

Eutectic Alloy Overload Relays

Overview/Product Selection

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*Eutectic Alloy Type
Panel Mount*

Bulletin 592

- A Rockwell Automation exclusive — overload relay is the same for all three trip classes (10, 20, and 30) for each starter size.
- Trip current ratings are easily selected by choosing the proper heater element — no need to change the overload relay.
- The trip-free mechanism means you still have overload protection even if the reset button is held down.

The Bulletin 592 Overload Relay is a manual reset, eutectic alloy, thermal type overload device. When coordinated with the proper short circuit protection, the overload relay is intended to protect the motor, motor controller, and power wiring against overheating due to excessive overcurrents.

All Bulletin 592 block type relays are furnished with an optical indicator which becomes visible when the relay has tripped. A manual contact test module is provided as standard on block type Bulletin 592 overload relays. One N.O. or N.C. auxiliary contact may be field added to block type Bulletin 592 overload relays. This extra contact module physically replaces the contact test module.

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Standards Compliance

UL 508
CSA 22.2 No. 14
CE Mark

Certifications

UL Listed (File No. E14840,
Guide No. NKCR)
CSA Certified (File No. LR1234)

Eutectic Alloy Type — Manual Reset, Starter Mount

STARTER MOUNT — For installation on Bulletin 500 Line NEMA contactors.

Heater Elements — Overload relays require 3 overload heater elements. See page 1-167 for heater element selection.

Starter Size	Number of Poles	Open Type without Enclosure	
		N.C. Contact	N.O.-N.C. Contact
		Cat. No.	Cat. No.
00 (Series B & D)	3	592-JOV16	592-JOV169
0, 1		592-EUTB	592-BOW169
2		592-EUTC	592-COW169
3		592-EUTD	592-DOW169
4		592-EUTE	592-EOW169

Eutectic Alloy Type — Manual Reset, Panel Mount

PANEL MOUNT — For installation and wiring separate from the contactor.

Heater Elements — Overload relays require 1 or 3 overload heater elements. See page 1-167 for heater element selection.

Type	Maximum Continuous Current (A)	Number of Poles	Open Type without Enclosure		Type 1 General Purpose Enclosure	
			N.C. Contact	N.O.-N.C. Contacts	N.C. Contact	N.O.-N.C. Contacts
			Cat. No.	Cat. No.	Cat. No.	Cat. No.
Compact	24	3	592-JOV16	592-JOV169	—	—
	32	3	592-KOV16	592-KOV169	—	—
Standard	40	1	592-BOV4	592-BOV49	—	—
		3	592-BOV16	592-BOV169	592-BAV16	592-BAV169
	62	1	592-COV4	592-COV49	—	—
		3	592-COV16	592-COV169	592-CAV16	592-CAV169
	125	3	592-DOV16	592-DOV169	—	—
	165	3	592-EOV16	592-EOV169	—	—

Current Transformer Type — Eutectic Alloy, Manual Reset

Heater Elements — Overload relays require 3 overload heater elements. See page 1-167 for heater element selection.

Full Load Current Range (A)	Cat. No.*	Lug Kits Cat. No.
60...200‡	592-TPD200	199-LF1
120...300‡	592-TPD300	199-LG1
160...496	592-TPD400	199-LH1
250...630‡	592-TPD630	199-LJ1

* Terminal lugs are not included.

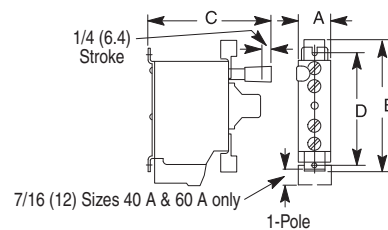
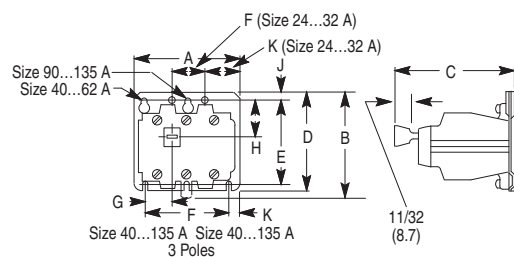
‡ Can be applied up to 1500V.

Eutectic Alloy Overload Relays

Approximate Dimensions

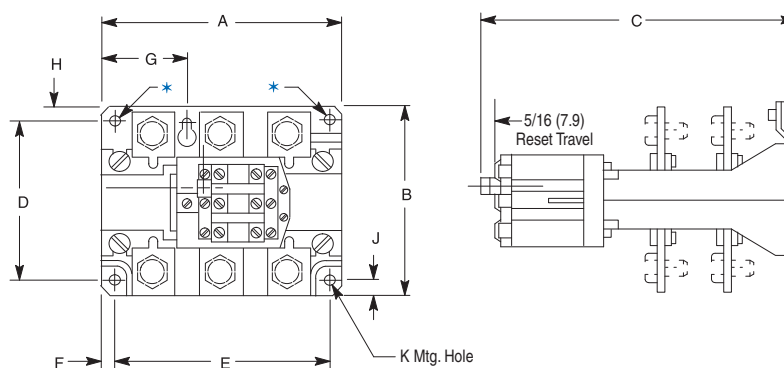
Dimensions are shown in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.

Open Type without Enclosure for Bulletin 592 Eutectic Alloy Type — Manual Reset — Panel Mount



Maximum Current [A]	No. of Poles	A Wide	B High	C Deep	D	E	F	G	H	J	K
24/32	3	2-11/16 (68.3)	3-1/4 (82.6)	3-41/64 (92.6)	—	2-3/4 (70)	55/64 (22)	—	—	1/4 (6.4)	29/32 (23)
40	1	7/8 (22.2)	3-1/4 (82.6)	3-9/16 (90.5)	2-29/32 (73.8)	—	—	—	—	—	—
	3	3-15/16 (100)	—	4-1/2 (114)	3-21/32 (93)	3-5/32 (80)	3-5/32 (80)	1-3/64 (26.5)	1-3/8 (35)	1-9/64 (7.5)	25/64 (9.9)
62	1	7/8 (22.2)	3-13/16 (96.8)	3-9/16 (90.5)	3-1/8 (79.4)	—	—	—	—	—	—
	3	3-15/16 (100)	3-31/32 (101)	4-1/2 (114)	3-21/32 (93)	3-5/32 (80)	3-5/32 (80)	1-3/64 (26.5)	1-3/8 (35)	1-9/64 (7.5)	25/64 (9.9)
125	3	6-7/32 (158)	5-7/8 (149)	4-49/64 (121)	6-1/4 (159)	5-1/2 (140)	5-1/2 (140)	1-61/64 (49.6)	2-3/4 (69.8)	5/16 (7.9)	23/64 (9.1)
165	3	6-7/32 (158)	6-17/32 (166)	4-49/64 (121)	6-1/4 (159)	5-1/2 (140)	5-1/2 (140)	1-61/64 (49.6)	2-3/4 (69.8)	5/16 (7.9)	23/64 (9.1)

Open Type without Enclosure for Bulletin 592 Current Transformer Type — Eutectic Alloy, Manual Reset



Cat. No.	A Wide	B High	C Deep	D	E	F	G	H	J	K
592-TPD200	5-5/16 (135)	5-19/32 (142)	8-9/16 (217.5)	4-23/32 (120)	4-23/32 (120)	19/64 (7.5)	1-59/64 (49)	29/64 (12)	51/64 (10)	21/64 (8.4)
592-TPD300	6-63/64 (177.3)	5-19/32 (142)	9-5/32 (233)	4-23/32 (120)	6-9/64 (156)	27/64 (10.6)	22-1/2 (63.6)	29/64 (12)	51/64 (10)	9/32 (7)
592-TPD400	6-63/64 (177.3)	10-15/32 (266)	9-5/32 (233)	4-23/32 (120)	6-9/64 (156)	27/64 (10.6)	22-1/2 (63.6)	29/64 (12)	51/64 (10)	9/32 (7)
592-TPD630	9-27/32 (250)	7-55/64 (210)	8-19/32 (218)	7-3/32 (180)	8-57/64 (226)	15/32 (12)	3-19/64 (84)	25/64 (10)	51/64 (10)	9/32 (7)

* Mounting holes for Cat. Nos. 592-TPD400 and 592-TPD630 only.