VMX-PFE™
The Choice for Light and Medium Duty Industrial Applications
200 - 480VAC, 1 - 28A, 1.5 - 20HP

- Easy Setup just 3 settings
- Multi-Function LED Front Panel
- Start Duty: 3 x FLA within 23 sec.
- 24VDC Control Power
- Class 10 Overload Rating
- IP20 Enclosure
- Internal Bypass
- Only 1.8" wide (Size 1)
- DIN Rail Mounted

Motortronics Motor Controls Made Easy
**Key Features**

**Over Current Protection**
Protects the Soft Starter against usage above its duty rating.

**Internally Bypassed**
Reduces cost once bypass is active. Reduces cabinet size and less heat produced.

**Only 1.8” Wide (Size 1)**
Same width as typical contactor and enables a more compact cabinet to be used.

**Din-Rail Mount**
For easy installation — it just clips on.

**Typical Applications**
- Conveyors
- Fans
- Pumps
- Compressors

**Specifications**

- **Operational Voltage:** 230 - 460 Vac (-15/+10%)
- **Rated Frequency:** 50 - 60 Hz +/- 2Hz
- **Index Rating:** Class 10 — Ie: AC53b: 3-23: 697
- **Start per Hour:** 5 starts/stops per hour (max) - Class 10
- **Optimum Starts per Hour:** 30 starts/stops per hour (max) - Class 10 with optional fan
- **Internally Bypassed:** Yes
- **Control Supply:** 24Vdc approx. 4VA supplied externally to terminals 0V - +24V
- **Enabled and Start/Soft Stop:** 24Vdc galvanically isolated terminals -A2, EN, +A1
- **Indication:** Multifunction LEDs on front panel
- **Start Time:** 1 to 30 Seconds
- **Stop Time:** 0 to 30 Seconds
- **Start Duty:** 3 x FLC for 23 seconds at Trip Class 10 rating
- **Power Terminals:** Input 1/L1, 3/ L2, 5/L3, Output 2/T1, 4/T2, 6/T3
- **Enclosure:** UL evaluated Open Type/IP20
- **Ambient Temperature:** 0° to 104°F without de-rating
- **Transport/storage:** -13°F to 140°F
  - -13°F to 167°F (not exceeding 24 hours)
- **Altitude:** 3280 ft (1000m), above 328ft (1000m) de-rate linearly by 1% of unit FLC per 328ft (100m), above 6562ft (2000m) contact factory.
- **Standards:** IEC 60947-4-2; EN 60947-4-2 "AC Semiconductor Motor Controllers and Starters"
  - UL, CE
Perfect for small AC Induction Motors

Setup as simple as 1, 2, 3 in under a minute!

1. Acceleration / Start Time
   Set acceleration time from 1-30 sec.

2. Start %
   Set start voltage in percent of input voltage

3. Deceleration / Stop Time
   Set deceleration time from 0 - 30 sec.

3S Technology
Automatic ramp control profiles ensure smooth start and stop performance, delivering stable acceleration and deceleration in all operating conditions.
Compact and Easy to Install

### Ratings

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Amps</th>
</tr>
</thead>
<tbody>
<tr>
<td>VMX-PFE-02</td>
<td>3</td>
</tr>
<tr>
<td>VMX-PFE-04</td>
<td>3.4</td>
</tr>
<tr>
<td>VMX-PFE-06</td>
<td>4.8</td>
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<tr>
<td>VMX-PFE-08</td>
<td>4.8</td>
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<tr>
<td>VMX-PFE-10</td>
<td>7.6</td>
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<td>VMX-PFE-12</td>
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<td>VMX-PFE-14</td>
<td>14</td>
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<tr>
<td>VMX-PFE-16</td>
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<tr>
<td>VMX-PFE-18</td>
<td>21</td>
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#### Sizing Guide

<table>
<thead>
<tr>
<th>230V</th>
<th>460V</th>
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<tbody>
<tr>
<td>Amps</td>
<td>HP</td>
</tr>
<tr>
<td>2.2</td>
<td>0.5</td>
</tr>
<tr>
<td>3.2</td>
<td>0.75</td>
</tr>
<tr>
<td>4.2</td>
<td>1</td>
</tr>
<tr>
<td>6.8</td>
<td>2</td>
</tr>
<tr>
<td>9.6</td>
<td>3</td>
</tr>
<tr>
<td>9.6</td>
<td>3</td>
</tr>
<tr>
<td>15.2</td>
<td>5</td>
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<tr>
<td>22</td>
<td>7.5</td>
</tr>
<tr>
<td>28</td>
<td>10</td>
</tr>
</tbody>
</table>

### Trip Class 10

**PFE MODEL**

5 starts/hour

Le: AC-53b: 3-23: 697

### Dimensions and Weights

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Dim. H x W x D inches (mm)</th>
<th>Product Weight lbs. (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VMX-PFE-02 thru VMX-PFE-10</td>
<td>5.51 (140) x 1.77 (45) x 4.73 (120)</td>
<td>0.88 (0.4)</td>
</tr>
<tr>
<td>VMX-PFE-12 thru VMX-PFE-18</td>
<td>6.5 (165) x 2.17 (55) x 4.73 (120)</td>
<td>1.43 (0.65)</td>
</tr>
</tbody>
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