

2906236

https://www.phoenixcontact.com/us/products/2906236

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Set consisting of a 4-way signal conditioner with push-in connection technology and a Rogowski coil 600 mm in length/190 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	2906236
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C444
Product key	CK4A12
Catalog page	Page 223 (C-5-2019)
GTIN	4055626048345
Weight per piece (including packing)	447.3 g
Weight per piece (excluding packing)	420.1 g
Customs tariff number	85437090
Country of origin	DE



2906236

https://www.phoenixcontact.com/us/products/2906236

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)
Basic accuracy	<± 0.2 %

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
Class	1
Accuracy class	1
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



2906236

https://www.phoenixcontact.com/us/products/2906236

Position error	
Linearity error	<± 0.1 % (typical)
Linearity entities	7 0.1 /0
gnal	
Input signal (at 50 Hz)	100 mV (1000 A)
Curve type	Sine
Input impedance	> 100 kΩ
rrent transformers	
Configurable/programmable	Via DIP switches
Rated frequency: Standard converter	40 Hz 20000 Hz
Primary rated current I _{pn}	0 A AC 100 A AC
. Pri	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
Class	1
Accuracy class	1
Converter type	Rogowski coil and 4-way signal conditioner
out data vitching: Transistor	
Number of outputs	
7	1
Contact switching type	1 1 N/O contact
Contact switching type	1 N/O contact
Contact switching type Minimum switching voltage	1 N/O contact
Contact switching type Minimum switching voltage Maximum switching voltage	1 N/O contact 1 V 30 V DC
Contact switching type Minimum switching voltage Maximum switching voltage Min. switching current	1 N/O contact 1 V 30 V DC 100 μA
Contact switching type Minimum switching voltage Maximum switching voltage Min. switching current Max. switching current	1 N/O contact 1 V 30 V DC 100 μA
Contact switching type Minimum switching voltage Maximum switching voltage Min. switching current Max. switching current	1 N/O contact 1 V 30 V DC 100 μA 100 mA (at 30 V)
Contact switching type Minimum switching voltage Maximum switching voltage Min. switching current Max. switching current gnal Designation	1 N/O contact 1 V 30 V DC 100 μA 100 mA (at 30 V) Measuring coil 100 mV (no load, at 1,000 A)
Contact switching type Minimum switching voltage Maximum switching voltage Min. switching current Max. switching current gnal Designation Output signal (at 50 Hz)	1 N/O contact 1 V 30 V DC 100 μA 100 mA (at 30 V) Measuring coil
Contact switching type Minimum switching voltage Maximum switching voltage Min. switching current Max. switching current gnal Designation Output signal (at 50 Hz) Output voltage (in no-load operation)	1 N/O contact 1 V 30 V DC 100 μA 100 mA (at 30 V) Measuring coil 100 mV (no load, at 1,000 A) V _{OUT} = M * dl/dt 100 mV (V _{OUT} = 2 * π * M * f * I (M = 0.318 μH; example: At 50
Contact switching type Minimum switching voltage Maximum switching voltage Min. switching current Max. switching current gnal Designation Output signal (at 50 Hz) Output voltage (in no-load operation) Output voltage (sinusoidal, in no-load operation)	1 N/O contact 1 V 30 V DC 100 μA 100 mA (at 30 V) Measuring coil 100 mV (no load, at 1,000 A) V _{OUT} = M * dl/dt 100 mV (V _{OUT} = 2 * π * M * f * I (M = 0.318 μH; example: At 50 Hz; I = 1,000 A))
Contact switching type Minimum switching voltage Maximum switching voltage Min. switching current Max. switching current gnal Designation Output signal (at 50 Hz) Output voltage (in no-load operation) Output voltage (sinusoidal, in no-load operation) Accuracy class	1 N/O contact 1 V 30 V DC 100 μA 100 mA (at 30 V) Measuring coil 100 mV (no load, at 1,000 A) V _{OUT} = M * dl/dt 100 mV (V _{OUT} = 2 * π * M * f * I (M = 0.318 μH; example: At 50 Hz; I = 1,000 A))
Contact switching type Minimum switching voltage Maximum switching voltage Min. switching current Max. switching current gnal Designation Output signal (at 50 Hz) Output voltage (in no-load operation) Output voltage (sinusoidal, in no-load operation) Accuracy class	1 N/O contact 1 V 30 V DC 100 μA 100 mA (at 30 V) Measuring coil 100 mV (no load, at 1,000 A) V _{OUT} = M * dl/dt 100 mV (V _{OUT} = 2 * π * M * f * I (M = 0.318 μH; example: At 50 Hz; I = 1,000 A)) 1

2 V ... 10 V (via DIP switch)



2906236

https://www.phoenixcontact.com/us/products/2906236

	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	≈ ` ∨
Current output signal	0 mA 20 mA (via DIP switch)
	4 mA 20 mA (via DIP switch)
	0 mA 10 mA (via DIP switch)
	2 mA 10 mA (via DIP switch)
	0 mA 21 mA (can be set via software)
Max. current output signal	24.6 mA
Load/output load voltage output	≥ 10 kΩ
Load/output load current output	≤ 600 Ω (20 mA)
Ripple	< 20 mV _{PP}
	< 20 mV _{PP}

Connection data

Measuring transducer side

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section rigid	0.2 mm ² 2.5 mm ²
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section AWG	26 12

Dimensions

Item dimensions

Width	6.2 mm
Height	110.5 mm
Depth	120.5 mm

Measuring coil

Length	600 mm
Diameter	8.3 mm ±0.2 mm

Measuring coil when installed

Diameter	190 mm
Signal line	
Length	3 m
Width	6.2 mm
Height	110.5 mm
Depth	120.5 mm

Material specifications

Coil material	Elastollan
Housing material	PC



2906236

https://www.phoenixcontact.com/us/products/2906236

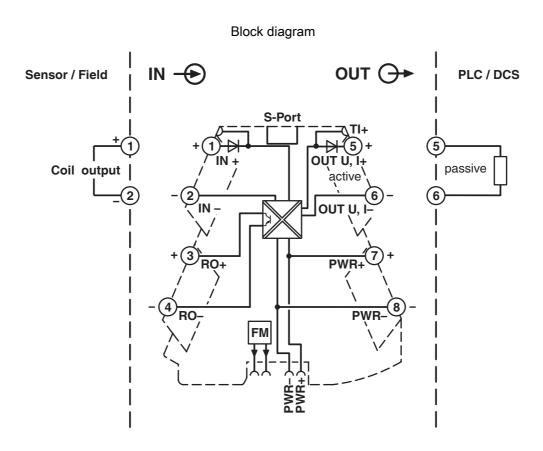
	РВТ
vironmental and real-life conditions	
Ambient conditions	
Measuring coil degree of protection	IP67 (not assessed by UL)
Measuring transducer degree of protection	IP20
Ambient temperature (operation)	-30 °C 80 °C (Measuring coil)
	-40 °C 70 °C (Measuring transducer)
Ambient temperature (storage/transport)	-40 °C 80 °C (Measuring coil)
	-40 °C 85 °C (Measuring transducer)
Altitude	< 2000 m
Permissible humidity (operation)	5 % 95 % (non-condensing)
pprovals	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
CE	
Certificate	CE-compliant
UKCA	
Certificate	UKCA-compliant
OMINA	
CMIM Certificate	CMIM-compliant
	Omini compilant
UL, USA/Canada	
Identification	UL 61010 Recognized
Note	Measuring coil
UL, USA/Canada	
Identification	UL 508 Listed
Note	Measuring transducer
MC data	
Noise immunity	EN 61000-6-2
Note	When being exposed to interference, there may be minimal deviations.
Electromagnetic compatibility	Conformance with EMC directive
Noise emission	EN 61000-6-4
andards and regulations	
Electrical isolation	Reinforced insulation in accordance with IEC 61010-1
Standards/regulations	IEC 61010-1
	IEC 61010-1
	.22 2 2 002
ounting	
Mounting type	DIN rail mounting



2906236

https://www.phoenixcontact.com/us/products/2906236

Drawings





2906236

https://www.phoenixcontact.com/us/products/2906236

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2906236



EAC

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



2906236

https://www.phoenixcontact.com/us/products/2906236

Classifications

UNSPSC 21.0

ECLASS

	ECLASS-11.0	27210902
	ECLASS-13.0	27210902
	ECLASS-12.0	27210902
ETIM		
	ETIM 8.0	EC002048
UN	ISPSC	

39121000

Aug 31, 2023, 10:44 AM Page 8 (10)



2906236

https://www.phoenixcontact.com/us/products/2906236

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"



2906236

https://www.phoenixcontact.com/us/products/2906236

Accessories

PACT RCP-CLAMP - Holder

2904895

https://www.phoenixcontact.com/us/products/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.

PACT RCP-CLAMP-5-10 - Holder

2907888

https://www.phoenixcontact.com/us/products/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.

Phoenix Contact 2023 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com