C | Logline

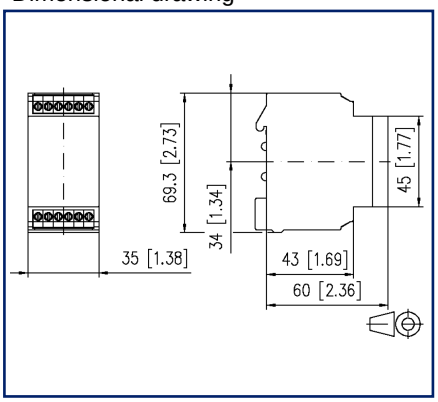
METZ CONNECT
We realize ideas

Data sheet
DUW-C12

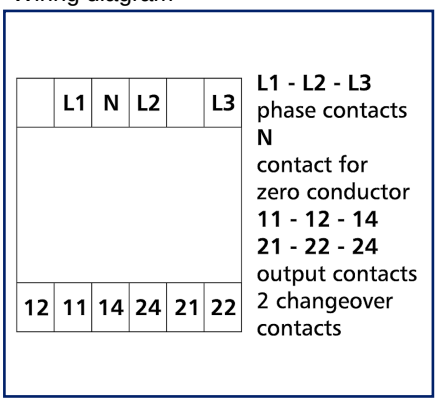
P/N 110271
EAN 4250184120964
2024/10/23
Version: G

Illustrations

Dimensional drawing



Wiring diagram



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
- Not intended for marketing in North America

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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	III | II
Degree of pollution	2 | 2
Rated test voltage	4 kV | 2.5 kV
Type of insulation	basic insulation | reinforced insulation

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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 mm² - 2.5 mm² / AWG 22-12
Wire cross section multi	0.25 mm² - 2.5 mm² / AWG 22-12
Wire cross section with wire ferrule	0.25 mm² - 2.5 mm² / 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
Climatic Data	
Operating	
Temperature - Operating °C	-5 °C - 55 °C
Temperature - Operating °F	23 °F - 131 °F
Relative humidity	max. 85 % non-condensing
Storage	
Temperature - Storage °C	-20 °C - 70 °C
Temperature - Storage °F	-4 °F - 158 °F

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Power loss	
Power loss (typical)	2.3 W
Classifications	
ETIM 7.0	EC001441
ETIM 8.0	EC001441
ETIM 9.0	EC001441

Application note

This product is a standard product of METZ CONNECT. METZ CONNECT is not aware of the specific intended use of the goods by the Customer or any customers of the Customer. The Customer guarantees that it has fully and sufficiently tested the use of the goods and any product modifications, product changes or product enhancements with regard to the specific intended use in accordance with the state of the art or in any other way. At METZ CONNECT's request, the Customer shall submit and make available meaningful evidence (e.g. test and laboratory protocols, certifications, etc.).

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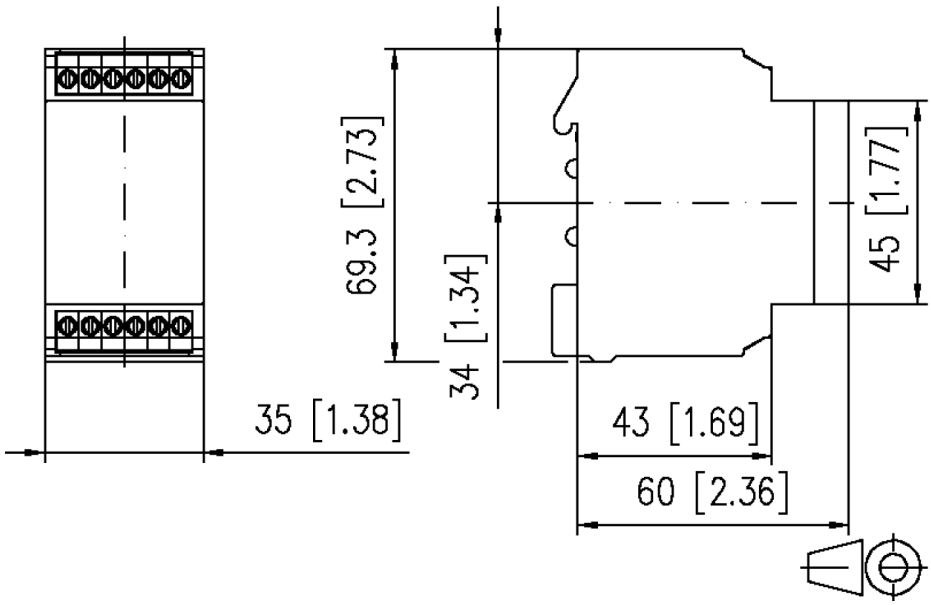
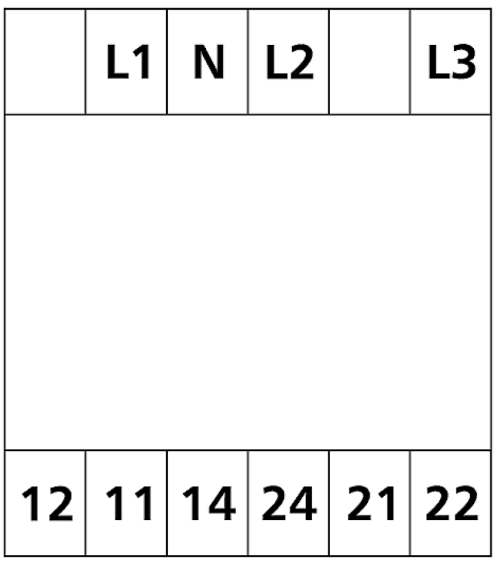
Dimensional drawing



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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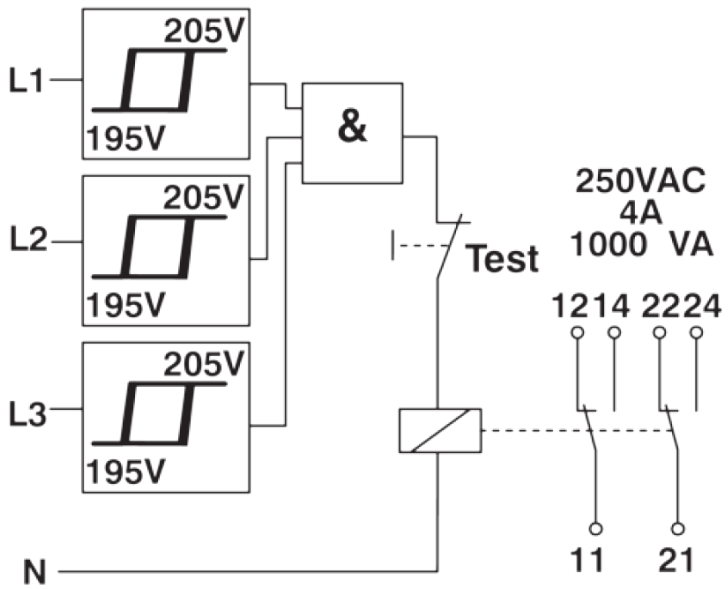
Principle diagram



Function diagram