2904923

https://www.phoenixcontact.com/us/products/2904923

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Set consisting of a 1 A measuring transducer and a Rogowski coil with signal line. Length of Rogowski coil: 600 mm, diameter: 190 mm. Length of signal line: 3 m. The Rogowski coil measures the AC current of busbars and power lines.



Commercial data

Item number	2904923
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C444
Product key	CK4A12
Catalog page	Page 222 (C-5-2019)
GTIN	4046356900935
Weight per piece (including packing)	457.9 g
Weight per piece (excluding packing)	411.3 g
Customs tariff number	85437090
Country of origin	DE

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Technical data

Current transformer
double insulation
double insulation
III (1000 V, to neutral conductor)
IV (600 V, to neutral conductor)
2
Reinforced insulation in accordance with IEC 61010-1
< 1 %
Surge protection; 33 V suppressor diode
0.005 %/K (+10 °C +70 °C, both components have the same ambient temperature)
0.07 %/K (-20 °C +10 °C, both components have the same ambient temperature)
2x 0.22 mm (Signal (tinned))
1x 0.22 mm (Shielding (tinned))
double insulation
1000 V AC (rms CAT III)
600 V AC (rms CAT IV)
10.45 kV DC (60 s)
<± 0.2 %
< 0.5 % (From the range end value)
≤ 0.5 % (From the range end value)
45 Hz 65 Hz
< 2 kHz
< 190 mA (at 19.2 V)
1.5 kV AC (Supply/input and output: 50 Hz, 1 min)
no
1
1

Supply: Measuring transducers



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2904923

https://www.phoenixcontact.com/us/products/2904923

Nominal supply voltage	24 V DC -20 % +25 %
Nominal supply voltage range	19.2 V DC 30 V DC
Max. current consumption	190 mA
Power consumption	4 W

Input data

Frequency	
Designation	Measuring coil
Frequency measuring range	40 Hz 20000 Hz
Position error	<± 0.1 % (typical)
Linearity error	< 0.1 %
Signal	
Input signal (at 50 Hz)	100 mV (1000 A)
Curve type	Sine
Input impedance	27 kΩ (smallest measuring range)
Current transformers	
Configurable/programmable	Via DIP switches
Rated power	1.5 VA
Primary rated current I _{pn}	0 A AC 100 A AC
	0 A AC 250 A AC
	0 A AC 400 A AC
	0 A AC 630 A AC
	0 A AC 1000 A AC
	0 A AC 1500 A AC
	0 A AC 2000 A AC
	0 A AC 4000 A AC
Phase angle	< 1 °
Can be calibrated	no
Class	1
Accuracy class	1
Converter type	Rogowski coil and 1 A measuring transducer

Output data

Designation	Measuring coil
Output signal (at 50 Hz)	100 mV (no load, at 1,000 A)
Output voltage (in no-load operation)	V _{OUT} = M * dl/dt
Output voltage (sinusoidal, in no-load operation)	100 mV (V _{OUT} = 2 * π * M * f * I (M = 0.318 μH; example: At 50 Hz; I = 1,000 A))
Accuracy class	< 1

Designation	Measuring transducer
Designation	Measuring transducer



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Current output signal	0 A AC 1 A AC
Rated power	1.25 VA
Load	0 Ω 1.25 Ω
Max. distances for copper cables at P_{Nmax}	16 m (0.75 mm² (AWG 20))
	32 m (1.5 mm² (AWG 16))
	55 m (2.5 mm² (AWG 14))

Connection data

Connection method	Screw connection
Stripping length	7 mm
Screw thread	M3
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

Signaling

Operating voltage display	Green LED
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Dimensions

Item dimensions

Width	22.5 mm
Height	85 mm
Depth	70.4 mm
Measuring coil	
Length	600 mm
Diameter	8.3 mm ±0.2 mm
2.0	
Measuring coil when installed	
	190 mm
Measuring coil when installed	
Measuring coil when installed Diameter	
Measuring coil when installed Diameter Signal line	190 mm
Measuring coil when installed Diameter Signal line Length	190 mm 3 m

Material specifications

Coil material	Elastollan
Housing material	PC
	Polyamide

Environmental and real-life conditions

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Ambient conditions

Measuring coil degree of protection	IP67 (not assessed by UL)
Measuring transducer degree of protection	IP20
Ambient temperature (operation)	-30 °C 80 °C (Measuring coil)
	-20 °C 70 °C (Measuring transducer)
Ambient temperature (storage/transport)	-40 °C 80 °C (Measuring coil)
	-25 °C 85 °C (Measuring transducer)
Altitude	< 2000 m
Permissible humidity (operation)	5 % 95 % (non-condensing)

Approvals

CE		
Certificate	CE-compliant	
UKCA		
Certificate	UKCA-compliant	
СМІМ		
Certificate	CMIM-compliant	
UL, USA/Canada		
Identification	UL 61010 Recognized	
Note	Measuring coil	
UL, USA/Canada		
Identification	UL 508 Listed	
Note	Measuring transducer	
NOLE	ivicasuring transutter	

EMC data

Noise immunity	EN 61000-6-3
Electromagnetic compatibility	Conformance with EMC directive
Noise emission	EN 61000-6-4

Standards and regulations

Electrical isolation	Reinforced insulation in accordance with IEC 61010-1
Standards/regulations	IEC 61010-1
	IEC 61010-2-032

Mounting

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2904923

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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2904923

EAC Approval ID: RU*DE*08.B.01187/19



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Classifications

ECLASS

ECLASS-11.0	27210902
ECLASS-13.0	27210902
ECLASS-12.0	27210902

ETIM

	ETIM 9.0	EC002048
UNSPSC		
	UNSPSC 21.0	39121000

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Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Accessories

PACT RCP-CLAMP - Holder

2904895 https://www.phoenixcontact.com/us/products/2904895



The optional holding device ensures the Rogowski coil is securely seated on busbars with a thickness of 10 \dots 15 mm. During installation, the coil housing is pushed onto the flange of the holding device and snaps in automatically.

PACT RCP-CLAMP-5-10 - Holder

2907888

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The optional holding device ensures the Rogowski coil is securely seated on busbars that are 5 ... 10 mm thick. During installation, the coil housing is pushed onto the flange of the holding device and snaps in automatically.

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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com