



Product designation

Earth leakage
relays

Product type designation

R1D

General characteristics

Description

Flush mount with
transparent
cover, 1
operating
threshold

N° of operating threshold

1

Control circuit

Toroidal transformer

External

Adjustments

Tripping set-point ($I_{\Delta n}$)

(x0.1)	A	0.025...0.25
(x1)	A	0.25...2.5
(x10)	A	2.5...25
(external multiplier)	A	25...250

Tripping delay time

(tx1)	s	0.02...0.5
(tx10)	s	0.2...5

Selection of multiplier for $I_{\Delta n}$ and t

By dip switches

Resetting

Configurable
automatic or
manual by button
on front

Test Button

Yes

Shunt circuit control

No

Auxiliary supply

Auxiliary rated supply voltage U_s

24-48VAC/DC

Output contacts

1

Rated frequency

Hz 50...60

Power consumption Max

VA 5.5

Relay outputs

Relay state

Normally de-
energised

Contact arrangement

1 changeover
SPDT (trip)

Rated contact capacity IEC I_{th}

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 ²	0.2
max	mm ²	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 Flush mount

Degree of protection

IP40 with
protecting cover,
IP20 terminals

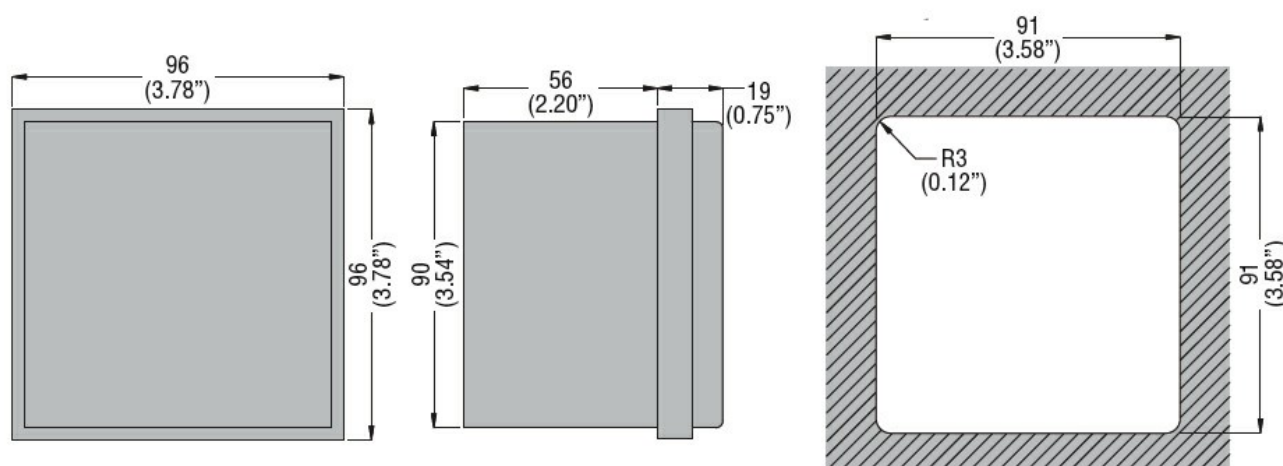
Dimensions (W x H x D)

mm 96x96x75

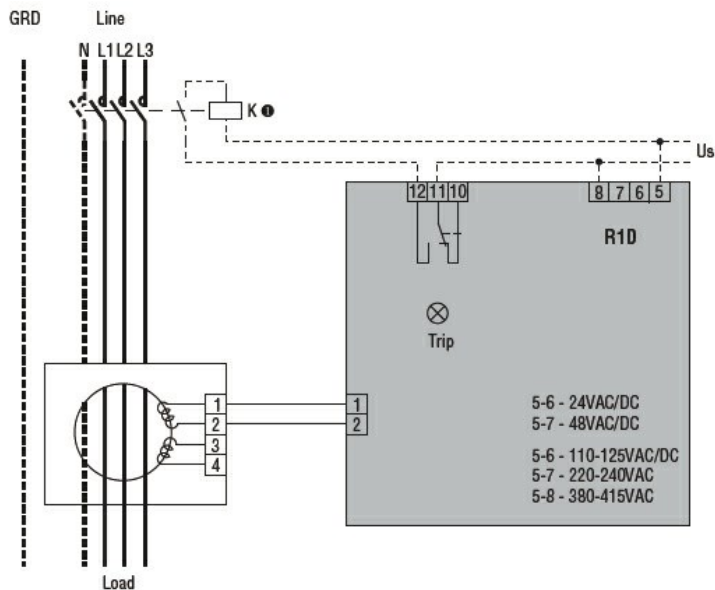
Weight

g 280

Dimensions



Wiring diagrams



Certifications and compliance

Compliant with standards

IEC/EN 60947-2

Certificates

EAC

ETIM classification

ETIM 8.0

EC001445 -
Residual current
monitoring relay