



|                                   |  |                                       |    |                                                     |
|-----------------------------------|--|---------------------------------------|----|-----------------------------------------------------|
| Product designation               |  |                                       |    | Earth leakage relays                                |
| Product type designation          |  |                                       |    | RC                                                  |
| General characteristics           |  |                                       |    |                                                     |
| Description                       |  |                                       |    | Compact, 1 operating threshold                      |
| N° of operating threshold         |  |                                       |    | 1                                                   |
| Control circuit                   |  |                                       |    |                                                     |
| Toroidal transformer              |  |                                       |    | Incorporated diam. 80mm/3.15"                       |
| Adjustments                       |  |                                       |    |                                                     |
| Tripping set-point (IΔn)          |  | (x0.1)                                | A  | 0.025...0.25                                        |
|                                   |  | (x1)                                  | A  | 0.25...2.5                                          |
|                                   |  | (x10)                                 | A  | 2.5...25                                            |
| Tripping delay time               |  | (tx1)                                 | s  | 0.02...0.5                                          |
|                                   |  | (tx10)                                | s  | 0.2...5                                             |
|                                   |  | Selection of multiplier for IΔn and t |    |                                                     |
| Resetting                         |  |                                       |    | Configurable automatic or manual by button on front |
| Test Button                       |  |                                       |    | Yes                                                 |
| Shunt circuit control             |  |                                       |    | No                                                  |
| Auxiliary supply                  |  |                                       |    |                                                     |
| Auxiliary rated supply voltage Us |  |                                       |    | 110...125VAC/DC;220...240/380...415VAC              |
| Operational limits                |  |                                       |    | 110...125VAC/DC or 220...240VAC or 380...415VAC     |
| Output contacts                   |  |                                       |    | 1                                                   |
| Rated frequency                   |  |                                       | Hz | 50...60                                             |
| Power consumption Max             |  |                                       | VA | 3                                                   |
| Relay outputs                     |  |                                       |    |                                                     |
| Relay state                       |  |                                       |    | Normally de-energised                               |
| Contact arrangement               |  |                                       |    | 1 changeover SPDT (trip)                            |
| Rated contact capacity IEC Ith    |  |                                       |    | 5A - 250VAC                                         |
| Insulations                       |  |                                       |    |                                                     |
| Power frequency withstand voltage |  |                                       | kV | 2.5kV for 60s                                       |

### Indications

|                                  |           |
|----------------------------------|-----------|
| Auxiliary voltage available (ON) | Green LED |
| Relay tripping (TRIP)            | Red LED   |

### Connections

|                                 |       |
|---------------------------------|-------|
| Terminals type                  | Fixed |
| Tightening torque for terminals |       |

|     |      |     |
|-----|------|-----|
| max | Nm   | 0.5 |
| max | lbin | 4.5 |

### Conductor section

AWG/Kcmil

|     |    |
|-----|----|
| min | 24 |
| max | 12 |

IEC

|     |                 |     |
|-----|-----------------|-----|
| min | mm <sup>2</sup> | 0.2 |
| max | mm <sup>2</sup> | 2.5 |

### Operations

|                 |        |          |
|-----------------|--------|----------|
| Mechanical life | cycles | 50000000 |
| Electrical life | cycles | 300000   |

### Ambient conditions

#### Temperature

Operating temperature

|     |    |     |
|-----|----|-----|
| min | °C | -10 |
| max | °C | +60 |

Storage temperature

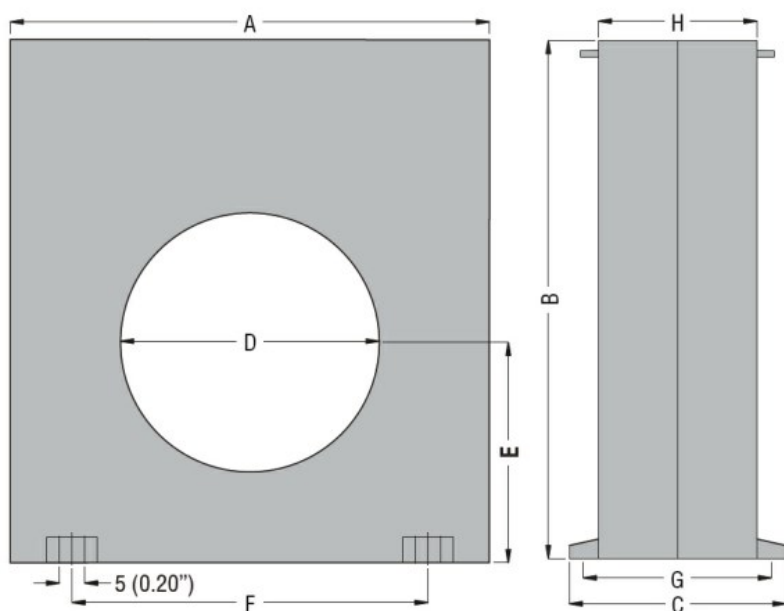
|     |    |     |
|-----|----|-----|
| min | °C | -20 |
| max | °C | +80 |

|                   |   |      |
|-------------------|---|------|
| Relative humidity | % | ≤90% |
|-------------------|---|------|

### Housing

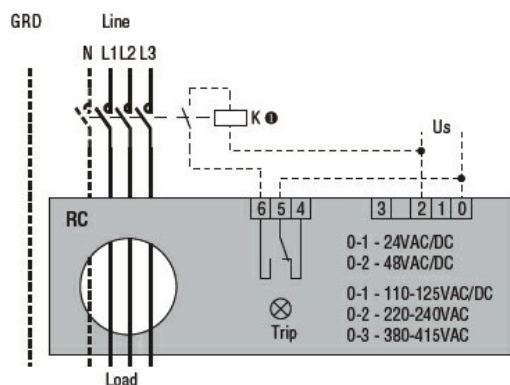
|                        |                                  |            |
|------------------------|----------------------------------|------------|
| Material               | Self-extinguishing polycarbonate |            |
| Mounting               | 35mm DIN rail                    |            |
| Degree of protection   | IP20 terminals                   |            |
| Dimensions (W x H x D) | mm                               | 150x160x70 |
| Weight                 | g                                | 485        |

### Dimensions



| TYPE  | A           | B           | C          | D           | E          | F           | G          | H          |
|-------|-------------|-------------|------------|-------------|------------|-------------|------------|------------|
| RC35  | 100 (3.94") | 110 (4.33") | 70 (2.75") | 35 (1.38")  | 47 (1.85") | 60 (2.36")  | 60 (2.36") | 50 (1.97") |
| RC60  | 100 (3.94") | 110 (4.33") | 70 (2.75") | 60 (2.36")  | 47 (1.85") | 60 (2.36")  | 60 (2.36") | 50 (1.97") |
| RC80  | 150 (5.90") | 160 (6.30") | 70 (2.75") | 80 (3.15")  | 70 (2.75") | 110 (4.33") | 60 (2.36") | 50 (1.97") |
| RC110 | 150 (5.90") | 160 (6.30") | 70 (2.75") | 110 (4.33") | 70 (2.75") | 110 (4.33") | 60 (2.36") | 50 (1.97") |

## Wiring diagrams



## Certifications and compliance

Compliant with standards

IEC/EN 60947-2

Certificates

EAC

## ETIM classification

ETIM 8.0

EC001445 -  
Residual current  
monitoring relay