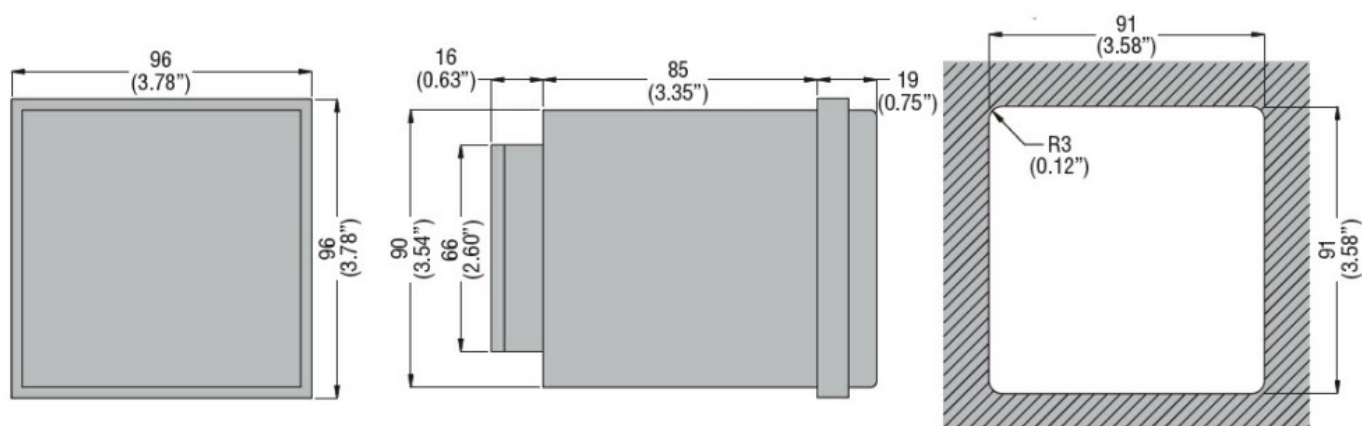


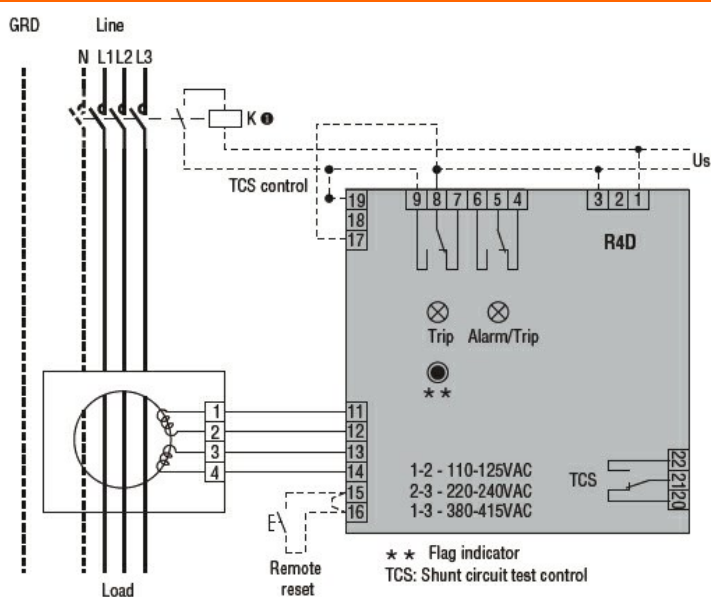


Product designation				Earth leakage relays
Product type designation				R4D
General characteristics				
Description				Flush mount with display and cover, 2 operating thresholds
N° of operating threshold				2
Control circuit				
Toroidal transformer				External
Adjustments				
Tripping set-point (IΔn)		(x0.1)	A	0.03...0.3
		(x1)	A	0.3...3
		(x10)	A	3...30
		(external multiplier)	A	30...300
		Prealarm set-point		
			IΔn	70%IΔn (fixed)
Tripping delay time		(tx1)	s	0.03...0.5
		(tx10)	s	0.3...5
Selection of multiplier for IΔn 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 Us				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	lbin	4.5
Conductor section			
AWG/Kcmil	min		24
	max		12
IEC	min	mm²	0.2
	max	mm²	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