

1698172

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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. Relay output, Standard configuration, Push-in connection

### Commercial data

Item number	1698172
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CMMA34
GTIN	4067923263055
Weight per piece (including packing)	163 g
Weight per piece (excluding packing)	141.2 g
Country of origin	DE



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#### 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	< 0.02 %/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)

#### 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 W (30 V DC)

### Input data

### Signal: digital

Measuring range

Setting range for min. input current

Voltage input signal	0 V DC 30 V DC
Current input signal	2 mA 15 mA
Measurement	
Measurement Input current range	0 A AC 100 A AC

0 A AC/DC ... 50 A AC/DC

0 A AC/DC ... 9.4 A AC/DC



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0 A AC/DC 18.8 A AC/DC
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)
$2 \times I_N$ (continuous), depending on the fed-through conductor
$20 \times I_N$ (1 s), depending on the fed-through conductor
0 Hz
10 Hz 100 Hz
10 Hz 200 Hz
10 Hz 500 Hz
10 Hz 1000 Hz
AC, DC or distorted currents

### Output data

	ng:	

Contact switching type	1 changeover contact
Contact material	AgNi
Minimum switching voltage	12 V (10 mA)
Maximum switching voltage	250 V AC
	48 V DC
Limiting continuous current	6 A AC (250 V AC, 50/60 Hz)
	1 A DC (48 V DC)

#### Signal: Voltage/current

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Voltage output signal	0 V 10 V
	0 V 5 V
	1 V 5 V
	2 V 10 V
	-10 V 10 V
	-5 V 5 V
	10 V10 V
	5 V5 V
	10 V 0 V
	5 V 0 V
Current output signal	0 mA 20 mA
	4 mA 20 mA
	20 mA 0 mA
	20 mA 4 mA
Load/output load voltage output	> 10 kΩ
Load/output load current output	< 500 Ω

#### Signal: digital

Max. voltage output signal	24 V DC
Max. current output signal	≤ 100 mA



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#### 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 mm²
Conductor cross section AWG	3

#### Interfaces

#### WBM

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

### 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	

#### 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



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Certificate	CE-compliant
KCA	
Certificate	UKCA-compliant
IL, USA/Canada	
Identification	Ind. Cont. Eq. E238705-E196811
C 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
andards and regulations	
Standards/regulations	IEC 61010-1
Standards/regulations	IEC/EN 61131-2 (type 3)
Standards/regulations	IEC/EN 61131-2 (type 3)
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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

1205053

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

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