

Current transducers - MCR-S-1/5-UI-DCI-NC - 2814715

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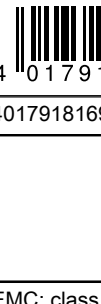
MCR current transducer, programmable and configurable, for measuring direct, alternating and distorted currents, input current 0...0.2 to 0...11 A, unconfigured

Your advantages

- True r.m.s. value measurement
- Device can be set via DIP switches or MCR/PI-CONF-WIN configuration software
- 3-way isolation



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 pc |
| GTIN |  4 017918 169275 |
| GTIN | 4017918169275 |

Technical data

Note

| | |
|-------------------------|---|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---|

Dimensions

| | |
|--------|----------|
| Width | 22.5 mm |
| Height | 99 mm |
| Depth | 114.5 mm |

Ambient conditions

| | |
|---|------------------|
| Ambient temperature (operation) | -20 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Maximum altitude | < 2000 m |
| Degree of protection | IP20 |
| Noise immunity | EN 61000-6-2 |

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Technical data

Input data

| | |
|--------------------------------------|---|
| Input | Current measuring input |
| Number of inputs | 3 |
| Configurable/programmable | Yes, unconfigured |
| Input current range | 0 A ... 11 A (AC/DC) |
| Operate threshold | 2 % (of measuring range nominal value 1/5/10 A) |
| Setting range for min. input current | 0 A ... 200 mA |
| Setting range for max. input current | 0 A ... 11 A |
| Impulse form | AC, DC or distorted currents |
| Overload capacity | 2 x I _N (continuous) |
| Surge strength | 20 x I _N (1 s) |
| Frequency measuring range | 15 Hz ... 400 Hz |
| Connection method | Screw connection |

Output data

| | |
|---------------------------------|---------------------------------|
| Output name | Voltage output / current output |
| Configurable/programmable | Yes, unconfigured |
| Voltage output signal | 0 V ... 10 V |
| | 2 V ... 10 V |
| | -10 V ... 10 V |
| | 0 V ... 5 V |
| | 1 V ... 5 V |
| | -5 V ... 5 V |
| | 10 V ... 0 V |
| | 10 V ... 2 V |
| | 10 V ... -10 V |
| | 5 V ... 0 V |
| | 5 V ... 1 V |
| | 5 V ... -5 V |
| Current output signal | 0 mA ... 20 mA |
| | 4 mA ... 20 mA |
| | 20 mA ... 0 mA |
| | 20 mA ... 4 mA |
| Load/output load voltage output | > 10 kΩ |
| Load/output load current output | < 500 Ω |

Switching output

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

Power supply

| | |
|--------------------------|------------------------|
| Supply voltage range | 20 V DC ... 30 V DC |
| Max. current consumption | < 40 mA (without load) |

Connection data

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Connection data

| | |
|----------------------------------|---|
| Connection method | 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 |

General

| | |
|----------------------------------|---|
| Maximum transmission error | < 0.5 % (of nominal range value under nominal conditions) |
| Temperature coefficient, typical | < 0.025 %/K |
| Step response (10-90%) | 330 ms (with AC) 40 ms (with DC) |
| Status display | Green LED |
| Overvoltage category | III |
| Degree of pollution | 2 |
| Rated insulation voltage | 300 V AC (to earth) |
| Test voltage input/output | 4 kV (50 Hz, 1 min.) |
| Test voltage input/power supply | 4 kV (50 Hz, 1 min.) |
| Test voltage output/power supply | 500 V (50 Hz, 1 min.) |
| Electromagnetic compatibility | Conformance with EMC directive |
| Noise emission | EN 61000-6-4 |
| Noise immunity | EN 61000-6-2 |
| Color | green |
| Housing material | Polyamide PA non-reinforced |
| Mounting position | any |

Standards and Regulations

| | |
|----------------------------------|--|
| Electromagnetic compatibility | Conformance with EMC directive |
| Noise emission | EN 61000-6-4 |
| Noise immunity | EN 61000-6-2 |
| Connection in acc. with standard | CUL |
| Low Voltage Directive | Conformance with Low Voltage Directive |
| Conformance | CE-compliant |
| UL, USA/Canada | Class I, Zone 2, AEx nA nC IIC T4, Ex nA nC IIC T4 Gc X Class I, Div. 2, Groups A, B, C and D or Non-Hazardous Locations Only |

Conformance/approvals

| | |
|----------------|--|
| Designation | CE |
| Identification | CE-compliant |
| Designation | UL, USA/Canada |
| Identification | Class I, Zone 2, AEx nA nC IIC T4, Ex nA nC IIC T4 Gc X Class I, Div. 2, Groups A, B, C and D or Non-Hazardous Locations Only |

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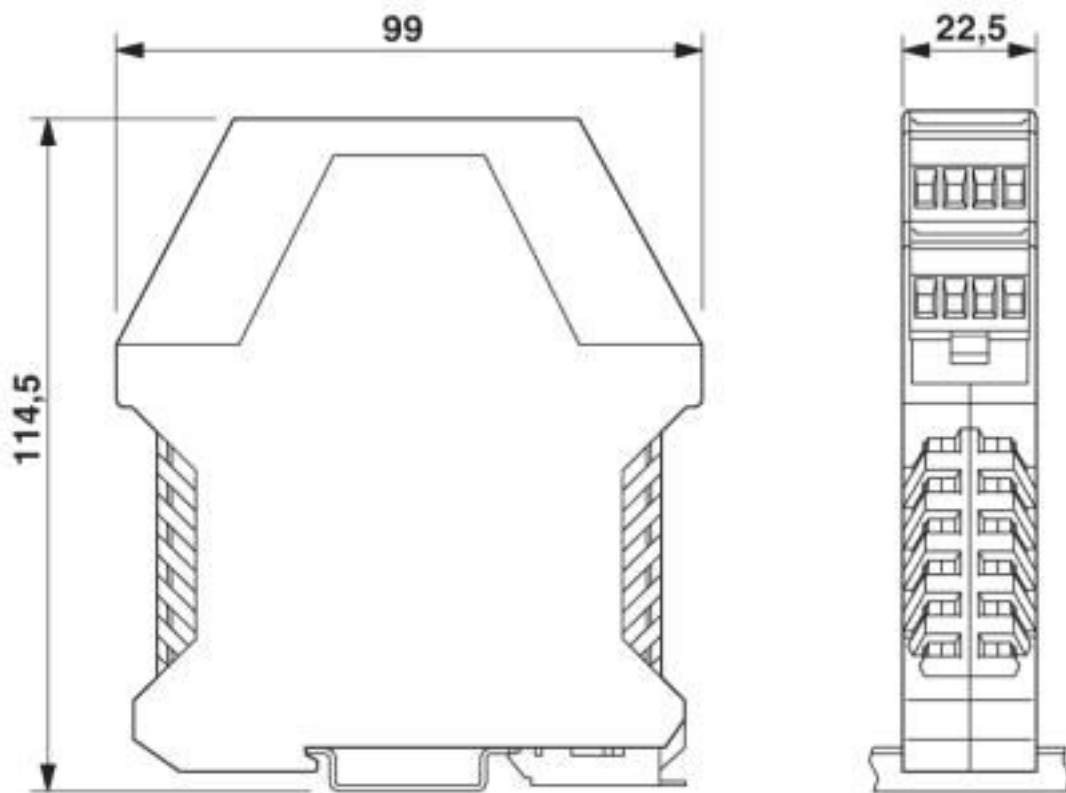
Technical data

Environmental Product Compliance

| | |
|------------|---|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

Dimensional drawing



Current transducers - MCR-S-1/5-UI-DCI-NC - 2814715

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 |

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

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UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approval details

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Approvals

| | | | |
|---------------|--|---|---------------|
| UL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
|---------------|--|---|---------------|

| | | | |
|----------------|--|---|---------------|
| cUL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
|----------------|--|---|---------------|

| | | |
|-----|--|---------------|
| EAC | | EAC-Zulassung |
|-----|--|---------------|

| | |
|------------------|--|
| cULus Recognized | |
|------------------|--|

Accessories

Accessories

Arrester test system

Cable - CM-KBL-RS232/USB - 2881078



Connecting cable D-9-SUB to USB, with adapter D-9-SUB to D-25-SUB.

Programming adapter

Adapter cable - MCR-TTL-RS232-E - 2814388



Software adapter cable (Stereo jack connector/D-SUB 25-pos.), 1.2 m length, for programming MCR-T-..., MCR-S-... and MCR-f-... modules

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PHOENIX CONTACT GmbH & Co. KG
Flachmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>

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