

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	CMMA31
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



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### Technical data

### Product properties

Product type	Current measuring transducer
Insulation characteristics	
Overvoltage category	III
Pollution degree	2

### Electrical properties

<± 1 % (From the range end value)	
1 W	
150 ms	
0.02 %/K (0 °C 60 °C)	
0.04 %/K (-40 °C 65 °C)	
<± 1 % (of final value)	
300 V AC	
3.5 kV AC (50 Hz, 60 s)	
	1 W 150 ms 0.02 %/K (0 °C 60 °C) 0.04 %/K (-40 °C 65 °C) <± 1 % (of final value) 300 V AC

### Electrical isolation Input/power supply

Test voltage	3.5 kV AC (50 Hz, 60 s)
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#### General

Accuracy class	1
ACCUIACY Class	

#### 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

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

)L	
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			
Standards/regulations	EN 61000-6-4		
Mounting			
Mounting type	DIN rail mounting		

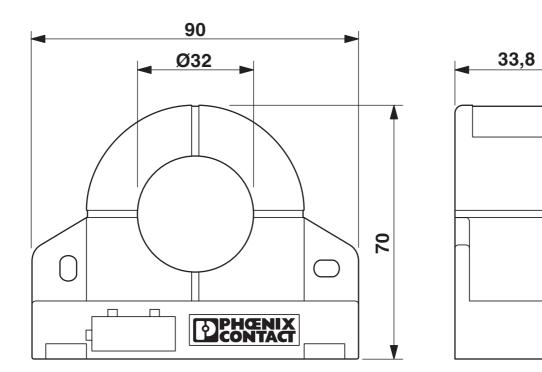


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## Drawings

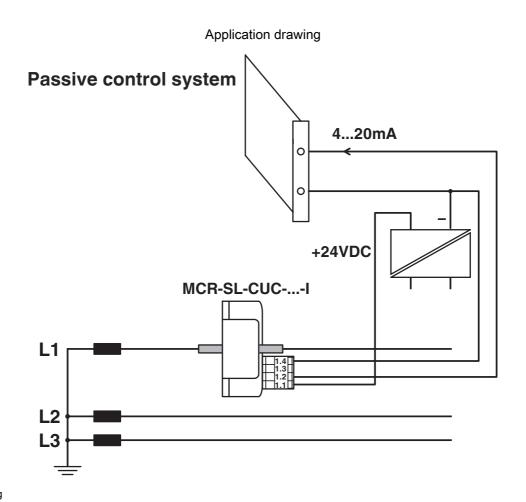
### Dimensional drawing





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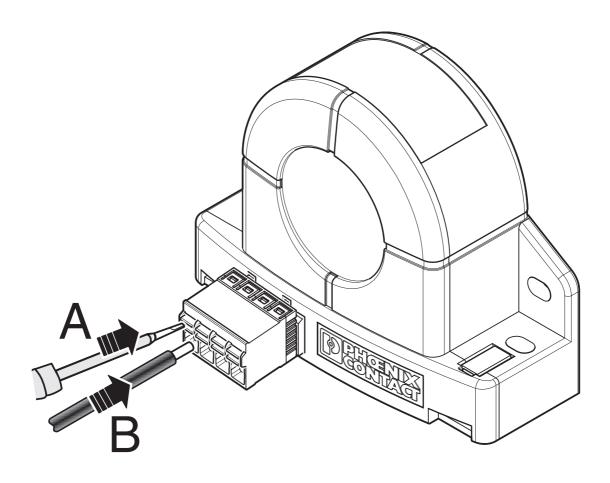
Current monitoring



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### Schematic diagram

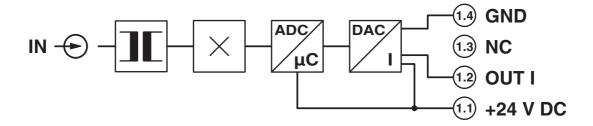




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### Circuit diagram





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### **Approvals**

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EAC

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



**UL Listed** 

Approval ID: E123528



cUL Listed

Approval ID: E123528



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## Classifications

#### **ECLASS**

	ECLASS-13.0	27210123	
	ECLASS-15.0	27210123	
ETIM			
	ETIM 9.0	EC002475	
UN	ISPSC		

### U

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-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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