

2814715

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MCR current transducer, programmable and configurable, for measuring direct, alternating and distorted currents, input current 0...0.2 to 0...11 A, unconfigured

Your advantages

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

Commercial data

Item number	2814715
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C444
Product key	CMMA33
GTIN	4017918169275
Weight per piece (including packing)	185.5 g
Weight per piece (excluding packing)	180 g
Customs tariff number	85437090
Country of origin	DE



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Technical data

Product properties

Product type	Current measuring 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

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

Input data

Measurement

Number of inputs	3
Configurable/programmable	Yes, unconfigured
Input current range	0 A AC/DC 11 A AC/DC (Permitted continuous overload: 120%)
Measuring range	0 A AC/DC 1 A AC/DC
	0 A AC/DC 5 A AC/DC
	0 A AC/DC 10 A AC/DC
Setting range for min. input current	0 mA AC/DC 200 mA AC/DC
Setting range for max. input current	0 A AC/DC 11 A AC/DC
LSB: Current	1 μA (1 A)
	2 μA (2 A)
	5 μA (5 A)
	10 μA (10 A)
	50 μA (50 A)
	100 μA (100 A)



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Overload capacity	2 x I _{N (} continuous)
Surge strength	20 x I _N (1 s)
Frequency measuring range	15 Hz 400 Hz
Curve type	AC, DC or distorted currents
Operate threshold	2 % (of measuring range nominal value 1/5/10 A)

Output data

Signal: Voltage/current

Configurable/programmable	Yes, unconfigured
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 mm ² 2.5 mm ²
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 14

Signaling

Status display	LED (green)
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Dimensions

Item dimensions

Width	22.5 mm
Height	99 mm



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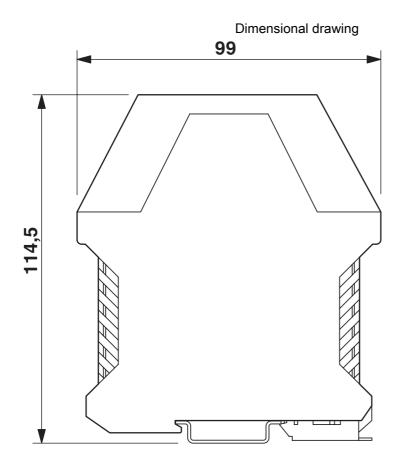
Depth	114.5 mm
aterial specifications	
Color	green (RAL 6021)
Housing material	Polyamide PA non-reinforced
nvironmental and real-life conditions	
Ambient conditions	
Degree of protection	IP20
Ambient temperature (operation)	-20 °C 60 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Altitude	< 2000 m
Permissible humidity (operation)	10 % 95 % (non-condensing)
CE	CE compliant
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
MC data	
Electromagnetic compatibility	Conformance with EMC directive
Low Voltage Directive	Conformance with Low Voltage Directive
Noise immunity	EN 61000-6-2
Noise emission	
Standards/regulations	EN 61000-6-4
too doude and requilations	
tandards and regulations	
Standards/regulations	IEC 61010-2-030
ounting	
Mounting type	DIN rail mounting
Mounting position	any

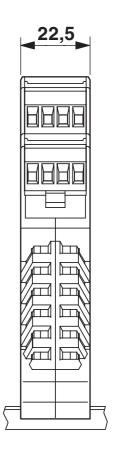


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Drawings



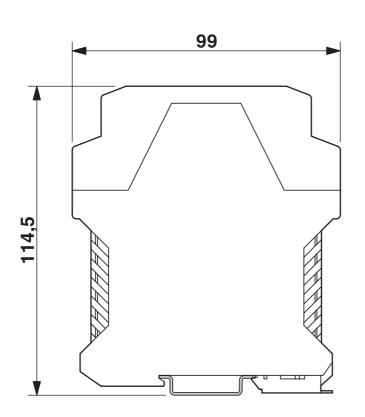


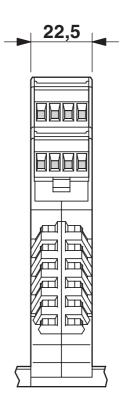


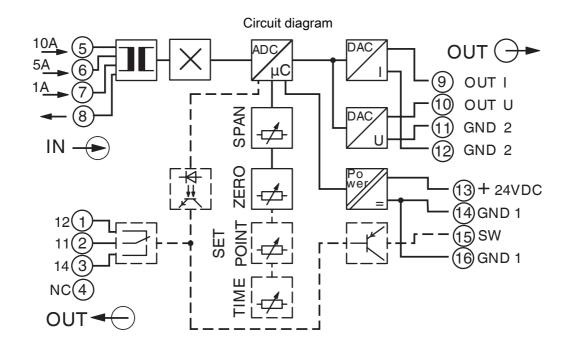
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Dimensional drawing









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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2814715



cUL RecognizedApproval ID: E238705



UL RecognizedApproval ID: E238705



EAC

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



cUL Listed

Approval ID: FILE E 199827



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Classifications

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		A.7.7

	ECLASS-13.0	27210123
ETIM		
	ETIM 9.0	EC002475
UNSPSC		
	UNSPSC 21.0	39121000



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I
China RoHS	
invironment 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.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)
	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol(CAS: 79-94-7)
SCIP	38c583fc-a97e-4912-9e18-8facc1ed1f15

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