

2813457

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MCR current measuring transducer, for measuring sinusoidal and non-sinusoidal alternating currents, input current 0...100 A, output voltage 0...(5) 10 V

Your advantages

- · Can be retrofitted with open-up Rogowski coil
- 30 ... 6000 Hz true r.m.s. value measurement
- · Measuring range selection via slide switch

Commercial data

Item number	2813457
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C444
Product key	CK4A22
Catalog page	Page 235 (C-5-2019)
GTIN	4046356043632
Weight per piece (including packing)	143.2 g
Weight per piece (excluding packing)	137.1 g
Customs tariff number	85437090
Country of origin	JP



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Technical data

Product properties

Product type	Current transducer
Insulation characteristics	
Overvoltage category	III
Pollution degree	2
Electrical properties	
Maximum power dissipation for nominal condition	1 W
Test voltage input/output	4.13 kV AC (50 Hz, 60 s)
Step response (10-90%)	< 340 ms
Maximum temperature coefficient	< 0.035 %/K
Maximum transmission error	< 1 % (of final value)
Rated insulation voltage	300 V AC (to earth)
Supply	
Nominal supply voltage	24 V DC
Supply voltage range	20 V DC 30 V DC
Max. current consumption	< 30 mA

Input data

Signal	
Configurable/programmable	Yes
Current input signal	0 A 100 A
Measurement	
Input current range	0 A AC 50 A AC
	0 A AC 75 A AC
	0 A AC 100 A AC
Setting range for min. input current	0 A AC 50 A AC
Setting range for max. input current	0 A AC 100 A AC
Overload capacity	Depending on laid conductor
Surge strength	Depending on through connected conductor
Frequency measuring range	30 Hz 6000 Hz
Curve type	Sinusoidal and non-sinusoidal
Operate threshold	1 % (of final value)

Output data

Voltage output signal	0 V 5 V
	0 V 10 V
Max. voltage output signal	(0 V 10 V) 14 V, (0 V 5 V) 7 V



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Load/output load voltage output	≥ 10 kΩ
Connection data	
Connection method	Screw connection
Stripping length	8 mm
Screw thread	М3
Conductor cross section rigid	0.2 mm ² 2.5 mm ²
Conductor cross section flexible	0.2 mm ² 2.5 mm ²
Conductor cross section AWG	24 14
Tightening torque	0.5 Nm 0.6 Nm (4,4 5,31 lbf-in.)
Connection method	Through connection

Dimensions

Item dimensions	
Width	55 mm
Height	85 mm
Depth	70.5 mm

Circular cor	nductor
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Diameter ≤ 18.5 mm		
	Diameter	≤ 18.5 mm

Material specifications

Color	green (RAL 6021)
Housing material	Polyamide PA non-reinforced

Environmental and real-life conditions

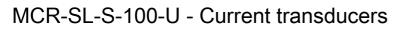
Ambient conditions	
Degree of protection	IP20
Ambient temperature (operation)	-20 °C 60 °C

Approvals

Mounting type

CE	
Certificate	CE-compliant
UKCA	
Certificate	UKCA-compliant
UL, USA/Canada	
Identification	UL/C-UL Listed UL 508
	Class I, Div. 2, Groups A, B, C, D T4A
	Class I, Zone 2, Group IIC T4A
	Or Non-Hazardous Locations only

DIN rail mounting



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Mounting position

any



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Classifications

ECLASS

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

ETIM

	ETIM 9.0	EC002475
UNSPSC		
	UNSPSC 21.0	39121000

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Environmental product compliance

China RoHS

Environmentally Friendly Use Period = 25; For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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