

Current transducers - MCR-SL-S-200-U - 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
- Loop-powered

RoHS



Key Commercial Data

| | |
|--------------------------------------|---|
| Packing unit | 1 pc |
| GTIN |  4 046356 043649 |
| GTIN | 4046356043649 |
| Weight per Piece (excluding packing) | 138.600 g |
| Custom tariff number | 85437090 |
| Country of origin | Japan |

Technical data

Dimensions

| | |
|------------------------------------|---------|
| Width | 55 mm |
| Height | 85 mm |
| Depth | 70.5 mm |
| Primary round conductor (diameter) | 18.5 mm |

Ambient conditions

Current transducers - MCR-SL-S-200-U - 2813460

Technical data

Ambient conditions

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

Input data

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

Output data

| | |
|---------------------------------|--|
| Output name | Voltage output |
| Voltage output signal | 0 V ... 10 V |
| | 0 V ... 5 V |
| Max. output voltage | (0 V ... 10 V) 14 V, (0 V ... 5 V) 7 V |
| Load/output load voltage output | ≥ 10 kΩ |

Switching output

| | |
|-------------|---------------------|
| Output name | No switching output |
|-------------|---------------------|

Power supply

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

Connection data

| | |
|----------------------------------|---|
| Connection method | Pluggable screw connection |
| Stripping length | 8 mm |
| Screw thread | M3 |
| Conductor cross section solid | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross section flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross section AWG | 24 ... 14 |
| Torque | 0.5 Nm ... 0.6 Nm (4,4 ... 5,31 lbf-in.) |

General

| | |
|---------------------------------|------------------------|
| Maximum transmission error | < 1 % (of final value) |
| Maximum temperature coefficient | < 0.035 %/K |
| Step response (10-90%) | < 340 ms |
| Overvoltage category | III |

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General

| | |
|---------------------------|-----------------------------|
| Degree of pollution | 2 |
| Rated insulation voltage | 300 V AC (to earth) |
| Test voltage input/output | 5 kV (50 Hz, 1 min.) |
| Color | green |
| Housing material | Polyamide PA non-reinforced |
| Mounting position | any |

Standards and Regulations

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

Conformance/approvals

| | |
|----------------|--|
| Designation | CE |
| Identification | CE-compliant |
| Designation | 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 |

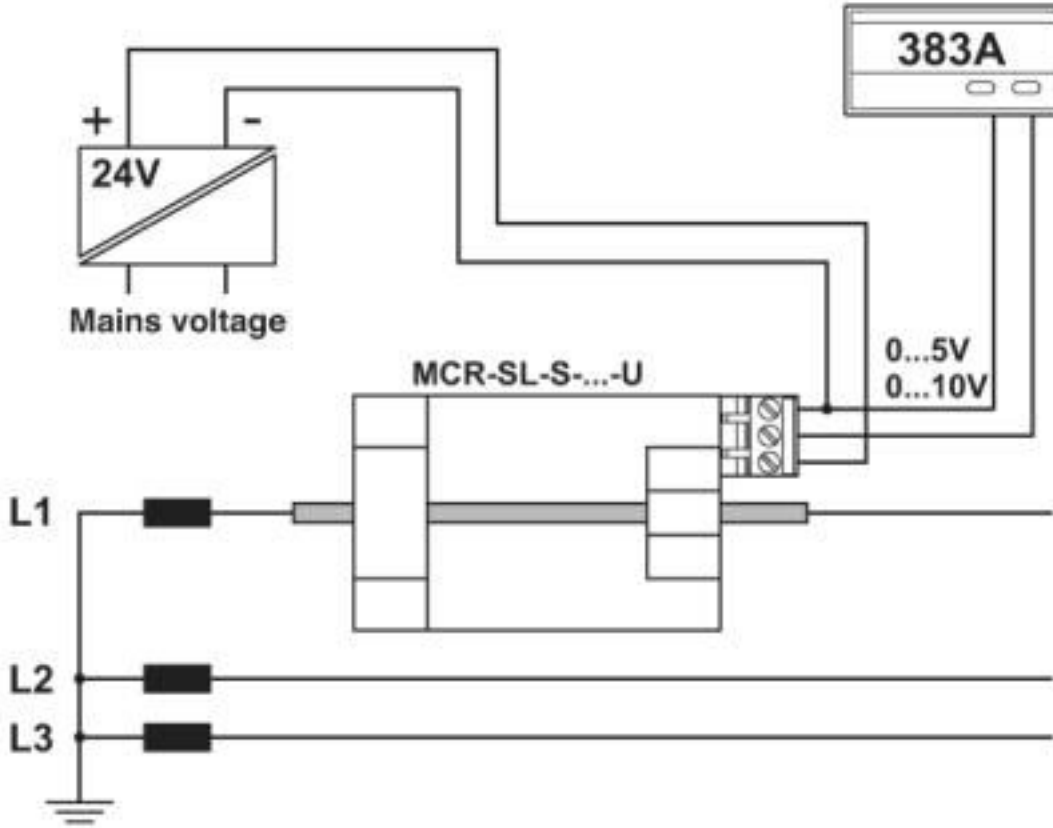
Environmental Product Compliance

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

Drawings

Current transducers - MCR-SL-S-200-U - 2813460

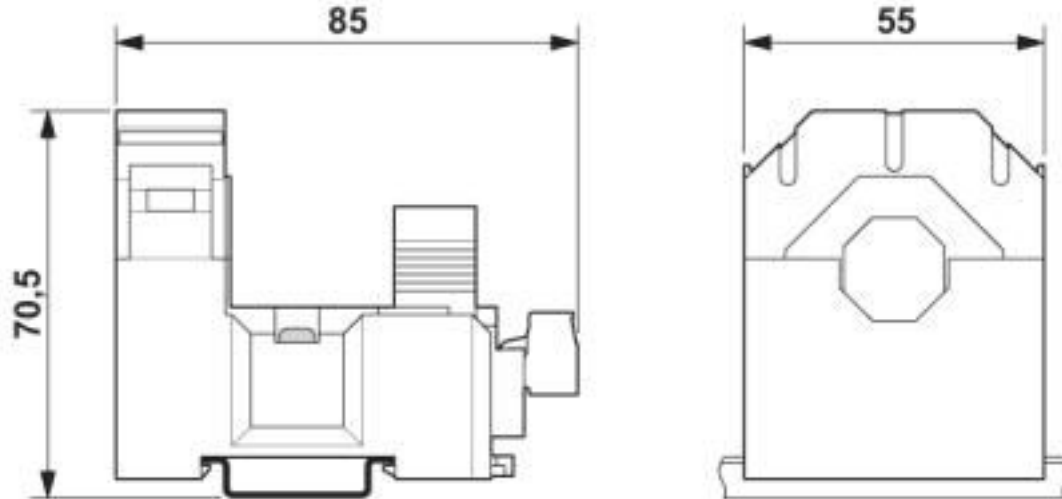
Application drawing



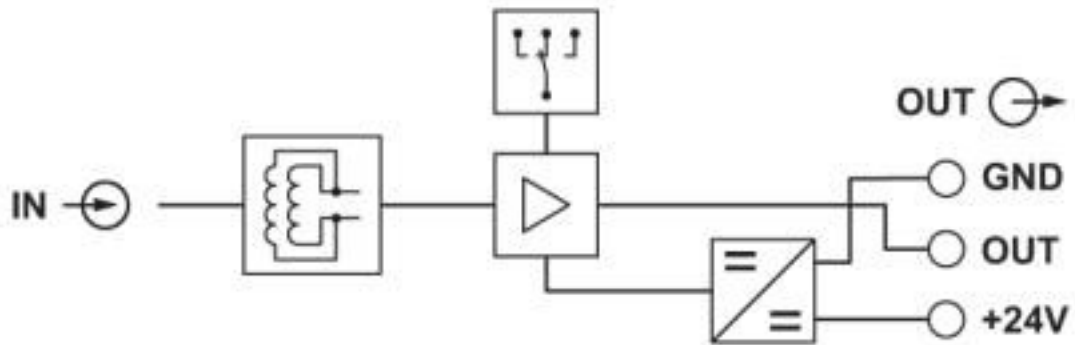
Current measurement

Current transducers - MCR-SL-S-200-U - 2813460

Dimensional drawing



Circuit diagram



Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27271100 |
| eCl@ss 4.1 | 27200300 |
| eCl@ss 5.0 | 27200300 |
| eCl@ss 5.1 | 27200300 |
| eCl@ss 6.0 | 27210100 |
| eCl@ss 7.0 | 27210123 |
| eCl@ss 8.0 | 27210123 |
| eCl@ss 9.0 | 27210123 |

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Classifications

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC002475 |
| ETIM 4.0 | EC002475 |
| ETIM 5.0 | EC002475 |
| ETIM 6.0 | EC002475 |
| ETIM 7.0 | EC002475 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211506 |
| UNSPSC 7.0901 | 39121008 |
| UNSPSC 11 | 39121008 |
| UNSPSC 12.01 | 39121008 |
| UNSPSC 13.2 | 39121032 |
| UNSPSC 18.0 | 39121032 |
| UNSPSC 19.0 | 39121032 |
| UNSPSC 20.0 | 39121032 |
| UNSPSC 21.0 | 39121032 |

Approvals

Approvals

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 |
|-----------|--|---|---------------|

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| cUL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 123528 |
|------------|--|---|---------------|

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Approvals

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

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| cULus Listed |  | |
|--------------|---|--|