

Universal current transducer - MCR-SL-CUC-600-I - 2308098

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Universal current transducer, for measuring DC, AC, and distorted currents, 0 ... 600 A input current, 4 ... 20 mA output

Your advantages

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

Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 566988
GTIN	4046356566988

Technical data

Dimensions

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

Ambient conditions

Ambient temperature (operation)	-40 °C ... 65 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection	IP20
Noise immunity	EN 61000-6-2

Input data

Number of inputs	1
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Technical data

Input data

Input current range	0 A ... 600 A
Overload capacity	3 × 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}	600 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

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

Connection data

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section solid	0.25 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section AWG	24 ... 12

General

Accuracy class	1
Maximum transmission error	<± 1 % (of final value)
Temperature coefficient, typical	0.02 %/K (0 ... 60 °C)
	0.04 %/K (-40 °C ... 65 °C)
Linearity error	<± 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.)
Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2
Color	green

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Technical data

General

Housing material	Frianyl B63 V0 GV30
Conformance	CE-compliant

Standards and Regulations

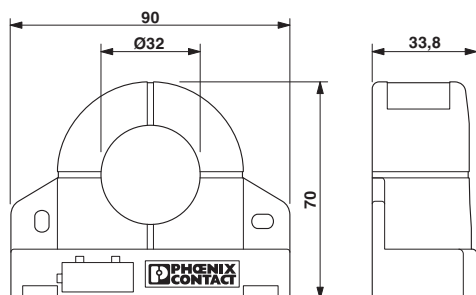
Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2
Conformance	CE-compliant

Environmental Product Compliance

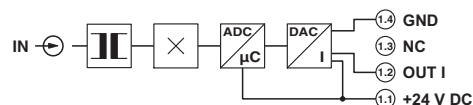
China RoHS	Environmentally Friendly Use Period = 25;
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

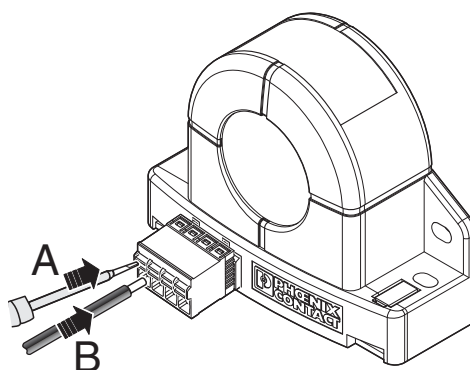
Dimensional drawing



Circuit diagram



Schematic diagram



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Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

EAC		RU C- DE.A*30.B.01082
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