

EXP-MTR-3P-460-500HP-0.9K-568.7

500 HP Explosion Proof Motor - Class I, II - 460V 3PH - 900 RPM - Foot Mount - 568/7 Frame

Product ID: 265403

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-3P-460-500HP-0.9K-568.7 Flameproof Motor

Listing: NRTL Listed for European Union, International

Dimensions: 61.38" x 30.7" x 34.71"

Weight: 4761 lbs

Phase: Three Phase

Voltage: 460V AC

Frequency: 60 Hz

Poles: 4P

Output Horsepower: 500 HP

Kilowatt: 370 kW

Rotations per Minute: 900 RPM

Motor Frame: 568/7T

Slip: 0.56%

Rated Current: 568A

LR Amps: 3578A

LRC: 6.3x

No Load Current: 140A

Rated Torque: 1450 ft lb

Locked Rotor Torque: 210%

Breakdown Torque: 229%

Locked Rotor Time: 45s (Cold), 25s (Hot)

Moment of Inertia (J): 256 sq.ft.lb

Duty Cycle: Cont. S1

Ratings

ATEX/IEC Rated Flameproof Motor

IEC Ex Zone 1, Groups IIA and IIB, T4

IEC Ex Zone 2, Groups IIA and IIB, T4

Ex II 2G Ex db IIB T4 Gb

T4 Temperature Rating

TEFC Cooling

IP55

Suitable for VFDs, Wye/Delta Start

Gasketed Conduit Box

CE Certified

Starting Method: Direct on Line

Altitude: 1000 masl

Enclosure: IC411 - TEFC

Rotation: Both (CW and CCW)

Noise Level: 83 dBA

Service Factor: 1.00

Insulation: Class F (Class H Impregnated Resin/Magnet Wire)

Design: B

Nameplate: Stainless Steel, Laser Etched w/ High Contrast Background

Ambient Temperature Rating: -20°C to +40°C

Temp Rise: 105 K

Materials: Cast Iron, Aluminum, Carbon Steel

Mount: Foot Mount (F3 Standard)

Wiring: 24" (+2/-0) Leads, Gasketed Conduit Box

Color: Blue

Special Orders - Special Requirements

Contact us for special requirements

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The Larson Electronics EXP-MTR-3P-460-500HP-0.9K-568.7 Flameproof Motor is recommended for use in explosive work sites. The 500 HP unit is compatible with three-phase 460V AC, 60 Hz and offers 568 amps. This ATEX/IECex rated motor features a 586/7T motor frame and can be installed with industrial systems via an integrated mounting foot.

The EXP-MTR-3P-460-500HP-0.9K-568.7 is a fractional flameproof motor for combustible work sites. This thermally protected unit operates with three-phase 460V AC, 60 Hz. The 500 HP motor offers 568 amps and direct-on-line starting method. Capable of generating 900 RPM, this motor is totally enclosed and fan-cooled (TEFC). The explosion proof motor operates with 96.2% efficiency during use.

Constructed of cast iron, carbon steel and aluminum, the unit contains a stainless steel nameplate (laser etched with high contrast background). The IP55-rated motor features a T4 temperature rating. Equipped with a lip seal on both endshields, this unit is protected by a 586/7T motor frame and features Class F insulation, with 1.00 service factor. The impregnated resin and magnet wire are Class H insulated. This Design-B model is suitable for use with VFDs and applications requiring Wye/Delta start.

Wiring: The EXP-MTR-3P-460-500HP-0.9K-568.7 comes with 24" of +2/-0 leads for electrical connections and a gasketed conduit box. Two, 3" NPT hubs and double grounding lugs are available.

Mount: The EXP-MTR-3P-460-500HP-0.9K-568.7 is foot mounted (F3 standard) 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: ATEX/IEC rated sites, VFDs, Wye/Delta start, industrial facilities, pumps, mixers, conveyors, manufacturing, food processing, chemical plants and more.

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Frequently Asked Questions (FAQ)



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Export Control Classification Number (ECCN): EAR99

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- [HigResPic1](#)
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