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EXP-MTR-1P-12VDC-1HP-1.8K-56HC

1 HP Explosion Proof Motor - Class I, II - 12V DC - 1700 RPM - C-Frame/Foot Mount - NEMA 56HC

Product ID: 269205

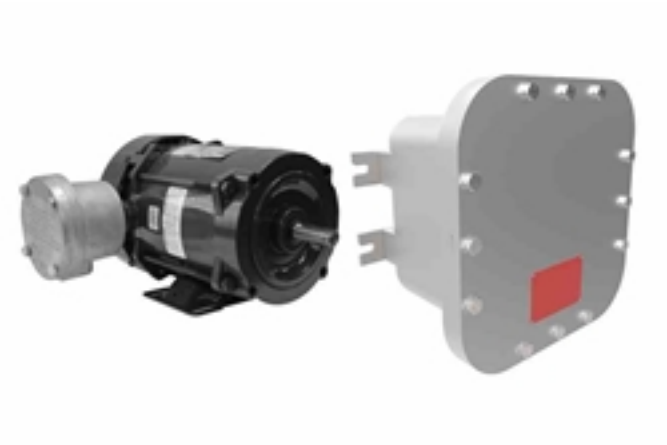


Image: EXP-MTR-1P-12VDC-1HP-1.8K-56HC

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.

Match EXP-MTR-1P-115-1HP-1.8K-56 for lines Poles through Power Factor
Motor Dimensions: 14.54" x 6.92" x 6.98"
Box Dimensions: 12" x 12" x 8"
Weight: -
Phase: -
Voltage: 12V DC
Frequency: -
Poles: -

Output Horsepower: 1 HP

Kilowatt: 1.5 KW

Rotations per Minute: 1700 RPM

Torque: 3 lb. ft.

Locked Rotor Torque: 120%

Break Down Torque: 250%

L.R. Time: 4s

Inertia: 0.02254 sq. ft. lb.

Motor Frame: NEMA 56HC

Full Load Amps: 9.8 FLA

No Load Current: 4.4A

Locked Rotor Current (Il/In): 6.5

Efficiency: 78.1 (100%), 77 (75%), 74 (50%)

Power Factor: 0.85 (100%), 0.80 (75%), 0.70 (50%)

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

Service Factor: 1

Insulation: Class F

Noise: -
Ambient Temperature Rating: 50°C
Materials: Aluminum
Mount: C-Frame/Foot Mount
Wiring: 12" (+2/-0) Leads
Color: Black

Special Orders- Requirements
Contact us for special requirements
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The Larson Electronics EXP-MTR-1P-12VDC-1HP-1.8K-56HC 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 12V DC and offers 9.8 FLA. This Class F insulation rated explosion proof motor features a NEMA 56HC motor frame and can be installed with industrial systems via an integrated mounting foot.

The EXP-MTR-1P-12VDC-1HP-1.8K-56HC is a fractional explosion proof motor for flammable work sites. This thermally protected unit operates with 12V DC. The 1 HP motor offers 9.8 full-load amps and 4.4 amps of no-load current. Capable of generating 1,700 RPM, the unit provides 3 lbs. ft. of torque, with 120% 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 56HC motor frame and features Class F insulation, with 1.0 service factor.

Wiring: The EXP-MTR-1P-12VDC-1HP-1.8K-56HC comes with 12" of +2/-0 leads for electrical connections and an unassembled aluminum conduit box.

Mount: Match EXP-MTR-1P-230-2HP-3.6K-56HC

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)

There are no Faqs