

PACT MCR-V1-21-44-250-5A-1 - Current transformer



2277048

<https://www.phoenixcontact.com/us/products/2277048>

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

Product description

Our PACT current transformers for new installations offer a complete portfolio for converting alternating currents up to 4000 A AC. PACT current transformers are available as bus-bar, window-type, and winding current transformers with a range of different transformation ratios, accuracy classes, and rated powers suitable for your current measurement tasks.

Your advantages

- Protection against destruction: short-circuiting of the transformer by rotating the terminal cover 90°
- Variable mounting with flexible mounting options
- Detect peak loads reliably with a thermal nominal continuous current that is 120% of the primary rated current
- Increased electrical safety with high rated insulation voltages
- Space-saving design with consistently narrow housing widths of 30 mm

Commercial data

Item number	2277048
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C444
Product key	CMMA11
GTIN	4046356305105
Weight per piece (including packing)	204.3 g
Weight per piece (excluding packing)	180.9 g
Customs tariff number	85043129
Country of origin	DE

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Technical data

Product properties

Product type	Current transformer
Product family	Bus-bar current transformer

Electrical properties

Rated insulation voltage	1 kV (Phase/neutral conductor)
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General

Can be calibrated	no
Converter type	Bus-bar current transformer

Input data

Current transformer

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
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
Stripping length	10 mm
Conductor cross-section flexible	2x 10 mm ² ... 10 mm ² (Secondary terminals)
Tightening torque	2 Nm ... 2 Nm

Dimensions

Item dimensions

Width	31 mm
Height	68 mm
Depth	44 mm

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Item dimensions with alternative mounting

Width	44 mm
Height	68 mm
Depth	31 mm

Circular conductor

Diameter	20 mm
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Drill hole

Diameter	6.5 mm
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Drill hole

Diameter	6.5 mm
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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
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UKCA

Certificate	UKCA-compliant
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UL, USA/Canada

Identification	XODW8.E323953
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Standards and regulations

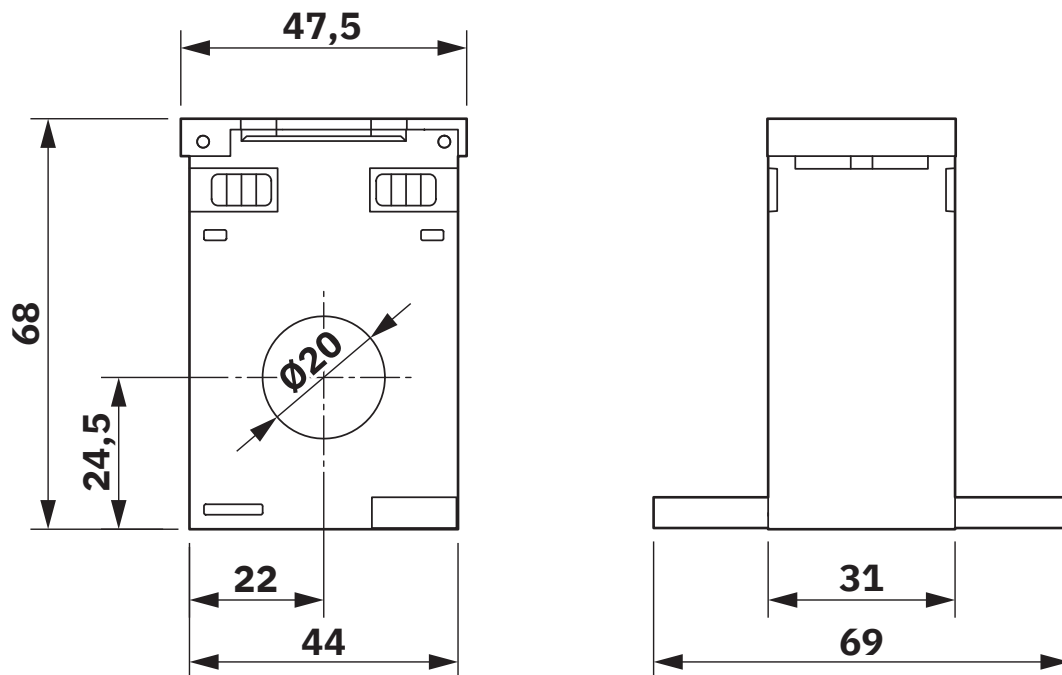
Standards/regulations	EN 61869
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Mounting

Mounting type	DIN rail mounting
	Panel mounting

Drawings

Dimensional drawing



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Approvals

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cULus Recognized

Approval ID: E323953

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Classifications

ECLASS

ECLASS-13.0	27210902
ECLASS-15.0	27210902

ETIM

ETIM 10.0	EC002048
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UNSPSC

UNSPSC 21.0	39121000
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com