Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

EXP-MTR-1P-230-1HP-3.6K-56

1 HP Explosion Proof Motor - Class I, II - 230V 1PH 60 Hz - 3450 RPM - Foot Mount - T3B

Product ID: 154545

Please see last page for supporting documentation for this product(certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

EXP-MTR-1P-230-1HP-3.6K-56 Explosion Proof Motor
Dimensions: 13.04" x 6.92" x 6.98"
Weight: 32 lbs
Phase: Single Phase
Voltage: 230V AC
Frequency: 60 Hz
Poles: 2
Output Horsepower: 1 HP
Kilowatt: 0.75 KW
Rotations per Minute: 3450 RPM
Torque: 1.5 lb. ft.
Locked Rotor Torque: 150%
Break Down Torque: 250%
L.R. Time: 4s
Inertia: 0.01495 sq. ft. lb.
Motor Frame: NEMA 56
Full Load Amps: 5.3 FLA
No Load Current: 2.9A
Locked Rotor Current (II/In): 6.5
Efficiency: 72.8 (100%), 71 (75%), 65 (50%)
Power Factor: 0.83 (100%), 0.77 (75%), 0.67 (50%)
Service Factor: 1

Ratings
Listed for United States & Canada
Class I, Divisions 1&2 Groups C,D
Class II, Divisions 1&2 Groups E,F,G
T3B Temperature Rating
IP55
TEFC Cooling
Aluminum Endshields

Insulation: Class F

Noise: -

Ambient Temperature Rating: 50°C

Materials: Aluminum

Mount: Foot Mount

Wiring: 24" (+2/-0) Leads

Color: Black

Special Orders - Special Requirements
Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-498-3364

E-mail: sales@larsonelectronics.com

The Larson Electronics EXP-MTR-1P-230-1HP-3.6K-56 Explosion Proof Motor is recommended for use in Class I, Divisions 1 & 2 Groups C, D and Class II, Divisions 1 & 2 Groups E, F, G rated work sites. The 1 HP unit is compatible with 230V AC single phase 60 Hz and offers 5.3 FLA. This Class F insulation rated explosion proof motor features a NEMA 56 motor and can be installed with industrial systems via an intregrated mounting foot.

The EXP-MTR-1P-230-1HP-3.6K-56 is a fractional explosion proof motor for flammable work sites. This thermally protected unit operates with 230V AC single phase 60 Hz. The 1 HP motor offers 5.3 full-load amps and 2.9 amps of no-load current. Capable of generating 3,450 RPM, the unit provides 1.5 lbs. ft. of torque, with 150% locked rotor torque and 250% break down torque. This motor is totally enclosed and fan-cooled (TEFC).

The IP55-rated explosion proof motor features an ambient temperature rating of 50°C. Equipped with aluminum endshields, this unit is protected by a NEMA 56 motor frame and features Class F insulation, with 1.0 service factor.

Wiring: The EXP-MTR-1P-230-1HP-3.6K-56 comes with 24" of +2/-0 leads for electrical connections and an unassembled aluminum conduit box.

Mount: The EXP-MTR-1P-230-1HP-3.6K-56 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.

Applications: Hazardous locations, industrial facilities, pumps, mixers, conveyors, manufacturing, food processing, chemical plants and more.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

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Frequently Asked Questions (FAQ)

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Export Control Classification Number (ECCN): EAR99

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Links (Click on the below items to view):

- **HigResPic1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**