

## IEC Power Devices

### IEC Contactors Thermal Overload Relays

#### C-2000™

## Section 5

#### 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      |



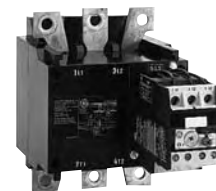
RT1 Overload Relay



RT2 Overload Relay



RT3 Overload Relay



RT4 Overload Relay



RT5 Overload Relay

# IEC Power Devices

## IEC Contactors Thermal Overload Relays

### C-2000™

## Section 5

### RT1 - Direct Mount Manual

| Overload Relay for use with Contactors <sup>1</sup> | 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 <sup>1</sup> | 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            |

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

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