



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 (IΔn)		(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 IΔn 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 Us				110...125VAC/DC;220...240/380...415VAC
Operational limits				110...125VAC/DC or 220...240VAC or 380...415VAC
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 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

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
----------	----------------------------------

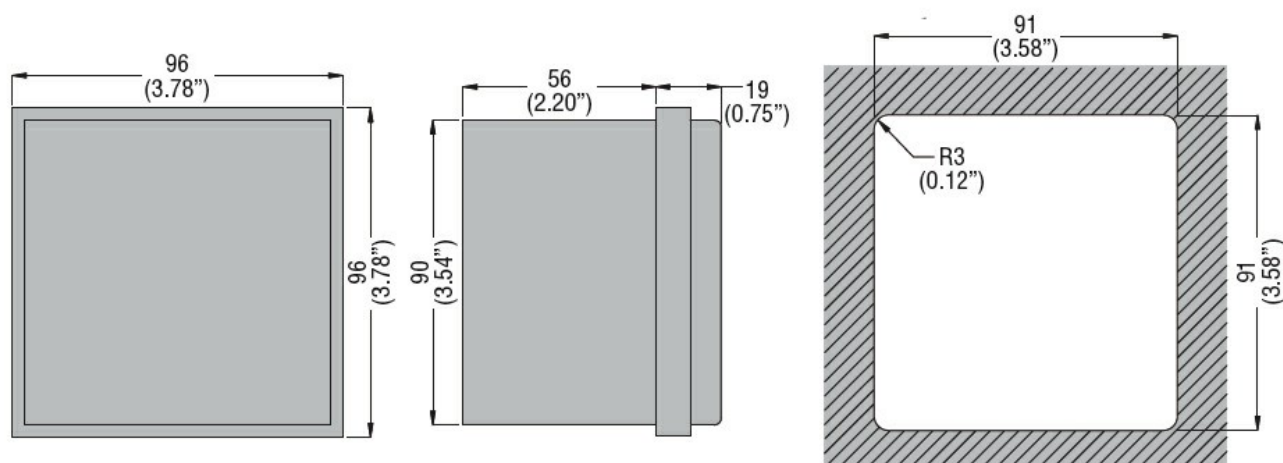
Mounting	Flush mount
----------	-------------

Degree of protection	IP40 with protecting cover, IP20 terminals
----------------------	--

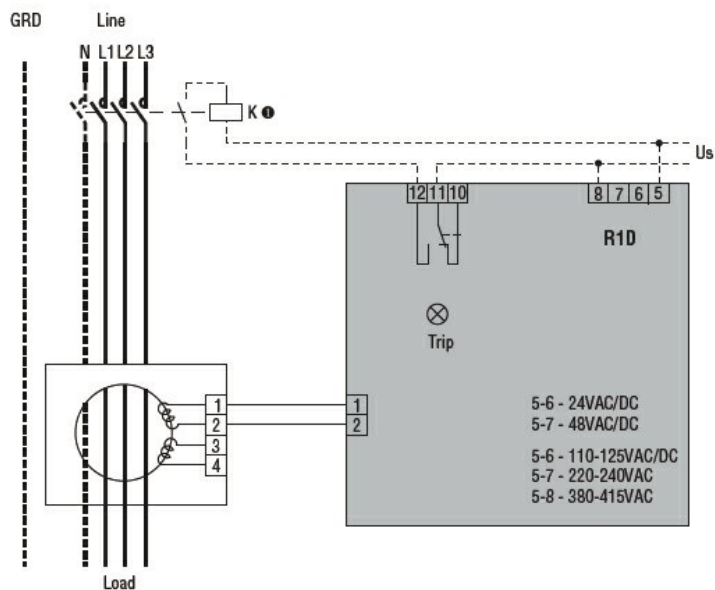
Dimensions (W x H x D)	mm	96x96x75
------------------------	----	----------

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