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DK 7030.050

CMC III power units

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FRIEDHELM LOH GROUP

DK 7030.050 - CMC III power units

For measuring current/energy and for activating/de-activating consumers, such as fans for instance.







Features

Model No.	DK 7030.050
Product description	The input is switched to the outputs via two relays. In this way, the outputs can be linked to measured values for automatic switching. Fan regulation is one example of a potential application. Manual switching via the CMC III operating interface is likewise supported. Each output is monitored individually, and various values are measured. Cannot be operated with the Processing Unit Compact.
Benefits	Fast connection and automatic detection via plug & play
Function principle	Switches 2 outputs Measurement of voltage, current, power, work For controlling and switching fans, heaters, equipment
Material	Plastic Front: Smooth Enclosure: Textured
Colour	Enclosure: RAL 7035 Front: RAL 9005
Supply includes	CMC III Power Unit Assembly parts for mounting on surfaces
Input connection	IEC 320 connector C14

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Features

Interface bus system	2 x RJ45 CAN bus
No. of participants per IoT interface (max.)	16
No. of participating PU (max.)	8
Note	Cannot be operated with the Processing Unit Compact For controlling fans, one interference suppressor 7030051 per fan is required
Dimensions	Width: 138 mm Height: 40 mm Depth: 132 mm
Output connections	2 x IEC 320 socket C13, switched
Measurement range cos φ	0 - ± 90 °
Energy consumption	0 - 1,000,000 kWh
Active power	46 - 2.3
Rated frequency	50 - 60 Hz
Operating temperature range	0 °C...55 °C
Ambient humidity (non-condensing)	5...95 %
Pre-fuse	Miniature circuit-breaker/fuse: 10 A
Voltage	110 - 230 V
Packs of	1 pc(s).
Net weight	0.4 kg
Gross weight	0.588 kg
CRA risk class	Default (Low Risk)
Customs tariff number	85311095
ETIM 9	EC002627
ECLASS 8.0	27189253
Product description	DK CMC III Power Unit, For power supply and controlling IT equipment via CMC III, Input: C14 100-230 V, 10 A 50/60 Hz, Output: 2x C13, 100-230 V, in total up to 10 A, 50/60 Hz

Approvals

Explanations

Manufacturer's declaration

Tender text

7030.050
CMC III Power Unit
Packs of 1
Compact plastic housing with ventilated front in RAL 9005.
Housing in RAL 7035, The unit has two RJ45 connections with an integrated CAN bus. The unit is automatically detected by the CMC III system, the Processing Unit, and is provided with a sequential number in the bus sequence. Integrated multi-colour LED as status display. The power unit has an input with a C14 IEC 320 connection. The input has a 10 A fuse and can be supplied with 100 - 240 V AC. The energy input is switched to two C13 IEC 320 connections via two relays. Thus, the CMC 3 can use the Power Unit to supply fans or other equipment with energy, switch these on or off or automatically control a temperature sensor connected in the CMC III system.
The Power Unit is also used for measurement of the following electrical values:
- 1x voltage [V] at the input
- 1x frequency [Hz] at the input
- 2x current [A] at the outputs
- 2x active power [W] at the outputs
- 2x consumption [kWh] at the outputs

The power supply is ensured by connection to the CAN bus for the Processing Unit.
The warning and alarm limit values can be set via the software for the CMC III Processing Unit, however they are saved in the sensor itself.
Technical specifications - Voltage measurement:
Measurement range: 100 to 230 V 50/60 Hz
Measurement precision: +/- 3% at the measurement range end value
Resolution: 1 V
Technical specifications - Frequency measurement:
Measurement range: 0 to 60 Hz
Measurement precision: +/- 3% at the measurement range end value
Resolution: 1 Hz
Technical specifications - Current measurement:
Measurement range: 200 mA to 10 A
Measurement precision: +/- 3% at the measurement range end value
Resolution: 0.1 A
Technical specifications - Active power measurement:
Measurement range: 46 W to 2.3kW

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Measurement precision: +/- 3% at the measurement range end value
Resolution: 1 W
Technical specifications - Consumption measurement:
Measurement range: 0 to 100,000 kWh
Measurement precision: +/- 3% at the measurement range end value
Resolution: 0.1 kWh
Technical specifications:
Input: C14 100-230 V, 10 A
50/60 Hz
Fuse: 10 A
Output: 2x C13 100-230 V,
in total up to 10 A, 50/60 Hz
CAN bus jacks RJ45: 2
Rated voltage: 24 V DC
WxHxD: 138 x 40 x 120+12 Front mm
Temperature application range:
0 °C to 55 °C
Humidity range:
5% to 95% relative humidity, non-condensing
Protection category: IP 30 to IEC 60 529
Included in the pack: Unit, quick reference guide, side mounting and top-hat rail mounting set