

2813457

https://www.phoenixcontact.com/au/products/2813457

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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	CMMA22
Product key	CMMA22
Catalog page	Page 235 (C-5-2019)
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



2813457

https://www.phoenixcontact.com/au/products/2813457

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



2813457

https://www.phoenixcontact.com/au/products/2813457

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	
em dimensions	
Width	55 mm
Height	85 mm
Depth	70.5 mm
rcular conductor	140.5
Diameter	≤ 18.5 mm
terial specifications	
Color	green (RAL 6021)
Housing material	Polyamide PA non-reinforced
vironmental and real-life conditions	
ambient conditions	
Degree of protection	IP20
Degree of protection Ambient temperature (operation)	-20 °C 60 °C
Ambient temperature (operation)	IP20 -20 °C 60 °C
Ambient temperature (operation)	
Ambient temperature (operation) provals	
Ambient temperature (operation)	
Ambient temperature (operation) provals E Certificate	-20 °C 60 °C
Ambient temperature (operation) provals E Certificate	-20 °C 60 °C
Ambient temperature (operation) provals E Certificate KCA Certificate	-20 °C 60 °C CE-compliant
Ambient temperature (operation) rovals E Certificate KCA Certificate	-20 °C 60 °C CE-compliant
Ambient temperature (operation) provals E Certificate KCA Certificate L, USA/Canada	-20 °C 60 °C CE-compliant UKCA-compliant
Ambient temperature (operation) provals E Certificate KCA Certificate L, USA/Canada	-20 °C 60 °C CE-compliant UKCA-compliant UL/C-UL Listed UL 508
Ambient temperature (operation) provals E Certificate KCA Certificate L, USA/Canada	-20 °C 60 °C CE-compliant UKCA-compliant UL/C-UL Listed UL 508 Class I, Div. 2, Groups A, B, C, D T4A
Ambient temperature (operation) Drovals E Certificate IKCA Certificate IL, USA/Canada Identification	-20 °C 60 °C CE-compliant UKCA-compliant UL/C-UL Listed UL 508 Class I, Div. 2, Groups A, B, C, D T4A Class I, Zone 2, Group IIC T4A
Ambient temperature (operation) Drovals CE Certificate UKCA Certificate UL, USA/Canada	-20 °C 60 °C CE-compliant UKCA-compliant UL/C-UL Listed UL 508 Class I, Div. 2, Groups A, B, C, D T4A Class I, Zone 2, Group IIC T4A



2813457

https://www.phoenixcontact.com/au/products/2813457

|--|

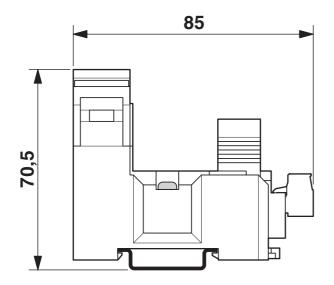


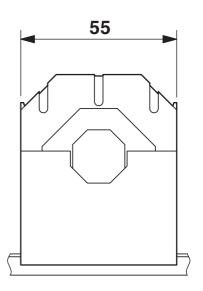
2813457

https://www.phoenixcontact.com/au/products/2813457

Drawings

Dimensional drawing



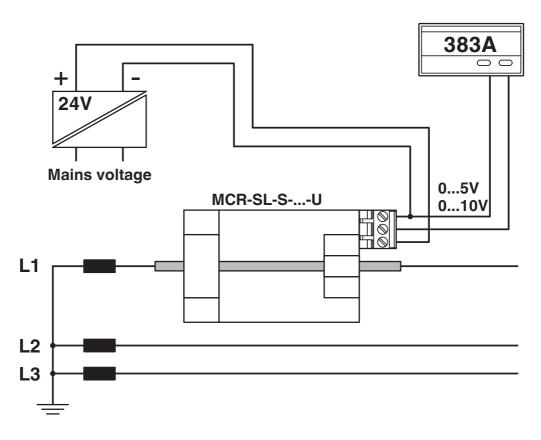




2813457

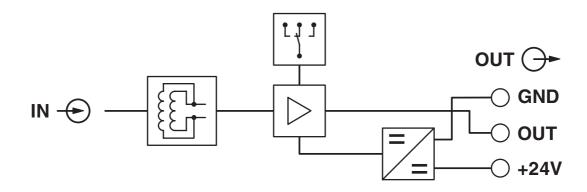
https://www.phoenixcontact.com/au/products/2813457

Application drawing



Current measurement

Circuit diagram





2813457

https://www.phoenixcontact.com/au/products/2813457

Approvals

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



EAC

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



UL Listed

Approval ID: E123528



cUL Listed

Approval ID: E123528



2813457

https://www.phoenixcontact.com/au/products/2813457

Classifications

UNSPSC 21.0

ECLASS		
	ECLASS-13.0	27210123
E	ГІМ	
	ETIM 9.0	EC002475
UI	NSPSC	

39121000



2813457

https://www.phoenixcontact.com/au/products/2813457

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%

Phoenix Contact 2025 © - all rights reserved https://www.phoenixcontact.com

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