

25 to 1080A

# VMX-B Plus

## BASIC CONFIGURED SOFT STARTER



- NEMA 4/12 Enclosure
- Start Rated Bypass Contactor
- Available with Circuit breaker or Fused Disconnect
- VMX-Synergy Plus™ Digital Starter
- 120V Control Voltage (CPT included)
- Illuminated E-STOP Pushbutton
- Start/Stop Pushbutton and Motor Run Light Assembly
- Local/Off/Remote Selector
- Across-The-Line Switch
- Fault Light / Reset Pushbutton
- Terminal Strip for Customer Interface
- Surge Device Installed

# VMX-B Plus Command Center

- Emergency Stop Pushbutton
- Start/Stop Pushbutton
- Local / Off / Remote Switch
- Power On Light
- Across-The-Line Switch
- Motor Run Light
- Start Fault / Reset Light
- Check E-Stop Light

## Flexibility of Control

Multiple ramp profiles, Pump-Flex™ Decel and advanced motor protection make the VMX-Synergy Plus™ Series soft starter adaptable to a wide variety of AC motor applications... no need for add-on modules or costly auxiliary devices.

Compact packaging has become critical in more and more electrical installations. The VMX-Synergy Plus™ Series meets this need without compromising features and ratings. By using a highly engineered packaging design and the latest generation microprocessor, all the control and protection features you need are in the VMX-Synergy Plus™ Series. Narrow and shallow dimensions are perfect for integrating the VMX-Synergy Plus™ Series into motor control centers (MCCs), pump control panels, and retrofit starter enclosures.

Integral Start Rated Bypass Contactors are standard on all sizes and provide maximum efficiency of panel space while maintaining the Motortronics reputation for being able to soft start most any load. The VMX-Synergy Plus Series is the only fully integrated, compact, world-class design offering uncompromised power and control capabilities.

| Model Number         | Max Amps | Nominal Motor HP Rating |      |      |       | Fused Switch/<br>Circuit Breaker | Frame Size |
|----------------------|----------|-------------------------|------|------|-------|----------------------------------|------------|
|                      |          | 208V                    | 240V | 480V | 575V  |                                  |            |
| VMX-B-PLUS-21-YY-X   | 25       | 7.5                     | 7.5  | 15   | 20    | 40A FS                           | 1          |
| VMX-B-PLUS-27-YY-X   | 34       | 10                      | 10   | 25   | 30    | 50A FS                           | 1          |
| VMX-B-PLUS-40-YY-X   | 42       | 10                      | 15   | 30   | 30    | 60A FS                           | 1          |
| VMX-B-PLUS-45-YY-X   | 54       | 15                      | 20   | 40   | 50    | 100A CB                          | 1          |
| VMX-B-PLUS-55-YY-X   | 68       | 20                      | 25   | 50   | 60    | 100A CB                          | 1          |
| VMX-B-PLUS-68-YY-X   | 80       | 25                      | 30   | 60   | 75    | 100A CB                          | 1          |
| VMX-B-PLUS-96-YY-X   | 96       | 30                      | 30   | 75   | 75    | 150A CB                          | 1          |
| VMX-B-PLUS-125-YY-X  | 130      | 40                      | 50   | 100  | 75    | 250A CB                          | 1          |
| VMX-B-PLUS-156-YY-X  | 180      | 60                      | 60   | 150  | 150   | 250A CB                          | 2          |
| VMX-B-PLUS-220-YY-X  | 192      | 60                      | 75   | 150  | 150   | 400A CB                          | 2          |
| VMX-B-PLUS-230-YY-X  | 250      | 75                      | 100  | 200  | 250   | 400A CB                          | 2          |
| VMX-B-PLUS-248-YY-X  | 312      | 100                     | 125  | 250  | 300   | 400A CB                          | 2          |
| VMX-B-PLUS-400-YY-X  | 361      | 125                     | 150  | 300  | 300   | 600A CB                          | 2          |
| VMX-B-PLUS-480-YY-X  | 480      | 150                     | 200  | 400  | 500   | 800A CB                          | 2          |
| VMX-B-PLUS-600-YY-X  | 590      | 200                     | 200  | 500  | 600   | 800A CB                          | 2          |
| VMX-B-PLUS-690-YY-X  | 722      | 250                     | 300  | 500  | 600   | 1200A CB                         | 2 ½        |
| VMX-B-PLUS-800-YY-X  | 750      | -                       | 300  | 600  | 600   | 1200A CB                         | 2 ½        |
| VMX-B-PLUS-960-YY-X  | 960      | 300                     | 400  | 800  | 900   | 1200A CB                         | 3          |
| VMX-B-PLUS-1080-YY-X | 1080     | 350                     | 450  | 900  | 1,000 | 1600A CB                         | 3          |



## YY = Line Input Device

MLO = Main Lug only (no disconnect or short circuit protection)  
 FS = Fused Disconnect (with Class J fuses, available on models 21, 27 and 40)  
 CB = Line Circuit Breaker (available on model 45 and above)

## X = Line & Control Voltage (50/60Hz)

1 = 208V, 120V Ctrl.    4 = 480V, 120V Ctrl.  
 2 = 240V, 120V Ctrl.    5 = 575V, 120V Ctrl.

## VMX-B PLUS DIMENSIONS

| Frame Size | NEMA 4/12*     | Dimensions H x W x D                     |
|------------|----------------|------------------------------------------|
| 1          | Wall Mount     | 37" x 15" x 12" (934 x 381 x 305 mm)     |
| 2          | Wall Mount     | 48" x 33" x 16" (1219 x 838 x 406 mm)    |
| 2 ½        | Floor Standing | 87" x 32" x 24" (2210 x 813 x 610 mm)    |
| 3          | Floor Standing | 90" x 39.5" x 24" (2286 x 1003 x 610 mm) |

## VMX-B Plus Series

### NOTES:

- 1 – Size the Soft Starter based on the actual motor nameplate FLA.
- 2 – The units listed are rated for 500% overload capacity for 60 sec., 1.15 S.F.
- 3 – Enclosed units include line + load lugs.
- 4 – The above data is based on the NEC Table 430-150, full load current for 3 phase motors.

- 5 – Model 600 @ 480V / 575VAC is 1.0 S.F.
- 6 – 65KA Rated units available – Consult Factory for pricing.
- 7 – A Space Heater is recommended for units installed outdoors.



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