

# MCR-SL-S-200-U - Current measuring transducer



2813460

<https://www.phoenixcontact.com/us/products/2813460>

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MCR current measuring transducer, for measuring sinusoidal and non-sinusoidal alternating currents, input current 0...200 A, output voltage 0...(5) 10 V

## Your advantages

- Can be retrofitted with open-up Rogowski coil
- 30 ... 6000 Hz true r.m.s. value measurement
- Measuring range selection via slide switch

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2813460       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C444          |
| Product key                          | CMMA22        |
| GTIN                                 | 4046356043649 |
| Weight per piece (including packing) | 144.6 g       |
| Weight per piece (excluding packing) | 143.2 g       |
| Customs tariff number                | 85437090      |
| Country of origin                    | JP            |

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## Technical data

### Product properties

|              |                              |
|--------------|------------------------------|
| Product type | Current measuring transducer |
|--------------|------------------------------|

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Pollution degree     | 2   |

### Electrical properties

|   |                          |
|---|--------------------------|
| Maximum power dissipation for nominal condition | 1 W                      |
| Test voltage input/output                       | 4.13 kV AC (50 Hz, 60 s) |
| Step response (10-90%)                          | < 340 ms                 |
| Maximum temperature coefficient                 | < 0.035 %/K              |
| Maximum transmission error                      | < 1 % (of final value)   |
| Rated insulation voltage                        | 300 V AC (to earth)      |

### Supply

|                          |                     |
|--------------------------|---------------------|
| Nominal supply voltage   | 24 V DC             |
| Supply voltage range     | 20 V DC ... 30 V DC |
| Max. current consumption | < 30 mA             |

### Input data

#### Signal

|                           |               |
|---------------------------|---------------|
| Configurable/programmable | Yes           |
| Current input signal      | 0 A ... 200 A |

#### Measurement

|                                      |  |
|--------------------------------------|--|
| Input current range                  | 0 A AC ... 100 A AC                      |
|                                      | 0 A AC ... 150 A AC                      |
|                                      | 0 A AC ... 200 A AC                      |
| Setting range for min. input current | 0 A AC ... 100 A AC                      |
| Setting range for max. input current | 0 A AC ... 200 A AC                      |
| Overload capacity                    | Depending on laid conductor              |
| Surge strength                       | Depending on through connected conductor |
| Frequency measuring range            | 30 Hz ... 6000 Hz                        |
| Curve type                           | Sinusoidal and non-sinusoidal            |
| Operate threshold                    | 1 % (of final value)                     |

### Output data

#### Signal: Voltage

|                            |  |
|----------------------------|--|
| Voltage output signal      | 0 V ... 5 V                            |
|                            | 0 V ... 10 V                           |
| Max. voltage output signal | (0 V ... 10 V) 14 V, (0 V ... 5 V) 7 V |

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|                                 |         |
|---------------------------------|---------|
| Load/output load voltage output | ≥ 10 kΩ |
|---------------------------------|---------|

## Connection data

|                                  |   |
|----------------------------------|---|
| Connection method                | Screw connection                            |
| Stripping length                 | 8 mm  |
| Screw thread                     | M3  |
| Conductor cross-section rigid    | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section flexible | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section AWG      | 24 ... 14                                   |
| Tightening torque                | 0.5 Nm ... 0.6 Nm (4,4 ... 5,31 lbf-in.)    |
| Connection method                | Through connection                          |

## Dimensions

### Item dimensions

|        |         |
|--------|---------|
| Width  | 55 mm   |
| Height | 85 mm   |
| Depth  | 70.5 mm |

### Circular conductor

|          |           |
|----------|-----------|
| Diameter | ≤ 18.5 mm |
|----------|-----------|

## Material specifications

|                  |                             |
|------------------|-----------------------------|
| Color            | green (RAL 6021)            |
| Housing material | Polyamide PA non-reinforced |

## Environmental and real-life conditions

### Ambient conditions

|                                 |                  |
|---------------------------------|------------------|
| Degree of protection            | IP20             |
| Ambient temperature (operation) | -20 °C ... 60 °C |

## Approvals

### CE

|             |              |
|-------------|--------------|
| Certificate | CE-compliant |
|-------------|--------------|

### 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        |

## Mounting

|                   |                   |
|-------------------|-------------------|
| Mounting type     | DIN rail mounting |
| Mounting position | any               |

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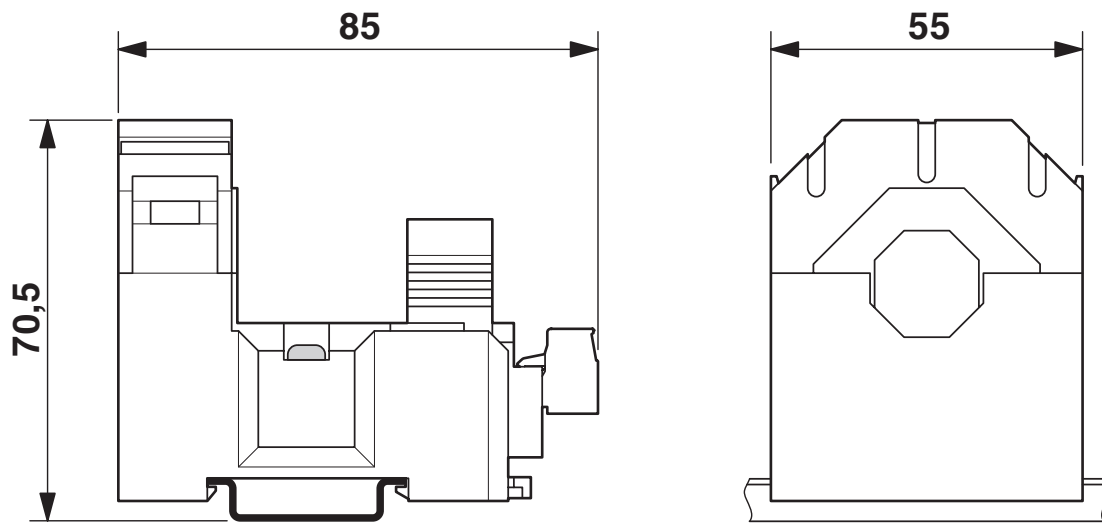
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## Drawings

### Dimensional drawing

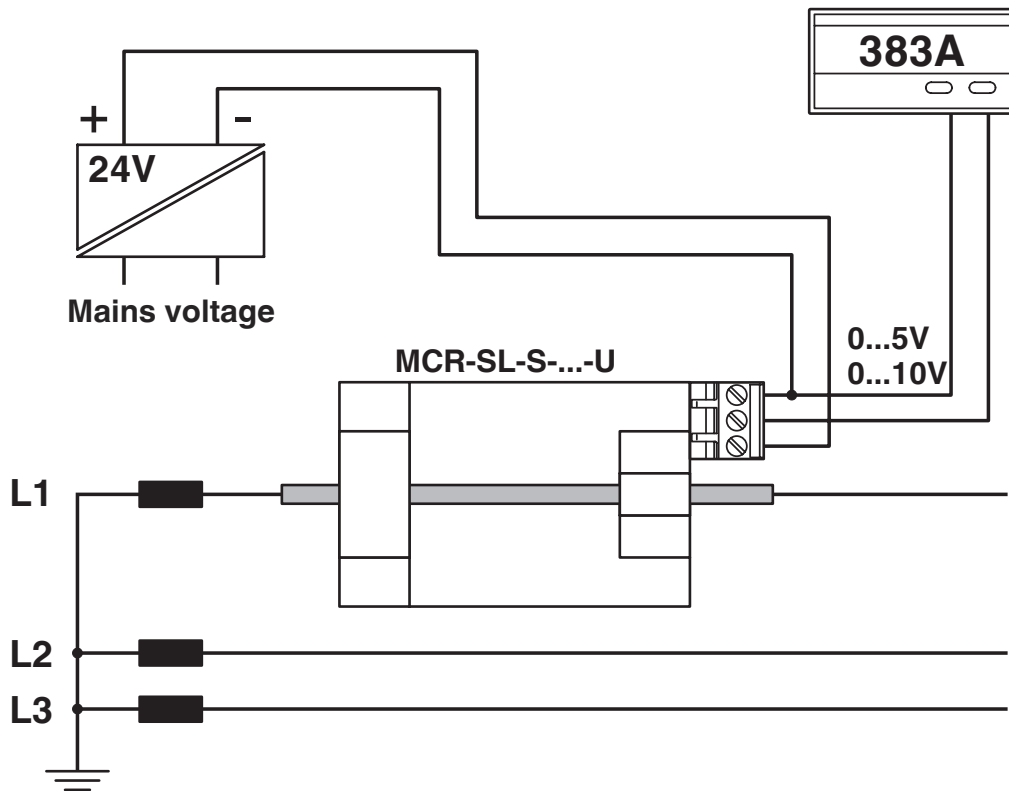


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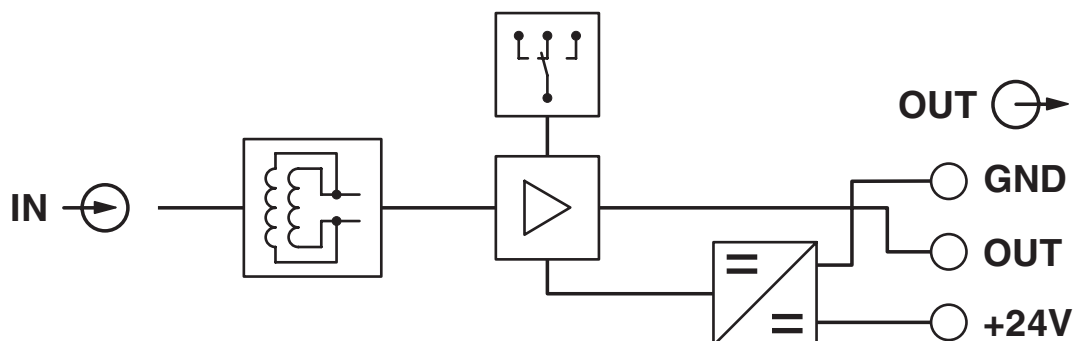
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Application drawing



Current measurement

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2813460>



**EAC**

Approval ID: RU\*DE.\*08.B.01852-19



**UL Listed**

Approval ID: E123528



**cUL Listed**

Approval ID: E123528

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27210123 |
| ECLASS-15.0 | 27210123 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002475 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121000 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |   |
|--|---|
| Environment friendly use period (EFUP) | EFUP-25   |
|  | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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