

PACT MCR-V2-4012- 70- 250-5A-1 - Current transformer



2277116  
<https://www.phoenixcontact.com/us/products/2277116>

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Window-type current transformer, 250 A AC primary current; 5 A AC secondary current; accuracy class 1; 5 VA rated power

Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2277116             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | C444                |
| Product key                          | CK4A11              |
| Catalog page                         | Page 213 (C-5-2019) |
| GTIN                                 | 4046356305082       |
| Weight per piece (including packing) | 385 g               |
| Weight per piece (excluding packing) | 299 g               |
| Customs tariff number                | 85043129            |
| Country of origin                    | DE                  |

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## 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    | Window-type current transformer |

### Input data

#### Current transformers

|                                  |                                        |
|----------------------------------|----------------------------------------|
| Rated power                      | 5 VA                                   |
| Thermal rated short-time current | $I_{th} = 60 * I_n$                    |
| Thermal rated continuous current | $I_d = 1.2 * I_n$                      |
| Rated surge current              | $I_{dyn} = 2.5 * I_{th}$               |
| Rated frequency $f_n$            | 50 Hz                                  |
|                                  | 60 Hz                                  |
| Primary rated current $I_{pn}$   | 0 A AC ... 250 A AC                    |
| Primary rated current range      | 1 A AC ... 4000 A AC (depends on type) |
| Can be calibrated                | no                                     |
| Converter type                   | Window-type 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 2.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> (Secondary terminals) |

### Dimensions

#### Item dimensions

|        |       |
|--------|-------|
| Width  | 30 mm |
| Height | 90 mm |
| Depth  | 70 mm |

#### Item dimensions with alternative mounting

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|        |       |
|--------|-------|
| Width  | 70 mm |
| Height | 90 mm |
| Depth  | 30 mm |

## Copper rail

|        |       |
|--------|-------|
| Width  | 40 mm |
| Height | 12 mm |

## Copper rail 2

|        |       |
|--------|-------|
| Width  | 30 mm |
| Height | 10 mm |

## Circular conductor

|          |       |
|----------|-------|
| Diameter | 33 mm |
|----------|-------|

## Material specifications

|                  |                  |
|------------------|------------------|
| Color            | black (RAL 9005) |
| 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 |

## Approvals

### UL, USA/Canada

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

## Standards and regulations

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

## Mounting

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

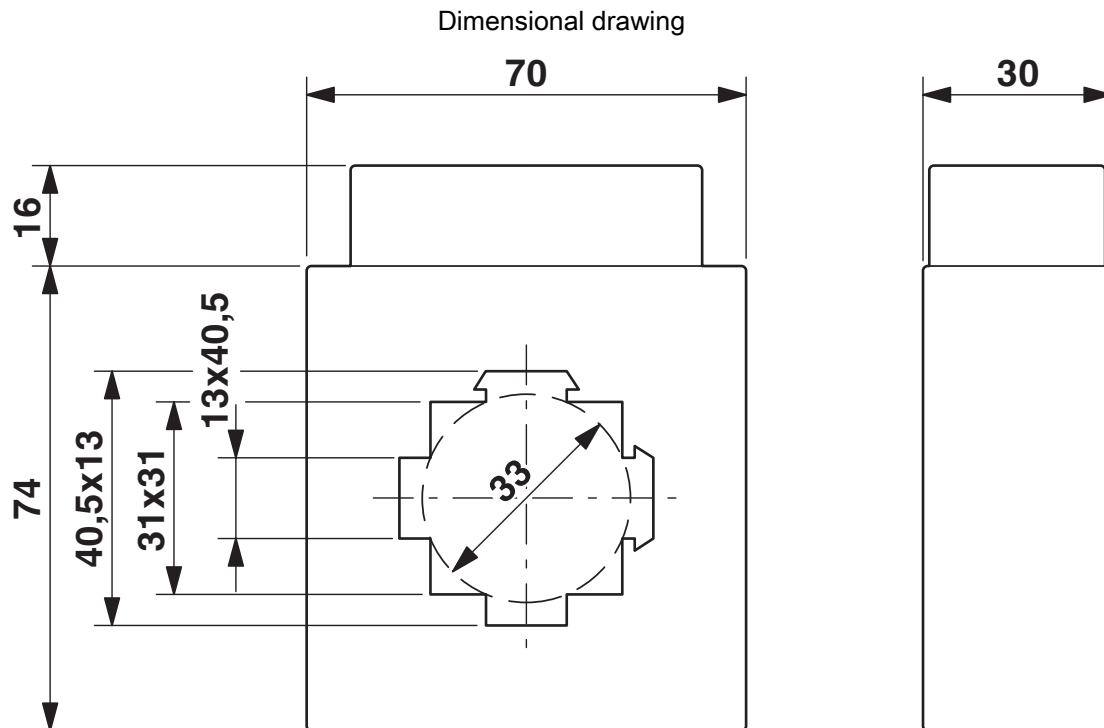
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## Drawings



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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2277116>



**EAC**

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

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Classifications

ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27210902 |
| ECLASS-12.0 | 27210902 |
| ECLASS-13.0 | 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-50                                                                                                                                                                                                                           |
|                                         | 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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## Accessories

### PACT-FAST-MNT-W13-L65 - Mounting material

2276625

<https://www.phoenixcontact.com/us/products/2276625>



The transformer quick-action mechanism enables the lightning-fast mounting of PACT current transformers on the power rail. The installation can be completed easily by hand without the use of tools. Fixing pins: 65 mm, holding latches: 13 mm

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### PACT-FAST-MNT-W13-L40 - Mounting material

2276612

<https://www.phoenixcontact.com/us/products/2276612>



The transformer quick-action mechanism enables the lightning-fast mounting of PACT current transformers on the power rail. The installation can be completed easily by hand without the use of tools. Fixing pins: 40 mm, holding latches: 13 mm

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## PACT MCR-RA - DIN rail adapter

2277598

<https://www.phoenixcontact.com/us/products/2277598>

Adapter for mounting on DIN rails.



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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)