

Application Note

VMX-PFE Soft Start Controller for Single Phase Applications

Introduction

The VMX-PFE soft start controller may be utilised to accomplish motor starting using the reduced voltage method for single-phase applications. Soft starter sizing is determined by the horsepower or kW rating of the motor. The soft start controller selection process for single phase control is identical to three-phase for standard and heavy duty applications.

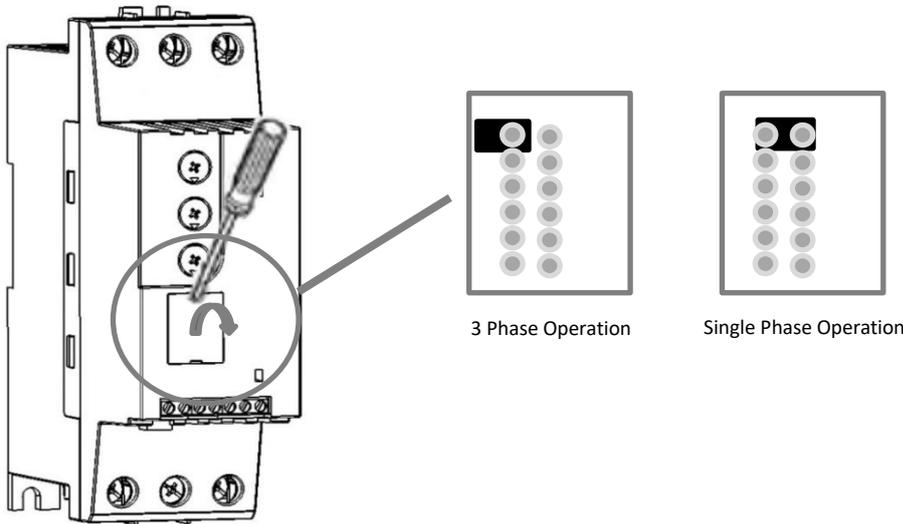
Sizing

VMX-PFE Soft Start Controllers are sized in accordance with their maximum current ratings. Correct sizing may be accomplished by referring to the VMX-PFE current ratings in Table 1 below.

| VMX-PFE Model | Rated Current (A) | Frame Size |
|---------------|-------------------|------------|
| VMX-PFE-02 | 5 | 1 |
| VMX-PFE-04 | 7 | 1 |
| VMX-PFE-06 | 9 | 1 |
| VMX-PFE-08 | 12 | 1 |
| VMX-PFE-10 | 16 | 1 |
| VMX-PFE-12 | 22 | 2 |
| VMX-PFE-14 | 30 | 2 |
| VMX-PFE-16 | 36 | 2 |
| VMX-PFE-18 | 40 | 2 |

VMX-PFE - Single Phase Configuration

To configure the VMX-PFE soft start for single phase operation, see Figure 1 below.



VMX-PFE Single Phase Mains Connection

Mains connection of the VMX-PFE soft start in a single-phase application is detailed in Figure 2 below. (See MAN-PFE-006 installation instructions for protective switchgear and fuse details)

