

Data sheet

CPW-E12, 230 V AC, 1 - 10 A

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P/N

1102810520

EAN 4250184121039

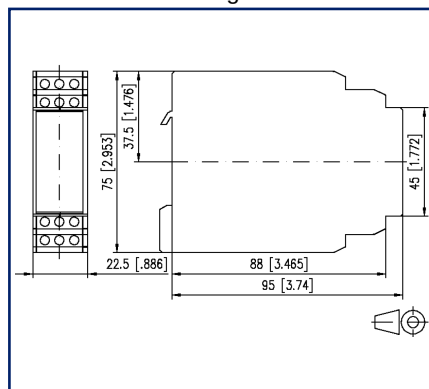
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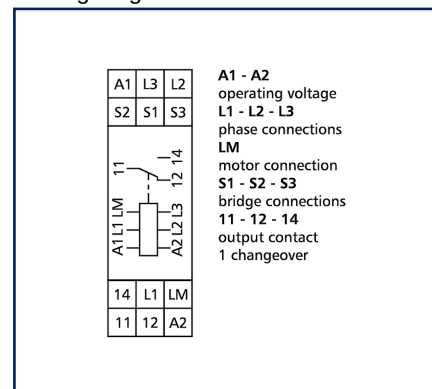
Illustrations



Dimensional drawing



Wiring diagram



See enlarged drawings at the end of document

Product specification

The cosPhi monitor is used for detecting underload. The response value and the response time can be adjusted. It can also be used in combination with a frequency converter (frequency: 2 to 200 Hz). Monitoring is accomplished by recognizing the phase shift between current and voltage. This phase angle varies depending on the motor load. The functions can be adjusted by means of bridges S1 - S2 - S3: S1 - S2 open = relay deactivated with underload, S1 - S2 bridged = relay activated with underload, S1 - S3 open = with fault memory, S1 - S3 bridged = without fault memory. The module can be unblocked remotely by means of a closing contact on S1 - S3. If there is a fault memory (no bridge over S1-S3), the fault message is active until it is acknowledged or the supply voltage is interrupted.

Technical Data

Supply

Operating voltage	230 V AC -10% ... +10%
Frequency range	2 ... 200 Hz
Duty cycle relative	100 %

Inputs

Input voltage (1 ... 10)	230 V AC, 400 V AC
Input current (1 ... 10)	min. 1 A, max. 10 A
Response value cosPhi	0 - 0,97, adjustable
Response time	1 s - 100 s, adjustable

Outputs

Contacts	1 changeover contact
Contact material	AgNi
Switching voltage (max.)	250 V AC
Continuous Current	4 A
Switch-off delay	1000 VA
Switching frequency	1200 switching cycles/h
Indicator	green and red 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	170 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



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	0 °C - 55 °C
Temperature - Operating °F	32 °F - 131 °F

Storage

Temperature - Storage °C	-20 °C - 70 °C
Temperature - Storage °F	-4 °F - 158 °F

Classifications

ETIM 7.0	EC001441
ETIM 8.0	EC001441
ETIM 9.0	EC001441

C | Logline

Data sheet

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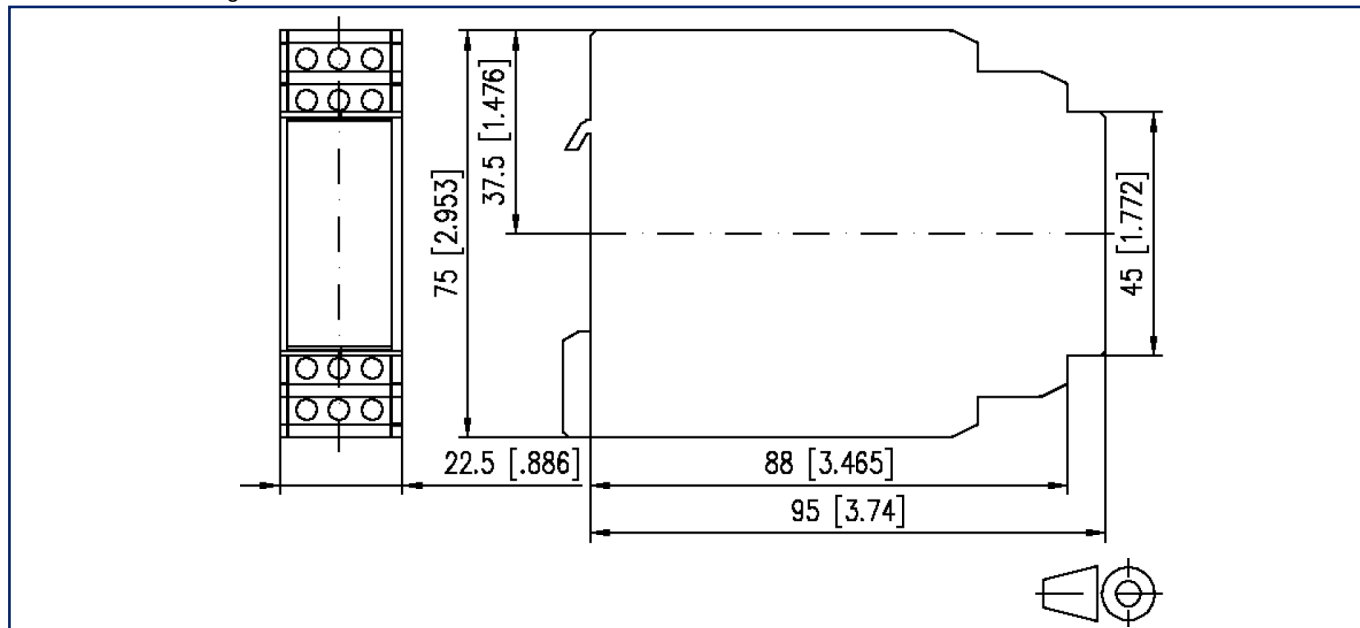
Accessories

P/N	Designation
1101810507	Current Converter TAmmini 50/5 A
1101810508	Current Converter TAmmini 100/5 A

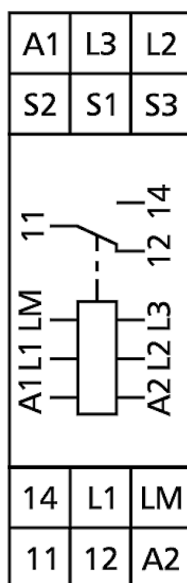


Illustrations

Dimensional drawing



Wiring diagram



A1 - A2
operating voltage
L1 - L2 - L3
phase connections
LM
motor connection
S1 - S2 - S3
bridge connections
11 - 12 - 14
output contact
1 changeover

Illustrations

Function diagram

