

IEC Power Devices

IEC Contactors Thermal Overload Relays

C-2000

Overload Relays

Fixed Heater

C2000 RT overload relays provide motor overload protection through fixed bimetal heaters. These relays are ambient compensated and utilize a differential mechanism for single-phase sensitivity. The trip setting is adjustable for the range listed.

Overload relays may be set for 4 different operational modes—manual reset only, automatic reset only, manual reset/stop, or automatic reset/stop. Stop is initiated by pushing the reset button which interrupts the holding circuit in the latter two listed modes.

Overload relays feature visible trip indication, reset on the upstroke, weld check, and trip test.

Reference Publications

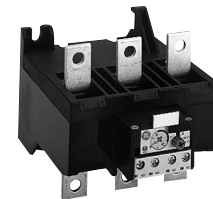
Instructions	
GEH-6237	RT1* (Class 10) Overload
DEH-040	RT12* (Class 20) Overload
GEH-6238	RT2* (Class 10) Overload
DEH-041	RT22* (Class 20) Overload
GEH-6239	RT3* (Class 10) Overload
DEH-042	RT32* (Class 20) Overload
GEH-6240	RT4* (Class 10, 30) Overload
GEH-6241	RT5* (Class 10, 30) Overload
GEH-5520	RT5 Overload Connection Kit
DEH-055	Remote Electrical Reset



RT1 Overload Relay



RT2 Overload Relay



RT3 Overload Relay



RT4 Overload Relay



RT5 Overload Relay



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Section 5

RT1 - Direct Mount Manual

Overload Relay for use with Contactors ¹	Current Range Amps (min-max)	Reset Type	Trip Class	Maximum Fuse Rating Amps	Maximum Circuit Breaker Rating Amps	Product Number	List Price GO-10C2
CL00, CL01, CL02, CL25, CL04, CL45	0.16-0.26	Manual	Class 10	1	15	RTN1B	\$55.00
CL00, CL01, CL02, CL25, CL04, CL45	0.25-0.41	Manual	Class 10	1	15	RTN1C	\$55.00
CL00, CL01, CL02, CL25, CL04, CL45	0.4-0.65	Manual	Class 10	3	15	RTN1D	\$55.00
CL00, CL01, CL02, CL25, CL04, CL45	0.65-1.1	Manual	Class 10	6	15	RTN1F	\$55.00
CL00, CL01, CL02, CL25, CL04, CL45	1-1.5	Manual	Class 10	6	15	RTN1G	\$55.00
CL00, CL01, CL02, CL25, CL04, CL45	1.3-1.9	Manual	Class 10	6	15	RTN1H	\$55.00
CL00, CL01, CL02, CL25, CL04, CL45	1.8-2.7	Manual	Class 10	10	15	RTN1J	\$55.00
CL00, CL01, CL02, CL25, CL04, CL45	2.5-4.1	Manual	Class 10	15	15	RTN1K	\$55.00
CL00, CL01, CL02, CL25, CL04, CL45	4-6.3	Manual	Class 10	20	15	RTN1L	\$55.00
CL00, CL01, CL02, CL25, CL04, CL45	5.5-8.5	Manual	Class 10	25	15	RTN1M	\$57.00
CL00, CL01, CL02, CL25, CL04, CL45	8.0-12.0	Manual	Class 10	40	30	RTN1N	\$57.00
CL01, CL02, CL25, CL04, CL45	10.0-16.0	Manual	Class 10	50	35	RTN1P	\$57.00
CL02, CL25, CL04, CL45	14.5-18	Manual	Class 10	60	40	RTN1S	\$57.00
CL25, CL04, CL45	17.5-22	Manual	Class 10	70	50	RTN1T	\$57.00
CL04, CL45	21-26	Manual	Class 10	80	60	RTN1U	\$57.00
CL04, CL45	25-32	Manual	Class 10	100	80	RTN1V	\$65.00
CL45	30-40	Manual	Class 10	100	80	RTN1W	\$78.00

RT1 - Direct Mount Manual/Auto

Overload Relay for use with Contactors ¹	Current Range Amps (min-max)	Reset Type	Trip Class	Maximum Fuse Rating Amps	Maximum Circuit Breaker Rating Amps	Product Number	List Price GO-10C2
CL00, CL01, CL02, CL25, CL04, CL45	0.16-0.26	Manual/Auto w/wo stop	Class 10	1	15	RT1B	\$55.00
CL00, CL01, CL02, CL25, CL04, CL45	0.25-0.41	Manual/Auto w/wo stop	Class 10	1	15	RT1C	\$55.00
CL00, CL01, CL02, CL25, CL04, CL45	0.4-0.65	Manual/Auto w/wo stop	Class 10	3	15	RT1D	\$55.00
CL00, CL01, CL02, CL25, CL04, CL45	0.65-1.1	Manual/Auto w/wo stop	Class 10	6	15	RT1F	\$55.00
CL00, CL01, CL02, CL25, CL04, CL45	1-1.5	Manual/Auto w/wo stop	Class 10	6	15	RT1G	\$55.00
CL00, CL01, CL02, CL25, CL04, CL45	1.3-1.9	Manual/Auto w/wo stop	Class 10	6	15	RT1H	\$55.00
CL00, CL01, CL02, CL25, CL04, CL45	1.8-2.7	Manual/Auto w/wo stop	Class 10	10	15	RT1J	\$55.00
CL00, CL01, CL02, CL25, CL04, CL45	2.5-4.1	Manual/Auto w/wo stop	Class 10	15	15	RT1K	\$55.00
CL00, CL01, CL02, CL25, CL04, CL45	4-6.3	Manual/Auto w/wo stop	Class 10	20	15	RT1L	\$55.00
CL00, CL01, CL02, CL25, CL04, CL45	5.5-8.5	Manual/Auto w/wo stop	Class 10	25	15	RT1M	\$57.00
CL00, CL01, CL02, CL25, CL04, CL45	8.0-12.0	Manual/Auto w/wo stop	Class 10	40	30	RT1N	\$57.00
CL01, CL02, CL25, CL04, CL45	10.0-16.0	Manual/Auto w/wo stop	Class 10	50	35	RT1P	\$57.00
CL02, CL25, CL04, CL45	14.5-18	Manual/Auto w/wo stop	Class 10	60	40	RT1S	\$57.00
CL25, CL04, CL45	17.5-22	Manual/Auto w/wo stop	Class 10	70	50	RT1T	\$57.00
CL04, CL45	21-26	Manual/Auto w/wo stop	Class 10	80	60	RT1U	\$57.00
CL04, CL45	25-32	Manual/Auto w/wo stop	Class 10	100	80	RT1V	\$65.00
CL45	30-40	Manual/Auto w/wo stop	Class 10	100	80	RT1W	\$78.00
CL00, CL01, CL02, CL25, CL04, CL45	0.4-0.65	Manual/Auto w/wo stop	Class 20	3	15	RT12D	\$55.00
CL00, CL01, CL02, CL25, CL04, CL45	0.65-1.1	Manual/Auto w/wo stop	Class 20	6	15	RT12F	\$55.00
CL00, CL01, CL02, CL25, CL04, CL45	1-1.5	Manual/Auto w/wo stop	Class 20	6	15	RT12G	\$55.00
CL00, CL01, CL02, CL25, CL04, CL45	1.3-1.9	Manual/Auto w/wo stop	Class 20	6	15	RT12H	\$55.00
CL00, CL01, CL02, CL25, CL04, CL45	2.5-4.1	Manual/Auto w/wo stop	Class 20	15	15	RT12K	\$55.00
CL00, CL01, CL02, CL25, CL04, CL45	4-6.3	Manual/Auto w/wo stop	Class 20	20	15	RT12L	\$55.00
CL00, CL01, CL02, CL25, CL04, CL45	5.5-8.5	Manual/Auto w/wo stop	Class 20	25	15	RT12M	\$57.00
CL00, CL01, CL02, CL25, CL04, CL45	8.0-12.0	Manual/Auto w/wo stop	Class 20	40	30	RT12N	\$57.00
CL01, CL02, CL25, CL04, CL45	10.0-16.0	Manual/Auto w/wo stop	Class 20	50	35	RT12P	\$57.00
CL02, CL25, CL04, CL45	14.5-18	Manual/Auto w/wo stop	Class 20	60	40	RT12S	\$57.00
CL25, CL04, CL45	17.5-22	Manual/Auto w/wo stop	Class 20	70	50	RT12T	\$57.00
CL04, CL45	21-26	Manual/Auto w/wo stop	Class 20	80	60	RT12U	\$57.00
CL04, CL45	25-32	Manual/Auto w/wo stop	Class 20	100	80	RT12V	\$65.00
CL45	30-40	Manual/Auto w/wo stop	Class 20	100	80	RT12W	\$78.00

¹Do not exceed contactor current rating when selecting and adjusting overload relays. For panel mount use base adapter RTXP.



Product Number Selection Instructions: See page 5-37

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Section 5

RT3 - Direct or Panel Mount

Overload Relay for use with Contactors ¹	Current Range Amps (min-max)	Reset Type	Trip Class	Maximum Fuse Rating Amps	Maximum Circuit Breaker Rating Amps	Product Number	List Price GO-10C2
CK75, CK08	55-80	Manual	Class 10	225	200	RTN3B	\$185.00
CK75, CK08	63-90	Manual	Class 10	250	225	RTN3C	\$185.00
CK75, CK08	90-120	Manual	Class 10	350	300	RTN3D	\$185.00
CK75, CK08	110-140	Manual	Class 10	400	350	RTN3E	\$225.00
CK08	140-190	Manual	Class 10	450	500	RTN3F	\$225.00
CK75, CK08	55-80	Manual/Auto	Class 10	225	200	RT3B	\$185.00
CK75, CK08	63-90	Manual/Auto	Class 10	250	225	RT3C	\$185.00
CK75, CK08	90-120	Manual/Auto	Class 10	350	300	RT3D	\$185.00
CK75, CK08	110-140	Manual/Auto	Class 10	400	350	RT3E	\$225.00
CK08	140-190	Manual/Auto	Class 10	450	500	RT3F	\$225.00
CK75, CK08	63-90	Manual/Auto	Class 20	250	225	RT32C	\$185.00
CK75, CK08	90-120	Manual/Auto	Class 20	350	300	RT32D	\$185.00
CK75, CK08	110-140	Manual/Auto	Class 20	400	350	RT32E	\$225.00
CK08	140-190	Manual/Auto	Class 20	450	500	RT32F	\$225.00

¹Do not exceed contactor current rating when selecting and adjusting overload relays.

RT4 - Separate Mount

Overload Relay for use with Contactors ¹	Current Range Amps (min-max)	Reset Type	Trip Class	Terminal Type	Maximum Fuse Rating Amps	Maximum Circuit Breaker Rating Amps	Product Number	List Price GO-10C2
CK09, CK95	120-190	Manual	Class 10	Bus bar ²	600	500	RTN4N	\$285.00
CK09, CK95	175-280	Manual	Class 10	Bus bar ²	800	700	RTN4P	\$285.00
CK95	200-310	Manual	Class 10	Bus bar ²	900	800	RTN4R	\$380.00
CK09, CK95	120-190	Manual/Auto	Class 10	Bus bar ²	600	500	RT4N	\$285.00
CK09, CK95	175-280	Manual/Auto	Class 10	Bus bar ²	800	700	RT4P	\$285.00
CK95	200-310	Manual/Auto	Class 10	Bus bar ²	900	800	RT4R	\$380.00
CK09, CK95	45-70	Manual/Auto	Class 30	Clamp	225	175	RT4LK	\$285.00
CK09, CK95	60-90	Manual/Auto	Class 30	Clamp	300	225	RT4LL	\$285.00
CK09, CK95	80-125	Manual/Auto	Class 30	Clamp	400	350	RT4LM	\$285.00
CK09, CK95	120-190	Manual/Auto	Class 30	Bus bar ²	600	500	RT4LN	\$285.00
CK09, CK95	175-280	Manual/Auto	Class 30	Bus bar ²	800	700	RT4LP	\$285.00
CK95	200-310	Manual/Auto	Class 30	Bus bar ²	900	800	RT4LR	\$380.00

¹Do not exceed contactor current rating when selecting and adjusting overload relays.

²Can be mounted to contactor with Overload Jumpers (listed on page 5-47) and Base Plate (CKXB01) (listed on page 5-47).

RT5 - Separate Mount²

Overload Relay for use with Contactors ¹	Current Range Amps (min-max)	Reset Type	Trip Class	Maximum Fuse Rating Amps	Maximum Circuit Breaker Rating Amps	Product Number	List Price GO-10C2
CK10, CK11, CK12	120-190	Manual	Class 10	800	500	RTN5A	\$641.00
CK10, CK11, CK12	175-280	Manual	Class 10	1200	700	RTN5B ³	\$641.00
CK10, CK11, CK12	250-400	Manual	Class 10	1200	1000	RTN5C ³	\$641.00
CK10, CK11, CK12	315-500	Manual	Class 10	1200	1200	RTN5D ³	\$903.00
CK11, CK12.4	30-650	Manual	Class 10	1200	1200	RTN5E ³	\$903.00
CK10, CK11, CK12	120-190	Manual/Auto	Class 10	800	500	RT5A	\$641.00
CK10, CK11, CK12	175-280	Manual/Auto	Class 10	1200	700	RT5B ³	\$641.00
CK10, CK11, CK12	250-400	Manual/Auto	Class 10	1200	1000	RT5C ³	\$641.00
CK10, CK11, CK12	315-500	Manual/Auto	Class 10	1200	1200	RT5D ³	\$903.00
CK11, CK12.4	30-650	Manual/Auto	Class 10	1200	1200	RT5E ³	\$903.00
CK10, CK11, CK12	120-190	Manual/Auto	Class 30	800	500	RT5LA	\$641.00
CK10, CK11, CK12	175-280	Manual/Auto	Class 30	1200	700	RT5LB	\$641.00
CK10, CK11, CK12	250-400	Manual/Auto	Class 30	1200	1000	RT5LC	\$641.00
CK10, CK11, CK12	315-500	Manual/Auto	Class 30	1200	1200	RT5LD	\$903.00
CK11, CK12	430-650	Manual/Auto	Class 30	1200	1200	RT5LE	\$903.00

¹Do not exceed contactor current rating when selecting and adjusting overload relays.

²Can be mounted to contactor with Overload Jumpers (listed on page 5-47).

³Maximum fuse rating of 1000 amps/maximum circuit breaker rating of 600 amps when used with CK10CE or CK11CE contactors. Use CK10BE or CK11BE with higher rated protective devices indicated. CK12BE suitable for all ratings listed.



Product Number Selection Instructions: See page 5-37