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	CMMA31
Product key	CMMA31
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

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Technical data

Product properties

Product type	Current measuring transducer
Insulation characteristics	
Overvoltage category	III
Pollution degree	2
ectrical 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
	20 V DC 30 V DC (30 + I _{OUT}) mA

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		
Primary rated current I _{pn}	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 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

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

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Classifications

ECLASS

	ECLASS-13.0	27210123		
ETIM				
	ETIM 9.0	EC002475		
UNSPSC				
	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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