W22 & W01
Single-Phase Integral Horsepower Motors

NEMA Market
W22 Single-Phase Motors

Cooling System
- The cooling system (fan, non drive endshield and fan cover) is designed to minimize noise level and improve thermal efficiency
- Steel plate fan cover provides high mechanical strength, corrosion resistance and extended lifetime

Switch and Centrifugal Switch
- The starting system of W22 single phase motors was redesigned to improve functionality, thus increasing system reliability and lifespan.

Grounding

Drain

NDE Bearing

Capacitor
- With start and run capacitors.
**Nameplate**
- Stainless steel nameplate detailing complete and permanent record of all motor data.

**Cast Iron Frame**
- FC-200 (EN GJL 200) cast iron frames meeting impact level IK08 (5J) ensuring superior mechanical strength for the most demanding applications
- Solid motor feet providing excellent rigidity, allowing easier alignment and installation

**Shaft**
- AISI 1040/45 carbon steel providing high mechanical strength and minimizing bending under load and fatigue

**Stator Winding**
- Low loss magnetic steel laminations, thermally and chemically treated to improve efficiency and minimize mechanical stress
- Windings with class ‘H’ enamelled wire, impregnated with solvent free polyester resin

**Terminal box**
- Manufactured in cast iron.
- Can be rotated in steps of 90°, allowing more flexibility for leads inlet positioning in a standard stock product.

**V-Ring Seals**
- V-Ring seals to prevent ingress of liquids and dust into the motor

**DE Bearing**
- Manufactured in cast iron.
- Can be rotated in steps of 90°, allowing more flexibility for leads inlet positioning in a standard stock product.
Features

- High starting torque
- Suitable for domestic and rural power supply conditions
- Adaptable design suitable for a variety of applications and needs

Standard
- Rated output: 1 up to 12.5 HP
- Number of poles: 2, 4 and 6
- Frame sizes: 143/5T up to 213/5T
- Voltage: 115/208-230 V, 208-230 V or 208-230/460 V
- Frequency: 60 Hz
- Degree of protection: IP55
- Painting plan: 207A
- Frame material: Cast iron
- Mounting: F-1
- Cooling method: TEFC (Totally Enclosed Fan Cooled)
- Grounding: Single (inside the terminal box)
- Fan material: Polypropylene
- Shaft material: AISI 1040/45 Carbon steel
- Nameplate material: Stainless steel
- Color: Blue (RAL 5009)
- Insulation class: F
- Service factor: 1.15

Optional
- Other voltages
- Insulation class: H
- Degree of Protection: IP56 and above
- Thermal protection
- Other mounting forms / terminal box positions
- Flange C and D
- Stainless steel shaft
- Terminal block
- Undersized terminal box (For frames 143/5T)*
  *Only by request

Applications
- Fans and Blowers
- Centrifugal pumps
- Compressors
- Grain Dryers
- High Pressure Washers
- Silo Unloaders and Augers
- Conveyors / Materials Handling
- Catfish Pond Aerators
- Grinding Machines
## Electrical Data

### W22 Single-Phase - CSR (Starting and Run Capacitor) - Torque above 200%

<table>
<thead>
<tr>
<th>Output</th>
<th>Frame</th>
<th>Full load torque (ft.lbf)</th>
<th>Locked rotor current</th>
<th>Locked rotor torque (Tl/Tn)</th>
<th>Breakdown torque (Tl/Tn)</th>
<th>Inertia J (sq.in-ft-lb)</th>
<th>Allowable locked rotor time (s)</th>
<th>Weight (lb)</th>
<th>Sound dB(A)</th>
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### Notes:

(*) Motor with class F (105 K) temperature rise.

(**) Values subjected to change without previous advise.
**Mechanical Data**

**Frames 143 up to 215 - General purpose**

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<th>AB</th>
<th>D</th>
<th>2E</th>
<th>G</th>
<th>H</th>
<th>HB</th>
<th>HK</th>
<th>J</th>
<th>P</th>
<th>B</th>
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<th>O</th>
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<th>LL</th>
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<th>AA</th>
<th>Shaft</th>
<th>Bearing</th>
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Notes:

1) Motor with 5 capacitors.

**Flange “D”**

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Other dimensions, that there are not in table above, are the same as shown on standard table - page 6.
Flange “C”

Frames 143 up to 215 - JM/JP

Other dimensions, that there are not in table above, are the same as shown on standard table - page 6.
W01 Single-Phase Integral Motors TEFC

Cooling System
- An external radial fan made of polypropylene or steel plate is mounted on the NDE shaft and protected by the fan cover.

Switch and Centrifugal Switch
- The concept of the switch with its reduced size avoids the strain of the component while the centrifugal switch ensures its opening in precise speed.

Grounding terminal
- The W01 motors are fitted with grounding terminal inside the terminal box.

Drain

Bearings
- The standard motors are double shielded ball bearings (ZZ type) lubricated with Mobil Polirex EM grease for its entire lifetime.

Capacitors
- With start and run capacitors.

Terminal box
- Manufactured in die cast aluminum.
- Internal usable volume exceeding the requirements of NEMA MG-1.
- Can be rotated in steps of 90°, allowing more flexibility for leads inlet positioning in a standard stock product.

Switch and Centrifugal Switch
- The concept of the switch with its reduced size avoids the strain of the component while the centrifugal switch ensures its opening in precise speed.

Grounding terminal
- The W01 motors are fitted with grounding terminal inside the terminal box.

Drain

Bearings
- The standard motors are double shielded ball bearings (ZZ type) lubricated with Mobil Polirex EM grease for its entire lifetime.

Capacitors
- With start and run capacitors.

Terminal box
- Manufactured in die cast aluminum.
- Internal usable volume exceeding the requirements of NEMA MG-1.
- Can be rotated in steps of 90°, allowing more flexibility for leads inlet positioning in a standard stock product.
**Nameplate**
- Label detailing complete and permanent record of all motor data.

**Rolled Steel Frame**
- Produced in steel plate and covered with a nanoceramic coating as standard.

**Stator winding**
- Low loss magnetic steel laminations, thermally and chemically treated to improve efficiency and minimize mechanical stress
- Windings with class ‘F’ enamelled wire, impregnated with solvent free polyester resin

**Endshields**
- In accordance with market trends, endshields are produced in die cast aluminum, providing great mechanical strength, lightweight and corrosion resistance.

**Shaft**
- The standard shaft material is AISI 1040/45 steel, and with an A type key provided.

**Steel feet**
- Double punched feet.

**Bearings**

**Drain**

**V-Ring Seals**
- V-Ring seals to prevent ingress of liquids and dust into the motor.
**Cooling System**
- The ODP motors have internal radial fans composed by the aluminum fins on the rotor and internal baffles to guide the airflow. The air flows from outside through the endshields inlets going expelled by the frame outlets.

**Switch and Centrifugal Switch**
- The concept of the switch with its reduced size avoids the strain of the component while the centrifugal switch ensures its opening in precise speed.

**Grounding terminal**
- The W01 Rolled Steel motors are fitted with grounding terminal at NDE endshield.

**Nameplate**
- Label detailing complete and permanent record of all motor data.

**Steel feet**
- Produced in steel plate.
**Capacitor**
- With start and run capacitors.

**Stator winding**
- Low loss magnetic steel laminations, thermally and chemically treated to improve efficiency and minimize mechanical stress
- Windings with class ‘F’ enameled wire, impregnated with solvent free polyester resin

**Endshields**
- In accordance with market trends, endshields are produced in die cast aluminum, providing great mechanical strength, lightweight and corrosion resistance.

**Shaft**
- The standard shaft material is AISI 1040/45 steel, and with an A type key provided. Complying with NEMA MG1.

**Bearings**
- The standard motors are double shielded ball bearings (ZZ type) lubricated with Mobil Polirex EM grease for its entire lifetime.

**Internal baffle**

**Dog House**
- Motors can be supplied with dog house to protect capacitors.
Features

- High starting torque
- Suitable for domestic and rural power supply conditions
- Adaptable design suitable for a variety of applications and needs

**Standard**

- Rated output: 1 up to 15 HP
- Number of poles: 2 and 4
- Frame sizes: 143T up to 215T
- Voltage: 115/208-230 V, 208-230 V or 208-230/460 V
- Frequency: 60 Hz
- Degree of protection: IP55
- Painting plan: 207N
- Frame material: Rolled Steel
- Mounting: F-1
- Cooling method: TEFC (Totally Enclosed Fan Cooled)
- Grounding: Single (inside the terminal box)
- Fan material: Polypropylene
- Shaft material: AISI 1040/45 Carbon steel
- Nameplate material: Vynil self-adhesive
- Color: Flat Black (Munsell N1)
- Insulation class: F
- Service factor: 1.15
- Certification - CSA/UL certification is available for motors without thermal protection

**Optional**

- Other voltages
- Degree of Protection IP56
- Thermal protection
- Other mounting forms
- Flanges C
- Stainless steel shaft

**Applications**

- Fans and Blowers
- Centrifugal pumps
- Compressors
- Grain Dryers
- High Pressure Washers
- Silo Unloaders and Augers
- Conveyors / Materials Handling
- Grinding Machines
### Electrical Data

#### W1 General Purpose - TEFC - Single-Phase - Torque above 210%  

<table>
<thead>
<tr>
<th>HP</th>
<th>kW</th>
<th>Code</th>
<th>Model</th>
<th>Frame</th>
<th>Full Load Torque (lb ft)</th>
<th>Locked Rotor Torque (lb ft)</th>
<th>Locked Rotor Current</th>
<th>Locked Rotor Time (s)</th>
<th>Breakdown Torque (lb ft)</th>
<th>Breakdown Inertia (oz. ft lb)</th>
<th>Allowable Locked Rotor Current</th>
<th>Sound (dB(A))</th>
<th>Rated Efficiency</th>
<th>Power Factor</th>
<th>Full Load Current (A)</th>
<th>C (inches)</th>
<th>FC (inches)</th>
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#### W1 General Purpose - ODP - Single-Phase - Torque above 200%  

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<th>kW</th>
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<th>Model</th>
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<th>Full Load Torque (lb ft)</th>
<th>Locked Rotor Current</th>
<th>Locked Rotor Torque (lb ft)</th>
<th>Locked Rotor Time (s)</th>
<th>Breakdown Torque (lb ft)</th>
<th>Breakdown Inertia (oz. ft lb)</th>
<th>Allowable Locked Rotor Current</th>
<th>Sound (dB(A))</th>
<th>Rated Efficiency</th>
<th>Power Factor</th>
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<td>0.99</td>
</tr>
<tr>
<td>15</td>
<td>11</td>
<td>212/5T</td>
<td>22.0</td>
<td>J</td>
<td>8.7</td>
<td>2.5</td>
<td>4.1</td>
<td>0.7186</td>
<td>6</td>
<td>183</td>
<td>-</td>
<td>1.15</td>
<td>3530</td>
<td>85.9</td>
<td>88.0</td>
<td>88.5</td>
<td>0.99</td>
</tr>
</tbody>
</table>

#### Notes:  
(*) Motor with class F (105 K) temperature rise.  
(**) Values subjected to change without previous advise.
Mechanical Data - W01 TEFC

Frames 143/5

Frames 182/4

Frames 213/5

<table>
<thead>
<tr>
<th>Frame</th>
<th>AA</th>
<th>FC</th>
<th>C</th>
<th>B</th>
<th>BA</th>
<th>2F</th>
<th>O</th>
<th>T</th>
<th>Shaft</th>
<th>Bearing</th>
</tr>
</thead>
<tbody>
<tr>
<td>143/ST</td>
<td>1.118°</td>
<td>&quot;</td>
<td>&quot;</td>
<td>6.496</td>
<td>2.250</td>
<td>4.000/5.000</td>
<td>6.724</td>
<td>0.603</td>
<td>1.417</td>
<td>2.250</td>
</tr>
<tr>
<td>182/4T</td>
<td>&quot;</td>
<td>&quot;</td>
<td>6.209</td>
<td>2.750</td>
<td>4.500/5.500</td>
<td>8.557</td>
<td>-</td>
<td>1.969</td>
<td>2.750</td>
<td>A 3.15</td>
</tr>
<tr>
<td>213/5T</td>
<td>1.732°</td>
<td>7.953</td>
<td>3.500</td>
<td>5.500/7.000</td>
<td>10.114</td>
<td>0.732</td>
<td>2.480</td>
<td>3.380</td>
<td>A 4</td>
<td>1.203</td>
</tr>
</tbody>
</table>
Flange “C”

Frames JM/JP 143 up to 215T

<table>
<thead>
<tr>
<th>Frame</th>
<th>Flange</th>
<th>AJ</th>
<th>BF</th>
<th>BA</th>
<th>BB</th>
<th>AK</th>
<th>BD</th>
<th>BF Nº</th>
</tr>
</thead>
<tbody>
<tr>
<td>143/5T</td>
<td>FC-148</td>
<td>5.874</td>
<td>2.750</td>
<td>0.157</td>
<td>4.500</td>
<td>6.450</td>
<td></td>
<td></td>
</tr>
<tr>
<td>182/4T</td>
<td>FC-184</td>
<td>5.874</td>
<td>3.500</td>
<td>0.157</td>
<td>4.500</td>
<td>6.496</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>213/5T</td>
<td>FC-184</td>
<td>7.250</td>
<td>4.250</td>
<td>0.250</td>
<td>8.500</td>
<td>8.796</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes:
(*) Dimensions according Electric Table - page 13 - TEFC motors.
Other dimensions, that there are not in table above, are the same as shown on standard table - page 14.
## Mechanical Data - W01 ODP

### Frames 143 up to 145

<table>
<thead>
<tr>
<th>Frame</th>
<th>A</th>
<th>AB</th>
<th>D</th>
<th>2E</th>
<th>G</th>
<th>H</th>
<th>HB</th>
<th>HD1</th>
<th>HD2</th>
<th>HK</th>
<th>J</th>
<th>P</th>
<th>LL</th>
<th>LM</th>
</tr>
</thead>
<tbody>
<tr>
<td>143/ST</td>
<td>6.535</td>
<td>5.882</td>
<td>3.500</td>
<td>5.500</td>
<td>0.120</td>
<td>0.343</td>
<td>1.783</td>
<td>8.618</td>
<td>8.150</td>
<td>2.638</td>
<td>1.732</td>
<td>6.467</td>
<td>4.543</td>
<td>4.106</td>
</tr>
</tbody>
</table>

### Frames 182 up to 215

<table>
<thead>
<tr>
<th>Frame</th>
<th>AA</th>
<th>FC</th>
<th>C</th>
<th>B</th>
<th>BA</th>
<th>2F</th>
<th>O</th>
<th>Shaft</th>
<th>Bearing</th>
</tr>
</thead>
<tbody>
<tr>
<td>143/ST</td>
<td>1.118*</td>
<td></td>
<td>6.496</td>
<td>2.250</td>
<td>4.000/5.000</td>
<td>6.724</td>
<td>1.417</td>
<td>2.250</td>
<td>A 3,15</td>
</tr>
<tr>
<td>182/4T</td>
<td>1.118*</td>
<td></td>
<td>6.299</td>
<td>2.750</td>
<td>4.500/5.000</td>
<td>8.557</td>
<td>1.969</td>
<td>2.750</td>
<td>A 3,15</td>
</tr>
<tr>
<td>213/5T</td>
<td>1.732*</td>
<td></td>
<td>7.953</td>
<td>3.500</td>
<td>5.500/7.000</td>
<td>10.144</td>
<td>2.480</td>
<td>3.380</td>
<td>A 4</td>
</tr>
</tbody>
</table>

*Note: Values marked with an asterisk (*) may require additional information for accurate interpretation.*
Flange “C”

Frames JM/JP

<table>
<thead>
<tr>
<th>Frame</th>
<th>Flange</th>
<th>AJ</th>
<th>BF</th>
<th>BA</th>
<th>BB</th>
<th>AK</th>
<th>BD</th>
<th>BF Wp</th>
</tr>
</thead>
<tbody>
<tr>
<td>143/ST</td>
<td>FC-149</td>
<td>5.874</td>
<td>UNC 3/8&quot;x16</td>
<td>2.250</td>
<td>2.750</td>
<td>0.157</td>
<td>4.500</td>
<td>6.450</td>
</tr>
<tr>
<td>182/4T</td>
<td>FC-184</td>
<td>5.874</td>
<td>UNC 3/8&quot;x16</td>
<td>3.500</td>
<td>3.500</td>
<td>0.157</td>
<td>4.500</td>
<td>6.496</td>
</tr>
<tr>
<td>213/5T</td>
<td>FC-184</td>
<td>7.250</td>
<td>UNC 1/2&quot;x13</td>
<td>4.250</td>
<td>4.250</td>
<td>0.250</td>
<td>8.500</td>
<td>8.796</td>
</tr>
</tbody>
</table>

Notes:
(*) Dimensions according Electric Table - page 13 - ODP motors.
Farm Duty Motors

The Farm Duty motors are specially designed for farm applications requiring high starting torque and moderate starting current, as pumps, fans, conveyors, poultry equipment, air compressors and other farm machinery.

Some standard features such as V-ring slinger in both drive and opposite drive ends, reversible shaft rotation and start capacitors provide versatility for indoor and outdoor use. The manual overload protection available in all frames protects against extreme overloads offering maximum safety to operators.
Farm Duty
Single-Phase Motors

**W01 Farm Duty**
- Rated output: 0.33 up to 10 HP
- Number of poles: 4
- Frame sizes: W56 up to 213/5T
- Voltage: 115/230 V or 230 V
- Frequency: 60 Hz
- Degree of protection: IP55
- Painting plan: 207N
- Frame material: Rolled Steel
- Mounting: F-1
- Cooling method: TEFC (Totally Enclosed Fan Cooled)
- Grounding: Single (inside the terminal box)
- Shaft material: AISI 1040/45 Carbon steel
- Color: Red (RAL 3003)
- Insulation class: F
- Service factor: 1.15
- Thermally Protected: Manual Reset

**W22 Farm Duty**
- Rated output: 0.33 up to 12.5 HP
- Number of poles: 4
- Frame sizes: 143/5T up to 213/5T
- Voltage: 115/230 V or 230 V
- Frequency: 60 Hz
- Degree of protection: IP55
- Painting plan: 207N
- Frame material: Cast Iron
- Mounting: F-1
- Cooling method: TEFC (Totally Enclosed Fan Cooled)
- Grounding: Single (inside the terminal box)
- Shaft material: AISI 1040/45 Carbon steel
- Color: RAL 3003 (red)
- Insulation class: F
- Service factor: 1.15
- Thermally Protected: Manual Reset
For those countries where there is not a WEG own operation, find our local distributor at www.weg.net.