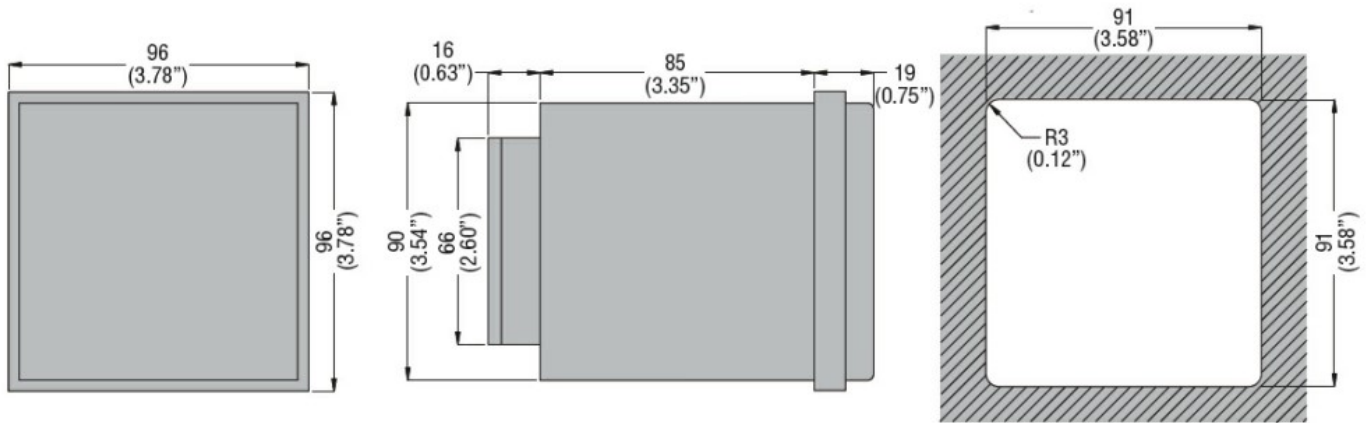


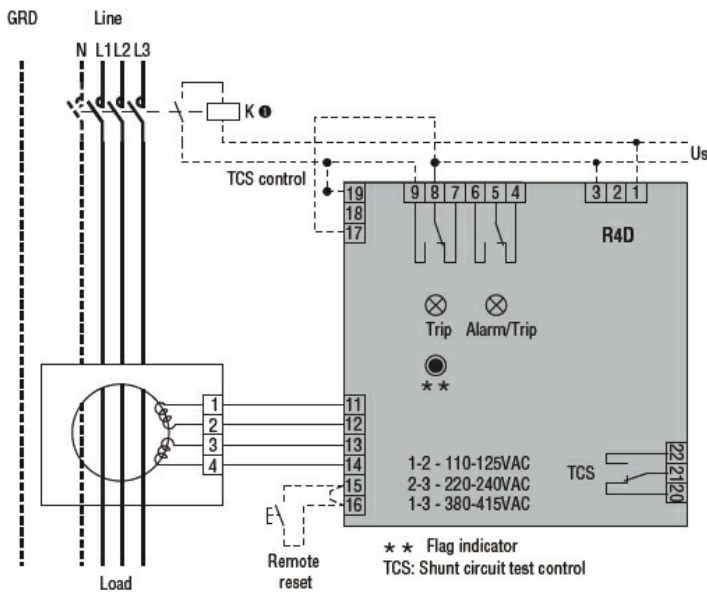


Product designation	Earth leakage relays		
Product type designation	R4D		
General characteristics			
Description	Flush mount with display and cover, 2 operating thresholds		
Residual operation characteristic	Type A		
N° of operating threshold	2		
Control circuit			
Toroidal transformer	External		
Adjustments			
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 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
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	Ibin	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