PACT RCP-4000A-1A - Measuring transducer

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	C444
Product key	CMMA12
GTIN	4046356703734
Weight per piece (including packing)	136.46 g
Weight per piece (excluding packing)	136.46 g
Customs tariff number	85437090
Country of origin	DE

Technical data

Product properties

Product type	Current measuring transducer
Product family	Measuring transducer for Rogowski coil
Set comprises	2904921 PACT RCP-4000A-1A-D95
	2910325 PACT RCP-4000A-1A-D95-5M
	2910326 PACT RCP-4000A-1A-D95-10M
	2904922 PACT RCP-4000A-1A-D140
	1033483 PACT RCP-4000A-1A-D140-10M
	2904923 PACT RCP-4000A-1A-D190
	2910327 PACT RCP-4000A-1A-D190-10M

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
Accuracy 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 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
Accuracy class	1
Converter type	Measuring transducer for Rogowski coil

Output data

Signal

Designation	Measuring transducer
Current output signal	0 A AC ... 1 A AC
Load	0 Ω ... 1.25 Ω

Connection data

Measuring transducer side

Connection method	Screw connection
Stripping length	7 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm² ... 2.5 mm²
Conductor cross-section flexible	0.2 mm² ... 2.5 mm²
Conductor cross-section AWG	24 ... 14
Tightening torque	0.5 Nm ... 0.6 Nm

Signaling

Operating voltage display	Green LED

Dimensions

Item dimensions

Width	22.5 mm
Height	85 mm
Depth	70.4 mm
Width	22.5 mm
Height	85 mm
Depth	70.4 mm

Material specifications

Housing material	PA

Environmental and real-life conditions

Ambient conditions

Measuring transducer degree of protection	IP20
Ambient temperature (operation)	-10 °C ... 65 °C (-14 °F ... 149 °F)
Ambient temperature (operation) (Measuring transducer)	-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)

Approvals

CMIM

Certificate	CMIM-compliant

Mounting

Mounting type	DIN rail mounting

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2902990

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

UL Listed
Approval ID: E123528

cUL Listed
Approval ID: E123528

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UL Listed
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Classifications

ECLASS

ECLASS-13.0	27210123
ECLASS-15.0	27210123

ETIM

ETIM 10.0	EC002475

UNSPSC

UNSPSC 21.0	39121000

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.)	Lead(CAS: 7439-92-1)
SCIP	0e558e7e-d927-4fab-a730-8f4000f84ef2

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