



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.

Technical data			
Input		Input Current Transformers	
Measurement range	10 A ... 10000 A (up to 4000 A in combination with the recommended WAGO products)	Primary rated current	1000 A
		Rated short-time thermal current I <sub>th</sub>	300 kA at 50 Hz
		Rated frequency	50 ... 60 Hz
		Mutual inductance M	72.31 nH
Output – analog		Signal Processing	
Sensitivity	22.5 mV/kA at 50 Hz	Limit frequency	177 kHz
Output signal (max.)	30 V		
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.		

## Safety and protection

Rated voltage	1000 VAC <sub>rms</sub> (Cat. III); 600 VAC <sub>rms</sub> (Cat. IV)
Impulse withstand voltage (1.2/50 µs)	12.8 kV
Protection type	IP57

## Test voltage

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

Feedthrough for measurement conductor	Ø 175 mm
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## Physical data

Cable length	4.5 m
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## Mechanical Data

Mounting type	Split-core current transformer (suspended)
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## Material Data

Fire load	0 MJ
Weight	130 g

## Environmental requirements

Ambient temperature (operation at U <sub>N</sub> )	-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
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
GTIN	4055143419222
Customs tariff number	90303370000



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

Downloads

Environmental Product Compliance

Compliance Search

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855-9450/2000-1751



Documentation

Bid Text

855-9450/2000-1751	24.01.2019	docx 18.07 KB	
855-9450/2000-1751	24.01.2019	xml 6.04 KB	

Instruction Leaflet

Rogowski-Spulen RC70 / RC125 / RC175	V 1.1.0	pdf 1698.78 KB	
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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 mm<sup>2</sup>

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 out-  
put; 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