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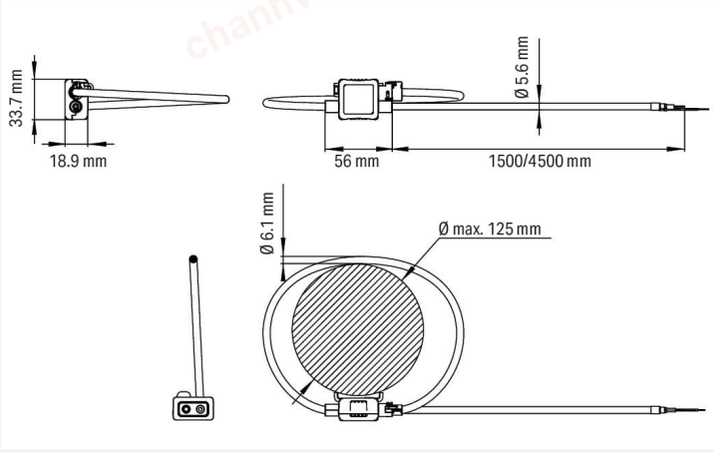
Data Sheet | Item Number: 855-9450/2000-1251

Rogowski coil; Primary rated current 1000 A; Output signal 22.5 mV per kA; Cable length 4.5 m; Feedthrough for measurement conductor 125 mm

https://www.wago.com/855-9450/2000-1251



Similar to illustration



Dimensions in mm

Kurzbeschreibung: Die Rogowski-Spulen werden zur Strommessung von AC-Strömen eingesetzt und eignen sich besonders für die nachträgliche Installation in Bestandsanlagen. Der teilbare Spulenkörper ermöglicht die nachträgliche Installation um den Primärleiter herum – wahlweise Stromschiene oder Rundleiter. Die Rogowski-Spulen eignen sich zum Anschluss an die WAGO Produkte (857-552; 750-495/000-002; 2857-570/024-000). Ein plombierbarer Bajonettverschluss und Befestigungslaschen für Kabelbinder ermöglichen eine leichte Installation.

Notes

Note	Rogowski technology allows the coils to measure a wide primary current range of up to 10,000 A without loss of accuracy, because there are no saturation effects. The requirements for standards EN 61869-1, EN 61869-2, EN 61869-6 and EN 61869-10 are only partially met, as there are fundamental differences with current transformers for a Rogowski coil.

Technical data

Input

Measurement range	10 A … 10000 A (up to 4000 A in combination with the recommended WAGO products)
Measured variable	Current

Input – current transformer

Rated short-time thermal current I_{th}	300 kA at 50 Hz
Mutual inductance M	72.14 nH
Rated frequency	50 … 60 Hz
Primary rated current	1000 A

Output – analog

Sensitivity	22.5 mV/kA at 50 Hz
Output signal (max.)	30 V

Signal processing

Limit frequency	276 kHz

Measurement error

Accuracy class	0.5
Translation errors (all positions)	0.75 %
Translation errors (note)	Assuming that a primary conductor with a minimum diameter of 15 mm is used that is routed perpendicular to and in contact with the coil.

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Safety and protection

Rated voltage	1000 VAC_{rms} (Cat. III); 600 VAC_{rms} (Cat. IV)
Impulse withstand voltage (1.2/50 µs)	12.8 kV
Protection type	IP57
Voltage for isolation test	AC 7.4 kV; 50 Hz; 1 min

Connection data

Feedthrough for measurement conductor	Ø 125 mm

Physical data

Cable length	4.5 m

Mechanical data

Mounting type	Split-core current transformer (suspended)

Material data

Fire load	0 MJ
Weight	130 g

Environmental requirements

Ambient temperature (operation)	-40 … +80 °C
Ambient temperature (storage)	-40 … +80 °C
Relative humidity	≤ 90% (without condensation)
Operating altitude (max.)	2000 m

Standards and specifications

Conformity marking	CE
Standards/specifications	EN 61010-1 EN 61010-2-32 EN 61869-1 EN 61869-2 EN 61869-6 EN 61869-10 UL 61010-1

Commercial data

eCl@ss 10.0	27-21-09-02
eCl@ss 9.0	27-21-09-02
ETIM 8.0	EC002048
ETIM 7.0	EC002048
PU (SPU)	1 pcs
Packaging type	Bag
Country of origin	BG
Customs tariff number	90303370000

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Data Sheet | Item Number: 855-9450/2000-1251

https://www.wago.com/855-9450/2000-1251

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals

Approval	Standard	Certificate Name
EAC Brjansker Zertifizierungs-stelle	TP TC 004/2011,TP TC 020/2011	EAC RU C-DE.AM02.B.00111/19
UL Underwriters Laboratories Inc.	UL 61010-2-032	E499682

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Confor-mity WAGO GmbH & Co. KG	-	-

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 855-9450/2000-1251

Documentation

Bid Text

855-9450/2000-1251	19.02.2019	docx 18.04 KB

Instruction Leaflet

Rogowski-Spulen RC70 / RC125 / RC175	V 1.1.0	pdf 1698.78 KB

1 Compatible Products

1.1 Optional Accessories

1.1.1 Signal conditioner

1.1.1.1 Current signal conditioner



Item No.: 857-552

Current signal conditioner; Input for Ro-gowski coils; Current and voltage output signal; Digital output; Configuration via software; Supply voltage: 24 VDC; 6 mm module width; 2,50 mm²

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1.1.1.2 Power measurement module



Item No.: 2857-570/024-000
3-Phase Power Measurement Module; 3x277/480 V/RC; Modbus RTU; Digital output; Configuration via software; Supply voltage: 24 VDC

Installation Notes

Installation



Bayonet connector:
Robust and durable



Screw-mount clips:
Quick and easy mounting with cable ties



Lock-out seal:
Greater security via sealable bayonet lock