

Universal current transducer - MCR-SL-CUC-100-I - 2308027

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Universal current transducer, for measuring AC, DC, and distorted currents, 0 ... 100 A input current, 4 ... 20 mA output

Your advantages

- ✓ Variable mounting on DIN rail and mounting plate
- ✓ Compact dimensions also enable distributed use
- ✓ Simple connection technology thanks to COMBICON plug-in connection terminal blocks
- ✓ 3-way isolation
- ✓ Universal current measurement, no shunt required

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 433808
GTIN	4046356433808

Technical data

Dimensions

Primary round conductor (diameter)	32 mm
Width	90 mm
Height	33.8 mm
Depth	85 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 65 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Input data

Number of inputs	1
Input current range	0 A ... 100 A

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Input data

Overload capacity	$6 \times I_{IN}$
Frequency measuring range	20 Hz ... 6000 Hz (0 Hz)
Connection method	Cable design: 32 mm diameter
Rated frequency: Standard converter	20 Hz ... 6000 Hz
Primary rated current I_{pn}	100 A

Output data

Output name	Current output
Current output signal	4 mA ... 20 mA
Max. output current	< 25 mA
Load/output load current output	< 300 Ω
Connection method	Screw connection

Switching output

Output name	No switching output
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Power supply

Nominal supply voltage	24 V DC
Supply voltage range	20 V DC ... 30 V DC
Max. current consumption	$(30 + I_{OUT})$ mA
Power consumption	1.65 W

Connection data

Conductor cross section solid min.	0.25 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Stripping length	10 mm

General

Accuracy class	1
Maximum transmission error	$\leq \pm 1\%$ (of final value)
Temperature coefficient, typical	0.02 %/K (0 ... 60 °C)
	0.04 %/K (-40 °C ... 65 °C)
Linearity error	$\leq \pm 1\%$ (From the range end value)
Step response (10-90%)	150 ms
Overvoltage category	III
Degree of pollution	2
Rated insulation voltage	300 V AC
Test voltage input/output	3.5 kV (50 Hz, 1 min.)
Test voltage input/power supply	3.5 kV (50 Hz, 1 min.)

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Technical data

General

Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2
Color	green
Housing material	Franyl B63 V0 GV30
Conformance	CE-compliant
UL, USA/Canada	UL/C-UL listed UL 508

Standards and Regulations

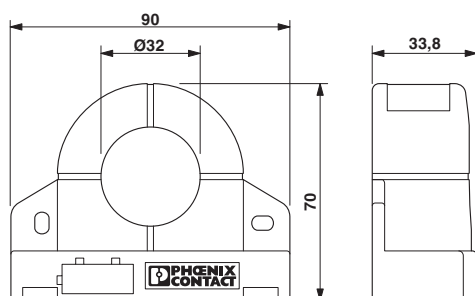
Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2
Conformance	CE-compliant
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Environmental Product Compliance

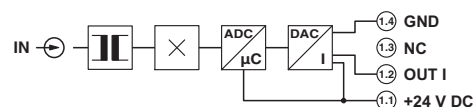
China RoHS	Environmentally Friendly Use Period = 25;
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Dimensional drawing

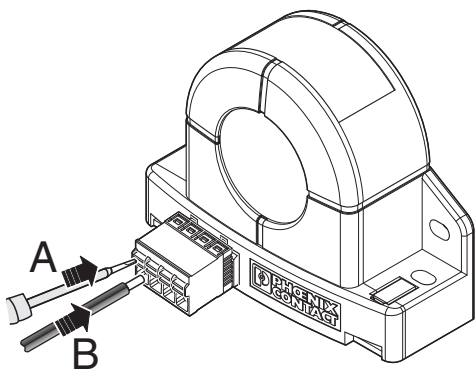


Circuit diagram



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Schematic diagram



Approvals

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

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