



MOTORTRONICS™

Solid State AC Motor Control

Low & Medium Voltage

Soft Starters for

Compressor Applications

Lower Your Maintenance Cost and
Reduce Mechanical Stress

Piston Compressors

Screw Compressors

Centrifugal Compressors

Axial Compressors

**Standalone Soft Starters or
Packaged to customer specification**



Low & Medium Voltage Packaged Solutions & Standalone Soft-Starters

Built-in Functions

- Operator Interface, Ramp Control Choices (4)
- Dual Ramps, Jog Function, Kick Start Function
- Pump-Flex™ Deceleration Ramp, Restart Delay Timer
- Time Clock Controller
- RS-485 Serial Communications



VMX-H



MVC4

Low Voltage

Power Components

- 6 SCRs in inverse parallel pairs for full phase angle soft start control (1600V PIV)
- RC snubber for dv/dt protection of each SCR pair

Line Voltage Range

- 200 to 600 VAC, 3 phase +10% -15% , 50/60Hz

Current Ratings

- 18 - 1250A depending on unit selection
- Range of each unit is 50-100% of max current rating

AC Supply Voltage

- User supplied 120VAC +10% -15% tolerance, 60Hz
- Optional 240VAC 50Hz control available

Start/Stop Control Choices

- 2-wire Run-Stop using dry contacts
- 3-wire Start/Stop with built-in seal in contact
- N.C. Interlock input (dry contact) for remote devices



VMX

Medium Voltage

Type of Load

- 3-phase medium voltage AC induction or synchronous motors
- AC Supply Voltage

- 2300, 3300, 4160, 6000/7200V, 11-15kV
- VAC +10% to -15%, 50/60 Hz line voltages

HP Ratings

- Up to 10,000 HP @ 7.2kV (800 Amps)
- Up to 20,000 HP @ 15kV (800 Amps)
- Contact factory for higher rating requirements

Overload Rating

- AC53b 600-30-60m

Power Circuits

- Series strings of SCR power modules (1, 2 or 3 matched pairs of SCRs per phase depending on voltage rating)

SCR Peak Inverse Voltage

Line Voltage	PIV Rating	Line Voltage	PIV Rating
2300	6500	6500	19500
3300	9000	6900-7200	26000
4160	13000	11000	27000
6000	18000	13-15kV	39500

BIL Rating

- 2300V - 7200V 60kV, 11000 - 15000V (110kV)

Transient Voltage Protection

- dv/dt circuits (1 per SCR pair)

Vacuum Bypass Contactor

- Standard on all models, line start rated

CORPORATE HEADQUARTERS

Motortronics / Phasetronics

1600 Sunshine Drive
Clearwater, Florida 33765
Tel: 727.573.1819 or 888.767.7792
Fax: 727.573.1803 or 800.548.4104
E-mail: sales@motortronics.com
www.motortronics.com

INTERNATIONAL LOCATIONS

Motortronics Int'l Korea Co Ltd

601, Daeryung Techno Tower 5-cha
Gasan-dong, Geumcheon-gu
Seoul, Korea 9153-774
Tel: 82-2-867-5808 / Fax: 82-2-867-6004
www.motortronics-korea.com



M & P Machinery & Electronics Control

113 Zaoshan Road
Qingdao, China 266100
Tel: 86-532-87660633
Fax: 86-532-87660733
www.mp-cn.com

PN: MT-COMPRESSOR-033117