

## Universal current transducer - MCR-SL-CUC-300-U - 2308302

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Universal current transducer, for measuring DC, AC, and distorted currents, 0 ... 300 A input current, 0 ... 10 V output

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

### Product Features

- 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



### Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	300.0 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 ... 300 A
Overload capacity	3.33 x I <sub>IN</sub>
Frequency measuring range	20 Hz ... 6000 Hz (0 Hz)
Connection method	Cable design: 32 mm diameter

### Output data

Output name	Voltage output
Voltage output signal	0 V ... 10 V
Load/output load voltage output	≥ 10 kΩ

### 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 mA

### Connection data

Conductor cross section solid min.	0.25 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
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
Color	green
Housing material	Franyl B63 V0 GV30
Conformance	CE-compliant
UL, USA / Canada	UL/C-UL listed UL 508

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## Technical data

### Standards and Regulations

Conformance	CE-compliant
UL, USA / Canada	UL/C-UL listed UL 508

## 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	27210123
eCl@ss 9.0	27210123

### ETIM

ETIM 3.0	EC002475
ETIM 4.0	EC002048
ETIM 5.0	EC002475

### UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	39121008

## Approvals

### Approvals

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#### Approvals

UL Listed / cUL Listed / EAC / EAC / cULus Listed

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#### Ex Approvals

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## Approvals

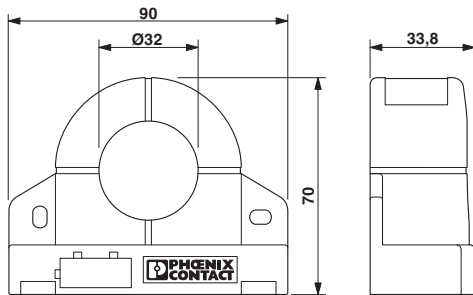
Approvals submitted

### Approval details

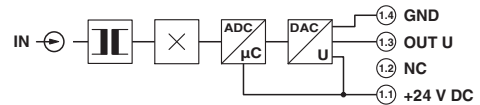
UL Listed
cUL Listed
EAC
EAC
cULus Listed

## Drawings

Dimensional drawing



Circuit diagram



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Schematic diagram

