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Universal current transducer, for measuring AC, DC, and distorted currents, 0 ... 200 A input current, 4 ... 20 mA output

Your advantages

- Variable mounting on DIN rail and mounting panel
- 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

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2308030 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | C444 |
| Product key | CMMA31 |
| GTIN | 4046356434058 |
| Weight per piece (including packing) | 293.9 g |
| Weight per piece (excluding packing) | 293.6 g |
| Customs tariff number | 90303370 |
| Country of origin | CN |

Technical data

Product properties

| Product type | Current measuring transducer |
|----------------------------|------------------------------|
| Insulation characteristics | |
| Ovvovoltage category | III |
| Pollution degree | 2 |

Electrical properties

| | |
|---|--|
| Linearity error | <± 1 % (From the range end value) |
| Maximum power dissipation for nominal condition | 1 W |
| Step response (10-90%) | 150 ms |
| Temperature coefficient, typical | 0.02 %/K (0 °C ... 60 °C) 0.04 %/K (-40 °C ... 65 °C) |
| Maximum transmission error | <± 1 % (of final value) |
| Rated insulation voltage | 300 V AC |

Electrical isolation Input/output

| | |
|--------------|-------------------------|
| Test voltage | 3.5 kV AC (50 Hz, 60 s) |
|--------------|-------------------------|

Electrical isolation Input/power supply

| | |
|--------------|-------------------------|
| Test voltage | 3.5 kV AC (50 Hz, 60 s) |
|--------------|-------------------------|

General

| | |
|----------------|---|
| Accuracy class | 1 |
|----------------|---|

Supply

| | |
|--------------------------|----------------------|
| Nominal supply voltage | 24 V DC |
| Supply voltage range | 20 V DC ... 30 V DC |
| Max. current consumption | (30 + I_{OUT}) mA |
| Power consumption | 1.65 W |

Input data

Measurement

| | |
|---------------------------|------------------------------|
| Number of inputs | 1 |
| Input current range | 0 A AC/DC ... 200 A AC/DC |
| Overload capacity | 3 x I_{IN} |
| Frequency measuring range | 20 Hz ... 6000 Hz (0 Hz) |
| Curve type | AC, DC or distorted currents |

Current transformer

| | |
|-------------------------------------|-------------------|
| Rated frequency: Standard converter | 20 Hz ... 6000 Hz |
| Primary rated current I_{pn} | 200 A |
| Accuracy class | 1 |

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Output data

Signal: Current

| | |
|---------------------------------|----------------|
| Current output signal | 4 mA ... 20 mA |
| Max. current output signal | < 25 mA |
| Load/output load current output | < 300 Ω |

Connection data

| | |
|----------------------------------|--|
| Connection method | Push-in connection |
| Stripping length | 10 mm |
| Conductor cross-section rigid | 0.25 mm ² ... 2.5 mm ² |
| Conductor cross-section flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross-section AWG | 24 ... 12 |
| Connection method | Through connection |

Dimensions

Item dimensions

| | |
|--------|---------|
| Width | 90 mm |
| Height | 33.8 mm |
| Depth | 85 mm |

Circular conductor

| | |
|----------|-------|
| Diameter | 32 mm |
|----------|-------|

Material specifications

| | |
|------------------|---------------------|
| Color | green (RAL 6021) |
| Housing material | Frianyl B63 V0 GV30 |

Environmental and real-life conditions

Ambient conditions

| | |
|---|------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 65 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

Approvals

CE

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

UKCA

| | |
|-------------|----------------|
| Certificate | UKCA-compliant |
|-------------|----------------|

UL, USA/Canada

| | |
|----------------|-----------------------|
| Identification | UL/C-UL Listed UL 508 |
|----------------|-----------------------|

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EMC data

| | |
|-----------------------|--------------|
| Noise immunity | EN 61000-6-2 |
| Noise emission | |
| Standards/regulations | EN 61000-6-4 |

Mounting

| | |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

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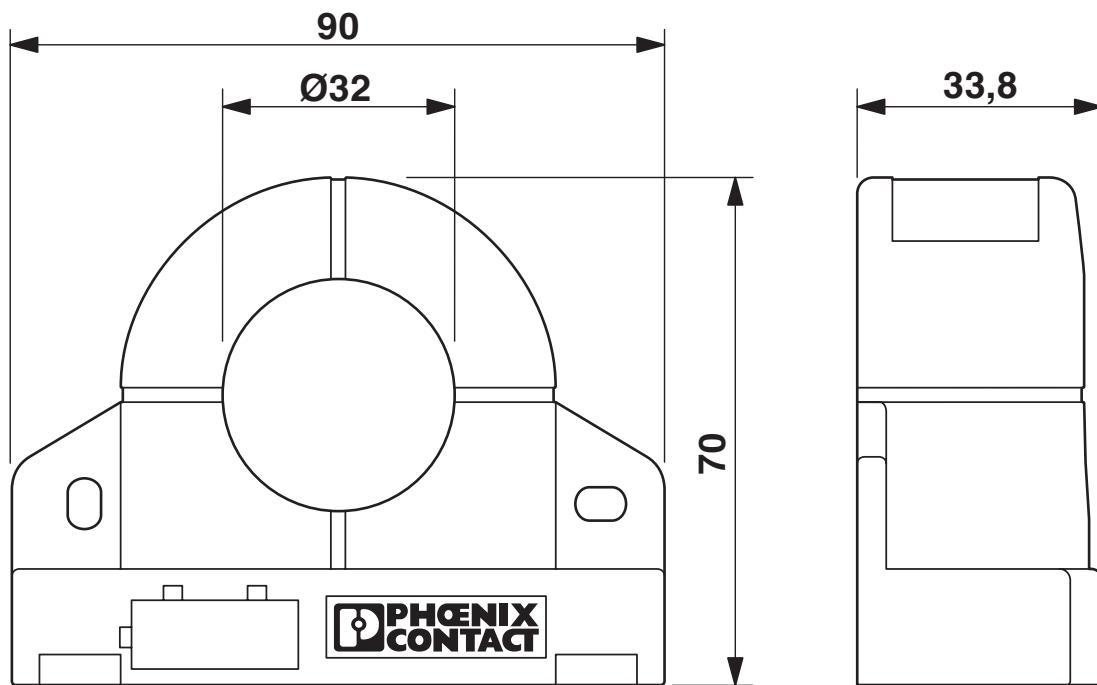
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Drawings

Dimensional drawing



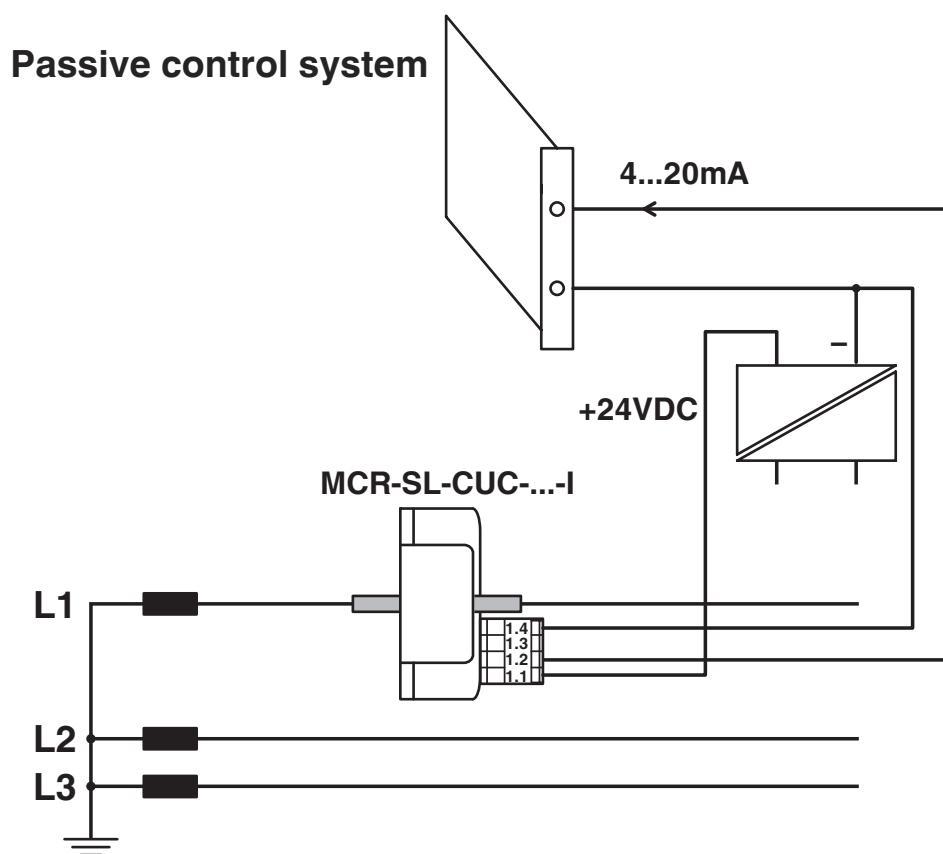
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Application drawing



Current monitoring

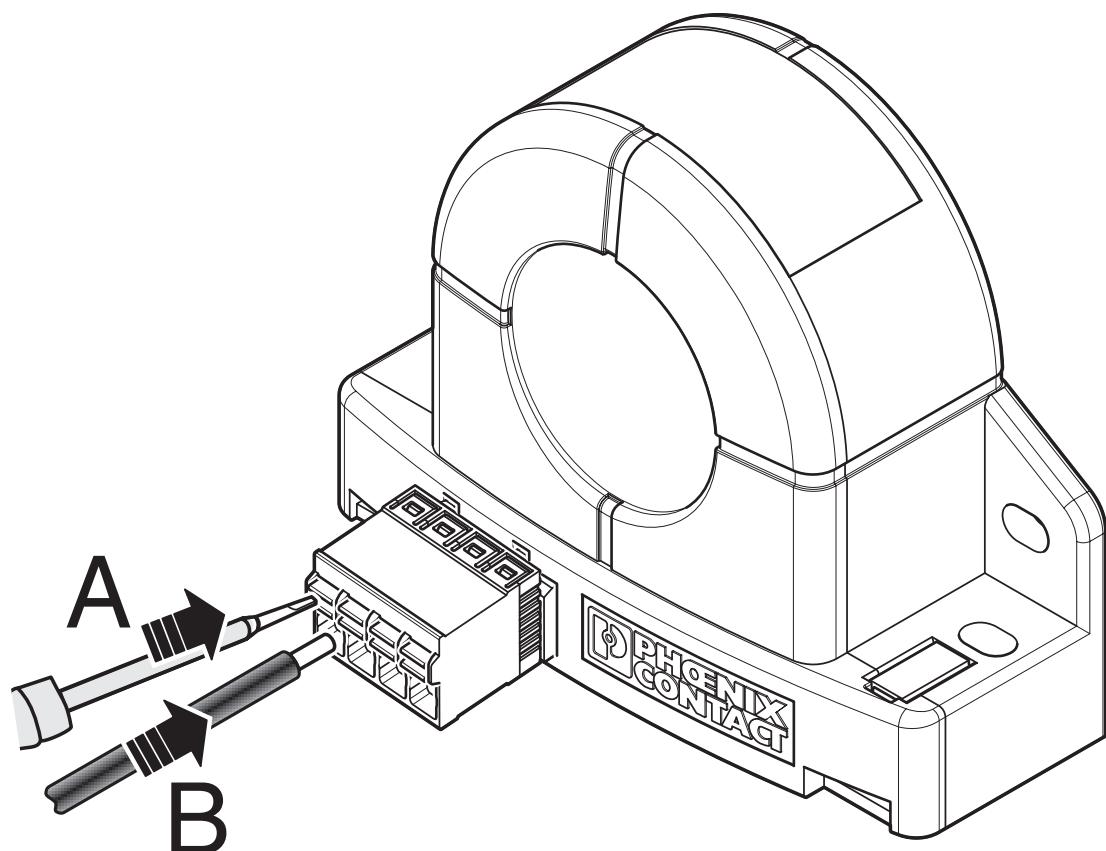
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Schematic diagram



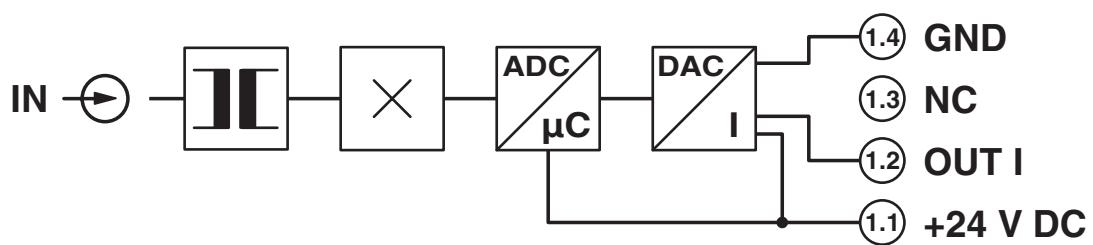
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Circuit diagram



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Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2308030>



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 9.0 | 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-E |
| | No hazardous substances above the limits |

EU REACH SVHC

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

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