



Product designation

Earth leakage  
relays

Product type designation

R4D

**General characteristics**

Description

Flush mount with  
display and  
cover, 2  
operating  
thresholds

**Control circuit**

Toroidal transformer

External

Adjustments

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

(x0.1)	A	0.03...0.3
(x1)	A	0.3...3
(x10)	A	3...30
(external multiplier)	A	30...300

Prealarm set-point

$I_{\Delta n}$  70% $I_{\Delta n}$  (fixed)

Tripping delay time

(tx1)	s	0.03...0.5
(tx10)	s	0.3...5

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

By dip switches

Resetting

Automatic by  
remote contact  
closing. Manual  
by button on front  
or remote contact  
closing

Test Button

Yes

Shunt circuit control

Yes

**Auxiliary supply**

Auxiliary rated supply voltage  $U_s$

110...125/220...  
240/380...  
415VAC

Operational limits

110...125VAC or  
220...240VAC or  
380...415VAC

Output contacts

2

Rated frequency

Hz 50...60

Power consumption Max

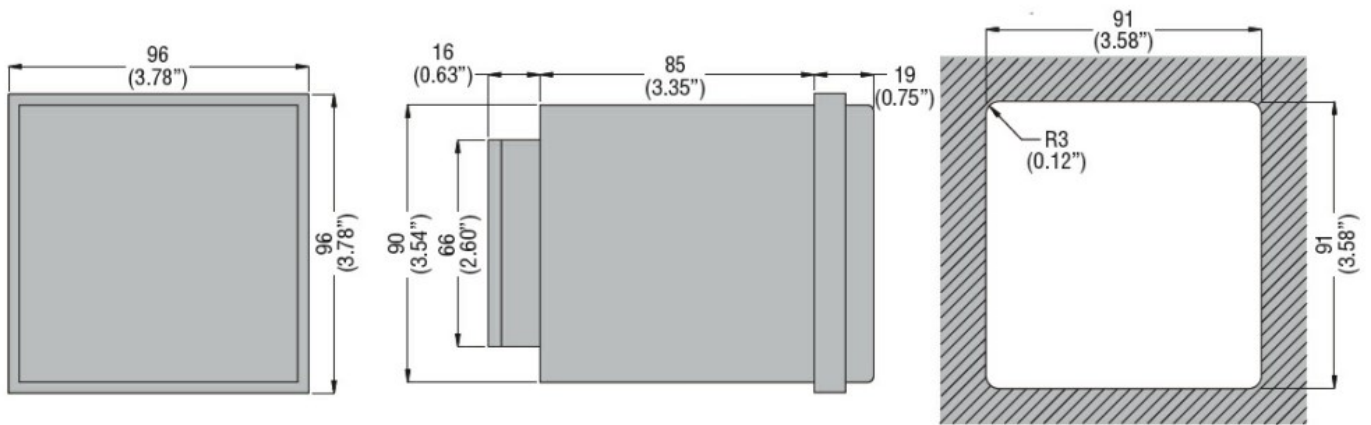
VA 5.5

**Relay outputs**

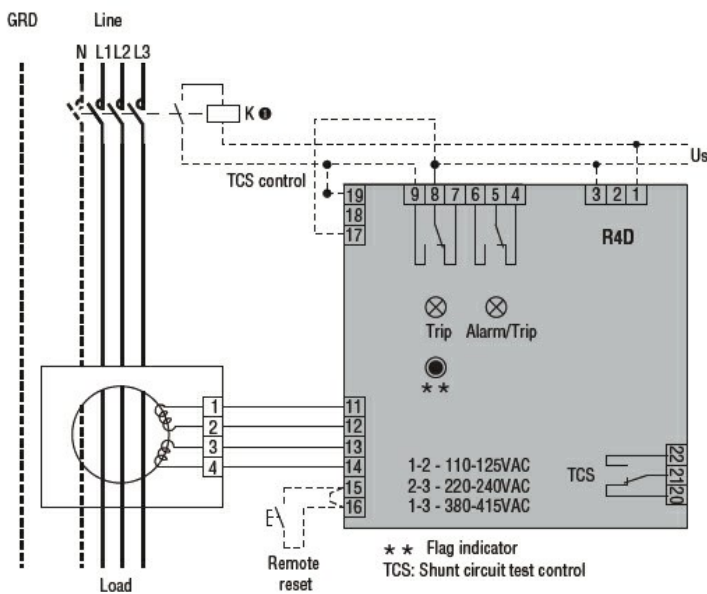
Relay state

Configurable  
normally de-  
energised or  
energised

Contact arrangement				2 changeover SPDT each (configurable: 2 trip or 1 trip and 1 alarm)
Rated contact capacity IEC Ith				5A - 250VAC
<b>Insulations</b>				
Power frequency withstand voltage			kV	2.5kV for 60s
<b>Indications</b>				
Auxiliary voltage available (ON)				Green LED
Relay tripping (TRIP)				Red LED
Trip prealarm (ALARM)				Red LED
Mechanical (TRIP MEMORY)				Flag indicator
Shunt circuit tripping (TCS)				Red LED
<b>Connections</b>				
Terminals type				Removable, plug-in
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
<b>Operations</b>				
Mechanical life			cycles	50000000
Electrical life			cycles	300000
<b>Ambient conditions</b>				
Temperature	Operating temperature		min °C	-10
			max °C	+60
	Storage temperature		min °C	-20
			max °C	+80
Relative humidity			%	≤90%
<b>Housing</b>				
Material				Self-extinguishing polycarbonate
Mounting				Flush mount
Degree of protection				IP40 with protecting cover, IP20 terminals
Dimensions (W x H x D)			mm	96x96x120
Weight			g	570
<b>Dimensions [mm (in)]</b>				



**Wiring diagrams**



Type	Us	Us Wiring	TCS Wiring
R4D 415	110-125VAC	1-2	17-18
	220-240VAC	2-3	17-18
	380-415VAC	1-3	17-19

**Certifications and compliance**

Compliant with standards

IEC/EN 60947-2

Certificates

EAC

**ETIM classification**

ETIM 8.0

EC001445 -  
Residual current  
monitoring relay