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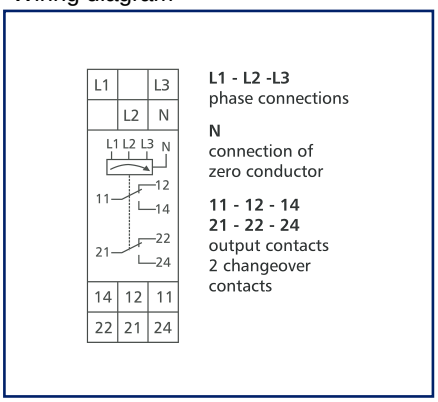
METZ CONNECT
We realize ideas

Data sheet
PFD3-E12, 400 V AC

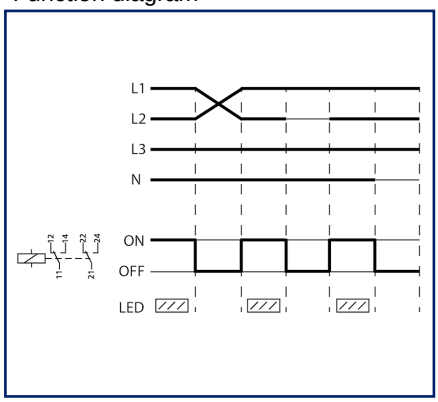
P/N 110292032230
EAN 4251394613017
2023/06/20
Version: B

Illustrations

Wiring diagram



Function diagram



See enlarged drawings at the end of document

Product specification

The monitoring relay monitors the correct phase sequence L1-L2-L3 (direction of rotation to the right) and complete failures of individual phase voltages. The phase voltages to be monitored are connected to the terminals L1-L2-L3, the terminals 11, 14 or 21, 24 of the relay output contacts are connected ahead of the field coil of the motor relay.If the phase sequence is correct, the output relay is activated (green LED is on). In case of total failure of a phase, the output relay returns to its neutral position (green LED is off).A special supply voltage is not required for the monitoring relay. Connect the device to N. In case of total failure of N (zero conductor), the output relay returns to its neutral position (green LED is off).

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Technical Data

Supply	
Operating voltage	400 V AC -15% … +10%
Power consumption (max.)	10 mA
Inputs	
Response delay	<= 1 s
Shutter release delay	>= 100 ms
Outputs	
Contacts	2 changeover contacts
Contact material	AgNi
Switching voltage (max.)	250 V AC
Continuous Current	6 A
Switching frequency	1200 switching cycles/h
Mechanical life	$1x10^7$ switching cycles
Electrical life	$1x10^5$ switching cycles
Indicator	green LED
Housing	
Dimensions	
Dimension (W x H x D)	22.5 mm x 75 mm x 95 mm
Dimension (W x H x D)	0.886 in. x 2.953 in. x 3.74 in.
Weight	120 g
Mounting style	Standard rail TH35
Mounting position	any
Apposition	without distance
Connection type	Screw type terminal blocks
Terminal blocks	
Wire cross section solid	0.2 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

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Technical Data

Material	
Material - Housing	Polyamid 6.6 V0
Color	gray
Material - Terminal block	Polyamid 6.6 V0
Material - Covers	Polyamid 6.6 V0
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
Power loss	
Power loss (typical) coil	800 mW
Power loss (typical) Contact rate	700 mW
Classifications	
ETIM 7.0	EC001441
ETIM 8.0	EC001441
ETIM 9.0	EC001441

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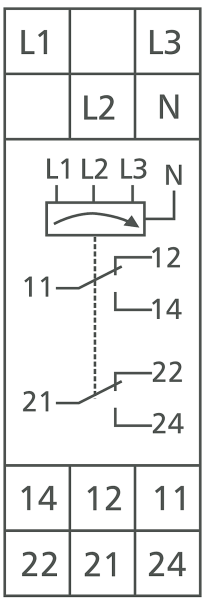

L1 - L2 -L3
phase connections

N
connection of
zero conductor

11 - 12 - 14
21 - 22 - 24
output contacts
2 changeover
contacts

Function diagram