

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.

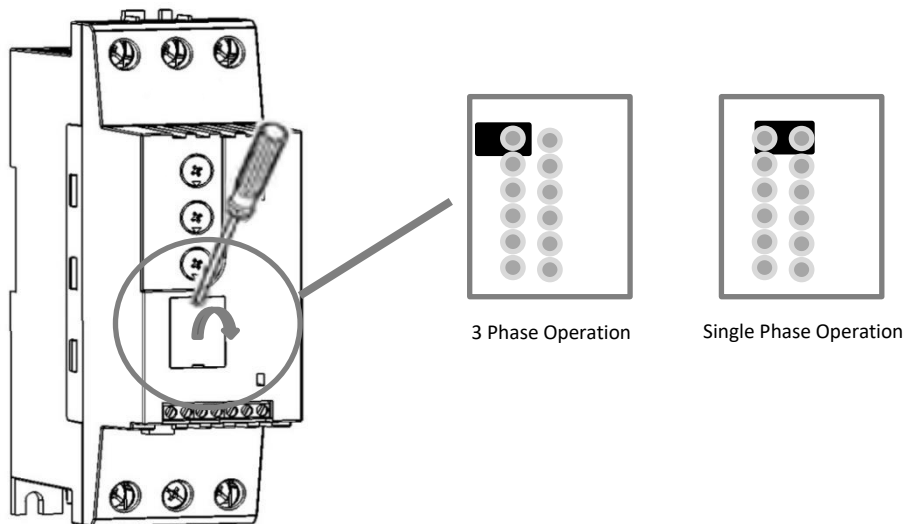
Sizing

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

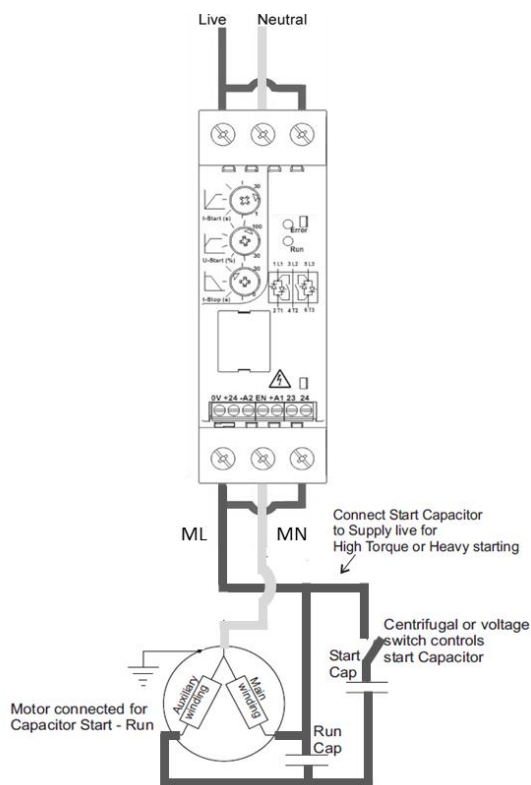
VMX-PFE - Single Phase Configuration

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)





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