



MOTORTRONICS™

Solid State AC Motor Control

Green Energy Management



VMX

Compact soft starter



Ratings from 18 to 1250A
(up to 1200HP)



Reduce mechanical wear and tear, and lower peak energy charges

- Integrated bypass contractor
- Advanced motor protection
- Narrow-width for MCC mounting
- Low-profile for use in pump panels
- Remote keypad mounting
- Unique built-in features



VMX Specifications

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

Ramp Control Choices (4 built-in)

Voltage Ramp
Voltage Ramp with Current Limit
CLT© Closed Loop Torque Ramp (Current Ramp)
Current Step (current limit only)
Ramp times adjustable 1 - 120 seconds
Current Limit adjustable 200 - 600% of FLA

Dual Ramps

Select via dry contact closure between any combinations of the above

Jog

Dry contact closure selects a non-ramping Jog function at an adj. torque level

Kick Start

10 - 100% starting torque for 0.1 - 2 seconds

Pump-Flex™ Deceleration Ramp

Fully adjustable to match field conditions:
Begin Decel setting, 0 - 100% of line voltage
Decel ramp time, 1 - 60 seconds
End Decel setting (Off), 0 - 1% of Begin setting

Restart Delay Timer (Sequential Start Delay)

Programmable time delay 1 - 999 seconds after loss of control power for staggered restarts

Time Clock Controller

24 hour/7 day time clock to provide automatic start
Up to 7 start events per day
Select operation from 1 through 7 days per week
Run time determined by process control timer

RS-485 Serial Communications

Up to 247 starters per link

Process Control Timer (choice of either)

Minimum Run (Batch) Timer (1- 999 minutes)
Runs until time expires, resets only if expired
Resumes and finishes if stopped or power is lost
Permissive Run Timer (1- 999 minutes)
Only allows operation during active run time

Operator Interface

Tactile feedback keypad
Easy to read LED display
Run and fault
Status indicators

World-class motor & system protection...

CORPORATE HEADQUARTERS

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