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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.



Key Commercial Data

Packing unit	1 STK
GTIN	4 055626 538761
GTIN	4055626538761
Weight per Piece (excluding packing)	440.300 g
Custom tariff number	85437090
Country of origin	Germany

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 mm² (AWG 20))

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Technical data

Measuring transducer input data

	64 m (1.5 mm² (AWG 16))
	107 m (2.5 mm² (AWG 14))
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 * dl/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))
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	600 mm
Diameter of measuring coil	8.3 mm ±0.2 mm
Length of signal cable	3000 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 %
General data for measuring transducer	
Linearity error	< 0.5 % (From the range end value)
Maximum transmission error	\leq 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)
Operating voltage display	Green LED
UL, USA/Canada	UL 508 Listed
General data	
Standarda/ragulationa	

Standards/regulations	IEC 61010-1
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Technical data

General data

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

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Technical data

Standards and Regulations

	IV (600 V, to neutral conductor)
Environmental Product Compliance	
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Classifications

eCl@ss

eCl@ss 9.0	27210902

Accessories

Accessories

Mounting material

Holder - PACT RCP-CLAMP - 2904895



The optional holding device ensures the Rogowski coil is securely seated on busbars with a thickness of 10 ... 15 mm. During installation, the coil housing is pushed onto the flange of the holding device and snaps in automatically.

Holder - PACT RCP-CLAMP-5-10 - 2907888



The optional holding device ensures the Rogowski coil is securely seated on busbars that are 5 ... 10 mm thick. During installation, the coil housing is pushed onto the flange of the holding device and snaps in automatically.

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