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MCR-SL-S-400-I-LP - Current transducers

2813509

https://www.phoenixcontact.com/gb/products/2813509

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MCR current measuring transducer, for measuring sinusoidal and non-sinusoidal alternating currents, input current 0...400 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	2813509
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CK4A23
Product key	CK4A23
Catalog page	Page 395 (IF-2009)
GTIN	4046356043687
Weight per piece (including packing)	143 g
Weight per piece (excluding packing)	143 g
Customs tariff number	85437090
Country of origin	JP

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Technical data

Product properties

Product type	Current 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 ... 400 A

Measurement

Input current range	0 A AC ... 200 A AC
	0 A AC ... 300 A AC
	0 A AC ... 400 A AC
Setting range for min. input current	0 A AC ... 200 A AC
Setting range for max. input current	0 A AC ... 400 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: Current

Current output signal	4 mA ... 20 mA
Max. current output signal	< 25 mA
Load/output load current output	$(U_B - 12\ V) \times 350 / 12\ A$

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

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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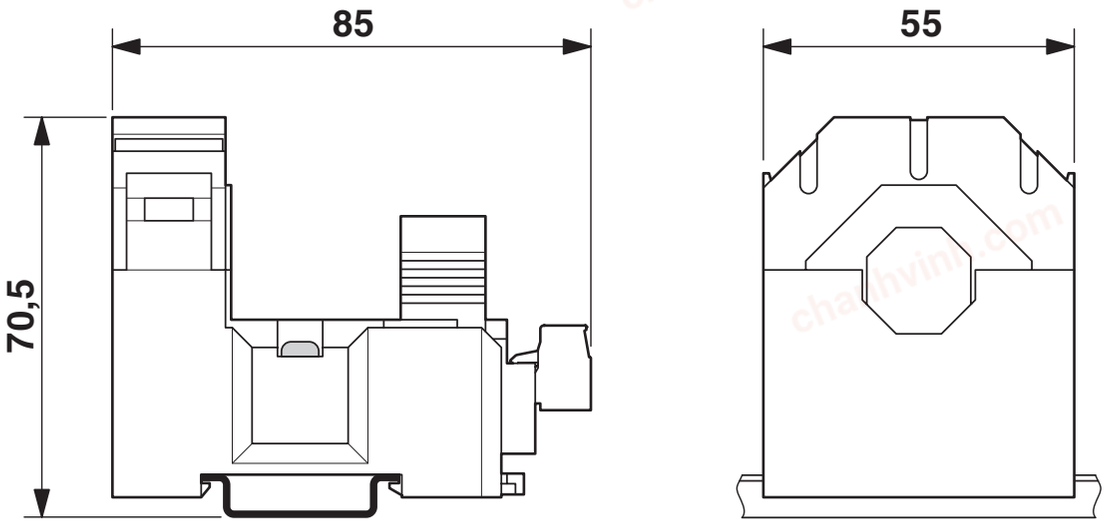
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Drawings

Dimensional drawing



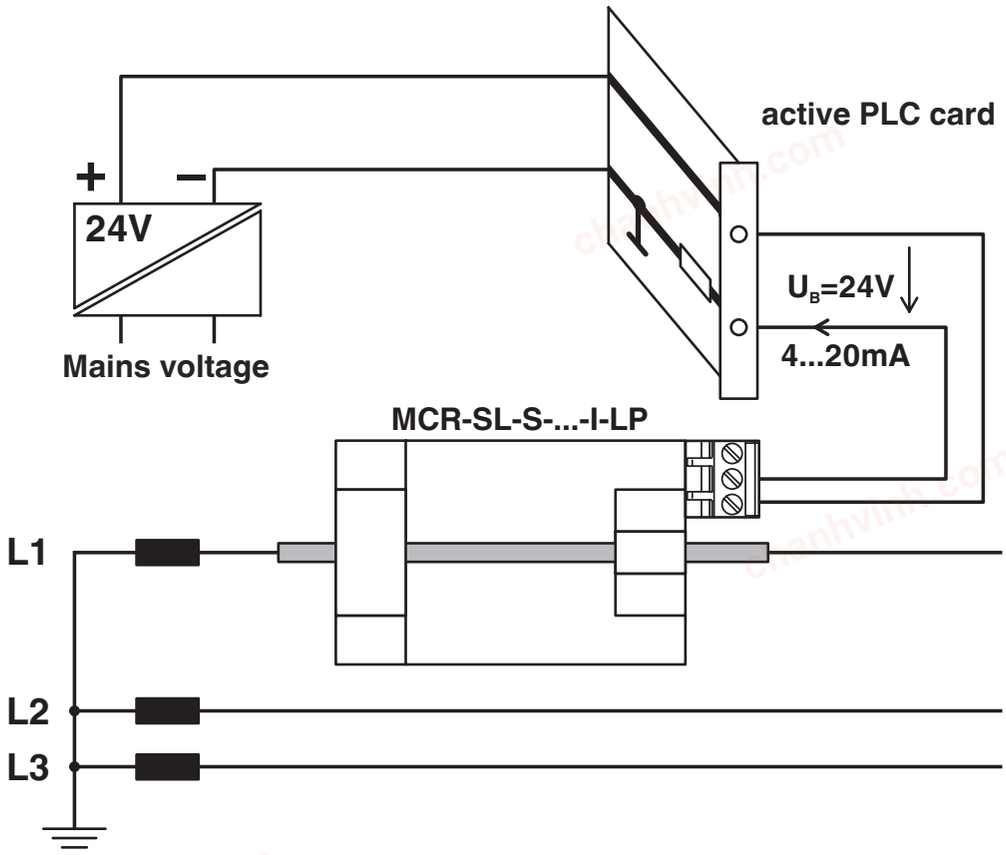
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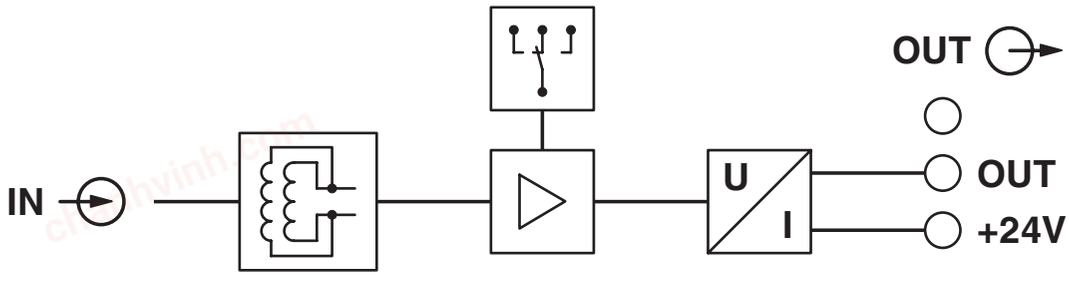
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Application drawing



Current monitoring

Circuit diagram



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/2813509

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

UL Listed
Approval ID: FILE E 123528

cUL Listed
Approval ID: FILE E 123528

cULus Listed

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Classifications

ECLASS

ECLASS-11.0	27210123
ECLASS-12.0	27210123
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, 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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