

Data sheet

PFD3-E12, 400 V AC

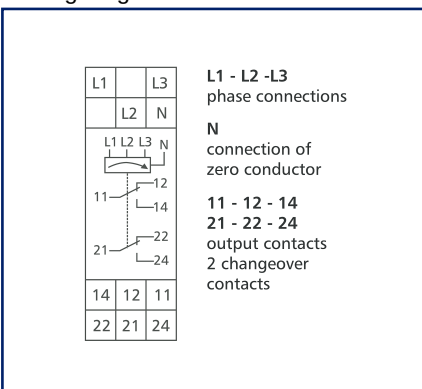
Page 1/4

P/N
110292032230
EAN 4251394613017
2026/09/23
Version: H

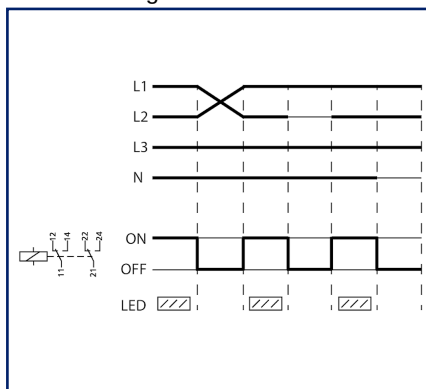
Illustrations



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).

Data sheet

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Page 2/4

P/N
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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	1×10^7 switching cycles
Electrical life	1×10^5 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 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



Data sheet

PFD3-E12, 400 V AC

Page 3/4

P/N
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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
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
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
ETIM 10.0	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.

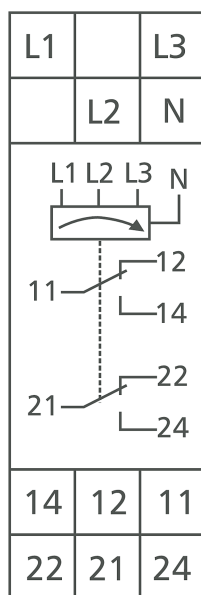
Data sheet PFD3-E12, 400 V AC

Page 4/4

P/N
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Illustrations

Wiring diagram



L1 - L2 -L3
phase connections

N
connection of
zero conductor

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

Function diagram

