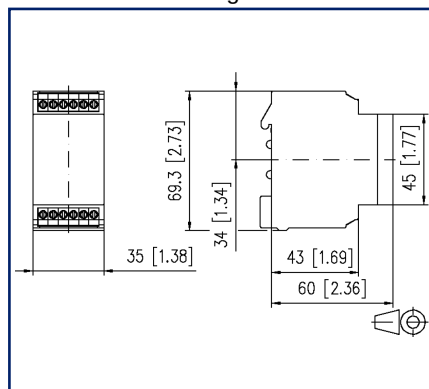


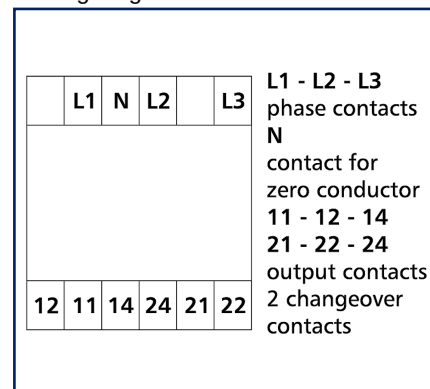
Illustrations



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

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



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

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

Technical Data**Power loss**

Power loss (typical)	2.3 W
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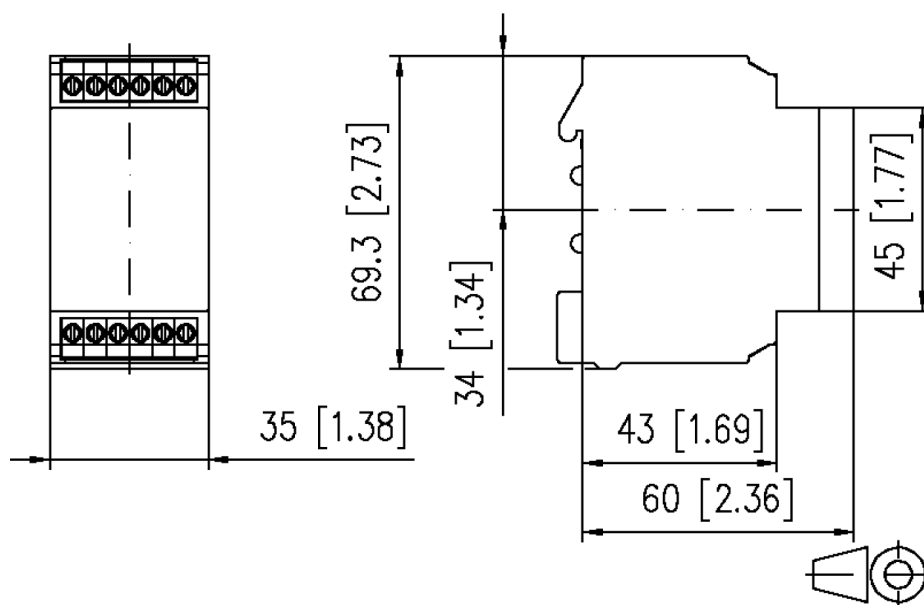
Classifications

ETIM 7.0	EC001441
ETIM 8.0	EC001441
ETIM 9.0	EC001441



Illustrations

Dimensional drawing



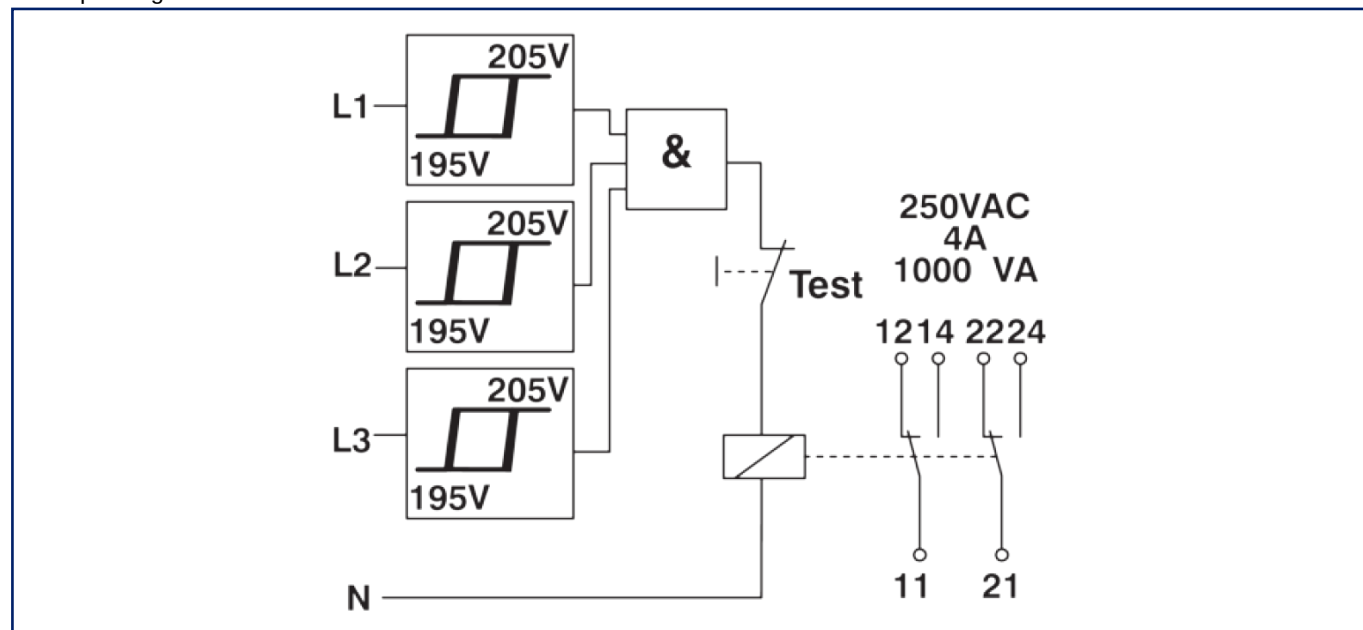
Wiring diagram

	L1	N	L2		L3
12	11	14	24	21	22

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

Illustrations

Principle diagram



Function diagram

