

Features

- **Functionality:** Designed to monitor overvoltage, undervoltage, phase sequence/failure in a 3-phase network, ensuring equipment protection.
- **Power supply:** The relay is powered by the monitored voltage.
- **Adjustable levels:** Both the upper (U_{max}) and lower (U_{min}) voltage levels can be customized.
- **Response delay:** Adjustable response delay to eliminate the effects of short-term voltage drops and spikes.
- **Fault state indication:** Indicated by an illuminated red LED and by the opening of output contact.
- **Phase failure protection:** If any monitored phase drops below 60 % U_n (UOFF bottom level), the output contact opens immediately without delay.
- **Supply from L1-L2-L3,** ensuring the relay remains operational even if one phase fails.

RS PRO Monitoring Relay

766920



RS PRO is the own brand of RS. The RS PRO Seal of Approval is your assurance of professional quality, a guarantee that every part is rigorously tested, inspected, and audited against demanding standards. Making RS PRO the Smart Choice for our customers.

Product description

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Technical parameters

Supply monitored terminals:	L1-L2-L3
Supply/monitored voltage:	3× 400 V (50-60 Hz)
Consumption (max.):	2 VA/1 W
Upper level setting (U_{max}):	105 - 125 % U_n
Lower level setting (U_{min}):	75 - 95 % U_n
Max. permanent voltage:	AC 3× 460 V
Peak overload (<1ms):	AC 3× 500 V
Start delay (t_1):	max. 500 ms
Response delay (t_2):	adjustable, 0.1 - 10 s
Restart delay (t_3):	max. 1 s

Accuracy

Hysteresis	± 2 %
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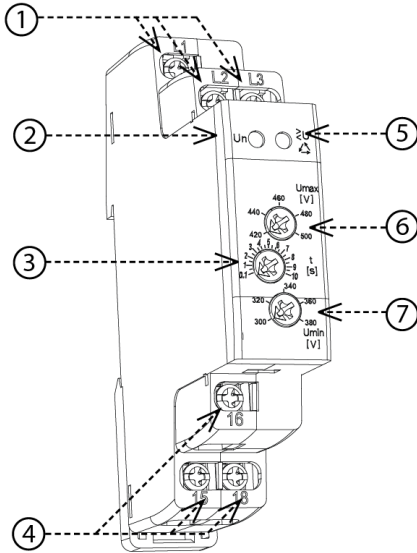
Output

Contact type:	1× changeover/SPDT (AgNi)
Current rating:	8 A/AC1; PD. B300
Breaking capacity:	2000 VA/AC1, 240 W/DC1
Inrush current:	10 A
Switching voltage:	AC 250 V/DC 24 V
Power dissipation (max.):	0.6 W
Mechanical life:	60.000.000 ops.
Electrical life (AC1):	150.000 ops.

Other information

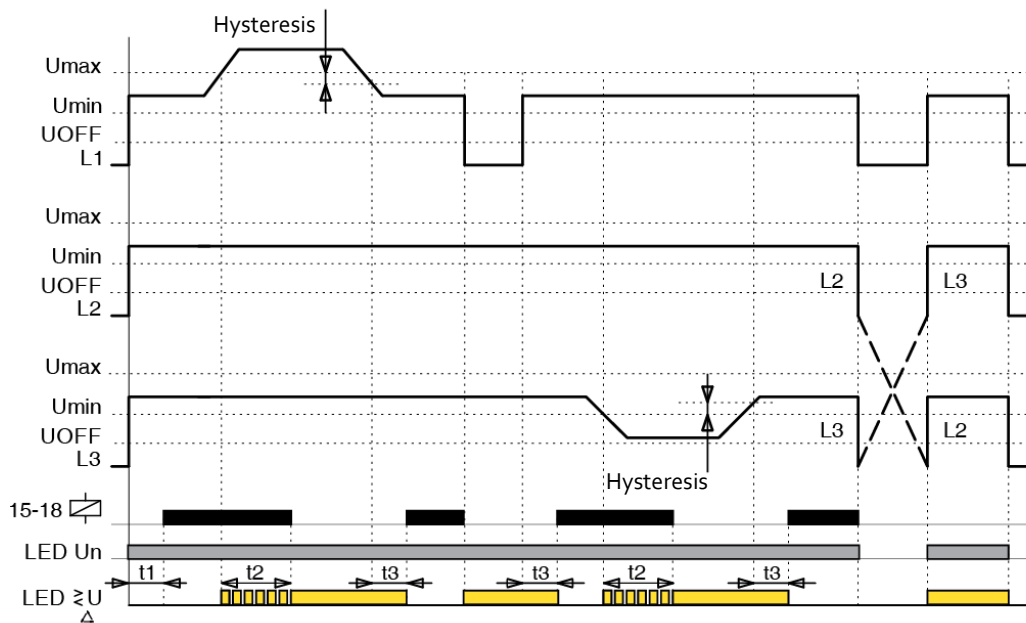
Operating temperature:	−20 .. +55 °C (−4 .. 131 °F)
Storage temperature:	−30 .. +70 °C (−22 .. 158 °F)
Dielectric strength:	AC 4 kV (supply – output)
Operating position:	any
Mounting:	Din rail EN 60715
Protection degree:	IP40 front panel /IP10 terminals
Overvoltage category:	III.
Pollution degree:	2
Cross-wire section – solid/ stranded with ferrule (max.):	1× 4; 2× 2.5 mm ² (1× 12; 2× 14 AWG)/ 1× 2.5; 2× 1.5 mm ² (1× 14; 2× 16 AWG)
Dimensions:	90 × 17.6 × 64 mm (3.5" × 0.7" × 2.5")
Weight:	62 g (2.19 oz)
Standards:	EN 60255-1, EN 60255-26, EN 60255-27

Description

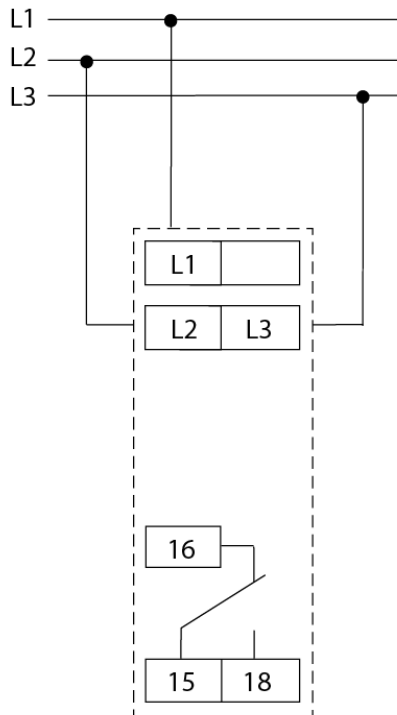


1. Supply/monitored voltage terminals (L1-L2-L3)
2. Supply/monitored voltage indication
3. Response delay settings (t_2)
4. Output contact (15-16-18)
5. Indication of operating states
6. Upper level settings (U_{max})
7. Lower level settings (U_{min})

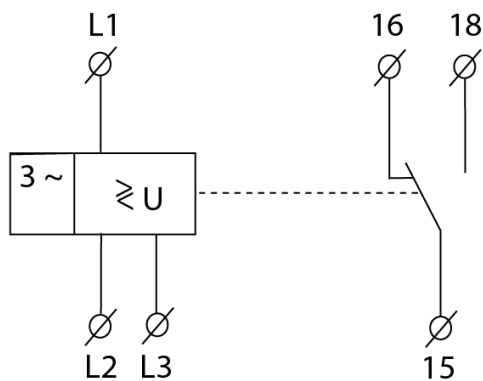
Function



Connection



Symbol



Function description

The relay in a 3-phase network monitors the phase voltages magnitude. Two independent voltage levels can be set to monitor undervoltage and overvoltage separately.

Under normal conditions, the output contact remains closed when the voltage stays within the set levels, the red LED stays off. If the voltage exceeds or drops below the set levels, the output contact opens, and the red LED turns on to indicate a fault state (flashing during delay).

If the monitored voltage falls below 60 %Un (UOFF bottom level, phase failure), the output contact opens immediately without response delay (t_2), and the red LED signals a fault state as in the previous case. If a phase failure occurs during an ongoing response delay the output contact opens immediately.