

2813457

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MCR current measuring transducer, for measuring sinusoidal and non-sinusoidal alternating currents, input current 0...100 A, output voltage 0...(5) 10 V

Your advantages

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

Commercial data

Item number	2813457
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C444
Product key	CMMA22
GTIN	4046356043632
Weight per piece (including packing)	143.2 g
Weight per piece (excluding packing)	137.1 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	< 0.035 %/K
Maximum transmission error	< 1 % (of final value)
Rated insulation voltage	300 V AC (to earth)

Supply

Nominal supply voltage	24 V DC
Supply voltage range	20 V DC 30 V DC
Max. current consumption	< 30 mA

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	
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: Voltage

Voltage output signal	0 V 5 V
	0 V 10 V
Max. voltage output signal	(0 V 10 V) 14 V, (0 V 5 V) 7 V



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Load/output load voltage output	≥ 10 kΩ
nnection 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
Tightening torque	0.5 Nm 0.6 Nm (4,4 5,31 lbf-in.)
Connection method	Through connection
nensions	
tem dimensions	
Width	55 mm
Height	85 mm
Depth	70.5 mm
Circular conductor	
Diameter	≤ 18.5 mm
terial specifications Color	green (RAL 6021)
Housing material	Polyamide PA non-reinforced
vironmental and real-life conditions	
Degree of protection	IP20
Ambient temperature (operation)	-20 °C 60 °C
pprovals	
CE	
CE Certificate	CE-compliant
Certificate	CE-compliant
Certificate	CE-compliant UKCA-compliant
Certificate UKCA Certificate	
Certificate UKCA Certificate	
Certificate UKCA Certificate UL, USA/Canada	UKCA-compliant
Certificate UKCA Certificate UL, USA/Canada	UKCA-compliant UL/C-UL Listed UL 508
Certificate UKCA Certificate UL, USA/Canada	UL/C-UL Listed UL 508 Class I, Div. 2, Groups A, B, C, D T4A
Certificate UKCA Certificate UL, USA/Canada	UL/C-UL Listed UL 508 Class I, Div. 2, Groups A, B, C, D T4A Class I, Zone 2, Group IIC T4A
Certificate UKCA Certificate 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



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Mounting position	any

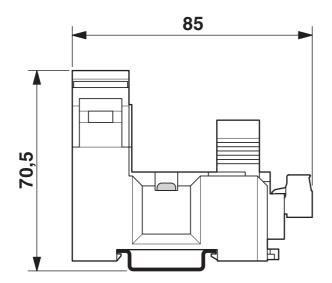


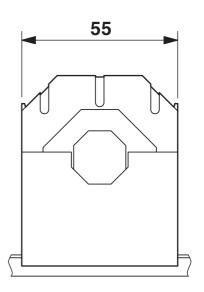
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Drawings

Dimensional drawing



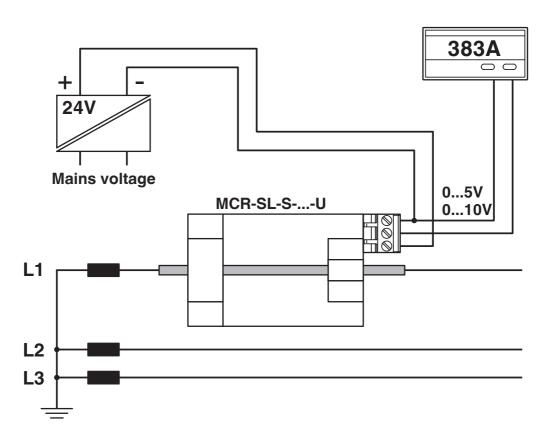




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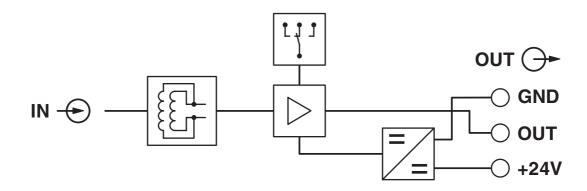
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Application drawing



Current measurement

Circuit diagram





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2813457



EAC

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



UL Listed

Approval ID: E123528



cUL Listed

Approval ID: E123528



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Classifications

ECLASS

	ECLASS-13.0	27210123
	ECLASS-15.0	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, 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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