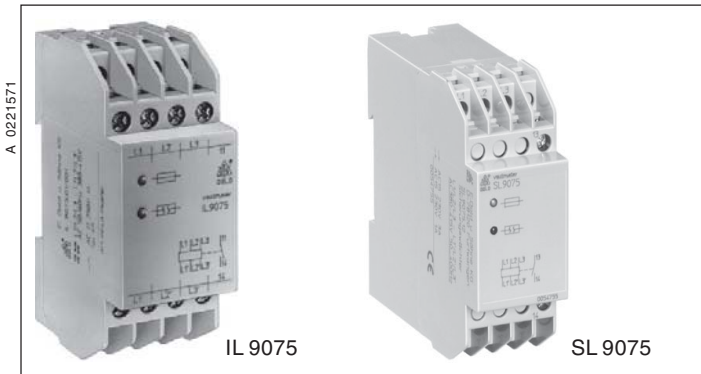
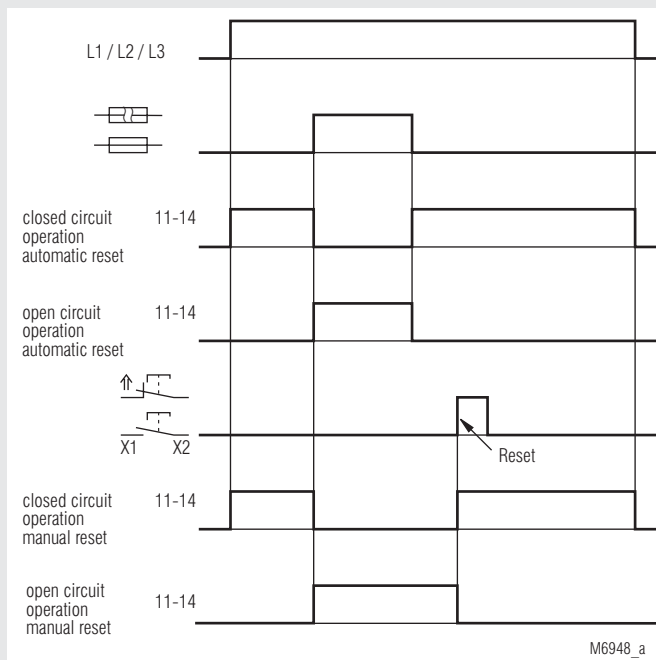




- According to IEC/EN 60 255, DIN VDE 0435-303
- **Devices available in 2 enclosure versions:**
 - I-model:** depth 59 mm, with terminals at the bottom for installation systems and industrial distribution systems according to DIN 43 880
 - S-model:** depth 98 mm, with terminals at the top for cabinets with mounting plate and cable duct
- Recognizes fuse failures in three-phase mains up to 3 AC 690 V
- Can be used for all types and sizes of fuses
- Independent of phase sequence
- Signals even if loads are switched off
- No malfunction on
 - asymmetrical mains
 - mains with harmonic waves
 - motors producing feedback
- Shorter response time than with motor circuit-breakers
- Optionally open/closed circuit operation in the case of IP 9075 programmable via X4-X5 or X3-X4
- Optionally with manual reset function and remote reset, programmable via X1-X2
- Green LED for intact fuses
- Red LED for fuse failure
- Optionally 1 NO contact or 2 changeover contacts
- IL 9075, SL 9075: width 35 mm
- IP 9075, SP 9075: width 70 mm

Function diagram



Approvals and marking



Applications

Fuse monitoring in the three-phase mains, e.g. for automatic switching-off and switch-on blockage of three-phase motors in the event of one or more phase fuses failing.

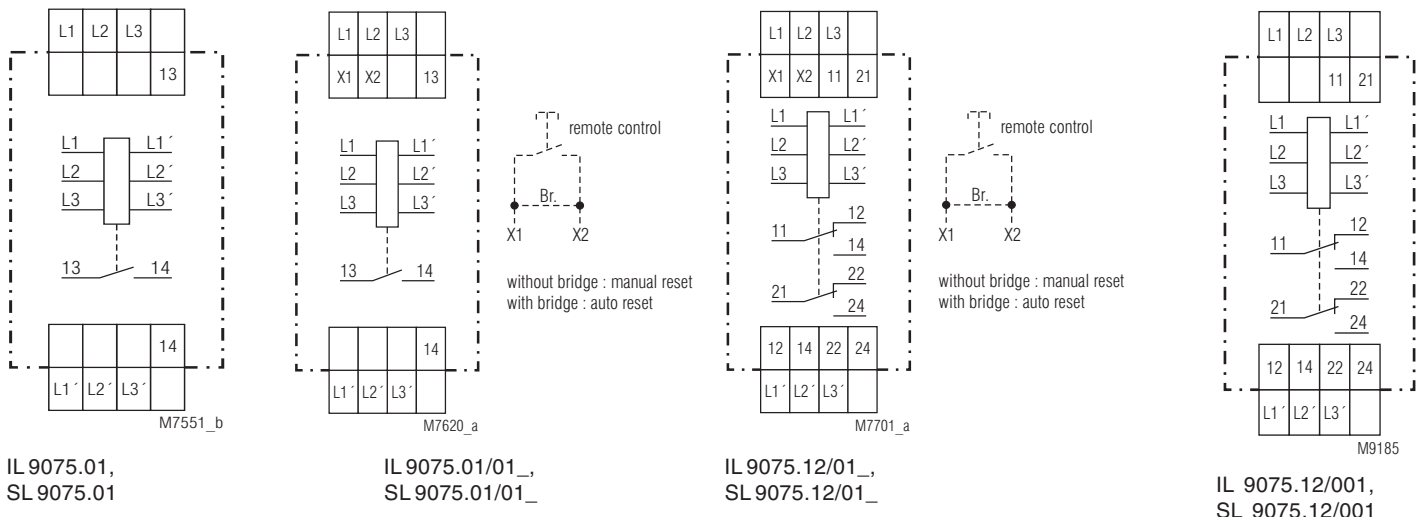
Indicators

green LED: for healthy fuse
red LED: for blown fuse

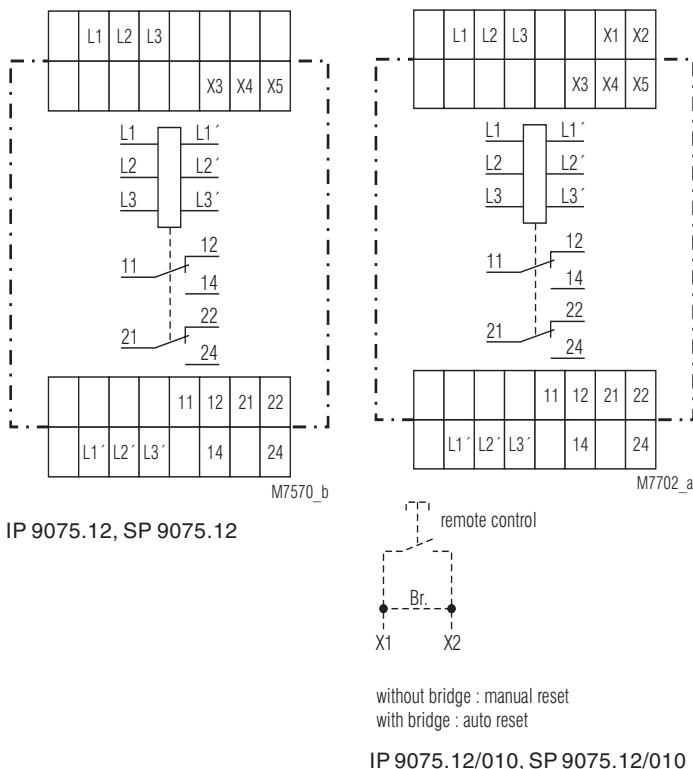
Notes

The internal resistance of the fuse monitor's measuring path is in the MOhm range, meaning that the regulations as regards touch voltage are fulfilled if a fuse is not present or if it is faulty (IEC 974-1, internal resistance > 2000 Ohm/V).

Circuit diagrams



Circuit diagrams



Technical data

Input

Nominal voltage U_N :

IL/SL 9075.01/___:

3 AC 110 ... 127 V
3 AC 220 ... 240 V
3 AC 380 ... 415 V
3 AC 400 ... 440 V

IL/SL 9075.12/___:

3 AC 110 V
3 AC 230 V
3 AC 400 V

IP 9075, SP 9075:

3 AC 480 ... 550 V, 600 ... 690 V

Voltage range:

0,8 ... 1,1 U_N

Nominal consumption:

IL 9075, SL 9075:

2,0 VA (on L2 / L3)

IP 9075, SP 9075:

3,0 VA (on L1 / L2)

Nominal frequency:

50 ... 400 Hz

Internal resistance of the measuring paths:

> 1000 Ω/V

Permissible feedback:

max. 90 %

Output

Contacts

IL/SL 9075.01/___:

1 NO contact

IL/SL 9075.12/___:

2 changeover contacts

IP/SP 9075.12/___:

2 changeover contacts

Response/release time:

closed circuit operation

IL/SL 9075. __/001:

< 50 ms

IL/SL 9075. __/011:

< 50 ms

IP/SP 9075:

< 50 ms

open circuit operation

IL/SL 9075. __:

< 500 ms

IL/SL 9075. __/010:

< 500 ms

IP/SP 9075:

< 500 ms

Output nominal voltage:

max. AC 250 V

Thermal current I_m :

4 A

Switching capacity

to AC 15

NO contact:

3 A / AC 230 V IEC/EN 60 947-5-1

NC contact:

1 A / AC 230 V IEC/EN 60 947-5-1

Technical data

Electrical life

to AC 15 at 1 A, AC 230 V

IL/SL 9075:

1,5 x 10⁵ switching cycles

IP/SP 9075:

2,5 x 10⁵ switching cycles

Short circuit strength

max. fuse rating:

4 A gL

IEC/EN 60 947-5-1

Mechanical life:

> 10⁸ switching cycles

General data

Operating mode:

Continuous operation

Temperature range:

- 20 ... + 60 °C

Clearance and creepage distances

overvoltage category /

contamination level:

4 kV / 2

IEC 60 664-1

EMC

Electrostatic discharge:

8 kV (air)

IEC/EN 61 000-4-2

HF irradiation:

10 V / m

IEC/EN 61 000-4-3

Fast transients:

4 kV

IEC/EN 61 000-4-4

Surge voltages

between

wires for power supply:

2 kV

IEC/EN 61 000-4-5

between wire and ground:

4 kV

IEC/EN 61 000-4-5

Interference suppression:

Limit value class B

EN 55 011

Degree of protection:

Housing:

Vibration resistance:

Climate resistance:

Terminal designation:

Wire fixing:

Mounting:

Weight:

IL 9075:

130 g

SL 9075:

157 g

IP 9075:

255 g

SP 9075:

304 g

Dimensions

Width x height x depth

IL 9075:

35 x 90 x 59 mm

SL 9075:

35 x 90 x 98 mm

IP 9075:

70 x 90 x 59 mm

SP 9075:

70 x 90 x 98 mm

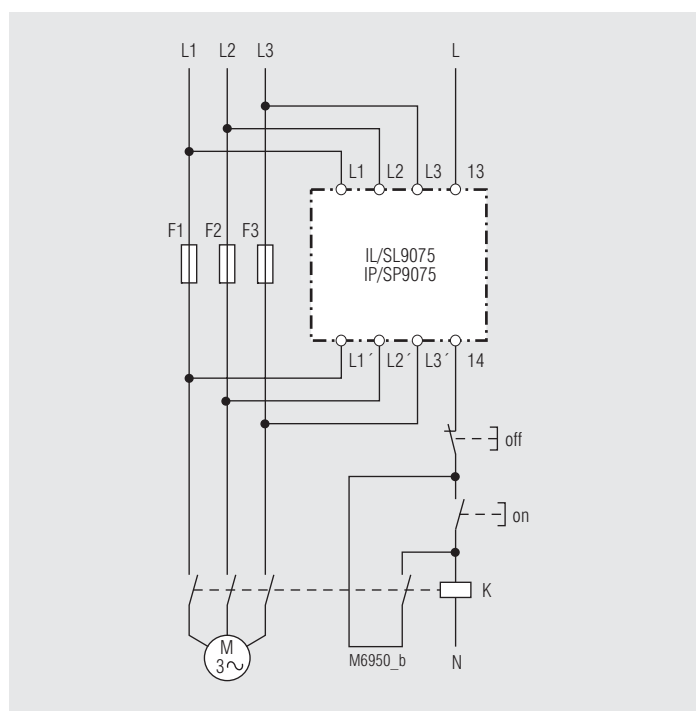
Standard type	
L 9075.01/001	AC 380 ... 415 V 50 ... 400 Hz
Article number:	0041517
SL 9075.01/001	AC 380 ... 415 V 50 ... 400 Hz
Article number:	0054755
Closed circuit operation	
Automatic reset	
1 NO contact	
Nominal voltage U _N :	AC 380 ... 415 V
Width:	35 mm

For rated voltages up to 3 AC 400 resp. 440 V:

IL 9075. __	:	open circuit operation, automatic reset
IL 9075. __/001	:	closed circuit operation, automatic reset
IL 9075. __/010	:	open circuit operation, manual reset
IL 9075. __/011	:	closed circuit operation, manual reset

Ordering example for variants

Connection examples

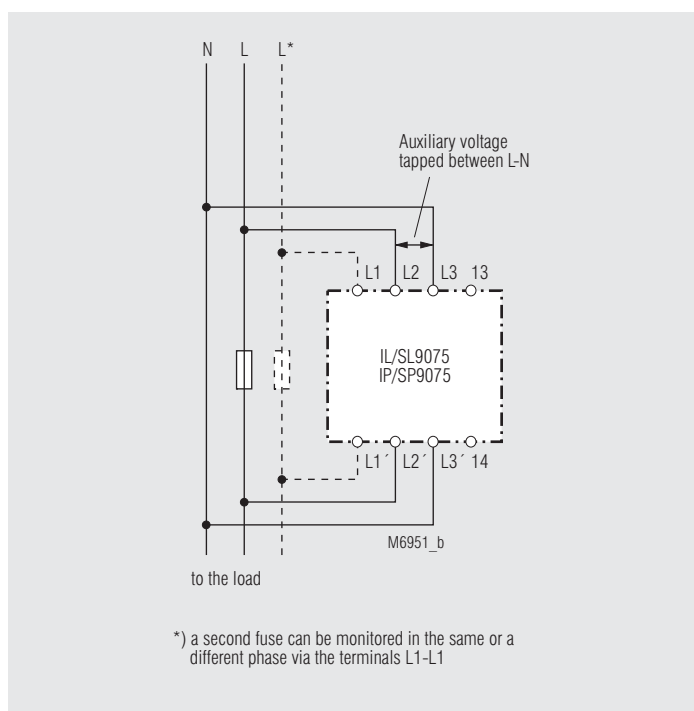


Fuse monitor according to IEC/EN 60 255, VDE 0435, to be mounted in distribution boxes, detects blown fuses in voltage systems up to 690 V (IL/SL 9075 only up to 415 V), can be used for all types of fuses and line circuit breakers also when load is switched off, 1 NO contact, energised on fault, 2 LED indicators, width 35 mm
Type IL 9075.01
Manufacturer E. DOLD & SÖHNE KG

Fuse monitor according to IEC/EN 60 255, VDE 0435, to be mounted in distribution boxes, detects blown fuses in voltage systems up to 690 V (IL/SL 9075 only up to 415 V), can be used for all types of fuses and line circuit breakers also when load is switched off, 1 NO contact, energised on fault, 2 LED indicators, width 35 mm
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Manufacturer E. DOLD & SÖHNE KG

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