



Explosion Proof Motor

NEMA Market

The Explosion Proof Motor is the WEG Solution designed for hazardous location in accordance with the hardest standard criteria assuring safety, energy saving and low operational costs.

Explosion Proof Motor

Standard Features

- Output: 1 to 500 HP
- Number of poles: 2 to 8 poles
- Frames: 143/5T to 586/7T
- Voltage: 208-230/460 V or 575 V
- Frequency: 60 Hz
- Service factor: 1.15
- Degree of Protection: IP55
- Insulation class: F
- Mounting: F1
- Thermal protection: Thermostat
- Frame material: Cast iron
- Cooling system: TEFC
- Nameplate: Stainless steel
- Grounding terminals inside main terminal box (up to 326T) and grounding terminals on frame and main terminal box (for frames 364/5T and above)
- Grease fitting (for frame sizes 254T and above)

Certification Marking

Explosion Proof Motors are suitable for:
Class I, Division 1, Groups C&D
Class II, Division 1, Groups F&G
Class I, Zone 1 IIB
Class II, Zone 21 IIIB
Tcode: T3C

Features & Benefits

Efficiency levels in accordance with NEMA MG1 Standard

Lower energy consumption and reduced operating cost.

Variable Frequency Drive Operation

To adjust the motor's output to best suit load requirements. Frequency range: 0.06 up to 120 Hz.

AEGIS Internal Shaft Grounding Ring

The shaft grounding technology prevents bearing "fluting" damage when motors are fed by variable frequency drives (VFD).

Solid cast iron frame

Provides high levels of mechanical strength to cater for the most critical applications.

Windings and bearings RTD (Pt-100)

Allows continuous monitoring of the motor operating temperature.

Certification

All available features are certified according to UL and CSA standards.

Customization

Product customized to meet specific applications.

Optional Features

- Two speed
- IEC Frames
- Frequency: 50Hz or 50/60Hz
- Degree of protection: up to IP66 (Class I only)
- Insulation class: H
- Tcode: T4, T3A or T2B/T2D (without thermal protection)
- Space heater
- Encoder
- Grease fitting (for frame sizes 143/5T up to L215T under request)
- Winding and bearing RTD's
- Voltage: up to 1000 V (DOL) or 690 V (VFD)
- Service factor: up to 1.5
- AEGIS Internal Shaft Grounding Ring
- TEBC/TENV/TEAO
- Terminal block
- Ambient temperature: maximum 60 °C

Applications

WEG's Explosion Proof Motor was designed for applications in hazardous areas classified as Division 1/Zone 1:

- Fans
- Pumps
- Conveyor belts
- Blowers
- Carvings
- Cranes

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Contact WEG and assure your safety.



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