RESYS M40



Earth leakage relays type A "Motor feeder"

Function

RESYS M40 earth leakage relays are associated with a remote trip breaking device (automatic power breaking), thus providing the following functions:

- protection against indirect contact,

- limitation of leakage currents.

They also preventively monitor electrical installations via their (configurable) pre-alarm function or when used as signalling relays.

Conformity to standards

- IEC 60755
- IEC 60947-2
- IEC 62020IEC 60364

Rapid recognition of an insulation fault increases the availability of the distribution network by preventing accidental power cuts and the resulting loss of production. TRMS measurement avoids repeated random tripping and the bargraph allows the display of permanent leakage current.

Examples of conventional applications

AC LV networks: IT, TT, TNS.

Monitoring pure AC differential currents (type AC) and pulsed (type A) to provide the following functions:

- protection
 - against indirect contact,
- against fire or explosion risk, (classified sites BE2 and BE3 depending NF C 15-100),
- of earth and protection conductors.
- preventive signalling,
- monitoring installations where periodic insulation measurement with power off is impossible.

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General characteristics

- RESYS M40 with 2 configurable relays:
 either 2 alarm relays,
- or 1 alarm relay and 1 pre-alarm relay (50 % I Δ n).
- Adjustment sensitivity from 30 mA to 30 A.
- Time delay 0 to 10 s.
- Tripping accuracy by TRMS measurement.
- Automatic instantaneous tripping at 30 mA.
- Positive or negative security configurable by the user.
- Selection of toroid ratio.
- Automatic permanent relay-toroid connection test
- Sealable cover.



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Front panel

Alarm

Alarm configuration mode

Storage temperature

IΔn setting.
 Time delay setting
 Configuration micro-switches (x4).
 "ON" LED.
 "RESET" pushbutton
 "TRIP" alarm LED.
 LED bargraph (% t IΔn).
 "TEST" pushbutton

Characteristics

Auxiliary	power	supply	u

47 63 Hz	
0.8 1.15 U _s	
0.8 1.05 Us	
6 VA (AC) / 5 W (DC)	
64-1 standard)	
250 VAC	
2.5 kV (115 VAC) / 4 kV (230/400 VAC)	
Class 3	
IN WIN	
0.03 - 0.1 - 0.3 - 0.5 - 1 - 3 - 5 - 10 - 30 A	
- 20 10 % I∆n	
15 400 Hz	
0 - 0.06 - 0.15 - 0.30 - 0.50 - 0.80 - 1 - 4 - 10 s	
50 % I∆n	
20 % I∆n	

Case



Terminals and connections



Alarm factory setting storage Reset Manual by pushbutton / contact on terminals **Output contacts** Number of contacts 2 Type of ALARM 1 contact 250 VAC - 8 A - 2000 VA Type of ALARM 2 or PRE-ALARM contact 250 VAC - 6 A - 1500 VA ALARM 1 operating mode positive / negative security ALARM 2 or PRE-ALARM operating mode positive / negative security(1) negative security Factory setting of ALARM 1 operating mode Factory setting of ALARM 2 operating mode positive security (1) According to configuration. **Operating conditions** - 20 ... + 55 °C Operating temperature

storage / automatic reset

Туре	WT .
Number of modules	
Dimensions W x H x D	
Case degree of protection	"ONL."
Terminal block degree of	protection
Rigid cable connection se	ction
Flexible cable connection	section
Weight	

Modular 2.5 44 x 85 x 63.5 IP40 IP20 0.2 ... 4 mm² 0.2 ... 2.5 mm² 190 g

- 30 ... + 70 °C

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- 1 2 3: external pushbuttons
- **5 6 7:** auxiliary power supplies U_s **8 - 9:** SOCOMEC differential toroid connections
- **10 11:** alarm relay 2 or pre-alarm outputs
- 12 13 14: alarm relay 1 output

NOTE: The earthing must not pass through the C.T.

For single phase applications, only the live and neutral need to be passed through the C.T.

Cabling: for distances $> 1\mbox{ m},$ use twisted pair cable between the unit and C.T. Do not connect the shield to earth.

References

	RESYS M40
Auxiliary power supply Us ⁽¹⁾	Reference
115 / 230 VAC	4941 2723 ⁽²⁾
400 VAC	4941 2740 ⁽²⁾
12 125 VDC	4941 2602 ⁽²⁾

(1) Other rating: please consult us

(2) References and characteristics of closed, split core and rectangular toroids: see page 410 "Core balance transformers type A and type B".