LARSON ELECTRONICS®



Explosion Proof Motors

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

US.Explosion.Proof.2018

Explosion Proof - Three Phase

Three Phase

Foot Mount and Flange Mount



The Larson Electronics 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. Larson Electronics Explosion Proof motors are specifically designed to meet or exceed all North American requirements for energy efficiency.

C US

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' (80ºC) FL
- Service factor: 1.15
- Inverter Duty
- NEMA dimensions
- NEMA ratings design 'B'
- Continuous Duty (S1)
- 55º ambient @ 1.0SF through 150hp 2 and 4 pole
- 104ºF (40ºC) 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: Expoxy 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 CSA listed for hazardous locations

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

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

Data subject to change without notice.

The Larson Electronics EXP-MTR Explosion Proof Motor is recommended for use in Class I, Division 1 Groups C, D and Class II, Division 1 Groups F, G rated work sites. This Class F insulation rated explosion proof motor features a NEMA 56 motor and can be installed with industrial systems via an integrated mounting foot.

WIRING

The EXP-MTR comes with 24" of +2/-0 leads for electrical connections and an unassembled aluminum conduit box.

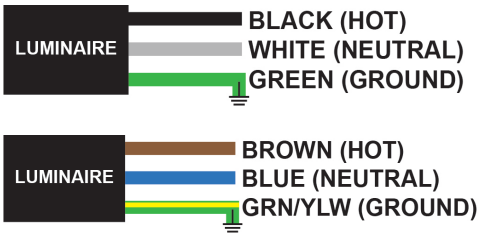
Standard pigtail(flying leads) wiring

We strongly encourage a licensed electrician install this product, in all locations especially in outdoor areas where weatherproofing may be required. Universal voltage driver permits operation at 460V AC.

Warning: *Check product label for correct input voltage!*

Attach supply line wires to the appropriate light fixture wires as shown in the diagram ➔

Secure each pair of wires according to the diagram. Utilize a junction box or similar device and take precautionary steps for weatherproofing all connections if installed in a location where water may come in contact with the unit. Ensure the unit is properly grounded and that wiring is done according to all local and national electrical/building codes.



MOUNTING

The EXP-MTR is foot mounted for supporting the motor`s weight for sturdy, secure installations. Feet components are typically fixed on the surface, which reduces unnecessary movements during operation.

MAINTENANCE

There are no serviceable parts inside the fixture. However, it is good practice to routinely clean and check the fixture for proper function.

USE AND CARE

Unauthorized modification may impair the function and/or safety of this device and could affect the life of the equipment. Always check for damaged or worn out parts before using the device. Store it in a secure place out of the reach of children when not in use. Inspect for good working condition prior to storage and before re-use.

REPLACEMENT PARTS

The EXP-MTR is designed to provide years of reliable performance. Should the need for replacement parts arise, please contact Larson Electronics.

THESE INSTRUCTIONS MAY NOT COVER ALL DETAILS OR VARIATIONS OF THIS PRODUCT FOR YOUR EQUIPMENT OR INSTALLATION REQUIREMENTS. SHOULD FURTHER INFORMATION NOT COVERED BY THESE INSTRUCTIONS BE REQUIRED, PLEASE CONTACT LARSON ELECTRONICS BY EMAIL AT SALES@LARSONELECTRONICS.COM OR BY PHONE AT 1-800-369-6671 FOR FURTHER ASSISTANCE.

PLEASE VISIT LARSONELECTRONICS.COM FOR **WARRANTY** AND **RETURN** INFORMATION.