

# PACT MCR-V1-21-44-300-5A-1 - Current transformer



2277789

<https://www.phoenixcontact.com/us/products/2277789>

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Bus-bar current transformer, 300 A AC primary current; 5 A AC secondary current; accuracy class 1; 10 VA rated power

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2277789                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C444                           |
| Product key                          | CMMA11                         |
| GTIN                                 | 4046356502122                  |
| Weight per piece (including packing) | 201 g                          |
| Weight per piece (excluding packing) | 100 g                          |
| Customs tariff number                | 85043129                       |
| Country of origin                    | DE                             |

## Technical data

### Product properties

|              |                     |
|--------------|---------------------|
| Product type | Current transformer |
|--------------|---------------------|

### Electrical properties

|                          |                                |
|--------------------------|--------------------------------|
| Rated insulation voltage | 1 kV (Phase/neutral conductor) |
|--------------------------|--------------------------------|

#### General

|                   |                             |
|-------------------|-----------------------------|
| Can be calibrated | no                          |
| Converter type    | Bus-bar current transformer |

### Input data

#### Current transformer

|                                  |                              |
|----------------------------------|------------------------------|
| Rated power                      | 10 VA                        |
| Thermal rated short-time current | $I_{th} = 60 \cdot I_n$      |
| Thermal rated continuous current | $I_d = 1.2 \cdot I_n$        |
| Rated surge current              | $I_{dyn} = 2.5 \cdot I_{th}$ |
| Rated frequency $f_n$            | 50 Hz                        |
|                                  | 60 Hz                        |
| Primary rated current $I_{pn}$   | 0 A AC ... 300 A AC          |
| Can be calibrated                | no                           |
| Converter type                   | Bus-bar current transformer  |

### Output data

#### Signal

|                                  |                |
|----------------------------------|----------------|
| Designation                      | Current output |
| Secondary rated current $I_{sn}$ | 5 A AC         |
| Surge current limitation factor  | FS 5           |
| Accuracy class                   | 1              |

### Connection data

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| Connection method                | Screw connection                            |
| Conductor cross-section flexible | 2x 10 mm <sup>2</sup> (Secondary terminals) |
| Tightening torque                | 2 Nm                                        |

### Dimensions

#### Item dimensions

|        |       |
|--------|-------|
| Width  | 31 mm |
| Height | 68 mm |
| Depth  | 44 mm |

#### Item dimensions with alternative mounting

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|        |       |
|--------|-------|
| Width  | 44 mm |
| Height | 68 mm |
| Depth  | 31 mm |

## Circular conductor

|          |       |
|----------|-------|
| Diameter | 20 mm |
|----------|-------|

## Material specifications

|                                        |                 |
|----------------------------------------|-----------------|
| Color                                  | gray (RAL 7042) |
| Flammability rating according to UL 94 | V0 (Housing)    |
| Housing material                       | PA 6.6          |

## Environmental and real-life conditions

### Ambient conditions

|                                         |                                  |
|-----------------------------------------|----------------------------------|
| Ambient temperature (operation)         | -25 °C ... 40 °C                 |
| Ambient temperature (storage/transport) | -25 °C ... 40 °C                 |
| Altitude                                | ≤ 1000 m                         |
| Permissible humidity (operation)        | Use only indoors, non-condensing |
| Insulating material class               | H                                |

## Approvals

### CE

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

### UKCA

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

### UL, USA/Canada

|                |               |
|----------------|---------------|
| Identification | XODW8.E323953 |
|----------------|---------------|

## Standards and regulations

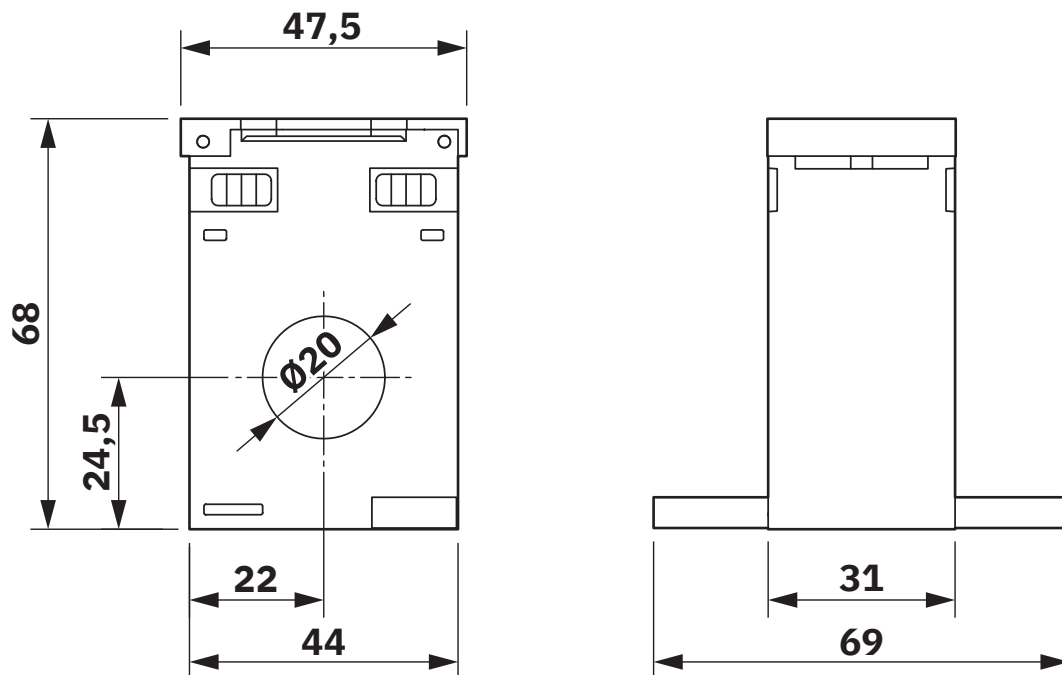
|                       |          |
|-----------------------|----------|
| Standards/regulations | EN 61869 |
|-----------------------|----------|

## Mounting

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

## Drawings

Dimensional drawing



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## Approvals

📄 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2277789>



**EAC**

Approval ID: RU\*DE\*08.B.01187/19



**cULus Recognized**

Approval ID: E323953

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27210902 |
| ECLASS-15.0 | 27210902 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002048 |
|----------|----------|

### 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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