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	CMMA12
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

Technical data

Product properties

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

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)
Accuracy class	0.2 (IEC 61869-10: A1)

General

Converter type	Rogowski coil

Input data

Frequency

Designation	Measuring coil
Frequency measuring range	40 Hz ... 20000 Hz

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 * π * 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) (Measuring coil)	-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

CMIM

Certificate	CMIM-compliant

UL, USA/Canada

Identification	UL 61010 Recognized
Note	Measuring coil

Standards and regulations

Standards/regulations	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

UL Recognized
Approval ID: FILE E 357804

cUL Recognized
Approval ID: FILE E 357804

Classifications

ECLASS

ECLASS-13.0	27210992
ECLASS-15.0	27210992

ETIM

ETIM 10.0	EC002498

UNSPSC

UNSPSC 21.0	39121000

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%

EF3.1 Climate Change

CO2e kg	2.855 kg CO2e

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