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## DK 7030.050 CMC III power units

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# 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<br>Measurement of voltage, current, power, work<br>For controlling and switching fans, heaters, equipment   |
| Material            | Plastic<br>Front: Smooth<br>Enclosure: Textured  |
| Colour              | Enclosure: RAL 7035<br>Front: RAL 9005   |
| Supply includes     | CMC III Power Unit<br>Assembly parts for mounting on surfaces  |
| Input connection    | IEC 320 connector C14  |

# 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<br>For controlling fans, one interference suppressor 7030051 per fan is required  |
| Dimensions                                   | Width: 138 mm<br>Height: 40 mm<br>Depth: 132 mm   |
| Output connections                           | 2 x IEC 320 socket C13, switched  |
| Measurement range $\cos \varphi$             | 0 - $\pm 90^\circ$  |
| 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  |
| 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

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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

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