

2814647

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MCR current measuring transducer, programmable and configurable, for measuring direct, alternating and distorted currents, input current 0...10 to 0...50 A, configured

## Your advantages

- Device can be set via DIP switches or MCR/PI-CONF-WIN configuration software
- · 3-way isolation
- True r.m.s. value measurement

#### Commercial data

Item number	2814647
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	CK4
Product key	CK4A34
Catalog page	Page 231 (C-5-2019)
Weight per piece (including packing)	172.9 g
Weight per piece (excluding packing)	170 g
Customs tariff number	85437090
Country of origin	DE



2814647

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## Technical data

#### Notes

### Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the
	download area

### Product properties

Product type	Current transducer
Insulation characteristics	
Overvoltage category	III
Pollution degree	2

### Electrical properties

Total error	≤ 1.5 % (Temperature range)
Maximum power dissipation for nominal condition	2.2 W
Measuring category	III
Test voltage output/power supply	500 V AC (50 Hz, 60 s)
Test voltage input/output	4 kV AC (50 Hz, 60 s)
Test voltage input/power supply	4 kV AC (50 Hz, 60 s)
Protective circuit	Surge protection; 33 V suppressor diode
Step response (10-90%)	330 ms (AC)
	40 ms (DC)
Temperature coefficient, typical	< 0.025 %/K
Maximum transmission error	< 0.5 % (of nominal range value under nominal conditions)
Rated insulation voltage	300 V AC (to earth)

#### Supply

Сирріу	
Supply voltage range	20 V DC 30 V DC
Max. current consumption	< 40 mA (without load)

### Input data

### Measurement

Configurable/programmable	Yes, preconfigured
Input current range	0 A AC/DC 55 A AC/DC (Permitted continuous overload: 120%)
Current measuring range	0 A AC/DC 50 A AC/DC
Setting range for min. input current	0 A AC/DC 9.5 A AC/DC
Setting range for max. input current	0 A AC/DC 55 A AC/DC
LSB: Current	1 μA (1 A)
	2 μA (2 A)
	5 μA (5 A)
	10 μA (10 A)



2814647

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	50 μA (50 A)
	100 μA (100 A)
Overload capacity	Depending on through connected conductor
Surge strength	Depending on through connected conductor
Frequency measuring range	15 Hz 400 Hz
Curve type	AC, DC or distorted currents
Operate threshold	0.8 % (of measuring range nominal value 50 A)

### Output data

#### Signal: Voltage/current

Configurable/programmable	Yes, preconfigured
Voltage output signal	0 V 5 V
	1 V 5 V
	0 V 10 V
	2 V 10 V
	-5 V 5 V
	-10 V 10 V
	10 V 0 V
	10 V 2 V
	10 V10 V
	5 V 0 V
	5 V 1 V
	5 V5 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

#### Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm² 2.5 mm²
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 14
Connection method	Through connection

## Signaling

Status display	Green LED

#### **Dimensions**



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Mounting position

Item dimensions	
Width	22.5 mm
Height	99 mm
Depth	114.5 mm
Circular conductor	
Diameter	10.5 mm
Diameter	10.5 111111
Material specifications	
Housing material	Polyamide PA non-reinforced
Environmental and real-life conditions	
Ambient conditions	
Degree of protection	IP20
Ambient temperature (operation)	-20 °C 60 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Altitude	< 2000 m
Permissible humidity (operation)	10 % 95 % (non-condensing)
Approvals	
Certificate	CE-compliant
UL, USA/Canada	
Identification	Class I, Zone 2, AEx nA nC IIC T4, Ex nA nC IIC T4 Gc X
	Class I, Div. 2, Groups A, B, C and D or Non-Hazardous Locations Only
EMC data	
Low Voltage Directive	Conformance with Low Voltage Directive
Noise immunity	EN 61000-6-2
Electromagnetic compatibility	Conformance with EMC directive
Noise emission	EN 61000-6-4
Standards and regulations	
Standards/regulations	IEC 61010-2-030
Mounting	
Mounting type	DIN rail mounting

any

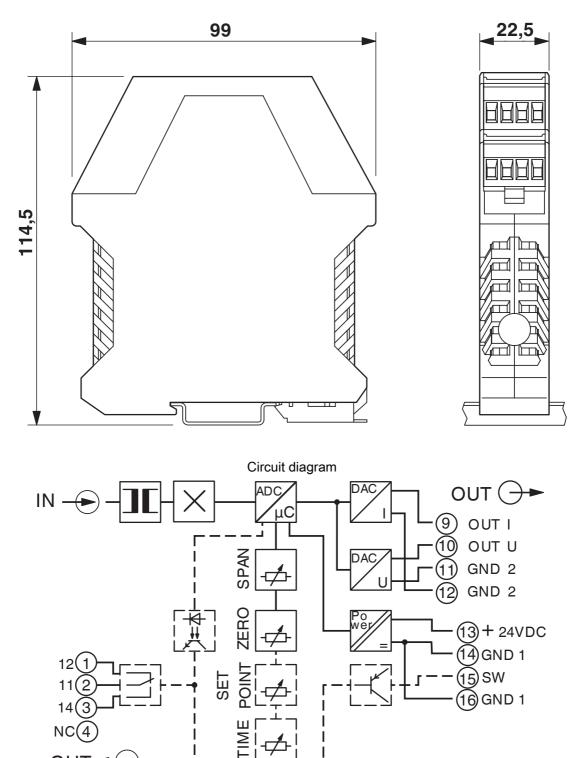


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## Drawings

### Dimensional drawing





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## **Approvals**

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cUL Recognized

Approval ID: FILE E 238705



**UL Recognized** 

Approval ID: FILE E 238705



EAC

Approval ID: RU\*DE.\*08.B.01852-19



cUL Listed

Approval ID: FILE E 199827



**UL Listed** 

Approval ID: FILE E 199827

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**cULus Listed** 



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## Classifications

UNSPSC 21.0

#### **ECLASS**

EC	CLASS-11.0	27210123
EC	CLASS-12.0	27210123
EC	CLASS-13.0	27210123
ETIM		
ET	ΓΙΜ 9.0	EC002475
UNSPS	SC	

39121000



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## Environmental product compliance

REACh SVHC	Lead 7439-92-1
	Hexahydromethylphthalic anhydride
Ohios Dallo	Facility as a stally. Friendly, Han Davied - FO years
China RoHS	Environmentally Friendly Use Period = 50 years



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#### Accessories

MCR-TTL-RS232-E - Adapter cable

2814388

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Software adapter cable (Stereo jack connector/D-SUB 25-pos.), 1.2 m length, for programming MCR-T-..., MCR-S-... and MCR-f-... modules



#### CM-KBL-RS232/USB - Cable

2881078

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Connecting cable D-9-SUB to USB, with adapter D-9-SUB to D-25-SUB.



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