

Medium Voltage Starters Across-the-Line

2300 - 4160 VAC +/-10% • 100 - 2500 HP



Features

- NEMA 1 Enclosure
- 1.5 kVA Control Transformer
- 400 Amp Load-Break Fused Disconnect (grounded in off position) with Viewing Window
- High Voltage Section Isolated from Low Voltage Compartment
- Fused Fixed Vacuum Contactor
- Overcurrent Protection
- Current Imbalance Protection
- Phase Loss Protection
- Mechanical and Electrical Interlocks
- Built-in Run / Test Circuit
- UL/cUL Listed

Mechanical Specifications

Ambient Temperature
0 to 50°C (32-122°F)

Maximum Altitude
0 - 3300 ft (1000m)
(can be derated for higher altitudes)

Control Input
2 or 3 wire control, 120VAC dry contacts

Protective Features
Bi-metallic overload

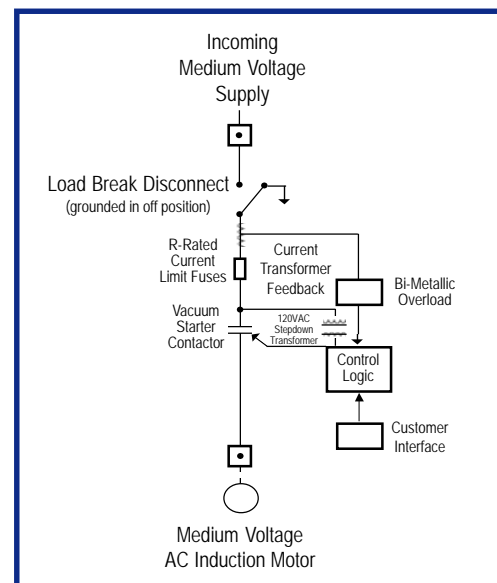
- Free-standing NEMA 1 enclosure with ASA #61 gray paint
- Door interlocks
- Isolated low voltage compartment

Electrical

Electrical Features

Full horsepower rated vacuum starting contactor.

VOLTS	AMPS	HP	KW	MODEL	DIMENSIONS		
					H	W	D
2300	300	1350	1000	MVC-F-1350-23	54	36	26
3300	300	1900	1400	MVC-F-1900-33	54	36	26
4160	300	2500	1800	MVC-F-2500-41	54	36	26



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Medium Voltage Solid State Starters

2300 - 4160 VAC +/-10%
100 - 2250 HP



Features

- Heavy Duty Design:
 - 500% for 30 seconds
 - 300% for 40 seconds
- NEMA 1 Enclosure
- 1.5 kVA Control Transformer
- Fused Fixed Vacuum Contactor
- Overcurrent Protection
- Current Imbalance Protection
- Phase Loss Protection
- Shorted SCR Detection and Shutdown
- Current Limit Control 200-500% FLA
- 400 Amp Load-Break Fused Disconnect (grounded in off position) with Viewing Window
- High Voltage Section Isolated from Low Voltage Compartment
- Mechanical and Electrical Interlocks
- Digital Microprocessor Control with Non-Volatile Memory
- LCD Display with Programming Keypad and Status LEDs
- Built-in Run / Test Circuit
- Modbus Communications
- UL & cUL Listed
- Fiber Optically Controlled SCRs for Noise Immunity

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Nov 06 / Rev 1

Specifications

Input Voltages

2300VAC to 4160VAC +/-10%
50 or 60 Hz

HP Range

100 to 2250 HP

Ambient Temperature

0 to 50°C (32-122°F)

Maximum Altitude

0 - 3300 ft (1000m)
(can be derated for higher altitudes)

Overload Capacity

500% for 30 sec
300% for 40 sec

Control Type

Microprocessor based
Door-mounted keypad with back-lit LCD display
Non-volatile memory

Transient Protection

MOV RC snubber dv/dt network

Control Input

2 or 3 wire control, 120VAC dry contacts

SCR Peak Inverse Voltage

SCR modules capable of a peak incoming line transient equal to 2.5 times RMS line voltage

Adjustable Features

FLA
Current Step or Current Ramp Mode
Controlled Deceleration
Acceleration Time
Modbus RTU/ASCII or Local Control
Stall Time
Jam Current Level
Jam Current Delay
Service Factor
Current Unbalance Level
Current Unbalance Delay
Locked Rotor Current

Protective Features

Electronic Overload
Phase Loss
Phase Reversal
Short Circuit Detection
Shorted SCR
Starter Over Temp
Anti-Recycle Timer

Monitoring Capability

Average Current
Phase Current
Elapsed Run Time
Alarms
Trips
Fault History
Starter Temperature

Electrical

Electrical Features

Vacuum bypass contactor-full horsepower rated
Vacuum input contactor

VOLTS	AMPS	HP	KW	MODEL	DIMENSIONS		
					H	W	D
2300	270	1250	900	MVSA-S-1250-23	90	31	31
3300	270	1750	1300	MVSA-S-1750-33	90	31	31
4160	270	2250	1700	MVSA-S-2250-41	90	31	31

Mechanical

Mechanical Construction

Free-standing NEMA 1 enclosure
with ASA #61 gray paint

Door interlocks

Isolated Low Voltage compartment

Custom Package available

