

1127055

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Multi-functional energy measuring device without display with 24 V DC supply, with direct Rogowski connection and integrated Modbus/TCP interface for measuring electrical parameters in low-voltage installations up to 690 V

Commercial data

Item number	1127055
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C446
Product key	CK4C21
GTIN	4063151055127
Weight per piece (including packing)	350 g
Weight per piece (excluding packing)	310 g
Customs tariff number	90303100
Country of origin	DE



1127055

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Technical data

Product properties

Product type	Energy measuring device
Product family	EMpro
Insulation characteristics	
Insulation characteristics Overvoltage category	III (300 V)

Electrical properties

Electrical isolation	IEC 61010-1 (Overvoltage category III at 300 V ACOvervoltage category II at 600 V AC)
	IEC 61010-1 (Measurement category III at 300 V ACMeasurement category II at 600 V AC)
Test voltage	4 kV AC (50 Hz, 1 min.)
Maximum power dissipation for nominal condition	10 VA
Mains type	3-phase (3 or 4-conductor), 2-phase (2-conductor), and single-phase (1-conductor)

Supply

Supply voltage	24 V DC ±25 %
Supply voltage range	18 V DC 30 V DC
Power consumption	< 4 W

Input data

General

Measuring principle	True r.m.s. value measurement
Measured value	AC sine (50/60 Hz)
Acquisition of harmonics	up to 63rd harmonic
Description of the input	Digital input in accordance with IEC/EN 61131-2 (type 3)
Number	1
Voltage input signal	24 V DC
	0 V DC 30 V DC
Current input signal	2 mA 15 mA
Protection	250 mA (fast-blow)

Measurement: Voltage

Input name	Voltage measuring input V1, V2, V3
Input voltage range direct	35 V AC 690 V AC (Phase/Phase)
	20 V AC 400 V AC (Phase/neutral conductor)
Input voltage range via external transformers	60 V AC 2000000 V AC (primary)
	60 V AC 400 V AC (secondary)
Surge voltage capacity	760 V AC (Phase/Phase)
Precision	0.2 %



1127055

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Power consumption	< 2 VA
Measurement: Current	
Input name	Current measurement RC1, RC2, RC3
Input current	4000 A
Input measuring range voltage	500 μV 400 mV (1000 A)
Response threshold from measuring range nominal value	5 A
Operate threshold	500 μV (5 A)
Precision	0.5 %
Measurement: Power	
Precision	1 %
Real energy (IEC 62053-21)	Class 1
Reactive power (IEC 62053-23)	Class 2

Output data

Output description	Digital output in accordance with IEC/EN 61131-2 (type 3)
Number	1
Current output signal	≤ 100 mA
Voltage output signal	24 V DC
Protection	250 mA (fast-blow)

Connection data

Current / voltage / supply

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm² 6 mm²
Conductor cross section flexible	0.2 mm² 4 mm²
Conductor cross section AWG	24 10
Tightening torque	0.5 Nm 0.6 Nm

Digital I/O / communication

Connection method	Screw connection
Stripping length	7 mm
Screw thread	M3
Conductor cross section rigid	0.14 mm² 2.5 mm²
Conductor cross section flexible	0.14 mm² 1.5 mm²
Conductor cross section AWG	26 14
Tightening torque	0.5 Nm 0.6 Nm

Interfaces

Data: Network interface

Communication protocol	Modbus/TCP
	REST



1127055

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Mounting position

Connection method	RJ45
mensions	
Width	90 mm
Height	80 mm
Depth	64 mm
nvironmental and real-life conditions Ambient conditions	
Degree of protection (Housing)	IP20 (Housing)
Ambient temperature (operation)	-10 °C 55 °C
Ambient temperature (storage/transport)	-40 °C 70 °C
Altitude	≤ 2000 m
Max. permissible relative humidity (operation)	≤ 95 % (non-condensing)
oprovals CE	
oprovals CE Certificate	≤ 95 % (non-condensing) CE-compliant
oprovals CE	
oprovals CE Certificate UKCA	CE-compliant
oprovals CE Certificate UKCA Certificate	CE-compliant
CE Certificate UKCA Certificate UL, USA/Canada	CE-compliant UKCA-compliant
CE Certificate UKCA Certificate UL, USA/Canada Identification	CE-compliant UKCA-compliant
CE Certificate UKCA Certificate UL, USA/Canada Identification UL data	CE-compliant UKCA-compliant UL/C-UL Listed UL 61010-1
CE Certificate UKCA Certificate UL, USA/Canada Identification UL data Operating mode	CE-compliant UKCA-compliant UL/C-UL Listed UL 61010-1
CE Certificate UKCA Certificate UL, USA/Canada Identification UL data Operating mode UL data	CE-compliant UKCA-compliant UL/C-UL Listed UL 61010-1 Indoor use

Horizontal DIN rail



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1127055



UL Listed

Approval ID: FILE E 357804



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27142330
ECLASS-13.0	27142330
ECLASS-12.0	27142330
ETIM	
ETIM 8.0	EC002301
UNSPSC	

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Aug 31, 2023, 2:50 PM Page 6 (11)



1127055

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Environmental product compliance

REACh SVHC Lead 7439-92-1



1127055

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Accessories

PACT RCP-D95 - Coil

2904890

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300 mm long Rogowski coil. The measuring coil diameter when installed is 95 mm. The Rogowski coil is used for AC current measurement for busbars and power lines



PACT RCP-D140 - Coil

2904891

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 $450~\rm{mm}$ long Rogowski coil. The measuring coil diameter when installed is 140 mm. The Rogowski coil is used for AC current measurement for busbars and power lines.





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PACT RCP-D190 - Coil

2904892

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600 mm long Rogowski coil. The measuring coil diameter when installed is 190 mm. The Rogowski coil is used for AC current measurement for busbars and power lines.



PACT RCP-CLAMP - Holder

2904895

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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.



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PACT RCP-D95-5M - Coil

2910322

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300 mm long Rogowski coil. The measuring coil diameter when installed is 95 mm. The Rogowski coil is used for AC current measurement for busbars and power lines.



PACT RCP-D95-10M - Coil

2910323

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300 mm long Rogowski coil. The measuring coil diameter when installed is 95 mm. The Rogowski coil is used for AC current measurement for busbars and power lines.





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PACT RCP-D190-10M - Coil

2910324

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600 mm long Rogowski coil. The measuring coil diameter when installed is 190 mm. The Rogowski coil is used for AC current measurement for busbars and power lines.



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