

# MCR-SL-S-400-U - Current measuring transducer



2813473

<https://www.phoenixcontact.com/us/products/2813473>

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...400 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	2813473
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C444
Product key	CMMA22
GTIN	4046356043656
Weight per piece (including packing)	144.266 g
Weight per piece (excluding packing)	148.2 g
Customs tariff number	85437090
Country of origin	JP

# MCR-SL-S-400-U - Current measuring transducer



2813473

<https://www.phoenixcontact.com/us/products/2813473>

## 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 ... 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: 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

# MCR-SL-S-400-U - Current measuring transducer



2813473

<https://www.phoenixcontact.com/us/products/2813473>

Load/output load voltage output	≥ 10 kΩ
---------------------------------	---------

## Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
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

## Approvals

### CE

Certificate	CE-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

# MCR-SL-S-400-U - Current measuring transducer

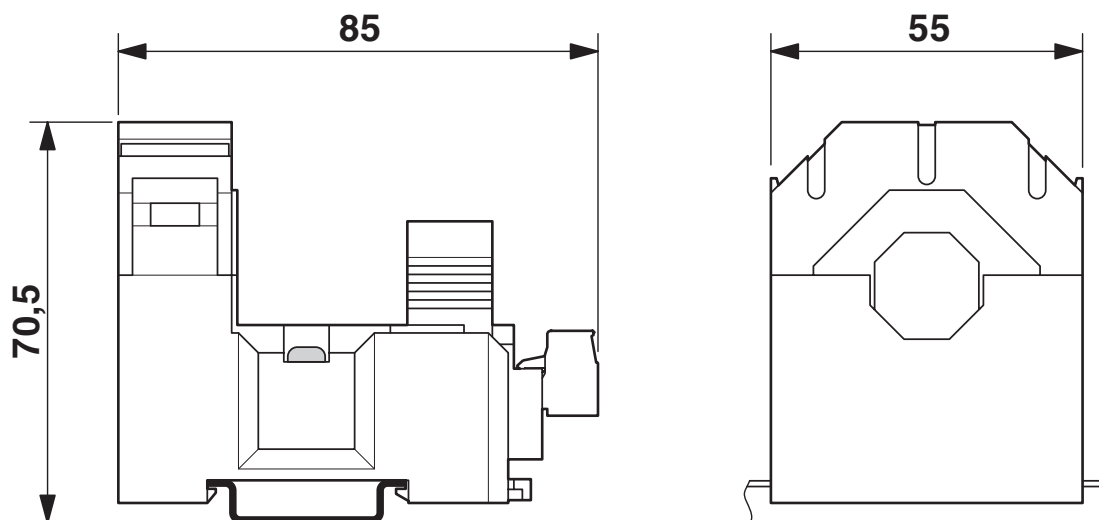
2813473

<https://www.phoenixcontact.com/us/products/2813473>



## Drawings

Dimensional drawing

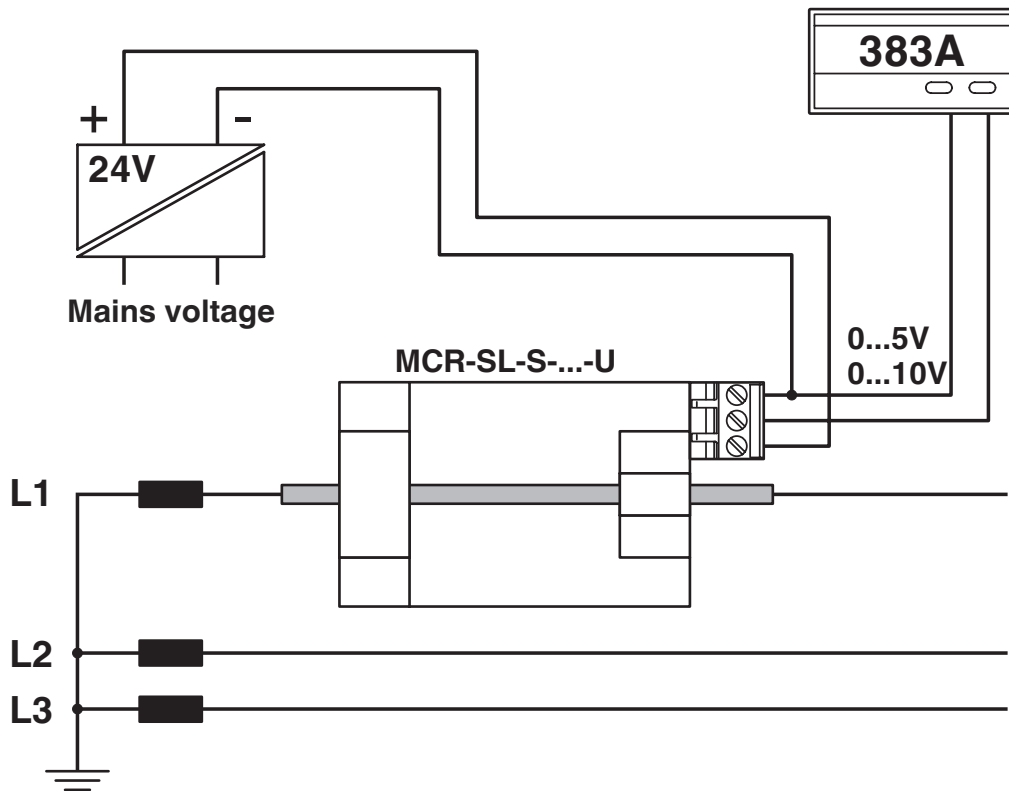


# MCR-SL-S-400-U - Current measuring transducer

2813473

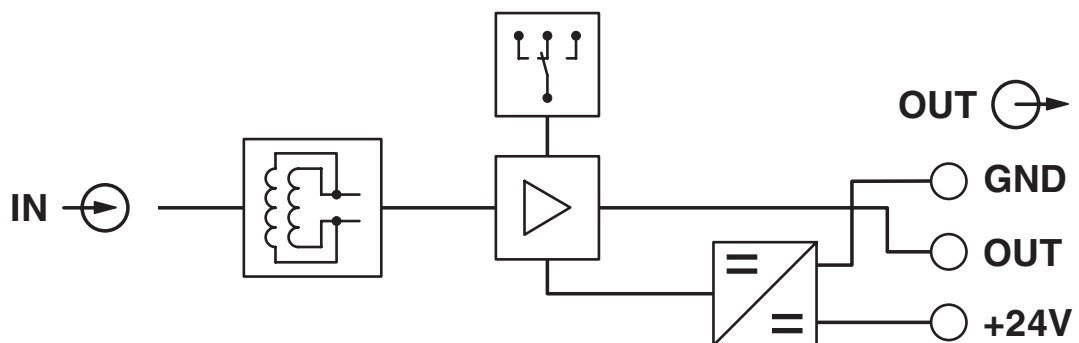
<https://www.phoenixcontact.com/us/products/2813473>

Application drawing



Current measurement

Circuit diagram



# MCR-SL-S-400-U - Current measuring transducer



2813473

<https://www.phoenixcontact.com/us/products/2813473>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2813473>



**EAC**

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



**cULus Listed**

Approval ID: E123528-20110617

# MCR-SL-S-400-U - Current measuring transducer



2813473

<https://www.phoenixcontact.com/us/products/2813473>

## Classifications

### ECLASS

ECLASS-13.0	27210123
ECLASS-15.0	27210123

### ETIM

ETIM 10.0	EC002475
-----------	----------

### UNSPSC

UNSPSC 21.0	39121000
-------------	----------

# MCR-SL-S-400-U - Current measuring transducer



2813473

<https://www.phoenixcontact.com/us/products/2813473>

## 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 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)