

# EXPLOSION PROOF MOTORS

1/3 - 500 HP  
2, 4, 6, & 8 Pole

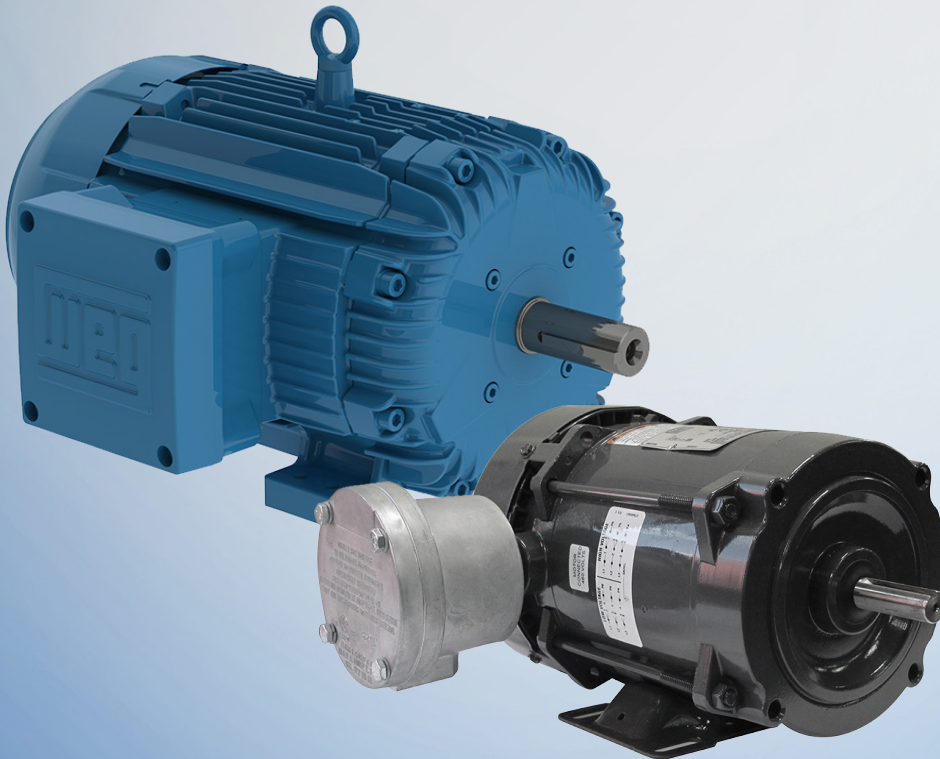
## Motors

Automation

Energy

Transmission and  
Distribution

Coatings

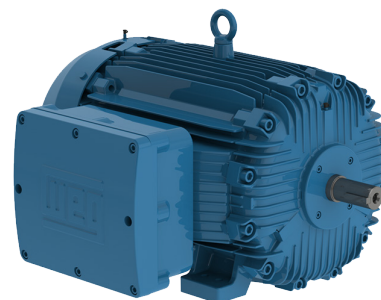


# Explosion Proof - Three Phase

Three Phase

Foot Mount and Flange Mount

WEG Explosion Proof motors are suitable for applications requiring UL or CSA certification for hazardous locations. Thermally protected with thermostats, all motors manufactured are submitted to routine testing at the factory to ensure compliance to the required specifications. WEG Explosion Proof motors are specifically designed to meet or exceed all North American requirements for energy efficiency.



## Standard Features:

- Efficiency Certification number CC029A according to US Department of Energy Regulations
- Three-phase, 60Hz
- Voltage: 208-230/460, 460 or 575V
- Squirrel cage rotor / Aluminum die cast
- Totally Enclosed Fan Cooled – TEFC (IP54 & IP55)
- Ball bearings are supplied as standard regreasable bearings 254T Frames & Larger
- Cast iron frame
- Class 'F' insulation
- Temperature rise: Class 'B' (80°C) FL
- Service factor: 1.15
- Inverter Duty
- NEMA dimensions
- NEMA ratings design 'B'
- Continuous Duty (S1)
- 55° ambient @ 1.0SF through 150hp 2 and 4 pole
- 104°F (40°C) ambient temperature
- Altitude: 3300 ft (1000 m)
- 1045 Carbon Steel Shaft for frames up to 365T
- 4140 steel shaft for motors 404T and above.
- Class 'F' insulation for all frames
- 60/50Hz Nameplate
- Stainless steel nameplate
- Paint: Epoxy with Polyurethane top coat (exceeds ASTM B117 salt spray test 200 hours)
- Color: RAL 5009 – Blue
- NPT threaded terminal box
- Non-sparking fan
- Thermostats
- F1 mount

## Optional Features:

- Flange mount
- AEGIS® inside
- Special voltages
- Space heaters
- Specially dimensioned shaft
- Double shaft
- Stainless steel shaft
- Footless
- Other mounting configurations
- IP66
- Encoders
- TENV

## Applications:

- Petro Chem
- Flour / feed mills
- Grain elevators
- Fans
- Pumps
- Blowers
- Material handling equipment
- Other applications requiring motors UL or CSA listed for hazardous locations

CSA AND UL APPROVED  
CSA approved - File LR 50962  
Class I, Division I, groups C and D  
Class II, Division I, groups F and G

IEC - Ex Certification Available

UL approved - File E 87848  
Temperature code T3C  
Frame 143T up to 326T  
Class I, Division I, groups C and D  
Class II, Division I, groups F and G

Frame 364T up to 586/7  
Temperature code T3C  
Class I, Division I, groups C and D  
Class II, Division I, groups F and G\*  
\* For group G, Service Factor 1.0



# Fractional Explosion Proof - Three Phase

Great complement to our integral explosion proof offering, allowing us to come to customers with complete solution.

## Standard Features:

- Class F insulation
- 50°C ambient temperature rating
- 1.0 service factor
- Foot mount motors with and without C-flange
- IP 55 rating
- Class I - Group C & D and Class II - Groups E, F & G – T3C
- Thermally Protected
- Three-Phase motors also rated for 50Hz
- Long leads for remote wiring
- Unassembled aluminum conduit box included
- Aluminum endshields



## Single-Phase motors

- 2-Pole - from 1/3HP to 2HP
- 4-Pole – from 1/3HP to 1.5HP
- 1/3HP 4-Pole is TENV
- All others are TEFC

## Three-Phase motors

- 2-Pole - from 1/3HP to 2HP
- 4-Pole – from 1/3HP to 2HP
- 1/3HP 2 & 4-Pole are TENV
- All others are TEFC

## Now available in Jet Pump 56J

### Single-Phase motors

- 2-Pole - from 1/2HP to 1.5HP
- TEFC

### Three-Phase motors

- 2-Pole - from 1/2HP to 2HP
- TEFC



WEG's scope of solutions is not limited to the products and solutions presented in this brochure.

**Contact WEG for information on additional products and solutions.**

**For WEG's worldwide operations visit our website**



**[www.weg.net](http://www.weg.net)**



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Information contained herein is subject to change without notice.