



CENTERLINE® Motor Control Centers

Selecting and Installing Bulletin 592 SMP-1 or SMP-2 Overload Relays for Bulletin 2100 Starter Units

Instructions

Applications

This publication explains how to select the appropriate Bulletin 592 SMP-1 or SMP-2 overload relay for Bulletin 2100 starter units, and how to subsequently install the overload relay in the unit.



ATTENTION: De-energize all power sources to the motor control center before proceeding. Failure to de-energize all power sources can result in severe injury or death.

Recommended Tools

- Screwdriver
- Torque wrench

Overload Relay Selection

Using Table 1 follow criteria to select the appropriate overload relay:

1. For motors with a service factor of 1.15 or greater, use the motor nameplate full load current.
2. For motors with a service factor of 1.0, use 90% of the motor nameplate full load current.

Table 1: Overload Relay Selection Table

Starter Size	Adjustment Range	Overload Catalog Number	
		SMP-1	SMP-2
1	0.19 - 0.6A	592-A2BA	592-B1BA
	0.32 - 1.0A	592-A2CA	592-B1CA
	1.0 - 2.9A	592-A2DA	592-B1DA
	1.6 - 5.0A	592-A2EA	592-B1EA
	3.7 - 12A	592-A2FA	592-B1FA
	5.7 - 18A	592-A2GA	592-B1GA
	12 - 38A	592-A2HA	592-B1HA
2	5.7 - 18A	592-A2GC	592-B1GC
	12 - 38A	592-A2HC	592-B1HC
	14 - 45A	592-A2JC	592-B1JC
3	14 - 45A	592-A2JD	592-B1JD
	23 - 75A	592-A2KD	592-B1KD
	66 - 100A	592-A2LD	592-B1LD
4,200A Vacuum	23 - 75A	592-A2KE	592-B1KE
	66 - 110A	592-A2LE	592-B1LE
	57 - 180A	592-A2ME	592-B1ME

Important: The selection table above refers to Class 20 manual reset (SMP-1). Other types are available.

Overload Relay Installation

Use the following instructions to install overload relay:

Starter Mounted Overload Relays

1. Attach the overload relay to the load side of the contactor, using the illustrations on the overload relay instructions as a reference. Make sure that the terminal of the overload relay fit into the load terminal of the contactor. Tighten the screws on the contactor, and torque as indicated on the overload instructions.
2. Wire the overload relay according to the wiring diagram that is supplied for the unit. The location and number of the wiring diagram are listed on the label in the unit.



ATTENTION: Do not use automatic reset mode in applications where unexpected restart of the motor can cause injury to persons or damage to equipment.

3. Refer to the instruction sheet that is included with the overload relay to adjust the trip current, set the class reset (SMP-2 only), and for additional information about the device.

Important: The selection table on page 1 refers to Class 20 manual reset (SMP-1). Other types are available.

Separately Mounted Overload Relays

1. Mount the overload relay using two (2) mounting screws and mounting flange. For 0.5 space factor units (Bulletin 2112 and 2113) see Figure 1. For 1.5 space factor units (Bulletin 2106 and 2107) see Figure 2.

With the overload relay tilted slightly forward, place the slotted openings located on the bottom of overload relay onto the two (2) mounting screws that are in the unit. Then tilt the overload relay back to engage the mounting flange located in the unit to the top of the overload relay. For 0.5 space factor units (Bulletin 2112 and 2113) see Figure 3. For 1.5 space factor units (Bulletin 2106 and 2107) see Figure 4. Torque the two (2) mounting screws to 32 Lb-in (3.6 N-m).

2. Wire the overload relay according to the wiring diagram that is supplied for the unit. The location and number of the wiring diagram are listed on the label in the unit.

Important: The necessary wires are included in the unit. Remove tape before wiring connections.



ATTENTION: Do not use automatic reset mode in applications where unexpected restart of the motor can cause injury to persons or damage to equipment.

3. Refer to the instruction sheet that is included with the overload relay to adjust the trip current, set the class reset (SMP-2 only), and for additional information about the device.

Important: The selection table on page 1 refers to Class 20 manual reset (SMP-1). Other types are available.

Figure 1: Mounting hardware for separately mounted overload relay in 0.5 space factor units (Bulletin 2112 and 2113).

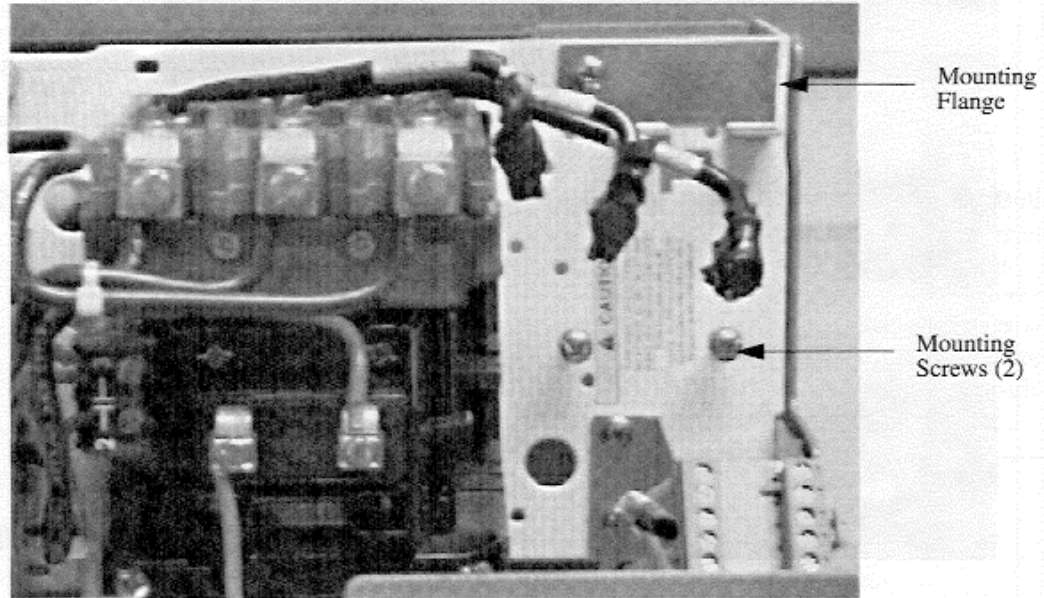


Figure 2: Mounting hardware for separately mounted overload relay in 1.5 space factor units (Bulletin 2106 and 2107).

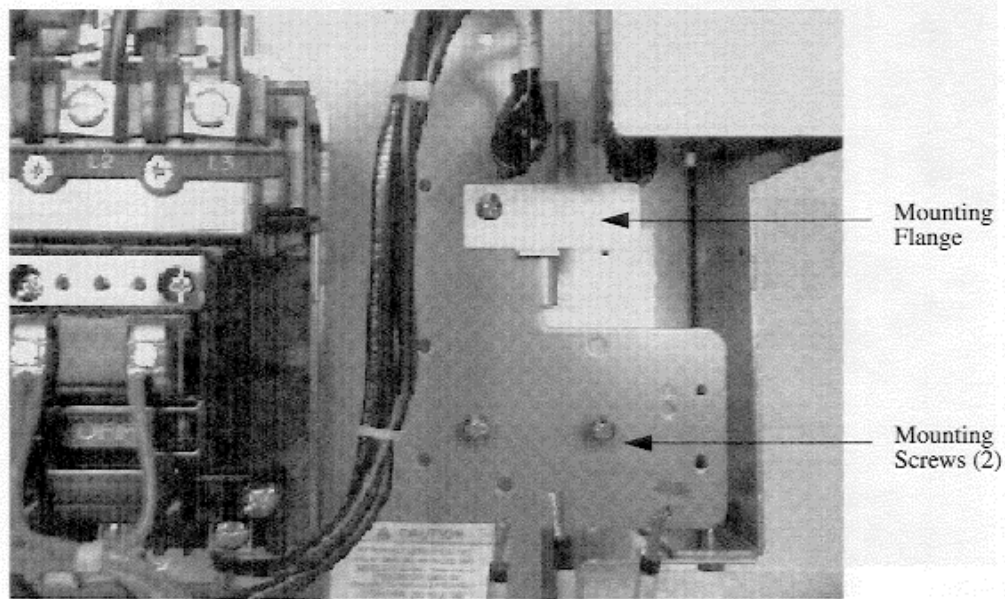


Figure 3: Placement of overload relay onto the two (2) mounting screws and flange for 0.5 space factor units (Bulletin 2112 and 2113).

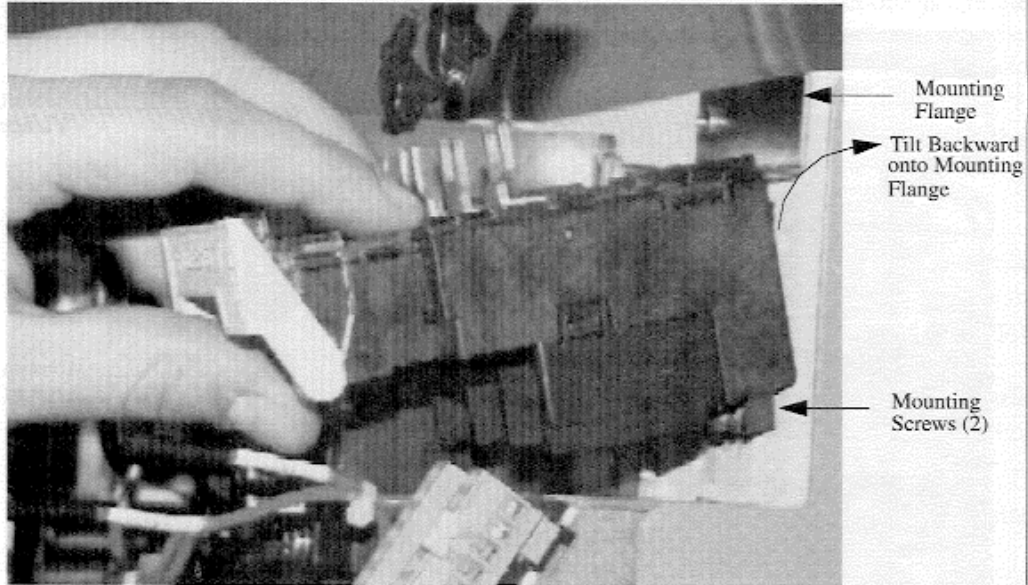
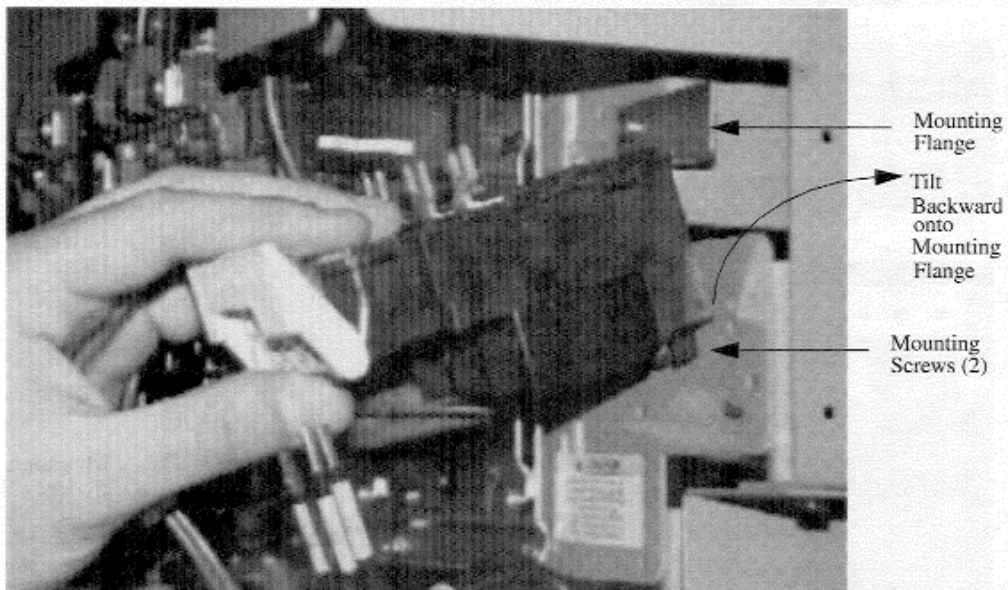


Figure 4: Placement of overload relay onto the two (2) mounting screws and flange for 1.5 space factor units (Bulletin 2106 and 2107).



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