



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 and 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 - 32A	592-A2HA	592-B1HA
1 ①	0.1 - 0.32A	592P-A2AT	592P-B1AT
	0.32 - 1.0A	592P-A2CT	592P-B1CT
	1.0 - 2.9A	592P-A2DT	592P-B1DT
	1.6 - 5.0A	592P-A2ET	592P-B1ET
	3.7 - 12A	592P-A2FT	592P-B1FT
	12 - 32A	592P-A2HT	592P-B1HT
2	5.7 - 18A	592-A2GC	592-B1GC
	12 - 32A	592-A2HC	592-B1HC
	14 - 45A	592-A2JC	592-B1JC
2 ①	5.7 - 18A	592P-A2GC	592P-B1GC
	12 - 32A	592P-A2HC	592P-B1HC
	14 - 45A	592P-A2JC	592P-B1JC
3	14 - 45A	592-A2JD	592-B1JD
	23 - 75A	592-A2KD	592-B1KD
	66 - 100A	592-A2LD	592-B1LD
4	23 - 75A	592-A2KE	592-B1KE
	66 - 110A	592-A2LE	592-B1LE
200A Vacuum	57 - 180A	592-A2ME	592-B1ME

① For Bulletin 2112 and 2113 in 0.5 space factor and Bulletin 2106 and 2107 in 1.5 space factor. These are separately mounted overload relays.

Important: Table 1 refers to Class 20 manual reset SMP-1. Other SMP-1 classes 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 terminals 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.

Separately Mounted Overload Relays

1. Mount the overload relay using the two (2) mounting screws supplied in unit. 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. 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. Torque terminals to the value marked on the overload relay.

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.

Figure 1 Bulletin 2112 and 2113 mounting bracket for 0.5 space factor unit

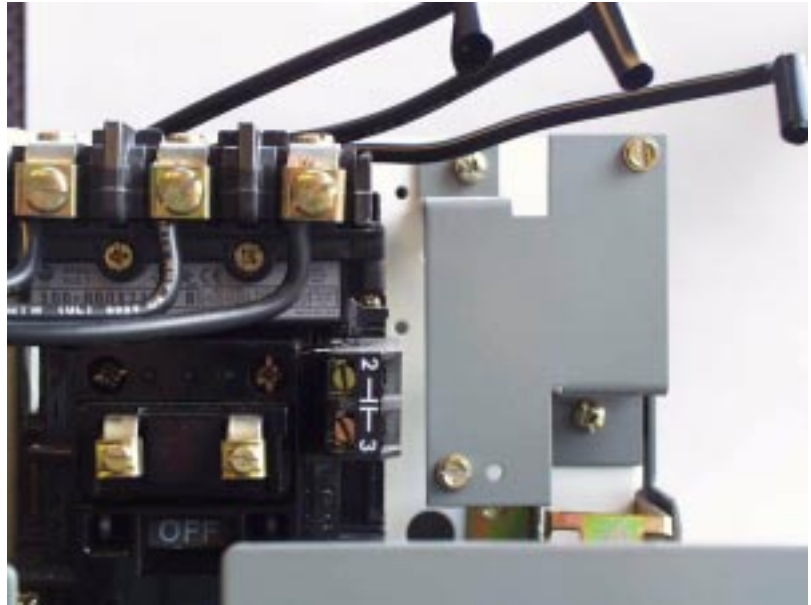
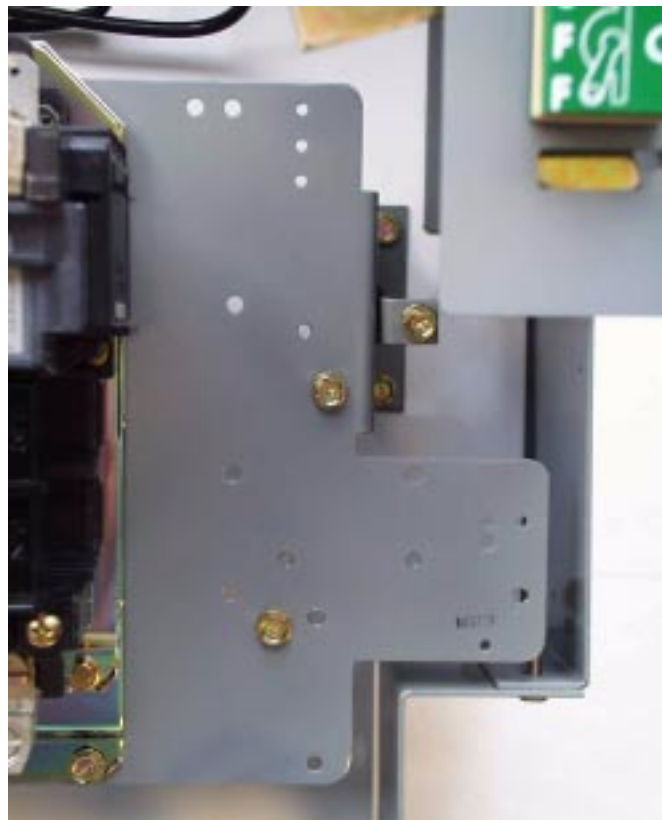


Figure 2 Bulletin 2106 and 2107 mounting bracket for 1.5 space factor units



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Americas Headquarters, 1201 South Second Street, Milwaukee, WI 53204, USA, Tel: (1) 414 382-2000, Fax: (1) 414 382-4444
European Headquarters SA/NV, avenue Herrmann Debroux, 46, 1160 Brussels, Belgium, Tel: (32) 2 663 06 00, Fax: (32) 2 663 06 40
Asia Pacific Headquarters, 27/F Citicorp Centre, 18 Whitfield Road, Causeway Bay, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846

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