

2308027

https://www.phoenixcontact.com/us/products/2308027

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Universal current transducer, for measuring AC, DC, and distorted currents, 0 ... 100 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	2308027
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C444
Product key	CK4A31
Catalog page	Page 229 (C-5-2019)
GTIN	4046356433808
Weight per piece (including packing)	296 g
Weight per piece (excluding packing)	293.5 g
Customs tariff number	90303370
Country of origin	CN



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### Technical data

## Product properties

Product type	Current transducer
Insulation characteristics	
Overvoltage 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
ACCUIACY CIASS		

#### Supply

Nominal supply voltage	24 V DC
Supply voltage range	20 V DC 30 V DC
Max. current consumption	(30 + I <sub>OUT</sub> ) mA
Power consumption	1.65 W

### Input data

#### Measurement

Number of inputs	1
Input current range	0 A AC/DC 100 A AC/DC
Overload capacity	6 x I <sub>IN</sub>
Frequency measuring range	20 Hz 6000 Hz (0 Hz)
Curve type	AC, DC or distorted currents

#### Current transformers

Rated frequency: Standard converter	20 Hz 6000 Hz
Primary rated current I <sub>pn</sub>	100 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 mm² 2.5 mm²
Conductor cross section flexible	0.2 mm² 2.5 mm²
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

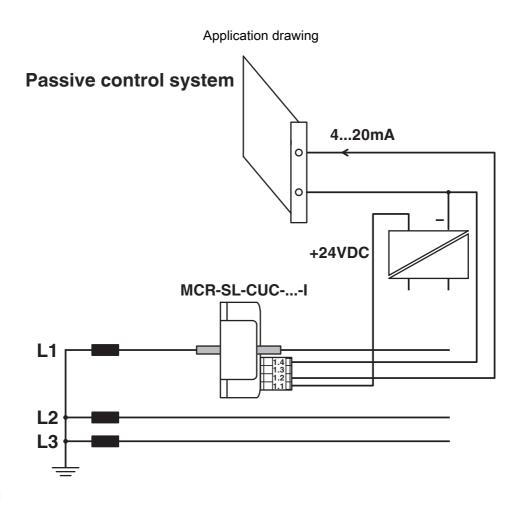
Noise immunity	EN 61000-6-2
Noise emission	EN 61000-6-4
Mounting	
Mounting type	DIN rail mounting



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## Drawings



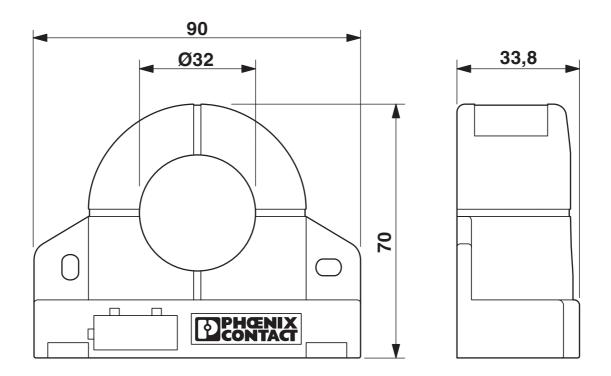
Current monitoring



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### Dimensional drawing

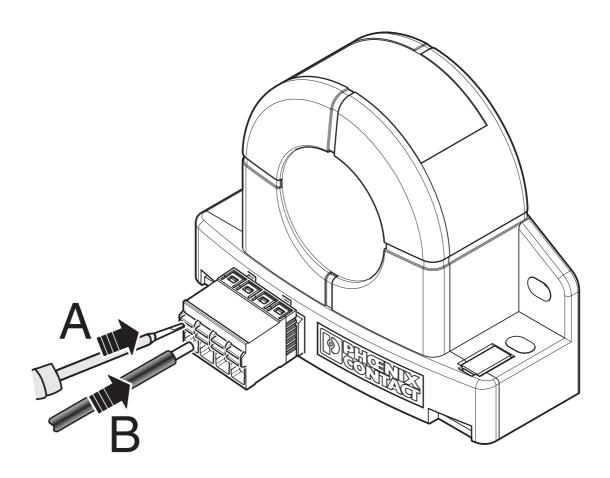




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### Schematic diagram

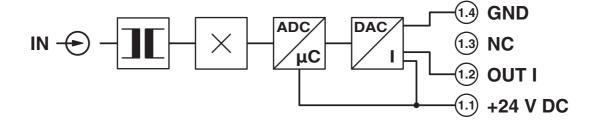




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### Circuit diagram





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### **Approvals**

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EAC

Approval ID: RU\*DE.\*08.B.01852-19



**UL Listed** 

Approval ID: FILE E 123528



cUL Listed

Approval ID: FILE E 123528

cULus Listed



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## Classifications

UNSPSC 21.0

#### **ECLASS**

ECLASS-11.0	27210123
ECLASS-13.0	27210123
ECLASS-12.0	27210123
ETIM	
ETIM 9.0	EC002475
UNSPSC	

39121000



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# Environmental product compliance

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-25
	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 MCR-RA - DIN rail adapter

2277598

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Adapter for mounting on DIN rails.



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