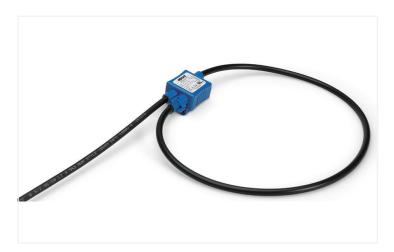
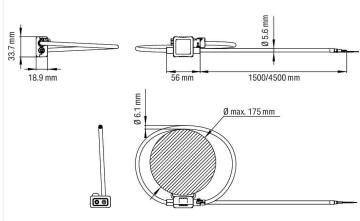
Rogowski coil; Primary rated current 1000 A; Output signal 22.5 mV per kA; Cable

length 4.5 m; Feedthrough for measurement conductor 175 mm

https://www.wago.com/855-9450/2000-1751







Dimensions in mm

Short description: WAGO's Rogowski coils are used to measure AC currents and are particularly well suited for retrofitting in existing systems. The split coil bobbin allows for subsequent installation around the primary conductor - be it current bars or round conductors. These Rogowski coils can be connected to WAGO's 857-552, 750-495/000-002 and 2857-570/024-000 modules. A sealable bayonet catch and mounting brackets for cable ties make for easy 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.

iecnnicai data	
Input	
Measurement range	10 A 10000 A (up to 4000 A in combination with the recommended WAGO products)

Input Current Transformers	
Primary rated current	1000 A
Rated short-time thermal current \mathbf{I}_{th}	300 kA at 50 Hz
Rated frequency	50 60 Hz
Mutual inductance M	72.31 nH

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

Signal Processing	
Limit frequency	177 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.

https://www.wago.com/855-9450/2000-1751



Safety and protection

Rated voltage $1000~\text{VAC}_{\text{rms}}~\text{(Cat. III); 600 VAC}_{\text{rms}}~\text{(Cat. IV)}$ Impulse withstand voltage (1.2/50 μ s) 12.8~kV

IP57

Test voltage

Voltage for isolation test AC 7.4 kV; 50 Hz; 1 min

Connection data

Protection type

Feedthrough for measurement conductor Ø 175 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 at U_N) -40 ... +80 °C Surrounding air 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 27-21-09-02 eCl@ss 9.0 ETIM 8.0 EC002048 ETIM 7.0 EC002048 PU (SPU) 1 pcs Bag Packaging type Country of origin BG **GTIN** 4055143419222 90303370000 Customs tariff number

https://www.wago.com/855-9450/2000-1751



Approvals / Certificates

General approvals



EAC Brjansker ZertifizierungsTP TC 004/2011,TP TC 020/2011

UL 61010-2-032

Standard

Certificate Name EAC RU C-DE.AM02.

B.00111/19

E499682

Underwriters Laboratories

UL Unde Inc.

stelle

Approval

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 855-9450/2000-1751

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Documentation

Bid Text			
855-9450/2000-1751	24.01.2019	docx 18.07 KB	$\underline{\downarrow}$
855-9450/2000-1751	24.01.2019	xml 6.04 KB	$\underline{\downarrow}$

Instruction Leaflet

Rogowski-Spulen V 1.1.0 pdf RC70 / RC125 / RC175 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 Rogowski coils; Current and voltage output signal; Digital output; Configuration via software; Supply voltage: 24 VDC; 6 mm module width; 2,50 mm²

https://www.wago.com/855-9450/2000-1751



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

Subject to changes. Please also observe the further product documentation!

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