Explosion Proof Motors

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

For detailed specifications, data sheets, drawings and performance curves visit [http://www.weg.net](http://www.weg.net)

Data subject to change without notice.
WEG Electric Corp. offers the following products, and more! With a full range of IEC/NEMA Global Certifications and a full line of products, WEG can supply the right solution for your needs anywhere in the world. To learn more about WEG’s products and solutions or to locate a Distributor near you, please call 1-800-ASK-4WEG or visit www.weg.net.

**Low Voltage Motors,**
**Single and 3-Phase, 1/8 ~ 700HP**
- General Purpose Motors
- Explosion Proof Motors
- Crusher Duty Motors
- IEC Tru-Metric Motors
- Pump Motors including JP/JM
- P-Base Pump Motors
- Oil Well Pumping Motors
- Pool & Spa Motors
- Brake Motors
- Compressor Duty Motors
- Farm Duty Motors
- Poultry Fan Motors
- Auger Drive Motors
- IEEE 841 Motors
- Stainless Steel Wash Down Motors
- Saw Arbor Motors
- Cooling Tower Motors
- Commercial HVAC Motors
- Pad Mounted Motors
- Vector Duty Motors

**Large Electric Motors**
- Low Voltage 3-phase motors up to 2,500HP
- Motors up to 70,000HP and 13,200V
- Wound Rotor Systems (including starters) up to 70,000HP and 13,200V
- Synchronous Motors up to 70,000HP and 13,200V
- Explosion proof motors (Ex-d) up to 1,500kW and 11kV
- Ex-n, Ex-e, Ex-p motors

**Variable Frequency Drives**
- Low Voltage 1/4 to 2500HP, 230V ~ 480V
- Medium Voltage 500-8000HP
- Multi-pump systems
- NEMA 4X
- Dynamic braking resistors
- Line and load reactors
- Plug and play technology
- Network communications: Profibus-DP, DeviceNet, Modbus-RTU
- PLC functions integrated
- Complete line of options and accessories

**Soft Starters**
- 3-1500HP
- Oriented start-up
- Built-in bypass contactor
- Universal source voltage (230-575V, 50/60Hz)
- Network communications: Profibus-DP, DeviceNet, Modbus-RTU
- Complete Line of options and accessories
- MV Soft-starter 3,3kV, 4,16kV: up to 3500HP, Withdrawable Power Stacks, & 8x PT100 Temperature monitoring

**Controls**
- Mini – Contactors
- IEC Contactors
- Thermal Overload Relays
- Manual Motor Protectors
- Molded Case Circuit Breakers
- Smart Relays
- Enclosed Starters: combination & non-combination,
- Pushbuttons & Pilot Lights
- Timing & Motor Protection Relays
- Terminal Blocks

**Custom Panels**
- Custom configured to your specification.
- NEMA 1, 12, 3R, 4 and 4X cabinets
- Quick delivery of preconfigured drives and soft starters
- UL 508 certified
- Low Voltage (230-460)
- Made in the U.S.A.

**Generators**
- Brushless Synchronous Generators for diesel gen-sets up to 4,200kVA
- Hydro-generators up to 25,000kVA
- Turbo-generators up to 62,500kVA

**Power Transformers**
- Built and engineered in North America
- Voltages < 500kV
- Ratings 5-300MVA
- Station class, oil filled, round core, copper windings
- Special configurations and designs available!
- Ask your WEG Sales Representative for details.
- Designed, built, and engineered to ANSI standards.

**Custom Solution Package Sales**
- WEG can package any of its products for ease of sale! Enjoy a single point of contact for the entire package of products and assistance from quote through after-sales support. Ask your WEG Sales Representative for details.

Please contact your authorized distributor: