

# W40 Motor

## NEMA Market

W40 is a platform of Open Drip Proof motors (ODP) designed for industrial application in order to have a compact and light solution for the customer. The platform was designed to meet the market requirements of optimized and rugged motors, complying with international standard dimensions, safety and performance requirements.

# W40 Motor

## Standard Features

- Output: 25 to 2,500 HP
- Number of poles: 2, 4 and 6
- High Efficiency and NEMA Premium Efficiency
- Frame sizes: NEMA 254/6T to L6808/09
- Voltage: 208 to 4160V
- Frequency: 60 Hz
- Service factor: 1.25 (up to 150 HP), 1.15 (above 150 HP)
- Degree of protection: IP23 (frames 254/6T up to L5810/11)  
IP24 (for frame size L6808/09)
- Insulation class: F
- Mounting: F1
- Bearing type: Ball bearings
- Frame material: Cast iron
- Cooling system: Open with self-circulation (IC01)
- Nameplate: Stainless steel
- Grounding terminals in terminal box (254T up to 326T)  
One grounding terminal on frame and in main terminal box (for frames 364/5T up to 447/9T)  
Two grounding terminals on frame and one in main terminal box (for frames 5010/11 and above)
- Grease fitting (for all frame sizes)

## Optional Features

- Frequency: 50Hz or 50/60Hz
- Insulation class: H
- Space heater
- Winding and bearings thermal protections
- Voltage: 5,000 to 6,600 V (HV)
- Internal Shaft Grounding Ring – AEGIS (up to 444/5T)
- Maximum ambient temperature: 50°C (UL/CSA), 60°C (UL, on frames 254T up to 447/9T)
- Rodent screens
- Terminal block
- Epoxy painting
- Cable glands
- Flange: D (for all frame sizes) and C (up to 447/9T frame sizes)
- Drip cover (up to 5010/11)
- Sleeve bearings for frames L5810 and above
- Cooling system WPI on frames L5010 and up.

## Applications

Widely used in applications such as:

- Compressors
- Pumps
- Fans
- Blowers

## Features & Benefits

### Rugged and compact design

With maximum reliability, ready for all application requirements. W40 motors have higher power density when compared with TEFC motors.

### Low vibration and noise levels

W40 motors have vibration velocity limits and noise levels as per NEMA MG-1 parts 7 and 9.

### Enhanced customer interface for easy installation and maintenance

Reversible F1/F2 ready, prepared for opposite side auxiliary boxes drilling and installation, grease inlet/outlet improved access, easy access to flange bolts, flat areas for vibration sensors.

### Oversized terminal box

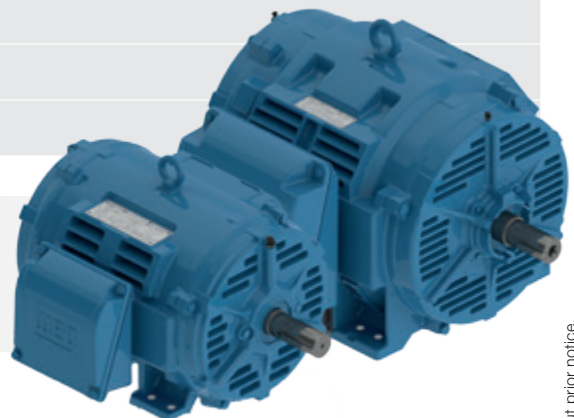
Oversized and diagonally split terminal box for easier access and service operations.

### IP23 degree of protection

Complete protection against touching on all live or rotating parts.

### Meets UL 1004-1 and NEMA MG-1 safety requirements

### L10h bearing life of 100,000 hours (direct coupling)



**W40 Motor**  
Contact WEG and make a quotation.



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