# 1-800-633-0405 For the la 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				
<u>MS25-16</u>	\$63.00	Motor starter protector with thermal overload release, setting range from 0.1 to 0.16A				
<u>MS25-25</u>	\$63.00	Motor starter protector with thermal overload release, setting range from 0.16 to 0.25A				
<u>MS25-40</u>	\$63.00	Motor starter protector with thermal overload release, setting range from 0.25 to 0.4A				
<u>MS25-63</u>	\$63.00	Motor starter protector with thermal overload release, setting range from 0.4 to 0.63A				
<u>MS25-100</u>	\$63.00	Motor starter protector with thermal overload release, setting range from 0.63 to 1A				
<u>MS25-160</u>	\$63.00	Motor starter protector with thermal overload release, setting range from 1 to 1.6A				
<u>MS25-250</u>	\$63.00	Motor starter protector with thermal overload release, setting range from 1.6 to 2.5A				
<u>MS25-400</u>	\$63.00	Motor starter protector with thermal overload release, setting range from 2.5 to 4A				
<u>MS25-630</u>	\$63.00	Motor starter protector with thermal overload release, setting range from 4 to 6.3A				
<u>MS25-1000</u>	\$73.00	Motor starter protector with thermal overload release, setting range from 6.3 to 10A				
<u>MS25-1600</u>	Retired	Motor starter protector with thermal overload release, setting range from 10 to 16A				
<u>MS25-2000</u>	\$75.00	Motor starter protector with thermal overload release, setting range from 16 to 20A				
<u>MS25-2500</u>	\$94.00	Motor starter protector with thermal overload release, setting range from 20 to 25A				
<u>MS25-PS11</u>	\$16.50	Auxiliary switch, 1 N.O. contact, 1 N.C. contact				
<u>MS25-A120</u>	Retired	120V/60Hz Shunt Release				
<u>MS25-U220</u>	\$31.00	220V/60Hz UnderVoltage Release				
<u>MS25-U440</u>	\$31.00	440V/60Hz UnderVoltage Release				
<u>UMP45</u>	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	*	*	*	*
<u>MS25-25</u>	3	50	50	50	50	*	*	*	*
<u>MS25-40</u>	5	50	50	50	50	*	*	*	*
<u>MS25-63</u>	8	50	50	50	50	*	*	*	*
<u>MS25-100</u>	12	50	50	50	50	*	*	*	*
<u>MS25-160</u>	20	50	50	50	50	*	*	*	*
MS25-250	33	50	50	3	2.5	*	*	25	20
<u>MS25-400</u>	44	50	50	3	2.5	*	*	35	25
<u>MS25-630</u>	75	50	50	3	2.5	*	*	50	35
<u>MS25-1000</u>	120	50	6	3	2.5	*	80	50	35
<u>MS25-1600</u>	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.

For the latest prices, please check AutomationDirect.com.

## GH 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.

**Step 3:** After selecting your contactor, go to column C to find 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)					
А	В	С			
Current Range Motor FLA	Contactor Model	Motor Starter/Protector Part Number	IEC Frame Size	Special Assembly Note	
0.1 to 0.16 A	GH15BN Up to 9A FLA	<u>MS25-16</u>	45 mm frame size		
0.16 to 0.25 A		<u>MS25-25</u>		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	
0.25 to 0.4 A		<u>MS25-40</u>			
0.4 to 0.63 A		<u>MS25-63</u>			
0.63 to 1 A		<u>MS25-100</u>			
0.1 to 1.6 A		<u>MS25-160</u>			
1.6 to 2.5 A		<u>MS25-250</u>			
2.5 to 4 A		MS25-400			
4 to 6.3 A		<u>MS25-630</u>		UMP45.	
6.3 to 10 A		<u>MS25-1000</u>			
10.0 to 16 A	GH15CN Up to 12 A FLA	<u>MS25-1600</u>			
10.0 to 16.0 A	GH15DN Up to 16A FLA	<u>MS25-1600</u>			
16.0 to 20.0 A		<u>MS25-2000</u>			
20.0 to 25.0 A	GH15ET Up to 25A FLA	<u>MS25-2500</u>			

### 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	B C				
Motor Horsepower	Contactor Model	Motor Starter/Protector Part Number	IEC Frame Size	Special Assembly Note	
1/2		<u>MS25-160</u>	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.	
3/4		<u>MS25-160</u>			
1		<u>MS25-250</u>			
1 1/2	GH15BN Up to 9A FLA	MS25-400			
2		MS25-400			
3		MS25-630			
5		<u>MS25-1000</u>			
7 1/2	GH15CN Up to 12A FLA	<u>MS25-1600</u>			
10	GH15DN Up to 16A FLA	<u>MS25-1600</u>			
15	GH15ET Up to 25A FLA	<u>MS25-2500</u>			

Motor Contactor and MSP Selection Guide for 230-240 Volt Three-Phase Motor Control						
A	B C					
Motor Horsepower	Contactor Model	Motor Starter/Protector art Number	IEC Frame Size	Special Assembly Note		
1/2		<u>MS25-250</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		
3/4		<u>MS25-400</u>				
1	GH15BN Up to 9A FLA	<u>MS25-400</u>				
1 1/2		<u>MS25-630</u>				
2		<u>MS25-1000</u>				
3	GH15CN Up to 12A FLA	<u>MS25-1000</u>				
5	GH15DN Up to 16A FLA	<u>MS25-1600</u>				
7 1/2	GH15ET Up to 25A FLA	<u>MS25-2500</u>				

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# 1-800-633-0405 For the latest prices, please of MS25 Series Tripping Characteristics

