

## Current transducers - MCR-SL-S-100-I-LP - 2813486

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MCR current measuring transducer, for measuring sinusoidal and non-sinusoidal alternating currents, input current 0...100 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



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 043663
GTIN	4046356043663

### Technical data

#### Dimensions

Width	55 mm
Height	85 mm
Depth	70.5 mm
Primary round conductor (diameter)	18.5 mm

#### Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection	IP20

#### Input data

Input	Current measuring input
Input current range	0 A ... 100 A (0 ... 50/75/100 A)

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## Technical data

### Input data

Operate threshold	1 % (of final value)
Setting range for min. input current	0 A ... 50 A
Setting range for max. input current	0 A ... 100 A
Overload capacity	Depending on laid conductor
Surge strength	Depending on through connected conductor
Frequency measuring range	30 Hz ... 6000 Hz

### Output data

Output name	Current output
Current output signal	4 mA ... 20 mA
Max. output current	< 25 mA
Load/output load current output	(U <sub>B</sub> - 12 V) x 350 / 12 A

### Switching output

Output name	No switching output
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### Power supply

Supply voltage range	12 V DC ... 24 V DC
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### Connection data

Connection method	Pluggable screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	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
Torque	0.5 Nm ... 0.6 Nm (4,4 ... 5,31 lbf-in.)

### General

Maximum transmission error	< 1 % (of final value)
Maximum temperature coefficient	< 0.025 %/K
Step response (10-90%)	< 340 ms
Overvoltage category	III
Degree of pollution	2
Rated insulation voltage	300 V AC (to earth)
Test voltage input/output	5 kV (50 Hz, 1 min.)
Color	green
Housing material	Polyamide PA non-reinforced
Mounting position	any
Conformance	CE-compliant
UL, USA/Canada	UL/C-UL listed UL 508

### Standards and Regulations

Conformance	CE-compliant
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## Technical data

### Standards and Regulations

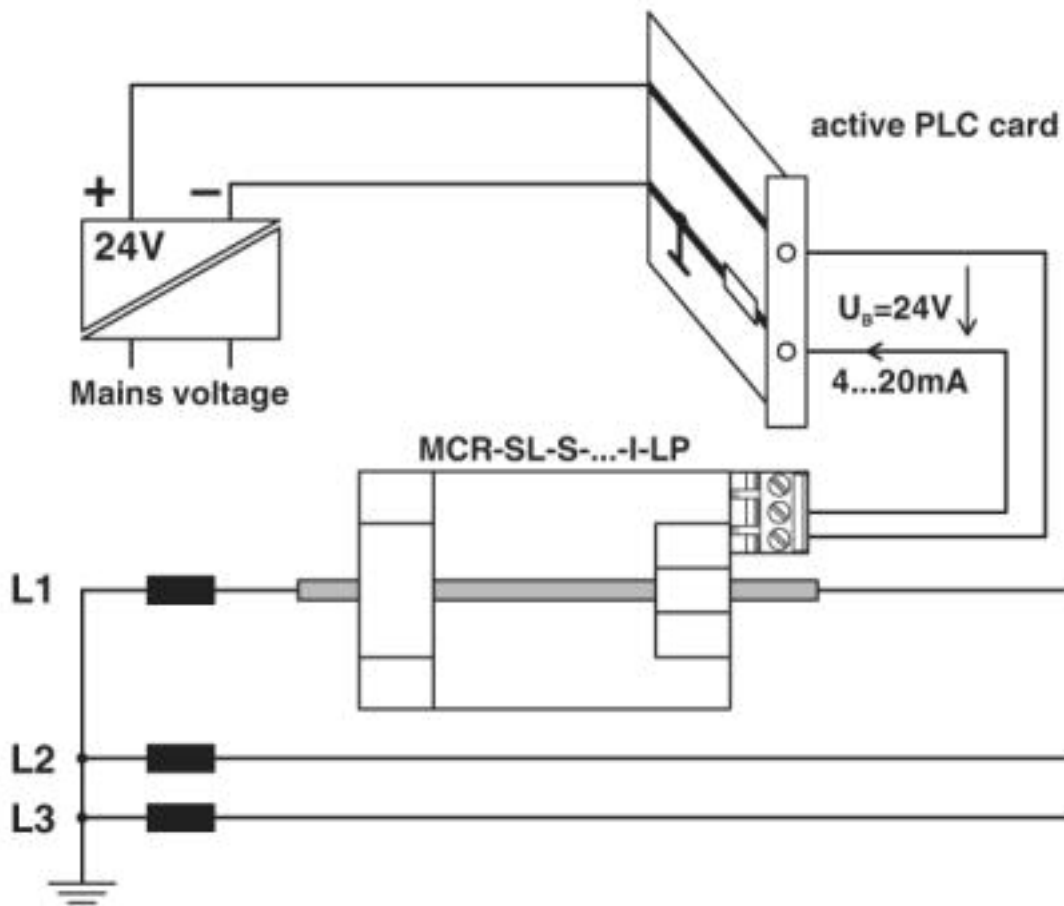
UL, USA/Canada	UL/C-UL listed UL 508
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### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 25;
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

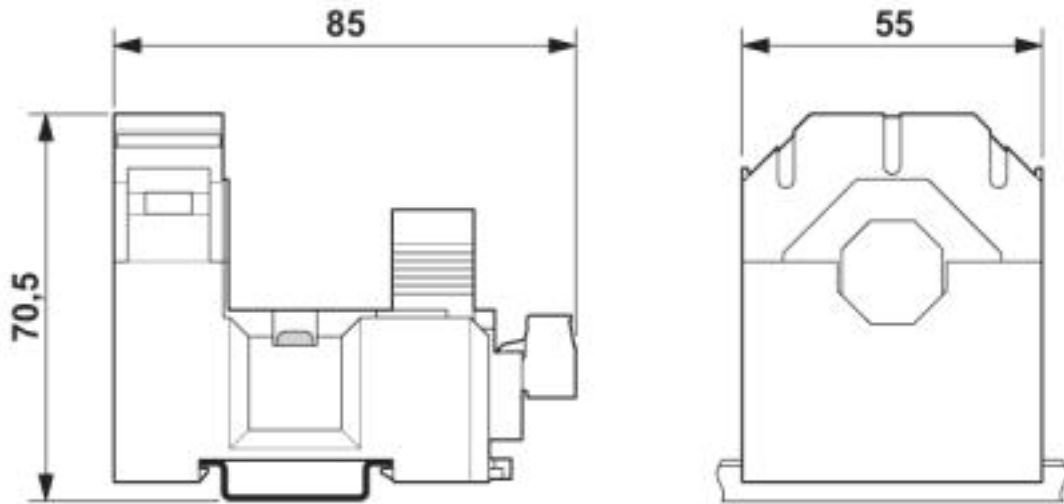
Application drawing



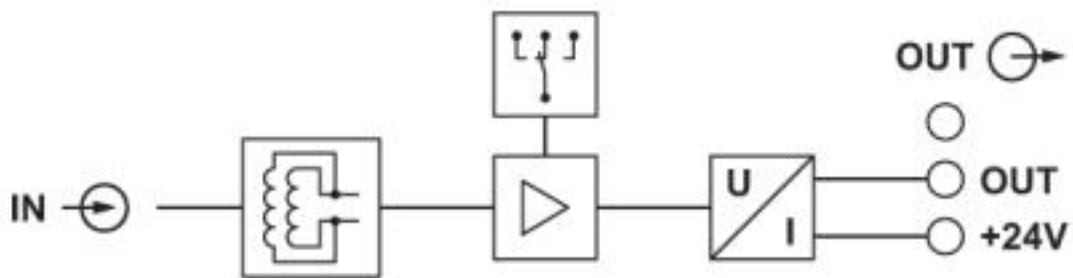
Current monitoring

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Dimensional drawing



Circuit diagram



## Approvals

Approvals

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Approvals

UL Listed / cUL Listed / EAC / cULus Listed

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Ex Approvals

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## Approval details

UL Listed




<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 123528

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### Approvals

cUL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 123528
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EAC		RU C- DE.A*30.B.01082
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cULus Listed	
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