

Measuring transducer - PACT RCP-4000A-1A



2902990

<https://www.phoenixcontact.com/gb/products/2902990>

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This is an individual product; please order the complete set. The measuring transducer processes the mV signal of the upstream Rogowski coil. The measuring transducer has 8 current measuring ranges (100 A ... 4000 A AC) which can be set; max. output current of 1 A AC.

Commercial Data

Item number	2902990
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	CK4A12
Product Key	CK4A12
GTIN	4046356703734
Weight per Piece (including packing)	147.2 g
Weight per Piece (excluding packing)	136.46 g
Customs tariff number	85437090
Country of origin	DE

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Technical Data

Product properties

Product type	Current transformer
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Electrical properties

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
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
Class	1
Converter type	Measuring transducer for Rogowski coil

Supply: Measuring transducers

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

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

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Converter type	Measuring transducer for Rogowski coil
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Output data

Signal

Designation	Measuring transducer
Current output signal	0 A AC ... 1 A AC
Load	0 Ω ... 1.5 Ω

Connection data

Measuring transducer side

Connection method	Screw connection
Stripping length	7 mm
Screw thread	M3
Conductor cross section solid	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

LED signaling

Operating voltage display	Green LED
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Dimensions

Width	22.5 mm
Height	85 mm
Depth	70.4 mm

Item dimensions

Width	22.5 mm
Height	85 mm
Depth	70.4 mm

Material specifications

Housing material	Polyamide
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Environmental and real-life conditions

Ambient conditions

Measuring transducer degree of protection	IP20
Ambient temperature (operation)	-10 °C ... 65 °C (-14 °F ... 149 °F) -20 °C ... 70 °C (Measuring transducer)
Ambient temperature (storage/transport)	-25 °C ... 85 °C (Measuring transducer)
Altitude	< 2000 m
Permissible humidity (operation)	5 % ... 95 % (non-condensing)

Approval data

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UKCA

Certificate	UKCA-compliant
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CMIM

Certificate	CMIM-compliant
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Mounting

Mounting type	DIN rail mounting
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Approvals



EAC

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



UL Listed

Approval ID: FILE E 123528



cUL Listed

Approval ID: FILE E 123528



EAC

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



cUL Listed

Approval ID: FILE E 123528



UL Listed

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Classifications

ECLASS

ECLASS-9.0	27219290
ECLASS-10.0.1	27219290
ECLASS-11.0	27210992

ETIM

ETIM 8.0	EC002498
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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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