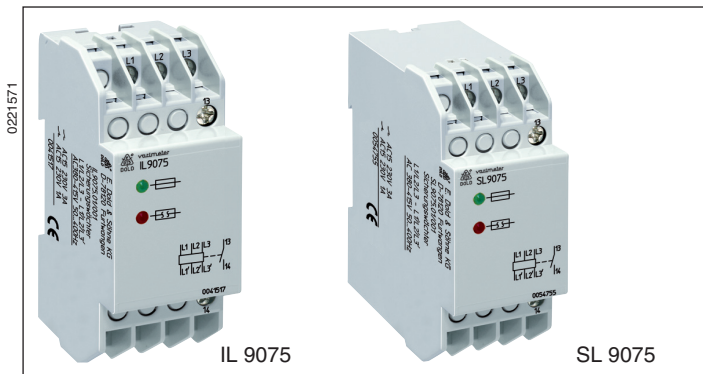


VARIMETER

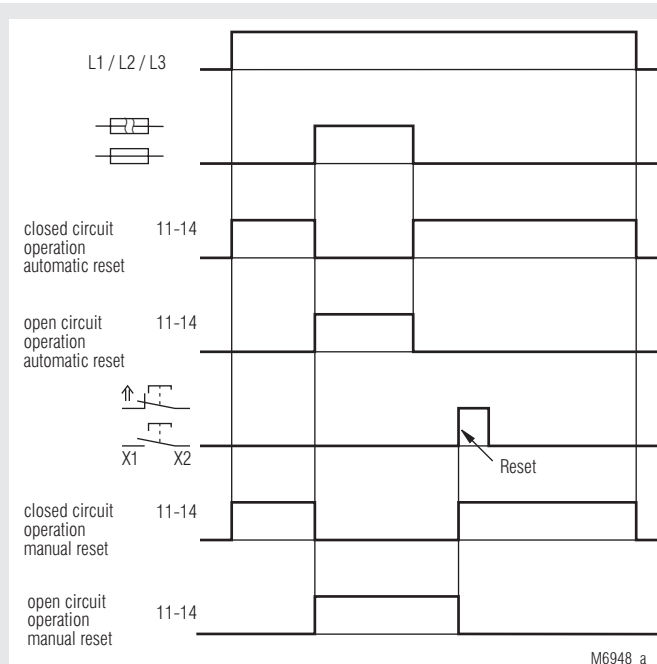
Fuse Monitor

IL 9075, IP 9075, SL 9075, SP 9075



- According to IEC/EN 60 255, DIN VDE 0435-303
- 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
- Green LED for intact fuses
- Red LED for fuse failure
- As option: open/closed circuit operation in the case of IP 9075 programmable via X4-X5 or X3-X4
- As option: with manual reset function and remote reset, programmable via X1-X2
- As option: 1 NO contact or 2 changeover contacts
- **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
- 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.

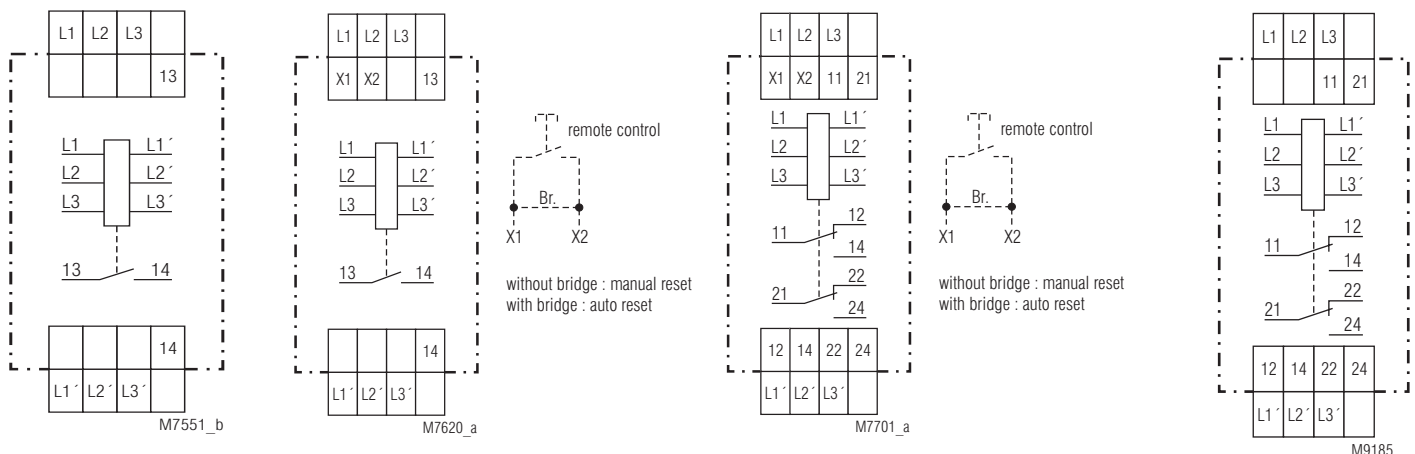
Indicators

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



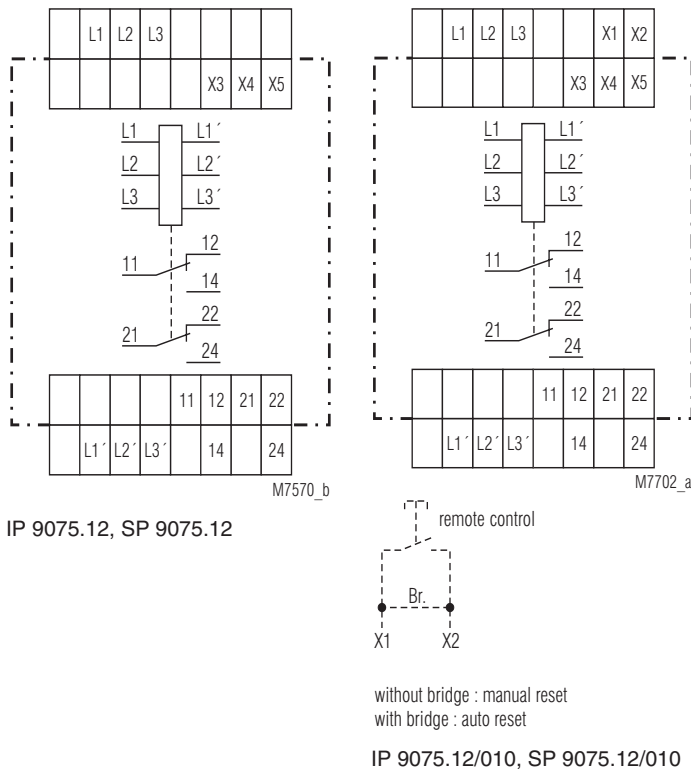
IL 9075.01,
SL 9075.01

IL 9075.01/01_,
SL 9075.01/01_

IL 9075.12/01_,
SL 9075.12/01_

IL 9075.12/001,
SL 9075.12/001

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:

Permissible feedback:	> 2000 Ω /V
	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:

Thermal current I_{th}:	max. AC 250 V
---	---------------

Switching capacity

to AC 15	
NO contact:	3 A / AC 230 V
NC contact:	1 A / AC 230 V

IEC/EN 60 947-5-1

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

rated impuls voltage /

pollution degree:

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:

IP 40

IEC/EN 60 529

Terminals:

IP 20

IEC/EN 60 529

Housing:

Thermoplastic with V0 behaviour

according to UL subject 94

Vibration resistance:

Amplitude 0.35 mm,

frequency 10 ... 55 Hz IEC/EN 60 068-2-6

20 / 060 / 04

IEC/EN 60 068-1

Climate resistance:

Terminal designation:

2 x 2.5 mm² solid or

2 x 1.5 mm² stranded ferruled

DIN 46 228-1/-2/-3/-4

Wire fixing:

Flat terminals with self-lifting

clamping piece

IEC/EN 60 999-1

DIN rail

IEC/EN 60 715

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 Types		
L 9075.01/001	AC 380 ... 415 V 50 ... 400 Hz	
Article number:	0041517	stock item
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		

stock item

Variants	
For rated voltages up to 3 AC 400 resp. 440 V:	
L 9075. __	: open circuit operation, automatic reset
L 9075. __/001	: closed circuit operation, automatic reset
L 9075. __/010	: open circuit operation, manual reset
L 9075. __/011	: closed circuit operation, manual reset

For rated voltages up to 3 AC 690 V,
open/closed circuit operation, settable:

IP 9075.12	: automatic reset
IP 9075.12/010	: manual reset or automatic reset settable

Ordering example for variants

IL 9075 .01 / _ _ _ AC 380 ... 415 V 50 ... 400 Hz

- Nominal frequency
- Nominal voltage
- Variant, if required
- Contact
- Type

Connection Examples

Specification for Tender for IL 9075, SL 9075

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, energized 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, energized on fault, 2 LED indicators, width 35 mm
Type SL 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, de-energized on fault, 2 LED indicators, width 35 mm
Type IL 9075.01/001
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, de-energized on fault, 2 LED indicators, width 35 mm
Type SL 9075.01/001
Manufacturer E. DOLD & SÖHNE KG

Connection Examples

