



Product designation

Product type designation

General characteristics

Earth leakage
relays
R4D

Description

Flush mount with
display and
cover, 2
operating
thresholds

N° of operating threshold

2

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

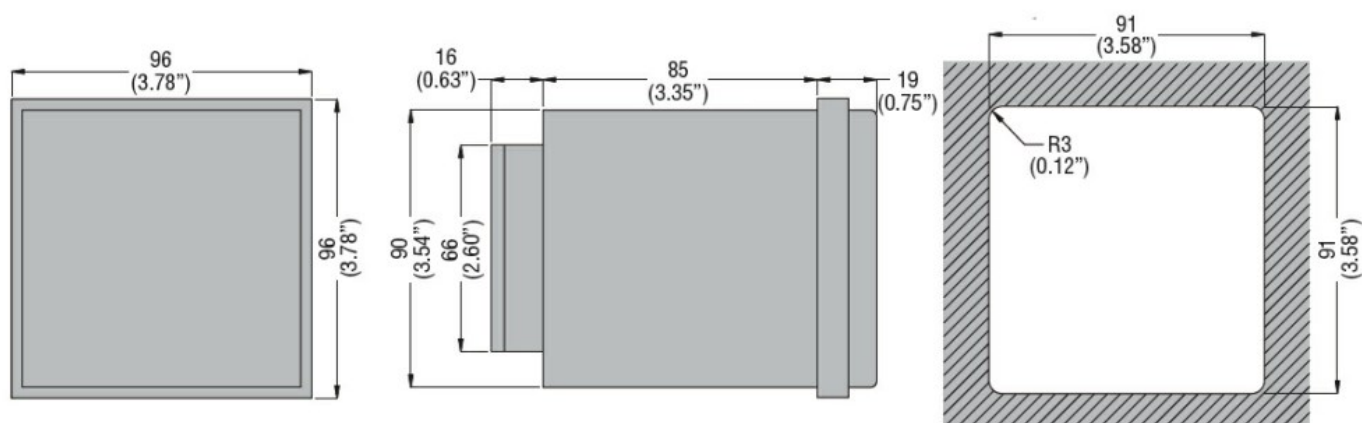
VA 5.5

Relay outputs

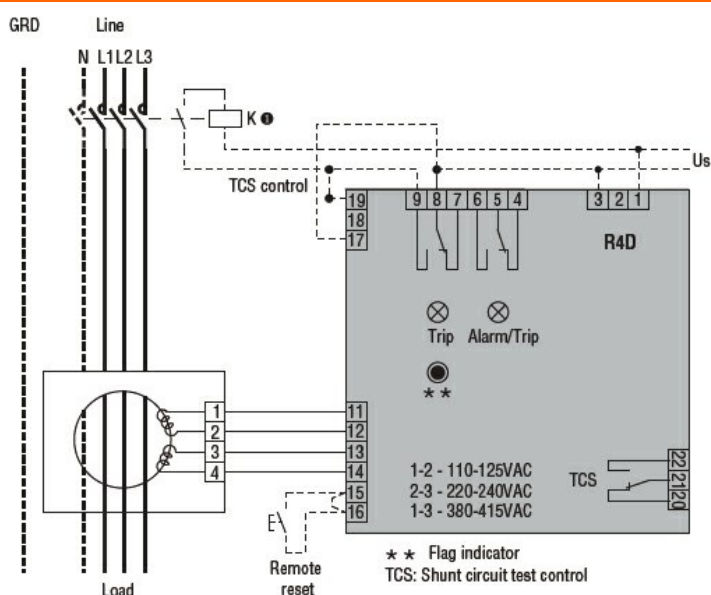
Relay state

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 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		
Trip prealarm (ALARM)	Red LED		
Mechanical (TRIP MEMORY)	Flag indicator		
Shunt circuit tripping (TCS)	Red LED		
Connections			
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 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	96x96x120	
Weight	g	570	
Dimensions			



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