

2308027

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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



2308027

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

# 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	ı

## 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



2308027

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

# 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

OL .		
Certificate	CE-compliant	
UKCA		
Certificate	UKCA-compliant	
UL, USA/Canada		
Identification	UL/C-UL Listed UL 508	



2308027

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

## EMC data

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

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

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