

EXP-MTSTR-SF-3P-480V-5HP-7.5A-DCM-4X0.75S

Explosion Proof Soft Starter - Class I, II, III - 5 HP, 7.5 Amps - 480V - 3PH Delta, 3-Wire - 50/60 Hz

Product ID: 267264

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-MTSTR-SF-3P-480V-5HP-7.5A-DCM-4X0.75S Explosion Proof Soft Starter

Listing: NRTL Listed for United States and Canada

Unit Type: Explosion Proof Reduced Voltage Starter

Dimensions: 10.62"L x 5.74"W x 6.29"H

Weight: -

Capacity: 5 HP

Power: 3.75 kW

Voltage: 480V

Phase: 3PH Delta, 3-Wire Configuration

Frequency: 50/60 Hz

Amps: 7.5A (Secondary)

Starting Times: 20x per hour (Maximum)

Adaptive Motor: Squirrel-cage 3PH Asynchronous

Control Modes: Operation Panel Control, Operation Panel + External Control, External Control, External Control + COM Control, Operation Panel + External + COM Control, Operation Panel + COM Control, COM Control, No Start or Stop Operation

Start Modes: Current-limiting to Start, Voltage Ramp to Start, Torque Control + Current-limiting to Start, Torque Control + Voltage Ramp to Start, Current Ramp to Start, Voltage Current-limiting Double Closed-loop Start

Stop Modes: Soft Stop, Free Stop

Vibration: <0.5G

Operating Temp: -30°C - +55°C

Humidity: 90% RH w/o Dew Condensation

Altitude: Below 3,280.84 Feet

Enclosure Material: Copper Free Cast Aluminum (less than 4/10 of 1%)

Hardware Material: Zinc Plated Steel

Ratings

Listed for NEC, CEC, ATEX, and IEC Ex
Class I, Divisions 1 & 2, Groups B, C, D
Class I, Zones 1 & 2, Groups IIB+H2, IIA
Class II, Divisions 1 & 2, Groups E, F, G
Class III, Divisions 1 & 2

NEMA 3R, 4, 7, 9

NRTL Certified to UL 886

NRTL Certified to UL 698

NRTL Certified to UL 1203

NRTL Certified to CSA C22.2 No 3

Ex d IIB + H2 T5 or T6

Ex tD A21 IP66 Tamb + 60°C

NRTL Certified to IEC 60079

NRTL Certified to EN 60079

Special Orders - Special Requirements

Contact us for special requirements

Enclosure Finish: Aluminum Lacquer Paint; Custom Available
Mounting: Surface Mount Legs
Mount Leg Height: 0.25"
Hubs: (4) 3/4" NPT

Toll Free: 1-800-369-6671
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Made in the USA

The Larson Electronics EXP-MTSTR-SF-3P-480V-5HP-7.5A-DCM-4X0.75S Explosion Proof Soft Starter provides reduced voltage starting solutions for industrial equipment in Class I, III and III rated environments. This 5 HP unit offers compatibility with 480V three-phase delta, 50/60 Hz. Multiple start, stop and control modes are available during use. Operators can mount the unit on surfaces, via four mounting legs at the back of the enclosure.

The EXP-MTSTR-SF-3P-480V-5HP-7.5A-DCM-4X0.75S is an explosion proof reduced voltage starter, which can be used to soft start and preserve industrial motors inside combustible sites. This 5 HP unit is compatible with 480V three-phase delta, 50/60 Hz. The 7.5-amp soft starter is equipped with a squirrel-cage three-phase asynchronous motor. Starting times should not exceed 20 attempts per hour.

This reduced voltage starter is protected by a copper-free aluminum enclosure with an aluminum lacquer paint finish. A weatherproof gasket enable the NEMA 3R/4 rated device to be used in both indoor and outdoor hazardous locations. The presence of corrosive gas or conductive heat may hinder the performance of the soft starter. The EXP-MTSTR-SF-3P-480V-5HP-7.5A-DCM-4X0.75S is designed for use at altitudes below 3,280.84 feet (1,000 meters). Above this range, the rate of power must be increased during operation.

The explosion proof soft starter features the following operating modes and protective functionalities:

- **Start Modes:** Current-limiting to Start, Voltage Ramp to Start, Torque Control + Current-limiting to Start, Torque Control + Voltage Ramp to Start, Current Ramp to Start, Voltage Current-limiting Double Closed-loop Start
- **Stop Modes:** Soft Stop, Free Stop
- **Control Modes:** Operation Panel Control, Operation Panel + External Control, External Control, External Control + COM Control, Operation Panel + External + COM Control, Operation Panel + COM Control, COM Control, No Start or Stop Operation
- **Protective Functions:** Open Loop Protection for External Instantaneous Stop Terminals, Over-heat Protection for Soft Starter, Protection for Long Starting Time, Input Open Phase Protection, Output Open Phase Protection, Unbalanced Three-phase Protection, Starting Over Current protection, Running Overload Protection, Under Voltage Protection for Power Voltage, Over Voltage Protection for Power Voltage, Protection for Fault Parameter Setting, Load Short Circuit Protection, Auto Restart or Incorrect Wiring Protection, Incorrect Wiring Protection of External Control Stop Terminals

Hubs: This explosion proof unit comes with four 3/4" NPT hubs.

Mount: The EXP-MTSTR-SF-3P-480V-5HP-7.5A-DCM-4X0.75S can be securely mounted on surfaces using four mounting legs located at the back of the enclosure.

Applications: Hazardous locations, flammable environments, combustible systems, industrial motors, overload protection, reduced voltage starter, equipment preservation, pumps, manufacturing belts, inrush control, power monitoring 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

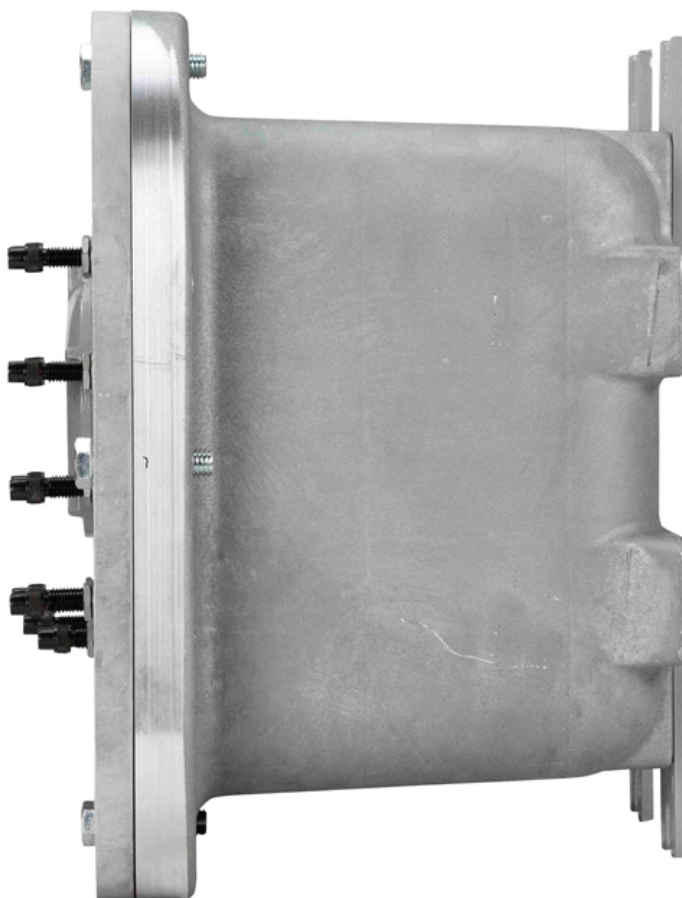
accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

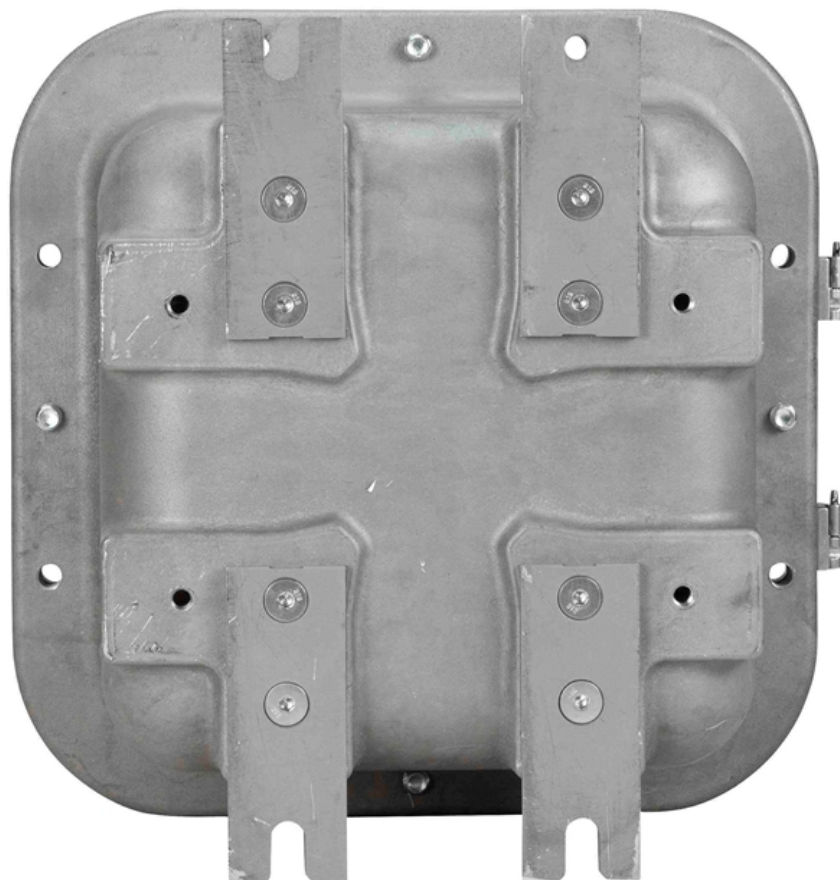


Frequently Asked Questions (FAQ)











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Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

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