Дифференциальное реле Socomec Resys Type B (B475) - брошюра на продукцию. Юниджет

Постоянная ссылка на страницу: https://www.uni-jet.com/catalog/commutation/oborudovanie-dlya-elektronnoj-zashhityi/socomec-resys-b-470-b-471-b-475.html

RESYS Type B

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RESYS B 475 (Type A / AC / B)

1. "TEST/RESET" pushbutton.
2. "ON" LED.
3. "ALARM" / pre-alarm LED.
4. Parameter configuration microswitches (IΔn…).
5. Bargraph indicating the instantaneous value (in % of IΔn).
6. Time delay setting.
7. Setting value threshold IΔn.
8. Casing with 18 mm diameter built-in detection toroid.

Functions

RESYS type B earth leakage relays are associated with a remote trip breaking device (automatic power cut-off), thus providing the following functions:

- protection against indirect contacts,
- limitation of leakage currents.

They also preventively monitor electrical installations via their pre-alarm system or when used as signal relays.

They are particularly suited to installations where continuous components disturb conventional differential devices limited to type AC or A.

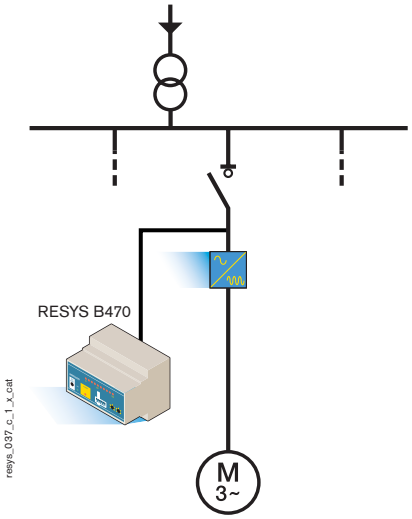
Conformity to standards

- IEC 60947-2
- IEC 60364
- IEC 60755
- IEC 62020
- HD 384

General characteristics

- Monitoring all types of differential current: DC (type B ⎓), sinusoidal (type AC ~) and pulsed (type A ⩙) in the TT, TNS and IT networks.
- Devices particularly suitable for circuits with converters (rectifiers, controllers…).
- Sensitivity of 0.03 to 3 A (depending on model).
- Time delay: 0 to 10 s.
- Automatic permanent toroid-relay connection test.
- Built-in 18 mm toroid (type B 475).

Applications



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Every time a conventional earth leakage device type AC or A is likely to be masked by continuous leakage currrents from converters (speed controllers, rectifiers…), RESYS type B relays must be used to ensure efficient operation.

Examples of conventional applications

AC LV networks, AC with DC parts, in TT, TNS, IT.

Universal monitoring of differential currents of AC type, strongly pulsed (type B ⎓ > limits of type A ⩙) and DC to provide the following functions:

- protection:
  - against indirect contacts,
  - complementary against direct contacts,
  - against fire risk,
  - motor, equipment and hardware protection,
  - protection of earth and protection conductors;
- preventive signalling;
- monitoring installations where periodic insulation measurement with power off is impossible;
- used with SOCOMEC "Core balance transformers" (see page B.82).

References

Auxiliary power supply U_s (1)	RESYS B 470 References	RESYS B 471 References	RESYS B 475 References
230 VAC	4931 **2723** (2)	4931 **2724** (2)	4931 **2725** (2)
90 … 132 VAC	4931 **2711** (2)	4931 **2712** (2)	4931 **2713** (2)
9.6 … 84 VDC	4931 **2604** (2)	4931 **2603** (2)	4931 **2601** (2)

(1) Other supply voltages: please consult us.
(2) References and characteristics of the "Core balance transformers", see page B.82.

Electrical characteristics

Auxiliary power supply U_s

Frequency	50 … 60 Hz
Operating zone	0.85 … 1.1 U_s
Max. consumption	3.5 VA

Insulation (according to IEC 60664-1 standard)

Rated insulation voltage	250 VAC
Rated impulse voltage	4 kV
Degree of pollution	Class 3

Threshold values

Setting IΔn	0.03 … 3 A (1) ; 0.1 … 3 A (2) ; 0.03 … 0.5 A (3)
Accuracy of tripping in class AC	-50 … +100 % IΔn
Accuracy of tripping in class B	-50 … +200 % IΔn
Domain of network frequency	0 … 150 Hz (1) ; 0 … 60 Hz (2) ; 0 … 700 Hz (3)
Specified time setting	0 … 10 s
PRE-ALARM relay tripping	50 % IΔn
Hysteresis of the PRE-ALARM relay	25 %

Alarm

Alarm factory setting	memorisation
RESET	manual by PB

Output contacts

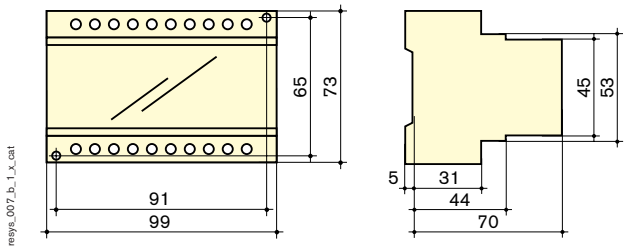
Number of contacts	2
Type of PRE-ALARM contact	250 VAC - 5 A - 1150 VA
Type of ALARM contact	250 VAC - 5 A - 1150 VA
PRE-ALARM operating mode	N.O. / N.C.
ALARM operating mode	N.O. / N.C.
Factory setting of PRE-ALARM operating mode	N.O.
Factory setting of ALARM operating mode	N.O.

Operating conditions

Operating temperature	-10 … +55 °C
Storage temperature	-40 … +70 °C

(1) RESYS B 470.
(2) RESYS B 471.
(3) RESYS B 475.

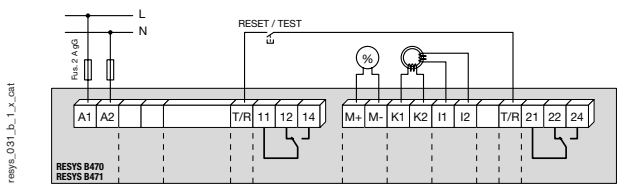
Overall dimensions



Type	modular
Dimensions W x H x D	99 x 73 x 75 mm
Case protection rating	IP30
Terminal block protection rating	IP20
Rigid cable connection section	0.2 … 4 mm²
Flexible cable connection section	0.2 … 2.5 mm²
Weight	350 g

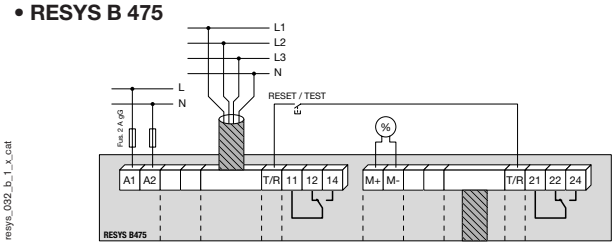
Terminals

• RESYS B 470 / B 471



A1 - A2: auxiliary power supplies U_s
T/R - T/R: external test and reset pushbuttons
11 - 12 - 14: alarm relay outputs
M+ - M-: offset insulation level indicators
K1 - K2 - I1 - I2: SOCOMEC type WX-A toroid connection
21 - 22 - 24: pre-alarm or alarm relay outputs

• RESYS B 475



A1 - A2: auxiliary power supplies U_s
Toroid inside casing
T/R - T/R: external test and rest pushbuttons
11 - 12 - 14: alarm relay outputs
M+ - M-: offset insulation level indicators
21 - 22 - 24: pre-alarm or alarm relay outputs
Remark: the PE conductor must be outside the detection toroid