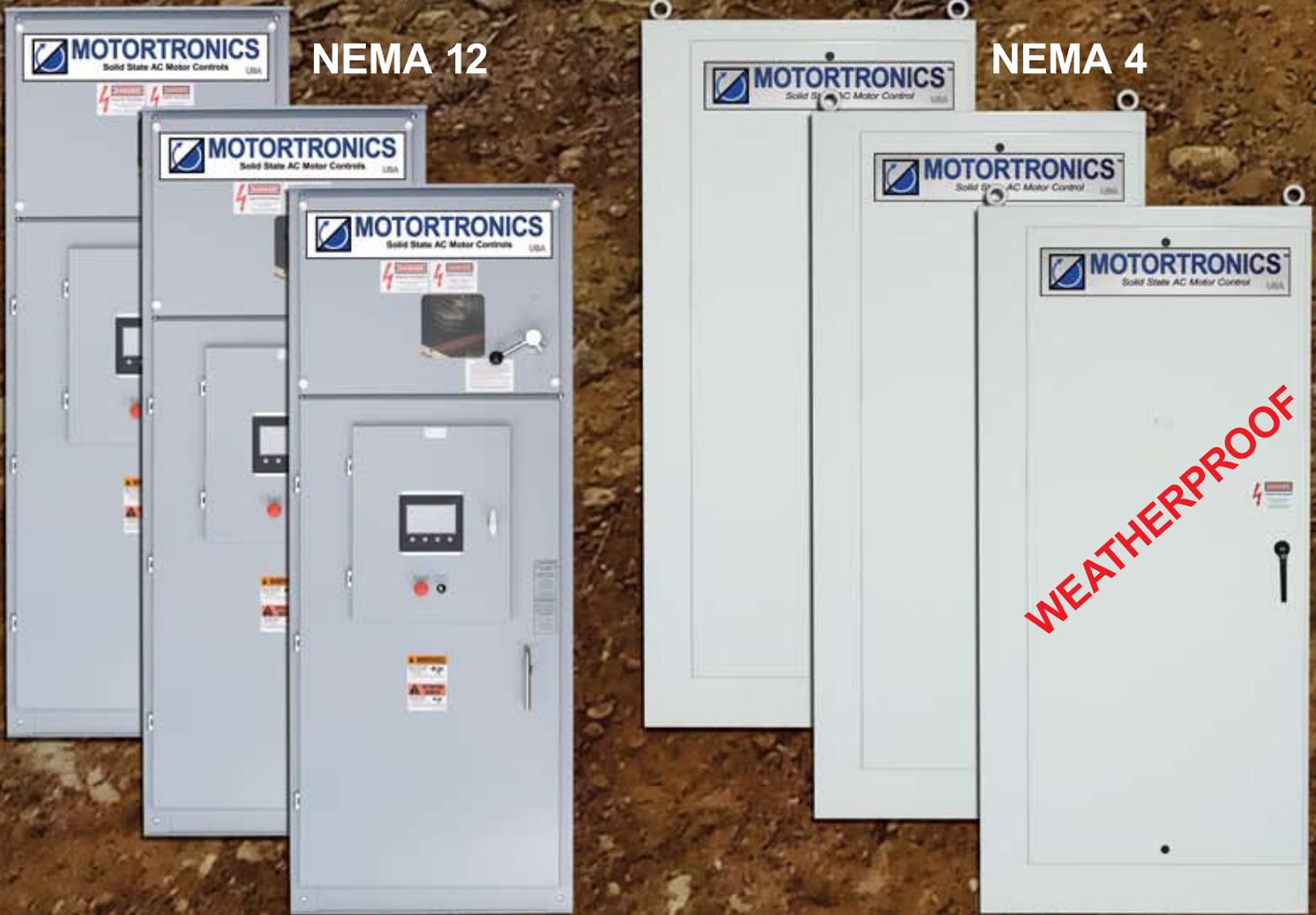


**#1 in the world**

# MVC4

**MEDIUM VOLTAGE SOFT STARTER**

# QUICKSHIP



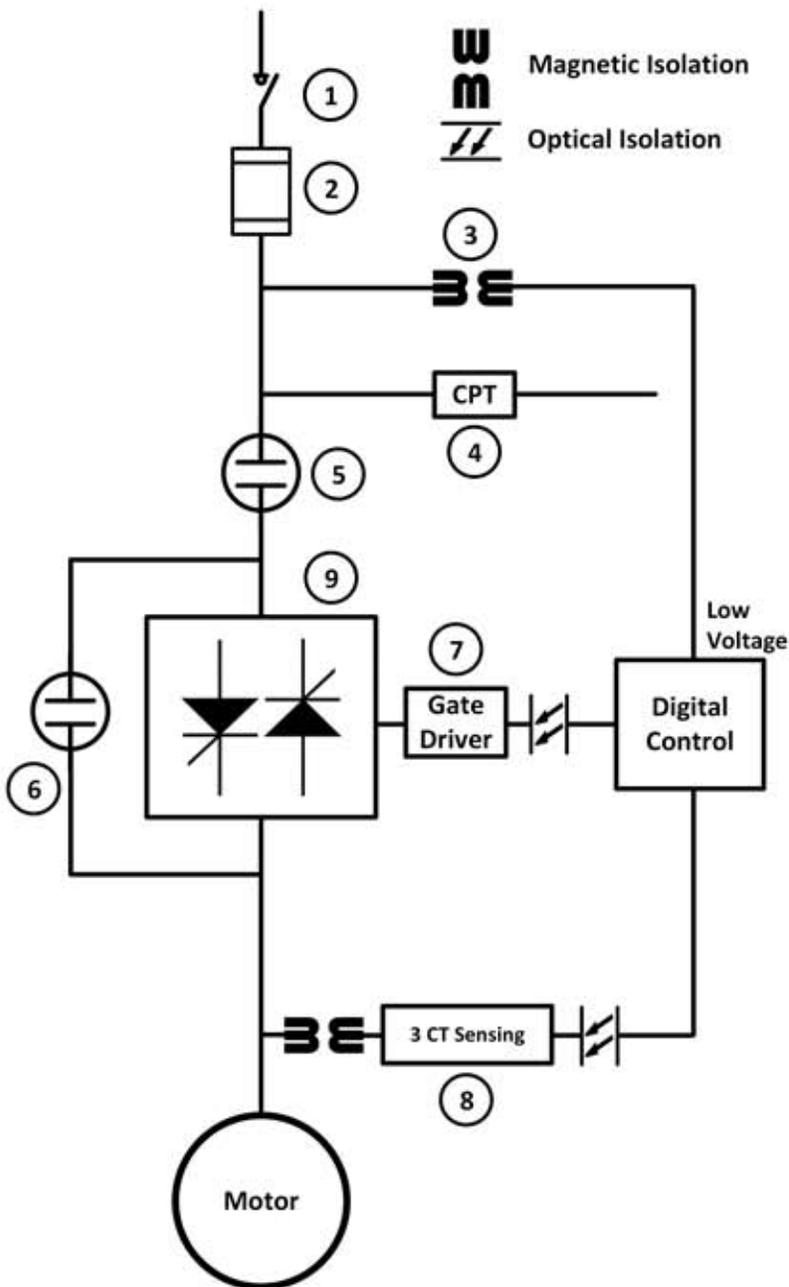
**Order Today, Install Tomorrow**



Motortronics Motor Controls Made Easy

# MVC4 Series Quick Ship Units

## MVC4 Series Line Diagram



Compatible with MVC MLINK Software for start-up.

Modbus RTU communication standard and other industrial communication options available.

# 500%

## Motor Starting Capacity for 60s!

### EMERGENCY FULL VOLTAGE START WITH RX OVERLOAD PROTECTION

1. Load Break / Fault Make Disconnect Switch (Rated 7.2kV / 400A) with Visible Ground Safety Bar
2. Coordinated Motor Fuse Protection
3. Magnetic Isolated PT for Voltage Sensing /60K Bil
4. Control Power Transformer
5. Isolation Contactor Rated for Across the Line Start (Rated 7.2kV / 400A)
6. Bypass Contactor Rated for Across the Line Start (Rated 7.2kV / 400A)
7. Sustained Pulse Fiber Optical Isolated Gate Drive
8. Current Sensing Card  
Fiber Optically Isolated
9. Heavy Duty SCR Stack Assembly  
With Ring Transformer Sustained Pulse Firing

# QUICKSHIP

## Order Today, Install Tomorrow

# Available Models and Standard Features

## NEMA 12 MODELS / 4160V

	Amp Rating	HP	kW
MVC4-41100-ESWG-STK (UL Listed)	100	600	448
MVC4-41200-ESWG-STK (UL Listed)	200	1250	933
MVC4-41400-ESWG-STK (UL Listed)	400	2500	1865

## NEMA 4 MODELS / 4160V (WEATHERPROOF)

MVC4-41200-ESWG-STK-WP (UL Pending)	200	1250	933
MVC4-41400-ESWG-STK-WP (UL Pending)	400	2500	1865

## KEY FEATURES

Load break/fault make disconnect switch  
 RX Motor Protection Relay for Across-The-Line overload protection  
 Soft Start / Across-The-Line selector switch

## TRUE THERMAL MODELING

Monitors the motor for excessive thermal conditions due to starting, running and even ambient conditions.

## THERMAL MODEL BIASING

Adjusts for heating effects of phase current imbalance or optional RTD inputs.

## RETENTIVE THERMAL MEMORY

For continuous overload protection even after a complete Power loss. When power is restored, the **MVC4** remembers the last thermal condition of the motor, observes the off time via a real-time clock and adjusts the thermal model accordingly.

## NON-VOLATILE MEMORY

Stores the thermal memory without the need for batteries.

## TRUE TIME THERMAL TRACKING

Adjusts the thermal model for different cooling rates based on motor temperature, running state or power loss.

## DYNAMIC RESET RESPONSE

Reset is only allowed after the motor has sufficient thermal capacity for a successful restart.

## INCLUDED

## Msmart 7" Color Touchscreen



Msmart is a single interface to commission, start-up and diagnose the MVC4 and auxiliary devices.

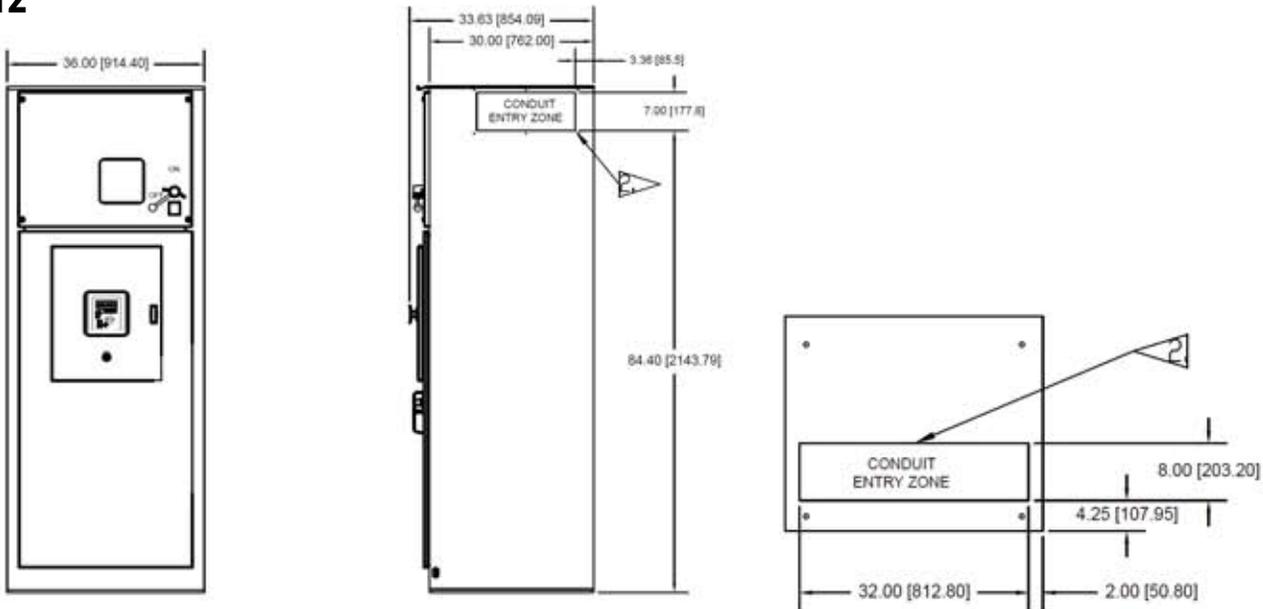
## RX Motor Protection Relay



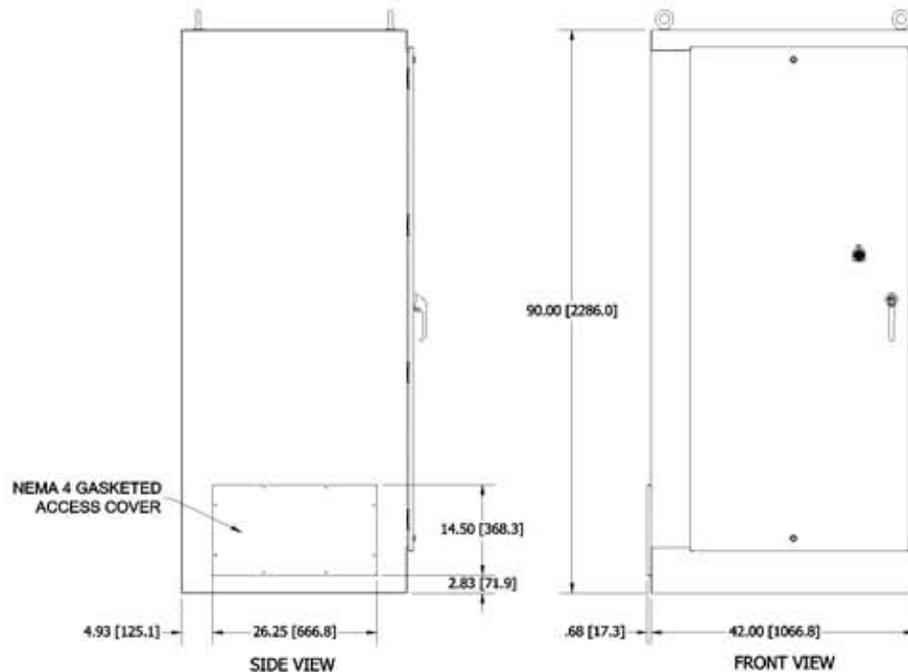
RX Motor Protection Relay for Across-The-Line overload protection included with every MVC4.

# MVC4 Outline Drawings

## NEMA 12



## NEMA 4



### Dimensions

Model Number	Dim. H x W x D inches (mm)
MVC4-41100-ESWG-STK	92.5 x 36 x 30 (2349.5 x 914.4 x 762)
MVC4-41200-ESWG-STK	92.5 x 36 x 30 (2349.5 x 914.4 x 762)
MVC4-41400-ESWG-STK	92.5 x 36 x 30 (2349.5 x 914.4 x 762)
MVC4-41200-ESWG-STK-WP	90 x 42 x 36 (2286 x 1066.8 x 914.4)
MVC4-41400-ESWG-STK-WP	90 x 42 x 36 (2286 x 1066.8 x 914.4)

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