

## DESCRIPTION

## PRODUCT COVERED:

USL, CNL - Industrial Control Equipment, Combination Motor Controllers. MMS Series Type E manual self-protected combination motor controllers. Models MMS-32 followed by H or I, followed by -0.16, -0.25, -0.40, -0.63, -1.0, -1.6, -2.5, -4.0, -6.0, -8.0, -10, -13, -17, -22, -26 or -32. Models MMS-64 followed by H or I or S, followed by -10, -13, -17, -22, -26, -32, -40, -50 or -63. Models MMS-100 followed by H or I or S, followed by -17, -22, -26, -32, -40, -50, -63, -75, -90 or -100. Type F combination motor controllers consisting of Type E MMS devices with GMC series contactors.

MMS Front Mounted Auxiliary Contact Block Accessory Model FX.  
MMS Side Mounted Auxiliary Contact Block Accessory Model LX.  
MMS Shunt Release Accessory RS Series.  
MMS Undervoltage Release Accessory RU Series.  
MMS Undervoltage Release with Switch Accessory RUX Series.  
MMS Alarm Switch Accessory Model LA.  
MMS Alarm Switch for Magnetic Trip Accessory Model LAM.

## GENERAL:

The MMS series devices are combination motor controllers capable of across the line starting of single- and three-phase motors having a full load current up to 32 A / 63 A / 100 A at 120 - 600 Vac. The devices are provided with an instantaneous magnetic short circuit current element set at 13 times the MMS frame size (model MMS-32 trips with a current of 416 A). The instantaneous magnetic short circuit current element is not adjustable. MMS models are provided with an adjustable, ambient compensated Class 10 thermal overload current element with a tripping current of 1.25 times the full load current dial setting (model MMS-32 set at 32 will trip at 40 A). MMS-I models contain both the thermal and the magnetic elements, but only the magnetic elements are capable of releasing the device. Furthermore, the MMS-I thermal element is factory set at the maximum current level and is not otherwise adjustable. The MMS devices are considered manual, self-protected, Type E combination motor controllers. When used with the specified GMC series contactors, the devices are considered Type F combination motor controllers. See also Engineering Considerations for more details.

## RATINGS:

MMS Main Contacts - The MMS-32 / MMS-63 / MMS-100 main contacts are capable of starting single- and three-phase motors having a full load current of 32 A / 63A / 100 A or less at 600 Vac or less, break all lines. Table 1 shows the maximum HP / Aflc / Alrc / general purpose ratings for each frame size. The contact assembly is identical within each frame size, however Table 1A shows the detailed ratings of each individual model within the frame size.

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