

Дифференциальные реле защиты Socomec Resys - брошюра на продукцию. Юниджет

Постоянная ссылка на страницу: https://www.uni-jet.com/catalog/commutation/oborudovanie-dlya-elektronnoj-zashhityi/

RESYS®

Type A differential relays





Differential protection

> Safety for property and personnel

An insulation fault in any electrical installation represents a potential risk both to users and equipment. The installation itself can be subject to a fire risk if there is a build up of heat caused by a fault current.

The installation standard IEC 60364 for Low Voltage networks specifies the use of residual current differential devices. Specifically the protection requirements to be implemented for differing neutral points.

> Availability of installations

Rapid recognition of insulation faults ensures availability of distribution networks, avoids undesirable interruptions and minimises resultant production losses.

SOCOMEC, a specialist in control and protection for low voltage networks

SOCOMEC offers a complete range of devices for fault location and protection:



- Type A differential relays (sinusoidal alternating currents or alternating currents with a pulsed direct current component)
 RESYS* M and P range
- Type B differential relays (sinusoidal differential alternating currents or alternating currents with a pulsed direct current component or smooth direct differential currents):
 RESYS® B 420 range
- Fault location device: ISOM DLRD 460 system
- Associated detection toroids.

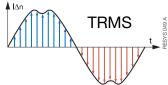
EASY INSTALLATION

- Compact size (48 x 48 x 90 mm) with quick release terminal block can be flush-mounted
- Modular, 2.5 modules only (44 mm).



MEASUREMENT

Efficient TRMS measurement provides improved performance against erroneous tripping.



FRONT PANEL CONFIGURATION

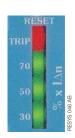
Dip switches for configuring:

- operating mode for relays,
- storage mode,
- choice of transformer ratio for toroids.



MONITORING DISPLAY

The bargraph displays leak currents so that insulation faults can be identified at an early stage.



RESYS® M and P

A complete range

PRINCIPAL FUNCTIONS







	RESYS® M20	RESYS® M40	RESYS® P40
TRMS measurement principle	•	•	•
Tripping threshold	set at 30 mA or 300 mA	30 mA to 30 A	30 mA to 30 A
Time delay	set at 0 or 60 ms	0 to 10 s	0 to 10 s
Instantaneous leak current indication (bargraph)		•	•
Pre-alarm signal		•	•
Sinusoidal residual current monitoring (class AC \sim)	•	•	•
Pulsed residual current monitoring (class A)	•	•	•

REFERENCES

AUXILIARY POWER SUPPLY U _S	RESYS® M20	RESYS® M40	RESYS® P40
12 to 125 V DC		4941 2602	4942 2602
115 V AC			4942 2711
230 V AC			4942 2723
115/230 V AC		4941 2723	
400 V AC		4941 2740	
30 mA - 0 s - 115/230 V AC	4941 4723		
300 mA - 0 s - 115/230 V AC	4941 5723		
300 mA - 60 ms - 115/230 V AC	4941 6723		

DIFFERENTIAL TOROIDS

Associated detection toroids: closed or open type, suitable for all cabling configurations





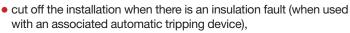


	W SERIES	WR AND TFR SERIES	WS SERIES
	CLOSED TOROIDS	RECTANGULAR CLOSED TOROIDS	SPLIT CORE TOROIDS
TOROID DIAMETER (mm)	REFERENCES	REFERENCES	REFERENCES
15	4793 2001		
35	4793 2003		
70	4793 2007		
105	4793 2010		
140	4793 2014		
210	4793 2020		
70 x 175		4795 0717	
115 x 305		4795 1130	
150 x 350		4795 1535	
200 x 500		4795 2050	
50 x 80			4795 0508
80 x 80			4795 0808
80 x 120			4795 0812
80 x 160			4795 0816

RESYS® M and P

Protection which makes the difference

The differential relays in the **RESYS*** range provide optimised protection for electrical networks:



• signal an earth fault current when the relay is used as a preventive signalling relay.



PROTECTION OF PERSONNEL

- indirect contacts (TT arrangement)
- extended cables (TN or IT arrangement)
- exposed conductive parts not interconnected (IT arrangement)

PROTECTION OF INSTALLATIONS

- fire risk premises (BE2)
- premises or sites classified as at risk of explosion (BE3)

PROTECTION OF EQUIPMENT AND MACHINERY

- risk of perforation of electrical sheets (motors)
- risk of destruction due to resistance drop
- PLC inputs (relays)

PREVENTIVE MONITORING

- detection of progressive deterioration in the insulation
- remote supervision so that maintenance can be carried out before tripping occurs



RESYS® M and P

Optimised performance

CHARACTERISTICS







	RESYS® M20	RESYS® M40	RESYS® P40	
SETTING RANGE	<u>'</u>			
Sensitivity	30 mA or 300 mA	30 mA or 300 mA 0.03/0.1/0.3/0.5/1/3/5/10/30 A		
Time delay	0 or 60 ms	0/0.06/0.15/0.3/0.5/0.8/1/4/10 s		
MONITORED NETWORK				
Rated frequency		15400 Hz		
AUXILIARY POWER SUPPLY				
Us DC	-	12 to 125 V DC (85 to 105%)		
Us AC	115/230 V AC	115, 230, 400 V AC ± 15 %		
INPUTS				
External TEST/RESET		Push button until it latches		
Toroid	Transformer ratio 1/600	Transformer ratio 1/600 or 1/1000		
OUTPUTS				
Type of ALARM contact	1 changeover contact			
	(250 V AC - 8 A - 2000 VA)	+ 1 single contact (250 V - 6 A - 1500 VA)		
ENVIRONMENT				
Working temperature		-20 to +55 °C		
Storage temperature		-30 to +70 °C		
Relative humidity		95%		
SWITCH BODY				
Туре	2.5 mod	2.5 modules 48 x 48 x 107 mm flush-mounted		
Flush mounting cutout	-	- 45 x 45 mm		
Front panel degree of protection		IP40		

THE RIGHT DIFFERENTIAL PROTECTION

> Type A differential relays: RESYS® M and P range

The device offers tripping with residual differential currents, alternating sinusoidal currents or pulsed continuous residual differential currents in which the direct current component remains below 6 mA for an interval of at least 150° at the rated frequency.







Fault location device

The DLRD 460 system monitors insulation fault currents and load currents: this innovative system prevents faults and provides control of TT or TN arrangement installations.

This solution is suited to industrial environments or specific environments such as public lighting, water treatment, telecoms. etc.





> Type B differential relays: RESYS® B420 range

The device offers tripping with differential currents identical to those in class A but also for differential currents originating from rectifier circuits:

- simple alternation with capacitive load producing a smooth continuous
- three-phase simple or double alternation,
- single-phase double alternation between phases,
- any which charges an accumulator bank.





0000

Socomec worldwide

IN EUROPE

BELGIUM

SOCOMEC BELGIE

B - 1190 Brussel

Tel. +32 (0)2 340 02 30 - Fax +32 (0)2 346 28 99

be.scp.order@socomec.com

FRANCE

SOCOMEC

F - 67235 Benfeld Cedex

Tel. +33 (0)3 88 57 41 41 - Fax +33 (0)3 88 74 08 00

scp.vex@socomec.com

GERMANY

SOCOMEC GmbH

D - 76275 Ettlingen

Tel. +49 (0)7243 65 29 2 0 - Fax +49 (0)7243 65 29 2 13

info@socomec.com

ITALY

SOCOMEC Elettrotecnica s.r.l.

I - 20098 San Giuliano Milanese (MI)

Tel. +39 02 98 498 21 - Fax +39 02 98 243 310

it.scp.info@socomec.com

SPAIN

SOCOMEC ELECTRO, S.L.

E - 08310 Argentona (Barcelona)

Tel. +34 93 741 60 67 - Fax. +34 93 757 49 52

es.scp.info@socomec.com

THE NETHERLANDS

SOCOMEC B.V.

NL - 3992 De Houten

Tel. +31 (0)30 63 71 504 - Fax +31 (0)30 63 72 166

info@socomec.nl

UNITED KINGDOM

SOCOMEC Ltd

Hitchin Hertfordshire SG4 0TY

Tel. +44 (0)1462 440033 - Fax +44 (0)1462 431143

sales.uk.scp@socomec.com

IN ASIA

NORTH EAST ASIA

SOCOMEC CHINA

CN - 20030 P.R.C Shanghai

Tel. +86 21 5298 9555 - Fax +86 21 6228 3468

socomec@socomec-shanghai.com

SOUTH EAST ASIA & PACIFIC

SOCOMEC SWITCHING AND PROTECTION

UBI TECHPARK - Singapore

Tel. +65 65 07 94 90 - Fax +65 65 47 86 93

sg.scp.socomec@socomec.com

SOUTH ASIA

SOCOMEC-HPL PVT

Gurgaon, Haryana - India

Tel. +91 124 2210970 - 74 - Fax +91 124 2210976

in.scp.socomec-hpl@socomec.com

IN MIDDLE EAST

UNITED ARAB EMIRATES

SOCOMEC Middle East

Dubai, U.A.E.

Tel. +971 4 88 11 623 - Fax +971 4 88 19 887

sales.ae.scp@socomec.com

HEAD OFFICE

SOCOMEC GROUP

S.A. SOCOMEC capital 11302300 € R.C.S. Strasbourg B 548 500 149

B.P. 60010 - 1, rue de Westhouse - F-67235 Benfeld Cedex - FRANCE

INTERNATIONAL SALES DEPARTMENT

1, rue de Westhouse - B.P. 60010 F - 67235 Benfeld Cedex - FRANCE

Tel. +33 (0)3 88 57 41 41 - Fax +33 (0)3 88 74 08 00

scp.vex@socomec.com

www.socomec.com



Non contractual document. © 2009, Socomec SA. All rights reserved.



Réalisation: SOCOMEC Service Communication