



MOTORTRONICS™

Solid State AC Motor Control

Msmart

MV addendum w/MVC4-TCB



GEN 3 224R2

1. About Msmart

1.1 General / Features

Msmart is a unified screen for all Motortronics products and consists of an active touch screen / information display. In addition, Msmart supports multiple languages and supports dedicated information and graphs for each product. Msmart also has built-in an auto sleep function with wake-up on motion.

Features

- Color Touch Panel
- Hardware Pushbuttons for Harsh Environments
- Auto Sleep Function with Motion Sensing
- Support for 6 Languages
- Unified Touchscreen for all Motortronics Products
- Virtual MVC Keypad

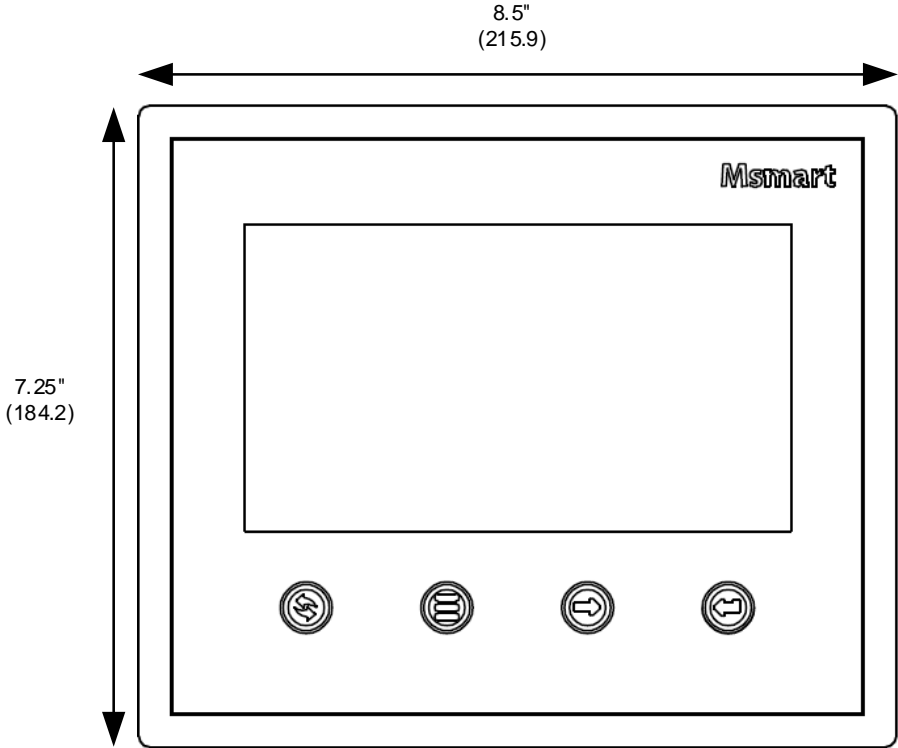
Available Information / Graphs

- Operation Status
- Starting Current Graph
- Bar Graph for RTD Temperatures
- Three Phase Voltage / Current Information
- Relay Status
- RX and TE-RTD12 Interface

Compatible with

- MVC4 Medium Voltage Soft Starter
- VMX Low Voltage Solid State Soft Starter
- VMX S.A.F.E. Series
- VMX NEMA Series
- VMX-synergy Series
- RX Series Motor Protection Relay
- TE-RTD12 Motor RTD Relay

1.2 Dimensions



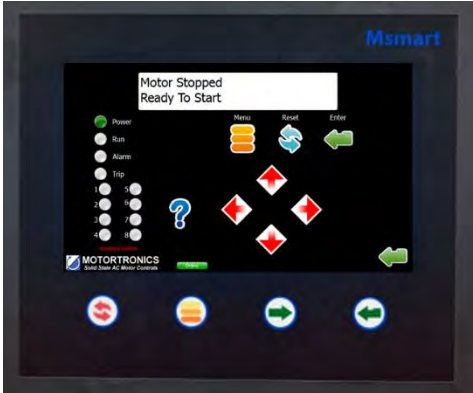
8.5" x 7.25" x 1.75" (H x W x D)
215.9 mm x 184.3 mm x 44.5 mm (H x W x D) (mm)

#2 Virtual Keypad/Operator Interface

The virtual keypad/ operator interface consists of:

- 2 rows of 20 characters
- 12 indicator LEDs
- 8 buttons

Note: The soft starter is menu driven and there are three levels of programming. The programming for two of these levels is password protected. Level two requires a three-digit password and level three requires a four-digit password.



Virtual Keypad Operator designations and functions

ITEM	DESIGNATION	DESCRIPTION
KEY	MENU	Toggle between the menu selection for metering and set point pages.
	RESET	Will clear the trip indicator and release the trip relay.
	ENTER	Pressing the ENTER button once enters the EDIT mode where set point values can be changed. An "Asterisk" will appear on the display to indicate it is in the edit mode. After a set point value is changed, pressing the ENTER button again will save the revised value to memory and the asterisk will go off indicating the change has been saved. When not in the edit mode, the ENTER pushbutton will toggle through the event indicator list (such as alarms or trips)
	HELP	Provides general help information about a specific set point or action.
	UP ARROW	Will scroll up through the set point and metering menu page. It will scroll to the top of the set point page or a section. In edit mode it will increase a set point in an incremental step or toggle through the available options in the set point.
	RIGHT ARROW	In the main menu the RIGHT ARROW button provides access to the set point page. For set point pages with multiple columns, the RIGHT ARROW will scroll the set point page to the right. When in edit mode it will shift one character to the right.
	DOWN ARROW	Will scroll down through the set point pages and down through the set points. In edit mode, it will decrement through values and toggle available options in the set point.
	LEFT ARROW	Will move to the left through set point pages with multiple columns. When in edit mode it will become the backspace key and will shift one character to the left.
LED	POWER	Indicates control power is present
	RUN	Indicates unit/motor is running
	ALARM	Lights in conjunction with Relay AUX 2 to indicate an Alarm event or warn of possible critical condition.
	TRIP	Lights in conjunction with Relay AUX 1 to indicate a Trip condition has occurred.
	AUX 1- 8	Auxiliary relays (Note: Relays 5-8 are available for customer use)

See MVC4 User Manual for details on faults, alarms, monitor and setpoint pages

APPENDIX A: Technical Specifications

Screen Type:	Resistive Touch Screen
Keypad:	4 Membrane Keys
Input Voltage:	5VDC
Average Power Consumption:	3W
Real-time Clock:	Standard
Operating Design Temperature:	32°F – 122°F / 0°C to 50°C
Storage Temperature:	-4°F – 176°F / -20°C to 80°C
Ambient Conditions:	5% to 95% relative humidity 0 – 3300ft (1000m) elevation
Approval:	UR (Recognized component)