

PACT RCP-4000A-UIRO-D95 - Current transformer



2906231

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Set consisting of a 4-way signal conditioner with screw connection technology and a Rogowski coil 300 mm in length/95 mm in diameter for AC current measurement on busbars and power lines.

The signal conditioner outputs 8 different standard signals on the output side and has one switching output.

Commercial data

Item number	2906231
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CK4
Product key	CMMA12
Catalog page	Page 223 (C-5-2019)
GTIN	4055626048147
Weight per piece (including packing)	411 g
Weight per piece (excluding packing)	374 g
Customs tariff number	85437090
Country of origin	DE

Technical data

Product properties

Product type	Current transformer
Insulation characteristics	
Overvoltage category	II
Pollution degree	2

Electrical properties

Electrical isolation	Reinforced insulation in accordance with IEC 61010-1
Typical measuring error	< 1 %
Protective circuit	Surge protection; 33 V suppressor diode
Step response (0–99%)	110 ms
Rated insulation voltage	300 V

Measuring coil

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 (60 s)
Accuracy class	0.2 (IEC 61869-10: A1)

Measuring transducers

Maximum transmission error	≤ 0.5 % (From the range end value)
Frequency range	16 Hz ... 1000 Hz
Test voltage	3 kV (50 Hz, 1 min.)

General

Can be calibrated	no
Converter type	Rogowski coil and 4-way signal conditioner

Supply: Measuring transducers

Nominal supply voltage	24 V DC
Nominal supply voltage range	9.6 V DC ... 30 V DC
Power consumption	≤ 1 W (at I _{OUT} = 20 mA, 9.6 V DC, 600 Ω load)

Input data

Frequency

Designation	Measuring coil
Frequency measuring range	40 Hz ... 20000 Hz

Signal

Input signal (at 50 Hz)	100 mV (1000 A)
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Curve type	Sine
Input impedance	> 100 kΩ

Current transformer

Configurable/programmable	Via DIP switches
Rated frequency: Standard converter	40 Hz ... 20000 Hz
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
Can be calibrated	no
Converter type	Rogowski coil and 4-way signal conditioner

Output data


Switching: Transistor

Number of outputs	1
Contact switching type	1 N/O contact
Minimum switching voltage	1 V
Maximum switching voltage	30 V DC
Min. switching current	100 μA
Max. switching current	100 mA (at 30 V)

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))

Signal

Designation	Measuring transducer
Configurable/programmable	Yes
Voltage output signal	0 V ... 10 V (via DIP switch)
	2 V ... 10 V (via DIP switch)
	0 V ... 5 V (via DIP switch)
	1 V ... 5 V (via DIP switch)
	0 V ... 10.5 V (can be set via software)
Max. voltage output signal	≈  V
Current output signal	0 mA ... 20 mA (via DIP switch)
	4 mA ... 20 mA (via DIP switch)
	0 mA ... 10 mA (via DIP switch)