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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