

Current transducers - MCR-SLP-1-5-UI-0 - 2814359

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MCR passive current measuring transducer, for sinusoidal alternating currents 0..1 A AC/0..5 A AC, without switching output, output signal 0..10 V/0..20 mA

Product Features

- ✓ Loop-powered
- ✓ 1 A and 5 A AC measuring ranges, reconnectable



Key commercial data

Packing unit	1 pc
GTIN	 4 017918 148447
Weight per Piece (excluding packing)	232.4 GRM
Custom tariff number	85437090
Country of origin	Germany

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	22.5 mm
Height	99 mm
Depth	114.5 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
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Ambient conditions

Degree of protection	IP20
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Input data

Input	Current measuring input 1 A
Input current range	0 A AC ... 1 A AC
Impulse form	Sine
Overload capacity	2 x I _N (5 min. at 60°C ambient temperature)
Surge strength	50 A (1 s)
Permissible output range	1.2 x I _N
Nominal frequency f _N	50 Hz
Frequency measuring range	45 Hz ... 60 Hz
Power loss	1.6 VA (at I _A = 20 mA)
Connection method	Screw connection
Input	Current measuring input 5 A
Input current range	0 A AC ... 5 A AC
Impulse form	Sine
Overload capacity	2 x I _N (5 min. at 60°C ambient temperature)
Surge strength	100 A (1 s)
Permissible output range	1.2 x I _N
Nominal frequency f _N	50 Hz
Frequency measuring range	45 Hz ... 60 Hz
Power loss	2.2 VA (at I = 20 mA)
Connection method	Screw connection

Output data

Output name	Voltage output
Voltage output signal	0 V ... 10 V
Max. output voltage	20 V
Load/output load voltage output	> 100 kΩ
Output name	Current output
Current output signal	0 mA ... 20 mA
Max. output current	30 mA
Load/output load current output	< 750 Ω
Residual ripple, in reference to the measured value	0.5 % (pp of measured value)

Switching output

Output name	No switching output
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Connection data

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Connection data

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max.	14
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Stripping length	8 mm
Screw thread	M3

General

Maximum transmission error	< 0.5 % (of final value)
Maximum temperature coefficient	< 0.015 %/K
Step response (10-90%)	< 200 ms
Protective circuit	Transient protection in the output Suppressor diode
Surge voltage category	III
Pollution degree	2
Rated insulation voltage	300 V AC (to earth)
Test voltage input/output	4 kV (50 Hz, 1 min.)
Color	green
Housing material	Polyamide PA non-reinforced
Mounting position	< 50°C: Any; > 50°C: Vertical (installation on horizontal DIN rail)
Conformance	CE-compliant

Classifications

eCl@ss

eCl@ss 4.0	27200303
eCl@ss 4.1	27200303
eCl@ss 5.0	27200303
eCl@ss 5.1	27200303
eCl@ss 6.0	27200303
eCl@ss 7.0	27142316
eCl@ss 8.0	27142316

ETIM

ETIM 2.0	EC001440
ETIM 3.0	EC001440

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Classifications

ETIM

ETIM 4.0	EC001440
ETIM 5.0	EC002475

UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	39121008

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / GOST / cULus Recognized

Ex Approvals

Approvals submitted

Approval details

UL Recognized 

cUL Recognized 
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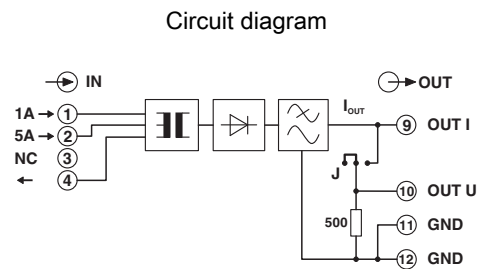
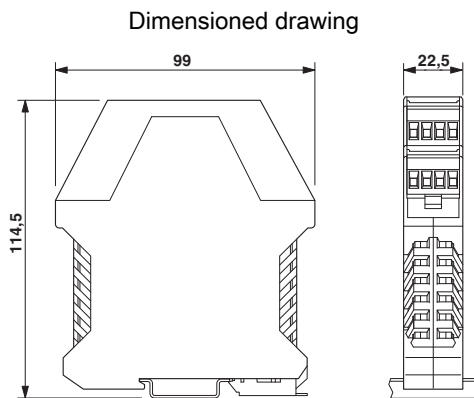
GOST 
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Approvals

cULus Recognized  US

Drawings



Current transducers - MCR-SLP-1-5-UI-0 - 2814359

Catalog photo



Figure may contain other products.