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

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The MCR-SL-CUC-100-I is illustrated

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

Product Features

- 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
Weight per Piece (excluding packing)	297.6 g
Custom tariff number	90303310
Country of origin	Japan

Technical data

Dimensions

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
Degree of protection	IP20

Input data

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Technical data

Input data

Input current range	0 A ... 600 A
Overload capacity	3 x I_{IN}
Frequency measuring range	20 Hz ... 6000 Hz (0 Hz)
Connection method	Cable design: 32 mm diameter

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

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

Conductor cross section solid min.	0.25 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm²
Stripping length	10 mm

General

Maximum transmission error	<± 1 % (of final value)
Temperature coefficient, typical	0.02 %/K (0 ... 60°C)
	0.04 %/K (-40 ... 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

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Technical data

General

Noise immunity	EN 61000-6-2
Color	green
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

Classifications

eCl@ss

eCl@ss 4.0	27200303
eCl@ss 4.1	27200303
eCl@ss 5.0	27200303
eCl@ss 5.1	27210902
eCl@ss 6.0	27210902
eCl@ss 7.0	27210902
eCl@ss 8.0	27210902

ETIM

ETIM 3.0	EC002475
ETIM 4.0	EC002048
ETIM 5.0	EC002048

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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Approvals

Approvals

EAC / EAC / EAC

Ex Approvals

Approvals submitted

Approval details

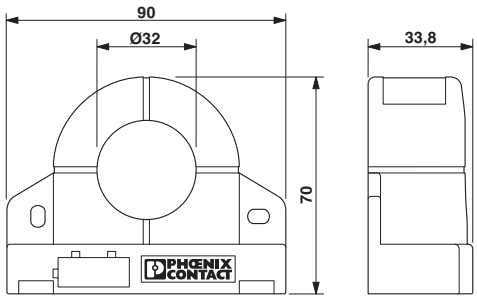
EAC

EAC

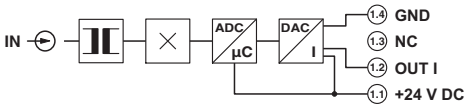
EAC

Drawings

Dimensional drawing



Circuit diagram



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Schematic diagram