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)	298.5 g
Weight per piece (excluding packing)	290 g
Customs tariff number	90303370
Country of origin	CN

PHŒN

2308027

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

Technical data

Product properties	
Product type	Current transducer
Data management status	
Article revision	04
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
Supply	
Nominal supply voltage	24 V DC
Supply voltage range	20 V DC 30 V DC
Max. current consumption	(30 + I _{OUT}) 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 _{IN}	
Frequency measuring range	20 Hz 6000 Hz (0 Hz)	
Curve type	AC, DC or distorted currents	
Current transformer		
Rated frequency: Standard converter	20 Hz 6000 Hz	



2308027

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

Primary rated current I _{pn}	100 A
Accuracy class	1

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 mm ² 2.5 mm ²
Conductor cross section flexible	0.2 mm ² 2.5 mm ²
Conductor cross section AWG	24 12
Connection method	Through connection

Dimensions

ltem	dimensions
nem	unnensions

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
Certificate	CE-compliant
UKCA	



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

	Identification	UL/C-UL Listed UL 508			
ΕM	EMC data				
	Noise immunity	EN 61000-6-2			
	Noise emission	EN 61000-6-4			
Mounting					
	Mounting type	DIN rail mounting			

PHŒNIX CONTACT

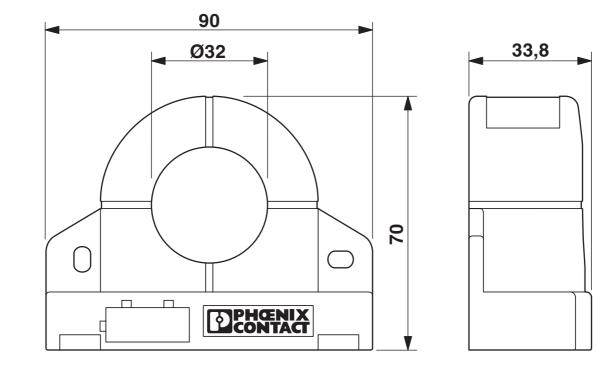
2308027

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



Drawings

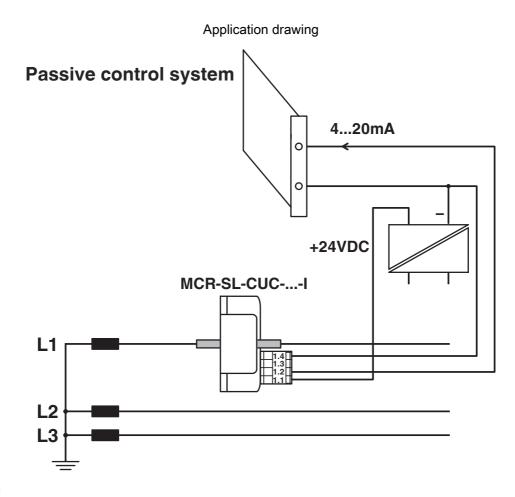
Dimensional drawing





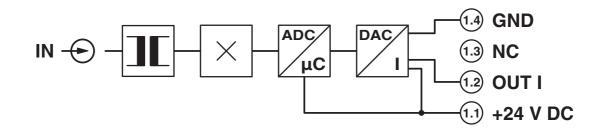
2308027

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



Current monitoring

Circuit diagram



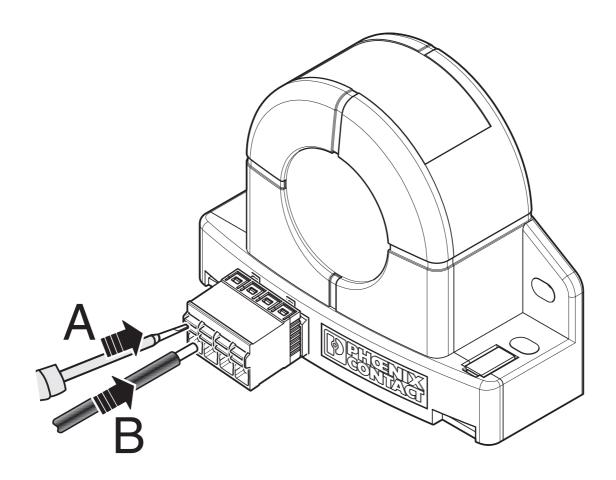




2308027

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

Schematic diagram





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

Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2308027

ERC	EAC Approval ID: RU*DE.*08.B.01852-19
	UL Listed Approval ID: E123528
<u>@</u>	CUL Listed Approval ID: E123528
c	ULus Listed

PHŒNIX CONTACT

2308027

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



Classifications

ECLASS

ECLASS-11.0	27210123
ECLASS-13.0	27210123
ECLASS-12.0	27210123

ETIM

	ETIM 9.0	EC002475			
UN	UNSPSC				
	UNSPSC 21.0	39121000			

2308027

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

Environmental product compliance

EU RoHS

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%

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