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MTSTR-3P-480-300HP-440A-DCM

220kW Soft Starter - 300 HP, 440 Amps - 480V (430-525V) - 3PH Delta, 3-Wire - 50/60 Hz

Product ID: 150606



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.

MTSTR-3P-480-300HP-440A-DCM Soft Starter
Unit Type: Reduced Voltage Starter
Dimensions: 20.6" x 10.1" x 7.6"
Weight: 46.2 lbs

Capacity: 300 HP

Power: 220 kW

Voltage: 480V Nominal (430V-525V)

Phase: 3PH Delta, 3-Wire Configuration

Frequency: 50/60 Hz

Amps: 440A (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: -30C - +55C

Humidity: 90% RH w/o Dew Condensation

Altitude: Below 3,280.84 Feet

Mount: Wall or Surface

Color: Grey

Features/Ratings
IP20 Enclosure
Digital Panel Interface
Protective Functions

Special Orders- Requirements
Contact us for special requirements

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The Larson Electronics MTSTR-3P-480-300HP-440A-DCM Soft Starter provides reduced voltage starting solutions for industrial equipment. This 300 HP unit offers compatibility with 480V (nominal, range of 430V-525V) three-phase delta, 50/60 Hz. Multiple start, stop and control modes are available during use, via a digital panel. Operators can mount the unit on walls or surfaces, via four screw holes at every corner of the soft starter.

The MTSTR-3P-480-300HP-440A-DCM is a reduced voltage starter, which can be used to soft start and preserve industrial motors. This 300 HP unit is compatible with 480V (nominal, range of 430V-525V) three-phase delta, 50/60 Hz. The 440-amp soft starter is equipped with a squirrel-cage three-phase asynchronous motor. Starting times should not exceed 20 attempts per hour.

The reduced voltage starter is protected by an IP20-rated enclosure. Cooling is provided by natural wind, making the unit suitable for indoor locations with adequate ventilation. The presence of corrosive gas or conductive heat may hinder the performance of the soft starter. The MTSTR-3P-480-300HP-440A-DCM 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 industrial 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, Overvoltage 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

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Mount: The MTSTR-3P-480-300HP-440A-DCM can be securely mounted on walls or surfaces. Four screw holes at every corner of the unit available for seamless mounting.

Applications: 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.


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Frequently Asked Questions (FAQ)