



Product designation

Earth leakage
relays

Product type designation

RM1

General characteristics

Description

Modular with
transparent
cover, 1
operating
threshold

N° of operating threshold

1

Control circuit

Toroidal transformer

External

Adjustments

Tripping set-point ($I\Delta n$)

(x1)

A

0.3 or 0.5

Tripping delay time

(tx1)

s

0.02 or 0.5

Resetting

Configurable
automatic or
manual by button
on front

Test Button

Yes

Shunt circuit control

No

Auxiliary supply

Auxiliary rated supply voltage U_s

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

3

Relay outputs

Relay state

Normally de-
energised

Contact arrangement

1 changeover
SPDT (trip)

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

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

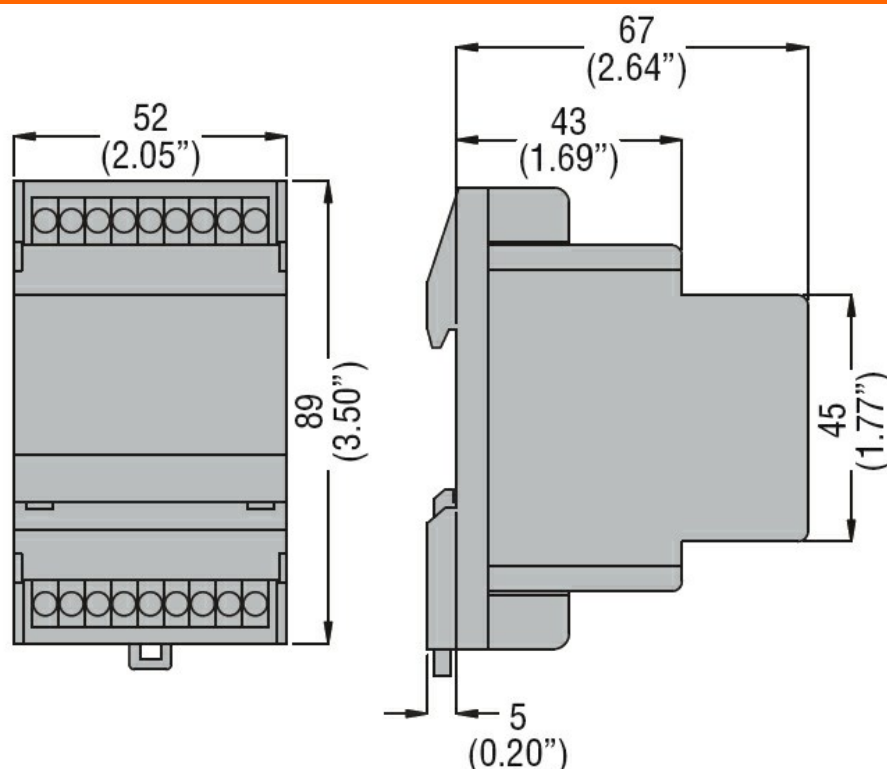
Temperature	Operating temperature		
	min	°C	-10
	max	°C	+60
	Storage temperature		
	min	°C	-20
	max	°C	+80

Relative humidity	%	≤90%
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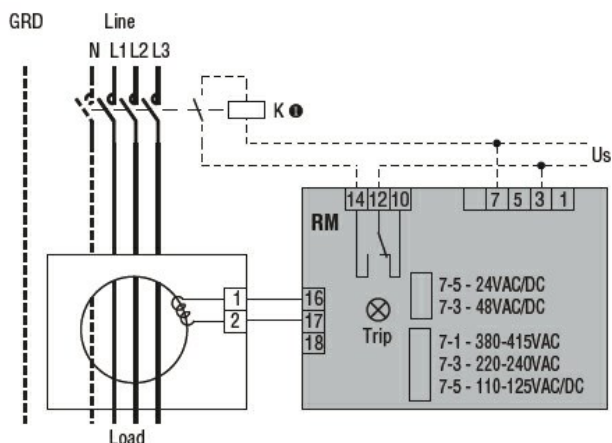
Housing

Material	Self-extinguishing polycarbonate	
Mounting	35mm DIN rail	
Degree of protection	IP20 terminals	
Dimensions (W x H x D)	mm	52x89x72
Weight	g	175

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