



We realize ideas

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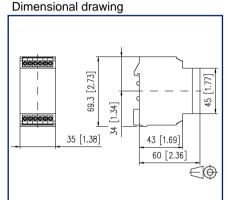
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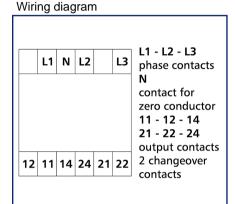
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Data sheet DUW-C12

Illustrations







See enlarged drawings at the end of document

Product specification

Undervoltage monitor in three-phase mains (each phase against neutral) with fixed threshold value, fixed hysteresis and integrated testing key. It has been developed especially for emergency lighting to DIN VDE 0108. The device can also be used for monitoring an individual phase. All unoccupied inputs have to be connected to the connected phase. If there is an inverse voltage due to the consumer, which exceeds the adjusted threshold value, there is not any fault message. OK message: Relay is activated (contacts 11-14 and 21-24 closed), LED is off. Fault message: Relay is deactivated (contacts 11-14 and 21-24 open), LED is on. Key pressed: Relay is being deactivated (contacts 11-14 and 21-24 open), LED lights up.

· Connection with screw type terminal blocks





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C | Logline

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|--|--|
| Technical Data | |
| Supply | |
| Operating voltage | 3N 400/230 V -30% +10% |
| Frequency range | 50 Hz |
| Consumption | 16 VA (1,7 W) |
| Recovery time | < 300 ms |
| Inputs | |
| Threshold voltage fixed | fixed, 195 V AC (UN x 0,85) |
| Basic accuracy | +/- 4 % |
| Repeatability | +/- 1 % |
| Monitoring voltage (L1, L2, L3) | 3 x 230/400 V AC, 50 Hz |
| Dropout voltage | < 85 % of supply voltage |
| Shutter release delay | fixed, approx. 100 ms |
| Switching hysteresis | fixed, approx. 5 % |
| Temperature error | 0.1 %/°C |
| Outputs | |
| Contacts | 2 changeover contacts |
| Contact material | AgNi |
| Switching voltage (max.) | 250 V AC |
| Continuous Current | 8 A |
| Switching frequency | 360 switching cycles/h |
| Mechanical life | 3x10 ⁷ switching cycles |
| Electrical life | 2x10 ⁵ switching cycles |
| Indicator | green and red LED |
| Insulation coil - contact set | |
| Nominal voltage of the power supply system | 230 / 400 V AC |
| Overvoltage category | |
| Degree of pollution | 2 2 |
| Rated test voltage | 4 kV 2.5 kV |
| Type of insulation | basic insulation reinforced insulation |
| | |





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| Technical Data | |
|---|--|
| Housing | |
| Dimensions | |
| Dimension (W x H x D) | 35 mm x 69.3 mm x 60 mm |
| Dimension (W x H x D) | 1.378 in. x 2.728 in. x 2.362 in. |
| Weight | 110 g |
| Mounting style | Standard rail TH35 |
| Mounting position | any |
| Apposition | without distance |
| Connection type | Screw type terminal blocks |
| Terminal blocks | |
| Wire cross section solid | 0.34 mm ² - 2.5 mm ² / AWG 22-12 |
| Wire cross section multi | 0.25 mm ² - 2.5 mm ² / AWG 22-12 |
| Wire cross section with wire ferrule | 0.25 mm ² - 2.5 mm ² / AWG 22-12 |
| Screw torque (max.) | 0.5 Nm |
| Stripping length (min.) | 8 mm |
| Material | |
| Material - Housing | Polyamid 6.6 V0 |
| Color | gray |
| Material - Terminal block | Polyamid 6.6 V0 |
| Material - Covers | Polycarbonat |
| Protection category according to IEC 60529 | |
| Protection category - housing (acc. to IEC 60529) | IP40 |
| Protection category - terminal blocks (acc. to IEC 60529) | IP20 |
| Temperature range | |
| Operating | |
| Temperature - Operating °C | -5 °C - 55 °C |
| Temperature - Operating °F | 23 °F - 131 °F |
| Storage | |
| Temperature - Storage °C | -20 °C - 70 °C |
| Temperature - Storage °F | -4 °F - 158 °F |







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| Technical Data | | |
|----------------------|----------|--|
| Power loss | | |
| Power loss (typical) | 2.3 W | |
| Classifications | | |
| ETIM 7.0 | EC001441 | |
| ETIM 8.0 | EC001441 | |
| ETIM 9.0 | EC001441 | |





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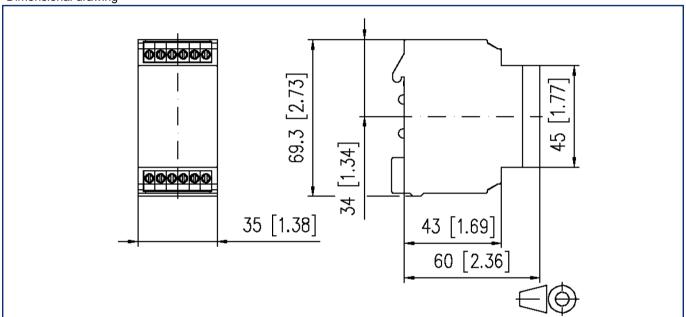
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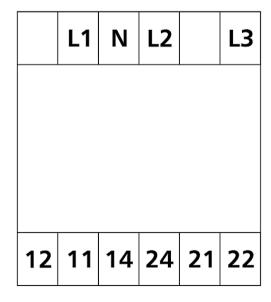
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Illustrations

Dimensional drawing



Wiring diagram



L1 - L2 - L3
phase contacts
N
contact for
zero conductor
11 - 12 - 14
21 - 22 - 24
output contacts
2 changeover
contacts







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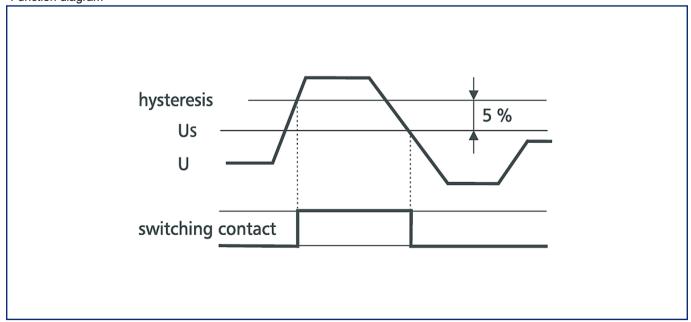
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L1 205V 250VAC 4A 1000 VA 1214 2224 195V 195V

11

21

Function diagram







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