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Current transformer - PACT RCP-4000A-1A-D95-10M - 2910326

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Set consisting of a 1 A measuring transducer and a Rogowski coil with signal line. Length of Rogowski coil: 300 mm, diameter: 95 mm. Length of signal line: 10 m. The Rogowski coil measures the AC current of busbars and power lines.



Key Commercial Data

Packing unit	1 STK
GTIN	 4 055626 437651
GTIN	4055626437651

Technical data

Measuring transducer supply

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

Measuring coil input data

Frequency measuring range	40 Hz ... 20000 Hz
Position error	< 1 %
Linearity error	0.1 %

Measuring transducer input data

Measuring ranges (current)	100 A 250 A 400 A 630 A 1000 A 1500 A 2000 A 4000 A
Configurable/programmable	Via DIP switches
Phase angle	< 1 °
Rated power	1.5 VA
Max. distances for copper cables at P _{N max}	32 m (0.75 mm ² (AWG 20))
	64 m (1.5 mm ² (AWG 16))
	107 m (2.5 mm ² (AWG 14))

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Measuring transducer signal input

Input signal (at 50 Hz)	100 mV (1000 A)
Input impedance	27 kΩ (smallest measuring range)

Measuring coil signal output

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))

Measuring transducer signal output

Current output signal	0 A AC ... 1 A
Load	0 Ω ... 1.5 Ω

General data, measuring coil

Length of measuring coil	300 mm
Diameter of measuring coil	8.3 mm ±0.2 mm
Length of signal cable	10000 mm
Conductor structure signal line	2x 0.22 mm (Signal (tinned)) 1x 0.22 mm (Shielding (tinned))
Coil material	Elastollan
Housing material	PC
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 %
UL, USA/Canada	UL 61010 Recognized

General data for measuring transducer

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)
Housing material	Polyamide
Test voltage	1.5 kV AC (Supply/input and output: 50 Hz, 1 min)
UL, USA/Canada	UL 508 Listed

General data

Standards/regulations	IEC 61010-1 IEC 61010-2-032
Insulation	double insulation
Degree of pollution	2
Overvoltage category	III (1,000 V, to neutral conductor)

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General data

	IV (600 V, to neutral conductor)
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)
Typical measuring error	< 1 %

Connection data

Connection name	Measuring transducer side
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Screw thread	M3
Connection method	Screw connection
Stripping length	7 mm
Torque	0.5 Nm ... 0.6 Nm

Dimensions

Width	22.50 mm
Height	85.00 mm
Depth	70.40 mm

Ambient conditions

Ambient temperature (operation)	-30 °C ... 80 °C (Measuring coil)
	-20 °C ... 70 °C (Measuring transducer)
Ambient temperature (storage/transport)	-40 °C ... 80 °C (Measuring coil)
	-25 °C ... 85 °C (Measuring transducer)
Maximum altitude	< 2000 m
Measuring coil degree of protection	IP67 (not assessed by UL)
Measuring transducer degree of protection	IP20

Standards and Regulations

Standards/regulations	IEC 61010-1
	IEC 61010-2-032
Insulation	double insulation
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	IV (600 V, to neutral conductor)

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
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Environmental Product Compliance

	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"
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Approvals


Approvals

Approvals

EAC

Ex Approvals

Approval details

EAC		RU C- DE.A*30.B.01082
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