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MS Series MSP Selection Guide

Choose your motor starter/protector according to the FLA rating on your motor data plate. Refer to the charts on the following page.

Accessories

To complete your motor starter/ protector, there are several accessories that may be used. The Auxiliary Switch (contact) has one normally open contact and one normally closed contact. The Shunt Release trips when voltage is applied (120V or 220V). With the Undervoltage Release, your motor is protected from a low voltage situation.

Motor Starter/Protector and Accessories					
Part Number	Price	Description			
MS25-16	Retired	Motor starter protector with thermal overload release, setting range from 0.1 to 0.16A			
MS25-25	Retired	Motor starter protector with thermal overload release, setting range from 0.16 to 0.25A			
MS25-40	Retired	Motor starter protector with thermal overload release, setting range from 0.25 to 0.4A			
MS25-63	\$0dq?:	Motor starter protector with thermal overload release, setting range from 0.4 to 0.63A			
MS25-100	\$;0dqt:	Motor starter protector with thermal overload release, setting range from 0.63 to 1A			
MS25-160	Retired	Motor starter protector with thermal overload release, setting range from 1 to 1.6A			
MS25-250	Retired	Motor starter protector with thermal overload release, setting range from 1.6 to 2.5A			
MS25-400	Retired	Motor starter protector with thermal overload release, setting range from 2.5 to 4A			
MS25-630	Retired	Motor starter protector with thermal overload release, setting range from 4 to 6.3A			
MS25-1000	Retired	Motor starter protector with thermal overload release, setting range from 6.3 to 10A			
MS25-1600	\$0dqy:	Motor starter protector with thermal overload release, setting range from 10 to 16A			
MS25-2000	Retired	Motor starter protector with thermal overload release, setting range from 16 to 20A			
MS25-2500	Retired	Motor starter protector with thermal overload release, setting range from 20 to 25A			
MS25-PS11	Retired	Auxiliary switch, 1 N.O. contact, 1 N.C. contact			
MS25-A120	\$0ds0:	120V/60Hz Shunt Release			
MS25-U220	Retired	220V/60Hz UnderVoltage Release			
MS25-U440	Retired	440V/60Hz UnderVoltage Release			
UMP45	Retired	DIN Rail Adapter Plate			

MS25 Series Motor Starter/Protector Short Circuit Instantaneous Trip Current and Backup Fuse Recommendations									
Manual Starter/	Short Circuit Trip Current 1	Short Circuit Breaking Capacity (kA)				Max Back-Up Fuses Class CC or Class J 2			
Protector Part Number		220/240VAC	460/480VAC	500 VAC	690 VAC	230 VAC	400 VAC	500 VAC	690 VAC
MS25-16	2	50	50	50	50	*	*	*	*
MS25-25	3	50	50	50	50	*	*	*	*
MS25-40	5	50	50	50	50	*	*	*	*
MS25-63	8	50	50	50	50	*	*	*	*
MS25-100	12	50	50	50	50	*	*	*	*
MS25-160	20	50	50	50	50	*	*	*	*
MS25-250	33	50	50	3	2.5	*	*	25	20
MS25-400	44	50	50	3	2.5	*	*	35	25
MS25-630	75	50	50	3	2.5	*	*	50	35
MS25-1000	120	50	6	3	2.5	*	80	50	35
MS25-1600	160	6	4	2.5	2	63	80	63	35
MS25-2000	230	6	4	2.5	2	63	80	63	50
MS25-2500	270	6	4	2.5	2	63	80	63	50

Note 1: The short-circuit trip is the current at which the device will instantly trip via the electromagnetic trip circuitry within the MSP.The short circuit breaking capacity is the total branch circuit supply current that the device can safely protect. Fields marked with an asterisk indicate that the device can safely handle any supply current with output fusing.

Note 2: The trip currents and back-up fuses are per IEC 60947. Local codes and regulations may require additional short circuit protection. Consult codes applicable to your application.

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H Series Contactor/MSP Selection Guide

- Step 1: Select your motor FLA (full load amperage) from column A. Step 3: After selecting your contactor, go to column C to find
- Step 2: Go to column B to find your contactor model. Check the maximum amperage rating for that contactor. Ranges overlap and you may have to go to the next larger size.
- your motor starter/protector.
- **Step 4:** Order the motor starter/protector, contactor or any other accessories.

Motor Contactor and Motor Starter/Protector (MSP) Selection Guide (when motor FLA is known)						
A	В	С		Special Assembly Note		
Current Range Motor FLA	Contactor Model	Motor Starter/Protector Part Number	IEC Frame Size			
0.1 to 0.16 A		<u>MS25-16</u>	45 mm frame size	Note: A DIN rail adapter plate is needed for assembly of the contactor and motor starter/protector. This plate allows two DIN rail devices to be mounted together as an assembly to one piece of DIN rail. The part number is UMP45.		
0.16 to 0.25 A		MS25-25				
0.25 to 0.4 A	GH15BN Up to 9A FLA	MS25-40				
0.4 to 0.63 A		MS25-63				
0.63 to 1 A		MS25-100				
0.1 to 1.6 A		MS25-160				
1.6 to 2.5 A		MS25-250				
2.5 to 4 A		MS25-400				
4 to 6.3 A		MS25-630				
6.3 to 10 A		MS25-1000				
10.0 to 16 A	GH15CN Up to 12 A FLA	MS25-1600				
10.0 to 16.0 A	GH15DN Up to 16A FLA	MS25-1600				
16.0 to 20.0 A	CUITETT Up to 25A FLA	MS25-2000				
20.0 to 25.0 A	GH15ET Up to 25A FLA	MS25-2500				

The following charts are to be used as a guideline only. Motor control devices should be sized using the motor FLA (full load amperage) rating. It is the user's responsibility to size the motor starter/protector properly.

- Step 1: Select your motor horsepower rating in column A based on the rating from the motor data plate or spec. sheet.
- Step 2: Go to column B to find your contactor model. Check the maximum amperage rating for that contactor. Ranges overlap and you may need to go to the next larger size.
- Step 3: After selecting your contactor, go to column C to find your motor starter/protector.

Motor Contactor and MSP Selection Guide for 440-480 Volt Three-Phase Motor Control						
A	В	С		Special Assembly Note		
Motor Horsepower	Contactor Model	Motor Starter/Protector Part Number	IEC Frame Size			
1/2		MS25-160				
3/4		MS25-160	45mm frame size	Note: A DIN rail adapter plate is needed for assembly of the contactor and motor starter/protector. This plate allows two DIN rail devices to be mounted together as an assembly to one piece of DIN rail. The part number is UMP45.		
1		MS25-250				
1 1/2	GH15BN Up to 9A FLA	MS25-400				
2		MS25-400				
3		MS25-630				
5		MS25-1000				
7 1/2	GH15CN Up to 12A FLA	MS25-1600				
10	GH15DN Up to 16A FLA	MS25-1600				
15	GH15ET Up to 25A FLA	MS25-2500				

Motor Contactor and MSP Selection Guide for 230-240 Volt Three-Phase Motor Control						
A	В	С				
Motor Horsepower	Contactor Model	Motor Starter/Protector art Number	IEC Frame Size	Special Assembly Note		
1/2		MS25-250	45 mm frame size	Note: A DIN rail adapter plate is needed for assembly of the contactor and motor starter/protector. This plate allows two DIN rail devices to be mounted together as an assembly to one piece of DIN rail. The part number is UMP45		
3/4		MS25-400				
1	GH15BN Up to 9A FLA	MS25-400				
1 1/2		MS25-630				
2		MS25-1000				
3	GH15CN Up to 12A FLA	MS25-1000				
5	GH15DN Up to 16A FLA	MS25-1600				
7 1/2	GH15ET Up to 25A FLA	MS25-2500				

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MS25 Series Tripping Characteristics

