### Data sheet PFD2-E12

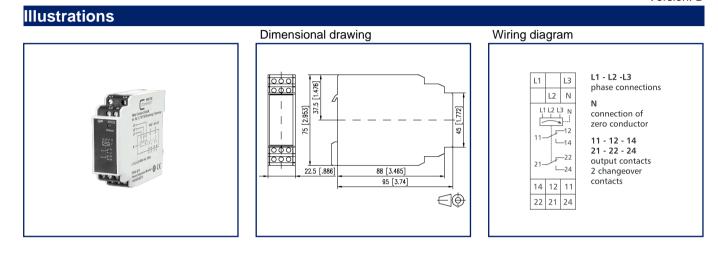


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#### P/N 110292032215

#### EAN 4250184118176

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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. Only connect the device to N if the three phases to monitored are connected to N over an electric circuit (e.g. temperature monitoring or similar).





# Data sheet PFD2-E12



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### **Technical Data**

Supply		
Operating voltage	400 V AC -15% +10%	
Frequency range	50 Hz	
Power consumption (max.)	20 mA	
Inputs		
Response delay	5 s	
Outputs		
Contacts	2 changeover contacts	
Contact material	AgNi	
Switching voltage (max.)	250 V AC	
Continuous Current	6 A	
Switch-off delay	230 V~ 6 A AC1, 230 V~ 3 A AC3, 230 V~ 0,12 A, 60 V~ 0,6 A, 24 V~ 4 A, 12 V~ 6 A DC1	
Switching frequency	1200 switching cycles/h	
Mechanical life	1x10 <sup>7</sup> switching cycles	
Electrical life	1x10 <sup>5</sup> 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 mm <sup>2</sup> - 2.5 mm <sup>2</sup> / AWG 22-12	
Wire cross section with wire ferrule	0.25 mm <sup>2</sup> - 2.5 mm <sup>2</sup> / AWG 22-12	
Screw torque (max.)	0.5 Nm	
Stripping length (min.)	8 mm	

2024 METZ CONNECT - Technische Änderungen vorbehalten! Subject to modifications! Sous réserve de modifications techniques! 0





# Data sheet PFD2-E12



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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	0 °C - 55 °C
Temperature - Operating °F	32 °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





# CONNECT

We realize ideas

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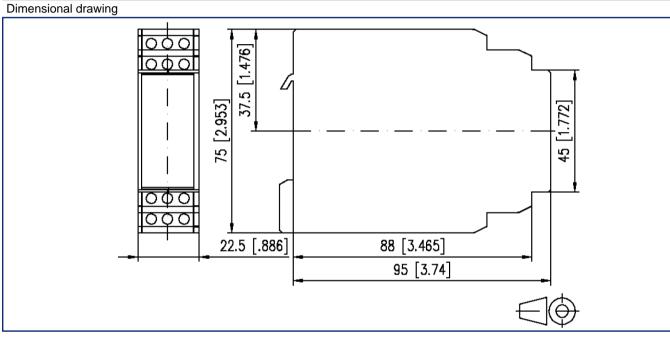
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Data sheet PFD2-E12

Illustrations



Wiring diagram

L1		L3
	L2	Ν
L1  11- 21-		3 N 12 14 22 24
14	12	11
22	21	24

documentation supplémentaire voir www.metz-connect.com

### L1 - L2 -L3 phase connections

N connection of zero conductor

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



Data sheet PFD2-E12



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