

PACT RCP-4000A-1A-D190-3M-UV - Current transformer



1033485

<https://www.phoenixcontact.com/us/products/1033485>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

Set consisting of one 1 A measuring transducer and one UV-resistant 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	1033485
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C444
Product key	CMMA12
GTIN	4055626538761
Weight per piece (including packing)	530.2 g
Weight per piece (excluding packing)	440.3 g
Customs tariff number	85437090
Country of origin	DE

PACT RCP-4000A-1A-D190-3M-UV - Current transformer



1033485

<https://www.phoenixcontact.com/us/products/1033485>

Technical data

Product properties

Product type	Current transformer
Product family	Rogowski coil (UV-resistant)

Insulation characteristics

Insulation	double insulation
Overvoltage category	III (1000 V, to neutral conductor)
	IV (600 V, to neutral conductor)
Pollution degree	2

Electrical properties

Typical measuring error	< 1 %
Temperature coefficients	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)

Measuring coil

Length of measuring coil	600 mm
Diameter of measuring coil	8.3 mm ±0.2 mm
Length of signal cable	3 m
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 / 1 min.)
Basic accuracy	<± 0.21 %

Measuring transducers

Linearity error	< 0.5 % (From the range end value)
Maximum transmission error	≤ 0.5 % (From the range end value)
Frequency range	45 Hz ... 65 Hz
Max. detectable harmonics	< 2 kHz
Current consumption	< 190 mA (at 19.2 V)
Test voltage	1.5 kV AC (Supply/input and output: 50 Hz, 1 min)

General

Can be calibrated	no
Converter type	UV-resistant Rogowski coil and 1 A measuring transducer

Supply: Measuring transducers

Nominal supply voltage	24 V DC -20 % ... +25 %
Nominal supply voltage range	19.2 V DC ... 30 V DC

PACT RCP-4000A-1A-D190-3M-UV - Current transformer



1033485

<https://www.phoenixcontact.com/us/products/1033485>

Max. current consumption	190 mA
Power consumption	4 W

Input data

Frequency

Designation	Measuring coil
Frequency measuring range	40 Hz ... 20000 Hz
Position error	< 1 %
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 transformer

Configurable/programmable	Via DIP switches
Rated power	1.25 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
Converter type	UV-resistant Rogowski coil and 1 A measuring transducer

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)	$V_{OUT} = M \cdot di/dt$
Output voltage (sinusoidal, in no-load operation)	100 mV ($V_{OUT} = 2 \cdot \pi \cdot M \cdot f \cdot I$ (M = 0.318 μH; example: At 50 Hz; I = 1,000 A))
Accuracy class	< 1

Signal

Designation	Measuring transducer
Current output signal	0 A AC ... 1 A AC
Rated power	1.25 VA
Load	0 Ω ... 1.25 Ω 32 m (0.75 mm ² (AWG 20))

PACT RCP-4000A-1A-D190-3M-UV - Current transformer



1033485

<https://www.phoenixcontact.com/us/products/1033485>

Max. distances for copper cables at $P_{N\ max}$	64 m (1.5 mm ² (AWG 16))
	107 m (2.5 mm ² (AWG 14))

Connection data

Measuring transducer side

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
---------------------------	-----------

Dimensions

Measuring coil

Length	600 mm
Diameter	8.3 mm ±0.2 mm

Measuring coil when installed

Diameter	190 mm
----------	--------

Signal line

Length	3 m
--------	-----

Material specifications

Housing material	PC
	PA
Coil material	Elastollan

Environmental and real-life conditions

Ambient conditions

Measuring coil degree of protection	IP67 (not assessed by UL)
Measuring transducer degree of protection	IP20
Ambient temperature (operation) (Measuring coil)	-30 °C ... 80 °C (Measuring coil)
Ambient temperature (operation) (Measuring transducer)	-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

PACT RCP-4000A-1A-D190-3M-UV - Current transformer



1033485

<https://www.phoenixcontact.com/us/products/1033485>

UKCA

Certificate	UKCA-compliant
-------------	----------------

CMIM

Certificate	CMIM-compliant
-------------	----------------

UL, USA/Canada

Identification	UL 508 Listed
Note	Measuring transducer

Standards and regulations

Standards/regulations	IEC 61010-1
	IEC 61010-2-032

Mounting

Mounting type	DIN rail mounting
---------------	-------------------

PACT RCP-4000A-1A-D190-3M-UV - Current transformer



1033485

<https://www.phoenixcontact.com/us/products/1033485>

Classifications

ECLASS

ECLASS-13.0

27210902

ETIM

ETIM 9.0

EC002048

UNSPSC

UNSPSC 21.0

39121000

PACT RCP-4000A-1A-D190-3M-UV - Current transformer



1033485

<https://www.phoenixcontact.com/us/products/1033485>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Diboron trioxide(CAS: 1303-86-2)
	Lead monoxide (lead oxide)(CAS: 1317-36-8)
	Lead(CAS: 7439-92-1)
SCIP	b359369b-2bb2-4f45-9b62-3df4acd5609b

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

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