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)

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

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 IIB
- Tcode: T3C

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

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.

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Contact WEG and assure your safety.