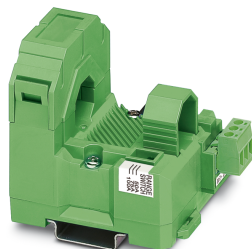


Current transducers - MCR-SL-S-100-I-LP - 2813486

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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

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 range	0 A AC ... 50 A AC
	0 A AC ... 75 A AC
	0 A AC ... 100 A AC

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Technical data

Input data

Operate threshold	1 % (of final value)
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

Output data

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

Power supply

Supply voltage range	loop-powered, no external supply necessary
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Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	0.2 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section AWG	24 ... 14
Tightening torque	0.5 Nm ... 0.6 Nm (4,4 ... 5,31 lbf-in.)
pluggable	yes

General

Maximum transmission error	< 1 % (of final value)
Maximum temperature coefficient	< 0.025 %/K
Step response (10-90%)	< 340 ms
Test voltage input/output	4.13 kV AC (50 Hz, 60 s)
Housing material	Polyamide PA non-reinforced
Mounting position	any

Standards and Regulations

Rated insulation voltage	300 V AC (to earth)
Pollution degree	2
Overvoltage category	III

Conformance/approvals

Designation	CE
Certificate	CE-compliant
Designation	UKCA
Certificate	UKCA-compliant

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

Technical data

Conformance/approvals

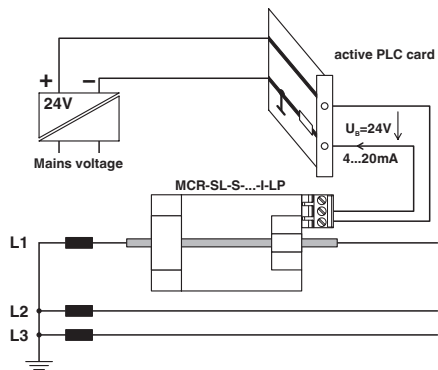
Designation	UL, USA / Canada
Identification	UL/C-UL Listed UL 508
	Class I, Div. 2, Groups A, B, C, D T4A
	Class I, Zone 2, Group IIC T4A
	Or Non-Hazardous Locations only

Environmental Product Compliance

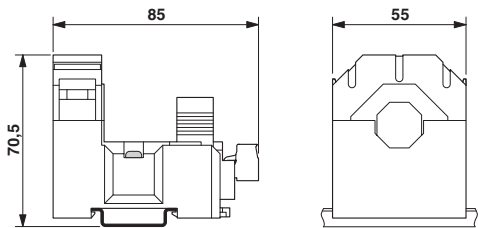
China RoHS	Environmentally Friendly Use Period = 25;
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

Drawings

Application drawing

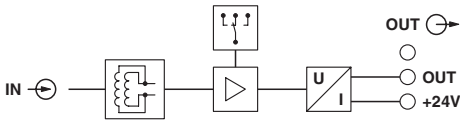


Dimensional drawing



Current monitoring

Circuit diagram



Classifications

eCl@ss

eCl@ss 10.0.1	27210123
eCl@ss 11.0	27210123
eCl@ss 4.0	27271100
eCl@ss 4.1	27200300

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

Classifications

eCl@ss

eCl@ss 5.0	27200300
eCl@ss 5.1	27200300
eCl@ss 6.0	27210100
eCl@ss 7.0	27210123
eCl@ss 9.0	27210123

ETIM

ETIM 3.0	EC002475
ETIM 4.0	EC002475
ETIM 6.0	EC002475
ETIM 7.0	EC002475

UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	39121032
UNSPSC 18.0	39121032
UNSPSC 19.0	39121032
UNSPSC 20.0	39121032
UNSPSC 21.0	39121000

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

Approval details

UL Listed



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

FILE E 123528

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

Approvals

cUL Listed



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm> FILE E 123528

EAC



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cULus Listed



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