PACT RCP-D140-10M - Coil

1033482

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Rogowski coil, The Rogowski coil measures the AC current of rails and power lines.

Commercial data

Item number	1033482
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C444
Product key	CK4A12
Catalog page	Page 219 (C-5-2019)
GTIN	4055626539041
Weight per piece (including packing)	385.6 g
Weight per piece (excluding packing)	372.4 g
Customs tariff number	90309000
Country of origin	DE

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Technical data

Product properties

Product type	Rogowski coil
Set comprises	1033483 PACT RCP-4000A-1A-D140-10M

Data management status
Article revision	03

Insulation characteristics
Pollution degree	2

Electrical properties

Measuring coil
Conductor structure signal line	2x 0.22 mm (Signal (tinned))
	1x 0.22 mm (Shielding (tinned))
Insulation	double insulation
Rated insulation voltage	1000 V AC (rms CAT III)
	600 V AC (rms CAT IV)
Test voltage	10.45 kV DC (60 s)
Basic accuracy	<± 0.2 %

General
Converter type	Rogowski coil

Input data

Frequency
Designation	Measuring coil
Frequency measuring range	40 Hz ... 20000 Hz
Position error	<± 0.1 % (typical)
Linearity error	< 0.1 %

Current transformer
Converter type	Rogowski coil

Output data

Signal
Designation	Measuring coil
Output signal (at 50 Hz)	100 mV (no load, at 1,000 A)
Output voltage (in no-load operation)	$V_{OUT} = M * dI/dt$
Output voltage (sinusoidal, in no-load operation)	100 mV ($V_{OUT} = 2 * \pi * M * f * I$ (M = 0.318 µH; example: At 50 Hz; I = 1,000 A))

Dimensions

Measuring coil

Length	450 mm
Diameter	8.3 mm ±0.2 mm

Measuring coil when installed

Diameter	140 mm

Signal line

Length	10 m

Material specifications

Housing material	PC
Coil material	Elastollan

Environmental and real-life conditions

Ambient conditions

Measuring coil degree of protection	IP54 (not assessed by UL)
Ambient temperature (operation)	-30 °C ... 80 °C (Measuring coil)
Ambient temperature (storage/transport)	-40 °C ... 80 °C (Measuring coil)
Altitude	< 2000 m
Permissible humidity (operation)	5 % ... 95 % (non-condensing)

Approvals

UKCA

Certificate	UKCA-compliant

CMIM

Certificate	CMIM-compliant

UL, USA/Canada

Identification	UL 61010 Recognized
Note	Measuring coil

Standards and regulations

Standards/regulations	IEC 61010-1
	IEC 61010-2-030
	IEC 61869-10

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1033482

cUL Recognized
Approval ID: FILE E 357804

UL Recognized
Approval ID: FILE E 357804

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

cULus Recognized

Classifications

ECLASS

ECLASS-11.0	27210992
ECLASS-12.0	27210992
ECLASS-13.0	27210992

ETIM

ETIM 9.0	EC002498

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%