                     | 1420              | 79,0           | 80,0 | 81,5 | 0,57         | 0,72 | 0,81 | 5,00                     |
| 4               | 5,5  | 1430              | 82,9           | 83,1 | 83,1 | 0,68         | 0,79 | 0,85 | 8,50                     | 1445              | 80,6           | 82,5 | 83,4 | 0,56         | 0,70 | 0,79 | 8,33                     | 1440              | 82,0           | 83,1 | 83,1 | 0,62         | 0,75 | 0,82 | 6,35                     |
| 5,5             | 7,5  | 1445              | 84,5           | 85,0 | 85,0 | 0,70         | 0,81 | 0,86 | 11,4                     | 1455              | 82,0           | 84,0 | 85,0 | 0,58         | 0,72 | 0,81 | 11,1                     | 1450              | 83,5           | 84,5 | 85,0 | 0,63         | 0,77 | 0,84 | 8,46                     |
| 7,5             | 10   | 1450              | 85,5           | 86,0 | 86,0 | 0,71         | 0,82 | 0,87 | 15,1                     | 1455              | 82,5           | 85,0 | 86,0 | 0,57         | 0,72 | 0,80 | 15,0                     | 1455              | 84,0           | 85,5 | 86,0 | 0,63         | 0,77 | 0,84 | 11,3                     |
| 9,2             | 12,5 | 1450              | 86,0           | 86,5 | 87,0 | 0,70         | 0,82 | 0,87 | 18,5                     | 1455              | 84,5           | 86,0 | 87,0 | 0,59         | 0,73 | 0,82 | 17,9                     | 1455              | 85,5           | 86,5 | 87,0 | 0,64         | 0,78 | 0,85 | 13,7                     |

## IE1 Standard Efficiency<sup>1)</sup>

| Output            |      | Frame             | Full load torque (Nm) | Locked rotor current I <sub>L</sub> /I <sub>n</sub> | Locked rotor torque T <sub>L</sub> /T <sub>n</sub> | Breakdown torque T <sub>b</sub> /T <sub>n</sub> | Inertia J (kgm <sup>2</sup> ) | Allowable locked rotor time (s) |      | Weight (kg) | Sound dB (A) | 400 V          |      |      |              |      |      | Full load current I <sub>n</sub> (A) |       |
|-------------------|------|-------------------|-----------------------|---|--|---|-------------------------------|---------------------------------|------|-------------|--------------|----------------|------|------|--------------|------|------|--------------------------------------|-------|
|                   |      |                   |                       |   |  |   |                               | Hot                             | Cold |             |              | % of full load |      |      | Power factor |      |      |                                      |       |
|                   |      |                   |                       |   |  |   |                               |                                 |      |             |              | Efficiency     |      |      | Power factor |      |      |                                      |       |
| kW                | HP   | Rated speed (rpm) | 50                    | 75  | 100  | 50  | 75                            | 100                             |      |             |              |                |      |      |              |      |      |                                      |       |
| VI pole - 50 Hz   |      |                   |                       |   |  |   |                               |                                 |      |             |              |                |      |      |              |      |      |                                      |       |
| 0,12              | 0,16 | 63                | 1,29                  | 2,6   | 1,7  | 1,6   | 0,0005                        | 46                              | 101  | 5,5         | 43,0         | 890            | 43,0 | 47,0 | 48,0         | 0,44 | 0,55 | 0,67                                 | 0,539 |
| 0,18              | 0,25 | 71                | 1,92                  | 3,5   | 1,8  | 2,4   | 0,0008                        | 50                              | 110  | 9,1         | 43,0         | 895            | 48,0 | 52,0 | 54,0         | 0,38 | 0,48 | 0,58                                 | 0,830 |
| 0,25              | 0,33 | 71                | 2,65                  | 3,5   | 2,2  | 2,2   | 0,0009                        | 43                              | 95   | 10,1        | 43,0         | 900            | 56,5 | 57,0 | 57,5         | 0,40 | 0,50 | 0,57                                 | 1,10  |
| 0,37              | 0,5  | 80                | 3,84                  | 3,8   | 1,7  | 1,7   | 0,0019                        | 16                              | 35   | 10,5        | 43,0         | 920            | 55,0 | 60,0 | 62,0         | 0,50 | 0,64 | 0,73                                 | 1,18  |
| 0,55              | 0,75 | 80                | 5,65                  | 4,0   | 1,8  | 1,8   | 0,0030                        | 10                              | 22   | 13,9        | 43,0         | 930            | 57,0 | 63,0 | 65,0         | 0,51 | 0,66 | 0,76                                 | 1,61  |
| 0,75              | 1    | 90S/L             | 7,87                  | 4,2   | 1,9  | 2,0   | 0,0045                        | 16                              | 35   | 17,8        | 45,0         | 910            | 66,0 | 69,0 | 70,0         | 0,53 | 0,66 | 0,76                                 | 1,89  |
| 1,1               | 1,5  | 90S/L             | 11,4                  | 4,8   | 2,2  | 2,1   | 0,0062                        | 9                               | 20   | 21,0        | 45,0         | 925            | 70,0 | 71,0 | 73,0         | 0,53 | 0,66 | 0,73                                 | 2,98  |
| 1,5               | 2    | 100L              | 15,4                  | 4,1   | 2,0  | 2,2   | 0,0090                        | 17                              | 37   | 23,0        | 44,0         | 930            | 72,0 | 75,5 | 75,5         | 0,51 | 0,65 | 0,73                                 | 3,93  |
| 2,2               | 3    | 112M              | 22,4                  | 5,5   | 2,2  | 2,3   | 0,0165                        | 14                              | 31   | 30,5        | 52,0         | 940            | 76,0 | 78,5 | 78,5         | 0,53 | 0,66 | 0,74                                 | 5,36  |
| 3                 | 4    | 132S              | 30,0                  | 5,3   | 2,0  | 2,2   | 0,0340                        | 20                              | 44   | 49,4        | 53,0         | 955            | 78,0 | 80,5 | 80,5         | 0,55 | 0,68 | 0,75                                 | 6,82  |
| 4                 | 5,5  | 132M              | 39,8                  | 5,8   | 2,3  | 2,4   | 0,0446                        | 19                              | 42   | 53,4        | 53,0         | 960            | 80,0 | 81,5 | 82,0         | 0,54 | 0,66 | 0,74                                 | 9,27  |
| 5,5               | 7,5  | 132M              | 54,7                  | 6,4   | 2,2  | 2,8   | 0,0581                        | 15                              | 33   | 67,4        | 53,0         | 960            | 81,0 | 83,0 | 83,5         | 0,49 | 0,62 | 0,71                                 | 13,0  |
| VIII pole - 50 Hz |      |                   |                       |   |  |   |                               |                                 |      |             |              |                |      |      |              |      |      |                                      |       |
| 0,12              | 0,16 | 71                | 1,74                  | 2,2   | 2,1  | 2,0   | 0,0008                        | 84                              | 185  | 9,3         | 41,0         | 660            | 36,3 | 43,4 | 45,6         | 0,37 | 0,45 | 0,53                                 | 0,717 |
| 0,18              | 0,25 | 80                | 2,47                  | 2,8   | 2,2  | 2,4   | 0,0021                        | 29                              | 64   | 11,0        | 42,0         | 695            | 36,2 | 44,1 | 48,6         | 0,45 | 0,53 | 0,62                                 | 0,862 |
| 0,25              | 0,33 | 80                | 3,41                  | 3,5   | 2,3  | 2,2   | 0,0028                        | 24                              | 53   | 12,6        | 42,0         | 700            | 46,1 | 53,6 | 56,6         | 0,42 | 0,52 | 0,61                                 | 1,05  |
| 0,37              | 0,5  | 90S/L             | 5,16                  | 3,0   | 1,9  | 1,8   | 0,0039                        | 32                              | 70   | 14,0        | 43,0         | 685            | 50,6 | 55,5 | 56,0         | 0,44 | 0,55 | 0,64                                 | 1,49  |
| 0,55              | 0,75 | 90S/L             | 7,79                  | 3,3   | 1,9  | 2,0   | 0,0056                        | 25                              | 55   | 15,0        | 43,0         | 675            | 58,0 | 60,0 | 60,0         | 0,43 | 0,56 | 0,66                                 | 2,00  |
| 0,75              | 1    | 100L              | 10,2                  | 3,5   | 1,8  | 2,4   | 0,0079                        | 33                              | 73   | 22,0        | 50,0         | 705            | 65,0 | 65,5 | 66,0         | 0,42 | 0,53 | 0,62                                 | 2,65  |
| 1,1               | 1,5  | 100L              | 15,0                  | 4,0   | 1,7  | 2,3   | 0,0118                        | 27                              | 59   | 26,6        | 50,0         | 700            | 69,0 | 69,5 | 70,0         | 0,45 | 0,57 | 0,66                                 | 3,44  |
| 1,5               | 2    | 112M              | 20,5                  | 4,2   | 2,2  | 2,2   | 0,0178                        | 26                              | 57   | 29,5        | 46,0         | 700            | 73,7 | 75,4 | 73,5         | 0,48 | 0,61 | 0,70                                 | 4,21  |
| 2,2               | 3    | 132S              | 29,6                  | 6,1   | 2,5  | 2,8   | 0,0602                        | 22                              | 48   | 49,7        | 48,0         | 710            | 75,8 | 78,0 | 77,1         | 0,55 | 0,68 | 0,77                                 | 5,35  |
| 3                 | 4    | 132M              | 40,4                  | 6,1   | 2,2  | 2,6   | 0,0728                        | 18                              | 40   | 59,4        | 48,0         | 710            | 78,5 | 80,1 | 79,0         | 0,55 | 0,68 | 0,76                                 | 7,21  |

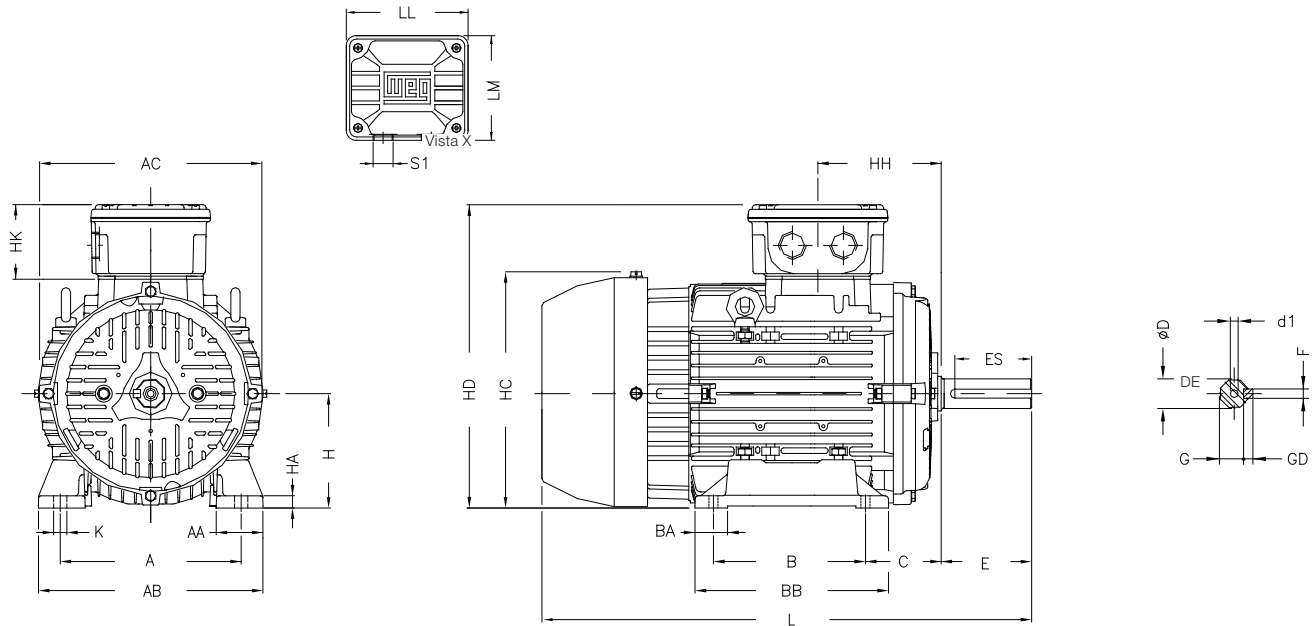
1) Efficiency values are given according to IEC 60034-2-1. They are calculated according to indirect method, with stray load losses determined by measurement.



| Output            |      | 380 V             |                |      |      |              |      |      |                          | 415 V             |                |      |      |              |      |      |                          | 525 V             |                |      |      |              |      |      |                          |    |    |     |  |  |  |
|-------------------|------|-------------------|----------------|------|------|--------------|------|------|--------------------------|-------------------|----------------|------|------|--------------|------|------|--------------------------|-------------------|----------------|------|------|--------------|------|------|--------------------------|----|----|-----|--|--|--|
|                   |      | Rated speed (rpm) | % of full load |      |      |              |      |      | Full load current In (A) | Rated speed (rpm) | % of full load |      |      |              |      |      | Full load current In (A) | Rated speed (rpm) | % of full load |      |      |              |      |      | Full load current In (A) |    |    |     |  |  |  |
|                   |      |                   | Efficiency     |      |      | Power factor |      |      |                          |                   | Efficiency     |      |      | Power factor |      |      |                          |                   | Efficiency     |      |      | Power factor |      |      |                          |    |    |     |  |  |  |
|                   |      |                   | 50             | 75   | 100  | 50           | 75   | 100  |                          |                   | 50             | 75   | 100  | 50           | 75   | 100  |                          |                   | 50             | 75   | 100  | 50           | 75   | 100  |                          | 50 | 75 | 100 |  |  |  |
| kW                | HP   |                   |                |      |      |              |      |      |                          |                   |                |      |      |              |      |      |                          |                   |                |      |      |              |      |      |                          |    |    |     |  |  |  |
| VI pole - 50 Hz   |      |                   |                |      |      |              |      |      |                          |                   |                |      |      |              |      |      |                          |                   |                |      |      |              |      |      |                          |    |    |     |  |  |  |
| 0,12              | 0,16 | 880               | 48,5           | 50,9 | 50,1 | 0,47         | 0,59 | 0,72 | 0,505                    | 895               | 38,5           | 43,1 | 45,7 | 0,43         | 0,52 | 0,63 | 0,580                    | 890               | 43,0           | 47,0 | 48,0 | 0,44         | 0,55 | 0,67 | 0,411                    |    |    |     |  |  |  |
| 0,18              | 0,25 | 890               | 51,0           | 53,0 | 54,5 | 0,41         | 0,51 | 0,62 | 0,809                    | 900               | 43,0           | 51,0 | 53,0 | 0,37         | 0,48 | 0,55 | 0,859                    | 895               | 48,0           | 52,0 | 54,0 | 0,38         | 0,48 | 0,58 | 0,632                    |    |    |     |  |  |  |
| 0,25              | 0,33 | 890               | 56,5           | 57,0 | 57,5 | 0,44         | 0,55 | 0,61 | 1,08                     | 905               | 56,5           | 57,0 | 57,5 | 0,37         | 0,46 | 0,54 | 1,12                     | 900               | 56,5           | 57,0 | 57,5 | 0,40         | 0,50 | 0,57 | 0,838                    |    |    |     |  |  |  |
| 0,37              | 0,5  | 905               | 57,0           | 62,0 | 63,0 | 0,54         | 0,69 | 0,79 | 1,13                     | 925               | 54,0           | 58,0 | 60,0 | 0,47         | 0,60 | 0,71 | 1,21                     | 920               | 55,0           | 60,0 | 62,0 | 0,50         | 0,64 | 0,73 | 0,899                    |    |    |     |  |  |  |
| 0,55              | 0,75 | 920               | 59,0           | 63,8 | 66,0 | 0,55         | 0,70 | 0,77 | 1,64                     | 935               | 55,0           | 62,0 | 64,0 | 0,48         | 0,62 | 0,71 | 1,68                     | 930               | 57,0           | 63,0 | 65,0 | 0,51         | 0,66 | 0,76 | 1,23                     |    |    |     |  |  |  |
| 0,75              | 1    | 895               | 65,0           | 66,0 | 70,0 | 0,59         | 0,75 | 0,80 | 1,91                     | 915               | 64,0           | 68,0 | 70,0 | 0,50         | 0,63 | 0,73 | 1,93                     | 910               | 66,0           | 69,0 | 70,0 | 0,53         | 0,66 | 0,76 | 1,44                     |    |    |     |  |  |  |
| 1,1               | 1,5  | 915               | 71,0           | 72,0 | 73,0 | 0,58         | 0,73 | 0,78 | 2,94                     | 930               | 69,0           | 70,0 | 73,0 | 0,48         | 0,61 | 0,68 | 3,08                     | 925               | 70,0           | 71,0 | 73,0 | 0,53         | 0,66 | 0,73 | 2,27                     |    |    |     |  |  |  |
| 1,5               | 2    | 920               | 72,0           | 75,5 | 75,5 | 0,57         | 0,70 | 0,77 | 3,92                     | 940               | 72,0           | 74,0 | 75,5 | 0,46         | 0,60 | 0,69 | 4,01                     | 930               | 72,0           | 75,5 | 75,5 | 0,51         | 0,65 | 0,73 | 2,99                     |    |    |     |  |  |  |
| 2,2               | 3    | 930               | 77,0           | 78,5 | 78,5 | 0,58         | 0,70 | 0,76 | 5,52                     | 950               | 74,0           | 78,5 | 78,5 | 0,50         | 0,63 | 0,72 | 5,28                     | 940               | 76,0           | 78,5 | 78,5 | 0,53         | 0,66 | 0,74 | 4,08                     |    |    |     |  |  |  |
| 3                 | 4    | 950               | 79,0           | 80,0 | 80,0 | 0,58         | 0,70 | 0,77 | 7,04                     | 960               | 77,0           | 80,5 | 80,5 | 0,50         | 0,64 | 0,72 | 6,83                     | 955               | 78,0           | 80,5 | 80,5 | 0,55         | 0,68 | 0,75 | 5,20                     |    |    |     |  |  |  |
| 4                 | 5,5  | 960               | 80,0           | 82,0 | 82,0 | 0,58         | 0,73 | 0,78 | 9,50                     | 965               | 78,0           | 81,0 | 82,0 | 0,52         | 0,64 | 0,72 | 9,21                     | 960               | 80,0           | 81,5 | 82,0 | 0,54         | 0,66 | 0,74 | 7,06                     |    |    |     |  |  |  |
| 5,5               | 7,5  | 960               | 82,0           | 83,0 | 83,5 | 0,56         | 0,69 | 0,75 | 13,0                     | 965               | 79,0           | 81,5 | 83,5 | 0,45         | 0,57 | 0,66 | 13,6                     | 960               | 81,0           | 83,0 | 83,5 | 0,49         | 0,62 | 0,71 | 9,90                     |    |    |     |  |  |  |
| VIII pole - 50 Hz |      |                   |                |      |      |              |      |      |                          |                   |                |      |      |              |      |      |                          |                   |                |      |      |              |      |      |                          |    |    |     |  |  |  |
| 0,12              | 0,16 | 650               | 41,0           | 47,1 | 47,6 | 0,39         | 0,48 | 0,57 | 0,672                    | 670               | 32,7           | 40,3 | 43,2 | 0,36         | 0,43 | 0,50 | 0,773                    | 660               | 36,3           | 43,4 | 45,6 | 0,37         | 0,45 | 0,53 | 0,546                    |    |    |     |  |  |  |
| 0,18              | 0,25 | 690               | 40,7           | 47,7 | 50,6 | 0,47         | 0,57 | 0,66 | 0,819                    | 700               | 32,8           | 41,2 | 46,1 | 0,43         | 0,51 | 0,59 | 0,921                    | 695               | 36,2           | 44,1 | 48,6 | 0,45         | 0,53 | 0,62 | 0,657                    |    |    |     |  |  |  |
| 0,25              | 0,33 | 690               | 49,0           | 55,6 | 57,2 | 0,45         | 0,56 | 0,65 | 1,02                     | 700               | 43,1           | 51,7 | 55,6 | 0,40         | 0,50 | 0,58 | 1,08                     | 700               | 46,1           | 53,6 | 56,6 | 0,42         | 0,52 | 0,61 | 0,796                    |    |    |     |  |  |  |
| 0,37              | 0,5  | 680               | 54,4           | 55,5 | 56,0 | 0,48         | 0,60 | 0,69 | 1,45                     | 690               | 46,6           | 53,8 | 56,0 | 0,41         | 0,51 | 0,61 | 1,51                     | 685               | 50,6           | 55,5 | 56,0 | 0,44         | 0,55 | 0,64 | 1,14                     |    |    |     |  |  |  |
| 0,55              | 0,75 | 665               | 61,7           | 62,0 | 60,0 | 0,47         | 0,60 | 0,70 | 1,99                     | 680               | 54,8           | 59,0 | 59,0 | 0,41         | 0,52 | 0,62 | 2,09                     | 675               | 58,0           | 60,0 | 60,0 | 0,43         | 0,56 | 0,66 | 1,52                     |    |    |     |  |  |  |
| 0,75              | 1    | 695               | 65,0           | 65,5 | 66,0 | 0,46         | 0,58 | 0,66 | 2,62                     | 710               | 65,0           | 65,5 | 66,0 | 0,39         | 0,49 | 0,58 | 2,73                     | 705               | 65,0           | 65,5 | 66,0 | 0,42         | 0,53 | 0,62 | 2,02                     |    |    |     |  |  |  |
| 1,1               | 1,5  | 690               | 69,0           | 69,5 | 70,0 | 0,50         | 0,62 | 0,70 | 3,41                     | 705               | 69,0           | 69,5 | 70,0 | 0,41         | 0,53 | 0,62 | 3,53                     | 700               | 69,0           | 69,5 | 70,0 | 0,45         | 0,57 | 0,66 | 2,62                     |    |    |     |  |  |  |
| 1,5               | 2    | 690               | 75,9           | 76,2 | 73,2 | 0,52         | 0,65 | 0,73 | 4,27                     | 705               | 71,6           | 74,2 | 73,1 | 0,44         | 0,57 | 0,66 | 4,33                     | 700               | 73,7           | 75,4 | 73,5 | 0,48         | 0,61 | 0,70 | 3,21                     |    |    |     |  |  |  |
| 2,2               | 3    | 705               | 77,1           | 78,3 | 76,7 | 0,60         | 0,73 | 0,80 | 5,45                     | 715               | 74,7           | 77,5 | 77,1 | 0,52         | 0,65 | 0,74 | 5,36                     | 710               | 75,8           | 78,0 | 77,1 | 0,55         | 0,68 | 0,77 | 4,08                     |    |    |     |  |  |  |
| 3                 | 4    | 705               | 79,7           | 80,5 | 78,6 | 0,60         | 0,73 | 0,80 | 7,25                     | 715               | 77,1           | 79,6 | 79,0 | 0,51         | 0,64 | 0,73 | 7,24                     | 710               | 78,5           | 80,1 | 79,0 | 0,55         | 0,68 | 0,76 | 5,49                     |    |    |     |  |  |  |

# Mechanical Data

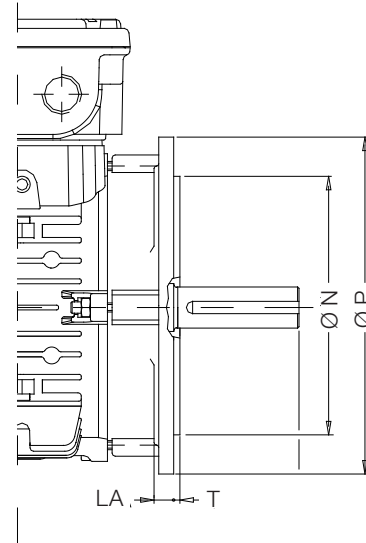
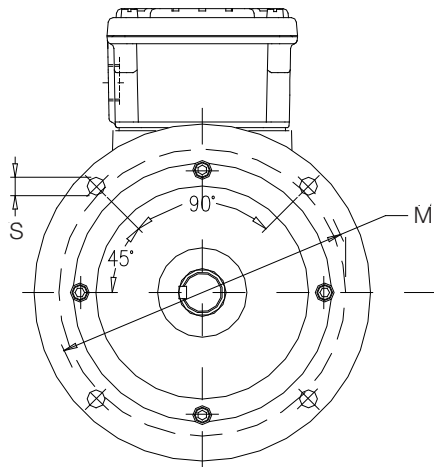
## Frames 63 to 132



| Frame  | A   | AA | AB  | AC  | H   | HA | HK | K  | Shaft |      |    |    |    |      |    |
|--------|-----|----|-----|-----|-----|----|----|----|-------|------|----|----|----|------|----|
|        |     |    |     |     |     |    |    |    | D     | d1   | E  | ES | F  | G    | GD |
| 63     | 100 | 19 | 116 | 126 | 63  | 6  | 53 | 7  | 11j6  | EM4  | 23 | 14 | 4  | 8.5  | 4  |
| 71     | 112 | 28 | 134 | 141 | 71  | 6  | 53 | 7  | 14j6  | DM5  | 30 | 18 | 5  | 11   | 5  |
| 80     | 125 | 32 | 154 | 159 | 80  | 8  | 53 | 10 | 19j6  | DM6  | 40 | 28 | 6  | 15.5 | 6  |
| 90S/L  | 140 | 35 | 170 | 178 | 90  | 9  | 65 | 10 | 24j6  | DM8  | 50 | 36 | 8  | 20   | 7  |
| L90S/L | 140 | 35 | 170 | 178 | 90  | 9  | 65 | 10 | 24j6  | DM8  | 50 | 36 | 8  | 20   | 7  |
| 100L   | 160 | 40 | 196 | 199 | 100 | 12 | 65 | 12 | 28j6  | DM10 | 60 | 45 | 8  | 24   | 7  |
| L100L  | 160 | 40 | 196 | 199 | 100 | 12 | 65 | 12 | 28j6  | DM10 | 60 | 45 | 8  | 24   | 7  |
| 112M   | 190 | 46 | 220 | 221 | 112 | 12 | 73 | 12 | 28j6  | DM10 | 60 | 45 | 8  | 24   | 7  |
| L112M  | 190 | 46 | 220 | 221 | 112 | 12 | 73 | 12 | 28j6  | DM10 | 60 | 45 | 8  | 24   | 7  |
| 132S   | 216 | 44 | 248 | 260 | 132 | 12 | 73 | 12 | 38k6  | DM12 | 80 | 63 | 10 | 33   | 8  |
| 132M   | 216 | 44 | 248 | 260 | 132 | 12 | 73 | 12 | 38k6  | DM12 | 80 | 63 | 10 | 33   | 8  |
| L132M  | 216 | 44 | 248 | 260 | 132 | 12 | 73 | 12 | 38k6  | DM12 | 80 | 63 | 10 | 33   | 8  |

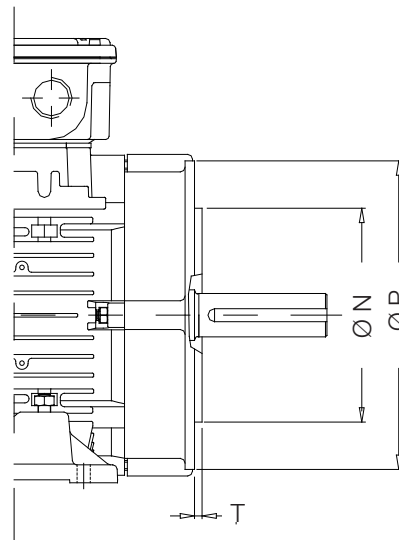
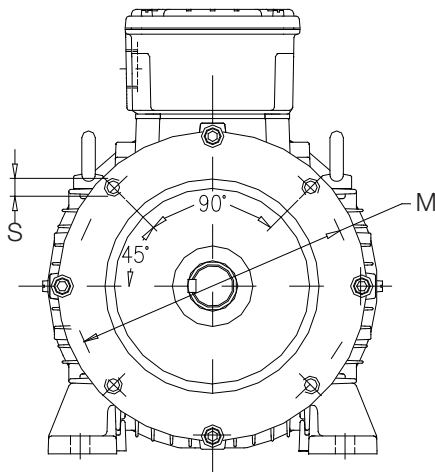
| Frame  | B       | BA | BB  | C  | HC  | HD  | HH    | LL  | LM  | S1        | Bearing |         |
|--------|---------|----|-----|----|-----|-----|-------|-----|-----|-----------|---------|---------|
|        |         |    |     |    |     |     |       |     |     |           | DE      | NDE     |
| 63     | 80      | 23 | 95  | 40 | 129 | 180 | 72.25 | 99  | 85  | 2xM20x1,5 | 6201 ZZ | 6201 ZZ |
| 71     | 90      | 24 | 108 | 45 | 145 | 196 | 73    | 99  | 85  | 2xM20x1,5 | 6203 ZZ | 6202 ZZ |
| 80     | 100     | 28 | 124 | 50 | 163 | 214 | 79    | 99  | 85  | 2xM20x1,5 | 6204 ZZ | 6203 ZZ |
| 90S/L  | 100/125 | 24 | 146 | 56 | 182 | 240 | 80.5  | 108 | 92  | 2xM25x1,5 | 6205 ZZ | 6204 ZZ |
| L90S/L | 100/125 | 24 | 146 | 56 | 182 | 240 | 80.5  | 108 | 92  | 2xM25x1,5 | 6205 ZZ | 6204 ZZ |
| 100L   | 140     | 29 | 170 | 63 | 203 | 260 | 86    | 108 | 92  | 2xM25x1,5 | 6206 ZZ | 6205 ZZ |
| L100L  | 140     | 29 | 170 | 63 | 203 | 260 | 86    | 108 | 92  | 2xM25x1,5 | 6206 ZZ | 6205 ZZ |
| 112M   | 140     | 32 | 170 | 70 | 226 | 289 | 104.5 | 137 | 117 | 2xM32x1,5 | 6307 ZZ | 6206 ZZ |
| L112M  | 140     | 32 | 170 | 70 | 226 | 289 | 104.5 | 137 | 117 | 2xM32x1,5 | 6307 ZZ | 6206 ZZ |
| 132S   | 140     | 33 | 170 | 89 | 266 | 329 | 104.5 | 137 | 117 | 2xM32x1,5 | 6308 ZZ | 6207 ZZ |
| 132M   | 178     | 33 | 210 | 89 | 266 | 329 | 104.5 | 137 | 117 | 2xM32x1,5 | 6308 ZZ | 6207 ZZ |
| L132M  | 178     | 33 | 210 | 89 | 266 | 329 | 104.5 | 137 | 117 | 2xM32x1,5 | 6308 ZZ | 6207 ZZ |

### “FF” Flange



| “FF” Flange |        |    |     |     |     |    |     |          |             |
|-------------|--------|----|-----|-----|-----|----|-----|----------|-------------|
| Frame       | Flange | LA | M   | N   | P   | S  | T   | $\alpha$ | N° of holes |
| 63          | FF-115 | 9  | 115 | 95  | 140 | 10 | 3   | 45°      | 4           |
| 71          | FF-130 |    | 130 | 110 | 160 |    | 3,5 |          |             |
| 80          | FF-165 | 10 | 165 | 130 | 200 | 12 | 3,5 |          |             |
| 90          |        |    |     |     |     |    |     |          |             |
| 100         | FF-215 | 11 | 215 | 180 | 250 | 15 | 4   |          |             |
| 112         |        |    |     |     |     |    |     |          |             |
| 132         | FF-265 | 12 | 265 | 230 | 300 |    |     |          |             |

### “C-DIN” Flange



| “C-DIN” Flange |        |     |     |     |     |     |          |             |  |
|----------------|--------|-----|-----|-----|-----|-----|----------|-------------|--|
| Frame          | Flange | M   | N   | P   | S   | T   | $\alpha$ | N° of holes |  |
| 63             | C-90   | 75  | 60  | 90  | M5  | 2,5 | 45°      | 4           |  |
| 71             | C-105  | 85  | 70  | 105 | M6  |     |          |             |  |
| 80             | C-120  | 100 | 80  | 120 | M8  | 3   |          |             |  |
| 90S/L          | C-140  | 115 | 95  | 140 |     | 3,5 |          |             |  |
| 100L           | C-160  | 130 | 110 | 160 | M10 | 3,5 |          |             |  |
| 112M           |        |     |     |     |     |     |          |             |  |
| 132M           | C-200  | 165 | 130 | 200 |     |     |          |             |  |

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