

MTSTR-MV-3P-2400V-250A-V1

Medium Voltage Soft Starter - 250A - 2400V 3PH 60Hz - 500-1000 HP

Product ID: 326503

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



Image: MTSTR-MV-3P-2400V-250A-V1

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-MV-3P-2400V-250A-V1 Medium Voltage Soft Starter

Unit Type: Medium Voltage Soft Starter

Load Type: Three-phase medium voltage squirrel cage asynchronous and synchronous motors

Control Type: Non-ground referenced control with redundant start capability

Control Method: Fiber optic controlled system – corona effect free operation

Dimensions: 31.5" x 59" x 90.5"

Weight: 1,873.93 lbs

Rated Power: 500-1000 HP (373–745.7 kW)

Nominal Voltage: 2400V

Rated Voltage: 2.4 kV $\pm 15\%$

Control Circuit Voltage: 220VAC $\pm 15\%$

Phase: Three-Phase

Mutually Phase Sequence: Any

Bypass Contactor: Included, Contactor with direct starting capacity

Frequency: 60 Hz $\pm 2\text{HZ}$

Current Rating: 250A

Current Limiting Multiple: 100%~500% adjustable

Starting Frequency: 1-6 times (hourly)

Start Timeout: 0~120S

Features/Ratings

Digital Panel Interface w/ Keypad

Protective Functions

Communication Protocol: Modbus

Communication Interface: RS485

LCD Display: Included

Keyboard: 6 touch-sensitive membrane buttons

Metering: Included, 3-Ph Voltage/Current Meter

Fault Record: Records the latest 15 fault information

Protection: Phase loss protection (During starting or operation, disconnect any phase of the main power supply), Overcurrent protection (Adjustable setting: $20 \square 500\% I_e$), Phase current unbalance protection ($0 \square 100\%$), Overload protection (Adjustable levels 10A, 10, 15, 20, 25, 30), Underload protection (Adjustable level: $0 \square 99\%$), Underload protection action time (Adjustable time: 0~250S), Overvoltage protection (When the main power supply voltage is higher than 120% of the rated value), Under voltage protection (When the main power supply voltage is lower than 70% of the rated value), Phase sequence protection (Allows operation in any phase sequence (can be set by parameters)), Grounding protection (Protection when ground current is greater than the set value)

Status Indicators: LEDs (Power, Run, Alarm, Trip, Aux Relays)

Cable Entry: Bottom Entry

Cabinet Color: RAL7035

Cabinet Rating: NEMA 3

Operating Temperature Range: -20°C ~+50°C

Humidity: 5-95% RH/NC

Elevation: 0-4,920 Feet w/o Derating

Vibration: < 0.5G

Mount: Floor Mount

Wiring: Terminals

Special Orders - Special Requirements

Contact us for special requirements

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The Larson Electronics MTSTR-MV-3P-2400V-250A-V1 Medium Voltage Soft Starter provides reduced voltage starting solutions for industrial equipment. This unit offers compatibility with 2400V three-phase 60 Hz systems and supports motors ranging from 500 to 1000 HP. The solid-state design incorporates non-ground referenced control, redundant start capability, and fiber optic control for safe, noise-immune operation. Overload, overcurrent, phase imbalance, renentive thermal memory, load loss, coast-down lockout timer, and starts-per-hour lockout timer protection are provided by the device. Equipped with a control voltage of 220VAC, the 1000 HP unit is designed for floor mounting applications.

The MTSTR-MV-3P-2400V-250A-V1 is a solid-state medium voltage reduced voltage starter, which can be used to soft start and preserve industrial motors operating at medium voltages. This 3-wire unit is compatible with 2400V three-phase 60 Hz power systems. The soft starter includes a bypass contactor with direct starting capacity and features a corona-free insulation system using epoxy-resin encapsulated components and shielded copper busbars. Operators can access an LCD alphanumeric display with six touch-sensitive membrane buttons for easy setup and control. A total of twelve LEDs serve as status indicators for real-time monitoring, while fault records store the latest 15 events for data logging.

The reduced voltage starter is protected by a heavy-duty enclosure. Cooling is provided by forced natural wind, making the unit suitable for locations with adequate ventilation. The presence of corrosive gas or conductive heat may hinder the performance of the soft starter. Recommended environments include: 5-95% non-condensing humidity, locations with vibrations less than 0.5G and elevations between 0-3,330 feet (w/o derating).

Mount: The MTSTR-MV-3P-2400V-250A-V1 can be securely mounted on floor.



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.



Frequently Asked Questions (FAQ)

There are no Fags



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