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Current measuring transducers for measuring AC, DC, and distorted currents. Configuration via USB-C interface via the web server (without 24 V DC). Current measuring ranges: 0 A ... 125 A. Modbus/RTU interface configuration (RS-485), Standard configuration, Push-in connection

Commercial data

Item number	1191986
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CMMA34
GTIN	4063151244200
Weight per piece (including packing)	141.2 g
Weight per piece (excluding packing)	141.2 g
Country of origin	DE

## Technical data

### Product properties

Product type	Current measuring transducer
Insulation characteristics	
Insulation	Safe isolation in accordance with IEC/EN 61010-1
Overvoltage category	III (300 V)
Pollution degree	2

### Electrical properties

Step response (10-90%)	200 ms (AC/DC)
	20 ms (DC)
Maximum temperature coefficient	< 0.03 %/K
Maximum transmission error	0.5 % (of nominal range value under nominal conditions)
Rated insulation voltage	300 V AC (to earth)

#### Electrical isolation IEC 61010-2-030

Standards/regulations	IEC 61010-2-030
Measuring category	III (300 V)

#### Electrical isolation Input/output

Test voltage	4 kV AC (50 Hz, 60 s)
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#### Electrical isolation Input/power supply

Test voltage	4 kV AC (50 Hz, 60 s)
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#### Electrical isolation Output/supply

Test voltage	2 kV AC (50 Hz, 60 s)
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#### Supply

Nominal supply voltage	24 V DC
Nominal supply voltage range	12 V DC ... 24 V DC -20 % ... +25 %
Supply voltage range	9.6 V DC ... 30 V DC
Power consumption	≤ 1.8 W (30 V DC)

### Input data

#### Measurement

Input current range	0 A AC ... 100 A AC
	-100 A DC ... 100 A DC
Measuring range	0 A AC/DC ... 50 A AC/DC
Setting range for min. input current	0 A AC/DC ... 9.4 A AC/DC
	0 A AC/DC ... 18.8 A AC/DC
Setting range for max. input current	0 A AC/DC ... 62.5 A AC/DC (DIN/EN 61010-1)
	0 A AC/DC ... 125 A AC/DC (DIN/EN 61010-1)
	-125 A DC ... 125 A DC (DIN/EN 61010-1)

Overload capacity	$2 \times I_N$ (continuous), depending on the fed-through conductor
Surge strength	$20 \times I_N$ (1 s), depending on the fed-through conductor
Frequency measuring range	0 Hz
	10 Hz ... 100 Hz
	10 Hz ... 200 Hz
	10 Hz ... 500 Hz
	10 Hz ... 1000 Hz
Curve type	AC, DC or distorted currents

### Connection data

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section AWG	24 ... 13

#### Circular conductor

Conductor cross section rigid	25 mm <sup>2</sup>
Conductor cross section AWG	3

### Interfaces

#### WBM

Designation	WBM: Default address, USB-C interface
IP address	192.168.128.1

#### Modbus RTU

Designation	Modbus/RTU interface configuration
Note	Register contents, see register table
Connection method	RS-485
Address setting	Modbus default address: 1
Parity	even
Stop bit	1
Data bits	8
Transmission speed	19200 baud

### Dimensions

#### Item dimensions

Width	22.6 mm
Height	106.7 mm
Depth	113.8 mm
	114.5 mm (Snapped onto DIN rail NS 35/7,5 in accordance with EN 60715)

#### Circular conductor

Diameter	11 mm
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# ECM-UC-100A-MRTU - Current measuring transducer



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## Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0 (Housing)
Housing material	PA 6.6-FR

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 60 °C
	-40 °F ... 140 °F
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 4000 m
Permissible humidity (operation)	≤ 95 % (non-condensing)

## Approvals

### CE

Certificate	CE-compliant
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### UKCA

Certificate	UKCA-compliant
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### UL, USA/Canada

Identification	Ind. Cont. Eq. E238705-E196811
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## EMC data

Electromagnetic compatibility	Conformance with EMC directive
Low Voltage Directive	Conformance with Low Voltage Directive
Noise immunity	EN 61000-6-2
Noise emission	EN 61000-6-4

## Standards and regulations

Standards/regulations	IEC 61010-1
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## Mounting

Mounting position	vertical or horizontal
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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1191986>



**cULus Listed**

Approval ID: E238705



**cULus Listed**

Approval ID: E196811



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## Classifications

### ECLASS

ECLASS-11.0	27210123
ECLASS-12.0	27210123
ECLASS-13.0	27210123

### ETIM

ETIM 9.0	EC002475
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)

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## Accessories

### SZS 0,6X3,5 - Screwdriver

1205053

<https://www.phoenixcontact.com/in/products/1205053>



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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