

2813486

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MCR current measuring transducer, for measuring sinusoidal and non-sinusoidal alternating currents, input current 0...100 A, loop-powered output with 4...20 mA

Your advantages

- · Can be retrofitted with open-up Rogowski coil
- · Loop-powered
- 30 ... 6000 Hz true r.m.s. value measurement
- · Measuring range selection via slide switch

Commercial data

Item number	2813486
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CMMA23
Product key	CMMA23
Catalog page	Page 235 (C-5-2019)
GTIN	4046356043663
Weight per piece (including packing)	141.4 g
Weight per piece (excluding packing)	141.4 g
Customs tariff number	85437090
Country of origin	JP



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Technical data

Product properties

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

Electrical properties

Maximum power dissipation for nominal condition	1 W
Test voltage input/output	4.13 kV AC (50 Hz, 60 s)
Step response (10-90%)	< 340 ms
Maximum temperature coefficient	< 0.025 %/K
Maximum transmission error	< 1 % (of final value)
Rated insulation voltage	300 V AC (to earth)

Supply

Supply voltage range	loop-powered, no external supply necessary

Input data

Signal

Configurable/programmable	Yes
Current input signal	0 A 100 A
Measurement	
Input current range	0 A AC 50 A AC
	0 A AC 75 A AC
	0 A AC 100 A AC
Setting range for min. input current	0 A AC 50 A AC
Setting range for max. input current	0 A AC 100 A AC

Total grange in man in particular	
Overload capacity	Depending on laid conductor

Surge strength Depending on through connected conductor

Frequency measuring range 30 Hz ... 6000 Hz

Curve type Sinusoidal and non-sinusoidal

Operate threshold 1 % (of final value)

Output data

Signal: Current

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Current output signal	4 mA 20 mA
Max. current output signal	< 25 mA
Load/output load current output	(U _B - 12 V) x 350 / 12 A

Connection data



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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
Tightening torque	0.5 Nm 0.6 Nm (4,4 5,31 lbf-in.)
Connection method	Through connection

Dimensions

Item dimensions

Width	55 mm
Height	85 mm
Depth	70.5 mm

Circular conductor

Diameter	≤ 18.5 mm
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Material specifications

Color	green (RAL 6021)
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

Approvals

CE

Certificate	CE-compliant	
UKCA		
Certificate	UKCA-compliant	
UL, USA/Canada		
Identification	UL/C-UL Listed UL 508	
	Class I, Div. 2, Groups A, B, C, D T4A	
	Class I, Zone 2, Group IIC T4A	
	Or Non-Hazardous Locations only	

Mounting

Mounting type	DIN rail mounting
Mounting position	any

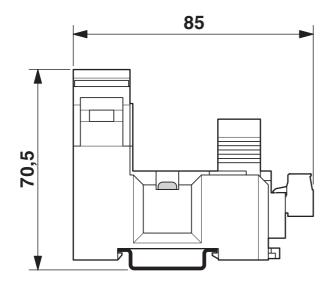


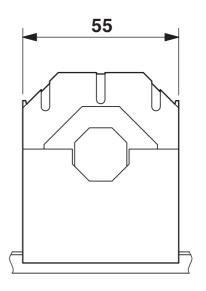
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Drawings

Dimensional drawing

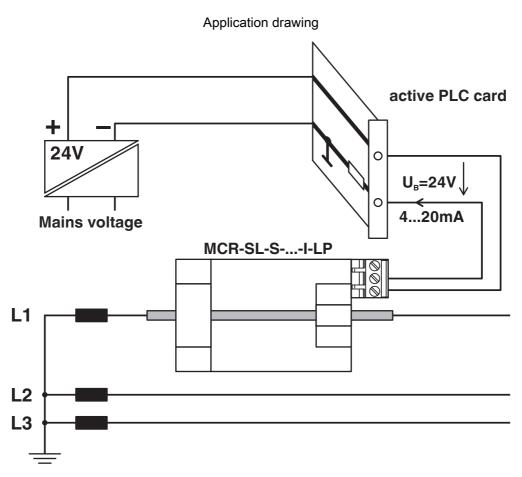






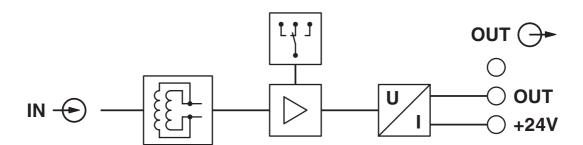
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Current monitoring

Circuit diagram





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Approvals

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EAC

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



UL Listed

Approval ID: E123528



cUL Listed

Approval ID: E123528



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Classifications

UNSPSC 21.0

ECLASS				
	ECLASS-13.0	27210123		
ETIM				
	ETIM 9.0	EC002475		
UNSPSC				

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions		
China RoHS			
Environment friendly use period (EFUP)	EFUP-25		
	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.)	No substance above 0.1 wt%		

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PHOENIX CONTACT PTY Ltd Unit 7, 2-8 South Street Rydalmere NSW 2116 1300 786 411 customerservice@phoenixcontact.com.au