

# Current transducers - MCR-SL-S-200-I-LP - 2813499

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MCR current measuring transducer, for measuring sinusoidal and non-sinusoidal alternating currents, input current 0...200 A, loop-powered output with 4...20 mA

## Product Features

- 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



## Key commercial data

package_quantity	1
GTIN	4046356043670

## Technical data

### Dimensions

Width	55 mm
Height	85 mm
Depth	70.5 mm

### Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C
Degree of protection	IP20

### Input data

Input	Current measuring input
Input current range	0 A ... 200 A (0...100/150/200 A)
Operate threshold	1 % (of final value)
Setting range for min. input current	0 A ... 100 A
Setting range for max. input current	0 A ... 200 A
Overload capacity	Depending on laid conductor
Surge strength	Depending on through connected conductor
Frequency measuring range	30 Hz ... 6000 Hz
Connection method	Clamp-on cable design, diameter 18.5 mm

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## Technical data

### Output data

<b>Output name</b>	Current output
<b>Current output signal</b>	4 mA ... 20 mA
<b>Max. output current</b>	< 25 mA
<b>Load/output load current output</b>	$((U_B - 12 \text{ V}) \times 350 / 12 \text{ A})$

### Switching output

<b>Output name</b>	No switching output
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### Power supply

<b>Supply voltage range</b>	20 V DC ... 30 V DC
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### Connection data

<b>Connection method</b>	Pluggable screw connection
<b>Conductor cross section solid min.</b>	0.2 mm <sup>2</sup>
<b>Conductor cross section solid max.</b>	2.5 mm <sup>2</sup>
<b>Conductor cross section stranded min.</b>	0.2 mm <sup>2</sup>
<b>Conductor cross section stranded max.</b>	2.5 mm <sup>2</sup>
<b>Conductor cross section AWG/kcmil min.</b>	24
<b>Conductor cross section AWG/kcmil max</b>	14
<b>Stripping length</b>	8 mm
<b>Screw thread</b>	M3

### General

<b>Maximum transmission error</b>	< 1 % (of final value)
<b>Maximum temperature coefficient</b>	< 0.025 %/K
<b>Step response (10-90%)</b>	< 340 ms
<b>Surge voltage category</b>	III
<b>Pollution degree</b>	2
<b>Rated insulation voltage</b>	300 V AC (to earth)
<b>Test voltage input/output</b>	5 kV (50 Hz, 1 min.)
<b>Color</b>	green
<b>Housing material</b>	Polyamide PA non-reinforced
<b>Mounting position</b>	Any
<b>Conformance</b>	CE-compliant
<b>UL, USA / Canada</b>	cULus

## classifications

### eCl@ss

<b>eCl@ss 4.0</b>	27200303
<b>eCl@ss 4.1</b>	27200303
<b>eCl@ss 5.0</b>	27200303
<b>eCl@ss 5.1</b>	27200303
<b>eCl@ss 6.0</b>	27200303

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## classifications

### eCl@ss

eCl@ss 7.0	27142316
eCl@ss 8.0	27142316

### ETIM

ETIM 2.0	EC001440
ETIM 3.0	EC001440
ETIM 4.0	EC001440
ETIM 5.0	EC001440

### UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	39121008

## approvals

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UL Listed / cUL Listed / cULus Listed / UL Listed / cUL Listed / cULus Listed /

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### Approval details

UL Listed
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cUL Listed
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cULus Listed
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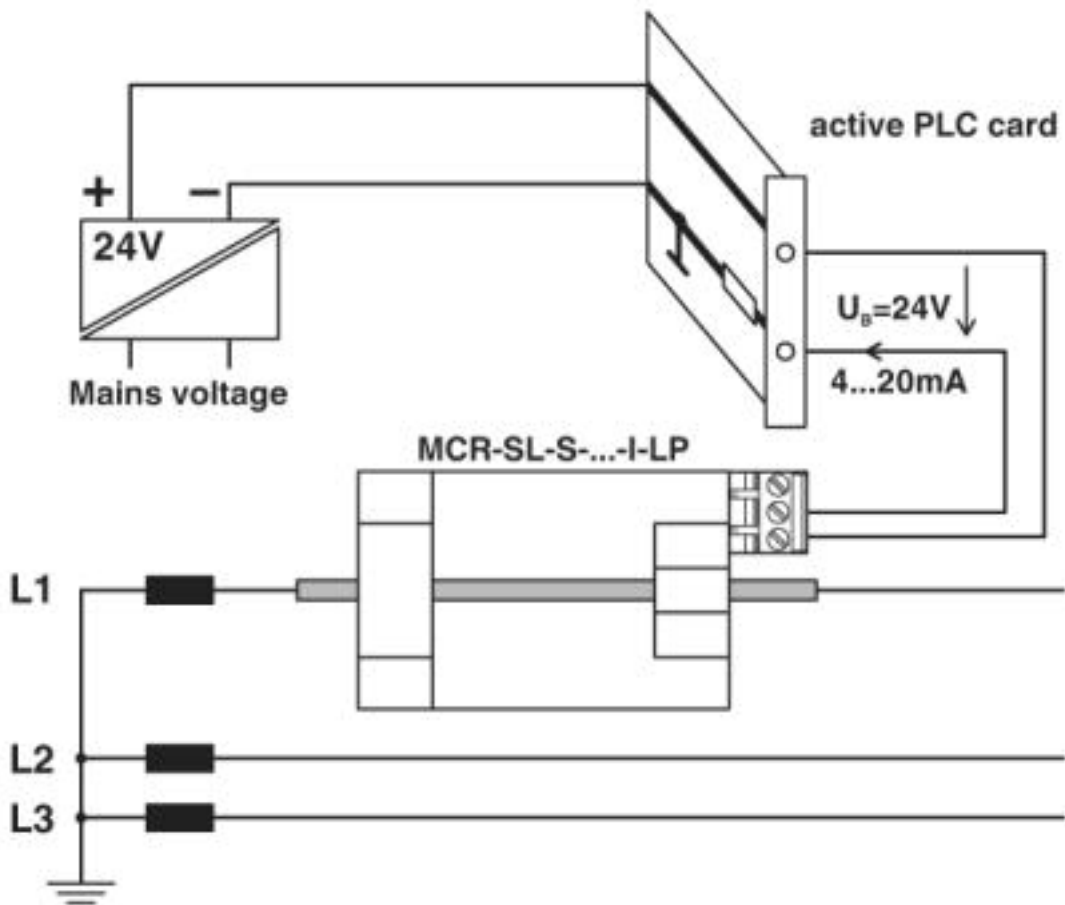
# Current transducers - MCR-SL-S-200-I-LP - 2813499

approvals



Drawings

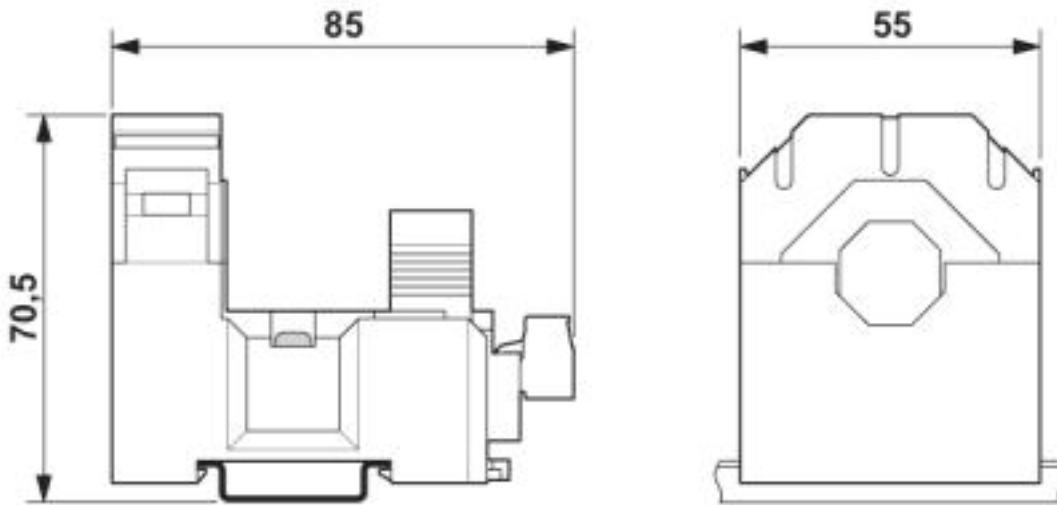
Application drawing



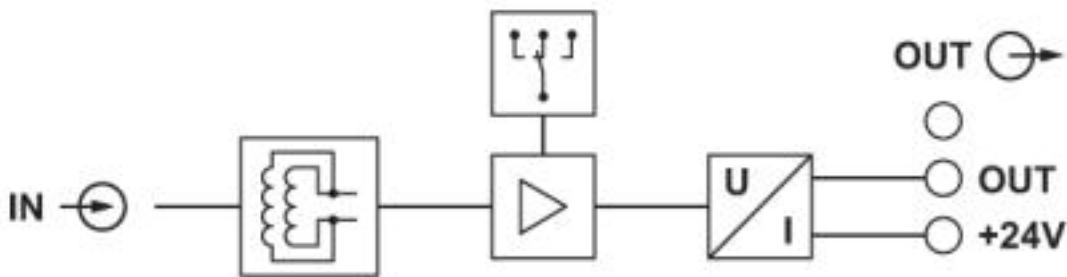
Current monitoring

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Dimensioned drawing



Circuit diagram



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