

1191970
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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). Four current measuring ranges: 0 A ... 0.1 A to 0 A ... 12.5 A. Modbus/TCP interface configuration (RJ45), Standard configuration, Push-in connection

Commercial data

Item number	1191970
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CMMA33
GTIN	4063151243753
Weight per piece (including packing)	149 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	≤ 2.3 W (30 V DC)

Input data

Measurement

Input current range	0 A AC ... 10 A AC
	-10 A DC ... 10 A DC
Measuring range	0 A AC/DC ... 0.1 A AC/DC
	0 A AC/DC ... 1 A AC/DC
	0 A AC/DC ... 5 A AC/DC
Setting range for min. input current	0 A AC/DC ... 100 mA AC/DC
Setting range for max. input current	0 A AC/DC ... 12.5 A AC/DC (DIN/EN 61010-1)
	0 A AC/DC ... 10 A AC/DC (UL 61010-1)

ECM-UC-10A-MTCP - Current measuring transducer



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	-12.5 A DC ... 12.5 A DC (DIN/EN 61010-1)
	-10 A DC ... 10 A DC (UL 61010-1)
Overload capacity	2 x I _N
Surge strength	10 x I _N
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 ² ... 2.5 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section AWG	24 ... 13

Interfaces

WBM

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

Modbus TCP

Designation	Modbus/TCP interface configuration
Note	Register contents, see register table
Connection method	RJ45
IP address	192.168.1.2
	255.255.255.0 (Subnet)

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)

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

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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

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cULus Listed

Approval ID: E238705



cULus Listed

Approval ID: E196811



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

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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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