



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

24-48VAC/DC

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

Ibin

4.5

Conductor section

AWG/Kcmil

IEC	min	24
	max	12

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

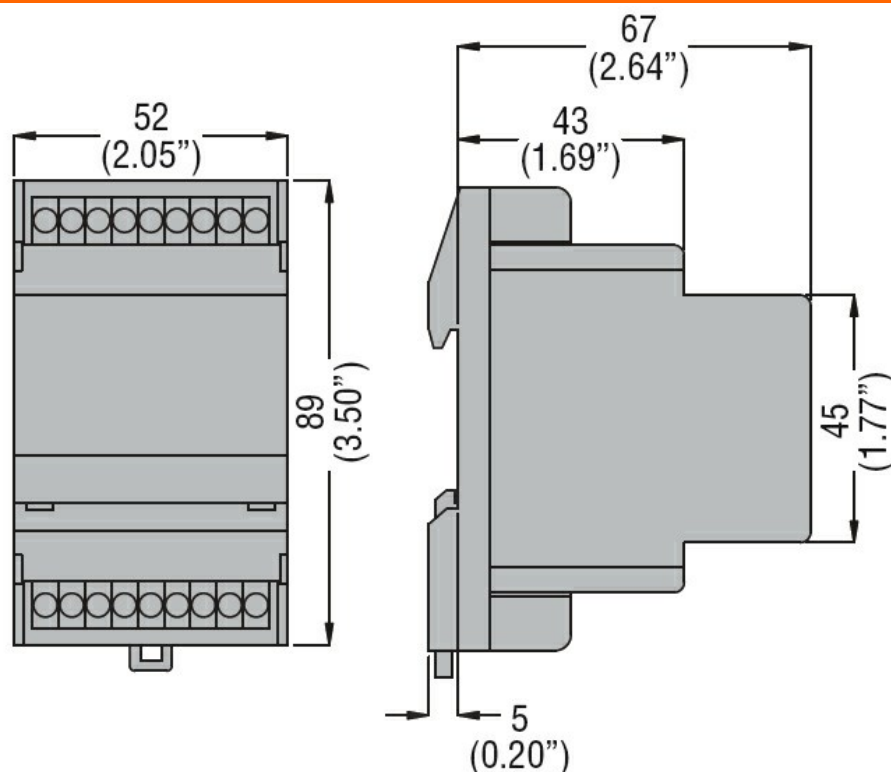
min	°C	-20
max	°C	+80

Relative humidity	%	≤90%
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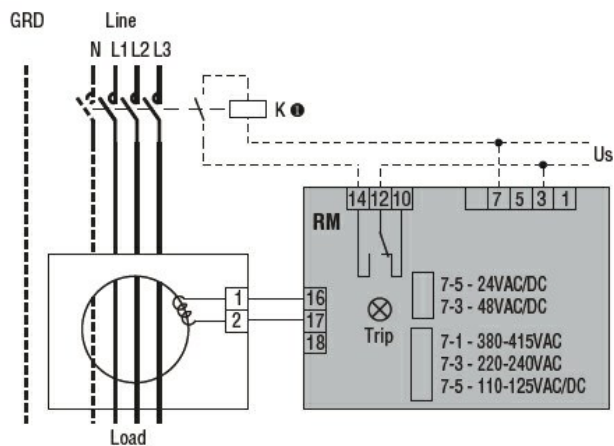
Housing

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