Data sheet | Item number: 855-9150/2000-1751

Rogowski coil; Primary rated current 4000 A; Output signal 22.5 mV per kA; Cable length: 1.5 m; Feedthrough for measurement conductor 175 mm

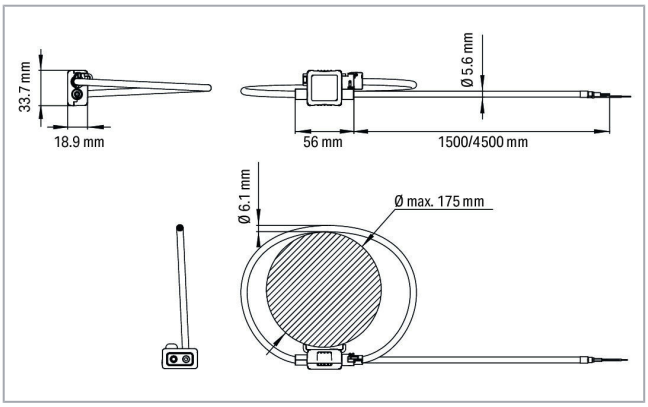
www.wago.com/855-9150/2000-1751



Picture differs from the item.

RoHS ✓ Compliant

BOMcheck.net



Item description

Short description:

These Rogowski coils are closed-air coils featuring a non-magnetic split core that can be connected to WAGO products (857-552; 750-495/000-002; 2857-570/024-000).

Easy mounting of the Rogowski coils allows existing systems to be retrofitted without time-consuming installation or process interruption.
Features:

- Rated insulation voltage: 1000 V Cat. III/600 V Cat. IV
- Accuracy class: 0.5 (per EN 61869-2)
- Protection type: IP67
- Measurement coil diameter: 70, 125 or 175 mm
- Length of signal lines: 1.5 m or 4.5 m
- Surrounding air temperature: −40 … +80°C
- Sealable bayonet connector
- Anchor points for cable ties

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

WAGO Kontakttechnik GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.

Note:

The specifications for the primary rated current refer to a combination with the WAGO Modules (857-552 and 750-495/000-002).

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.

Data
Technical data

Input – current transformer

Primary rated current	4000 A (in combination with WAGO products)
Rated short-time thermal current 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	350 kHz

Measurement error

Accuracy class	0.5
Positioning error	±0.75 %

Safety and protection

Rated insulation voltage	1000 VAC_{rms} (Cat. III); 600 VAC_{rms} (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

WAGO Kontakttechnik GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.

Connection data

Feedthrough for measurement conductor	Ø 175 mm

Physical data

Cable length	1.5 m

Mechanical data

Mounting type	Split-core current transformer (suspended)

Material data

Weight	130 g

Environmental requirements

Surrounding air temperature (operation)	-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

Packaging type	bag
Country of origin	BG
GTIN	4055143419192
Customs tariff number	90303370000

Approvals / Certificates

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 61010-2-032	E499682

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

WAGO Kontakttechnik GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.

Compatible products

General accessories

	**Item no.: 2857-570/024-000** 3-Phase Power Measurement Module; 3x400/690 V/RC; Modbus RTU; Digital output; Configuration via software; Supply voltage: 24 VDC	www.wago.com/2857-570/024-000
	**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	www.wago.com/857-552

Downloads

Documentation

Bid Text

855-9150/2000-1751 X81 - Datei	24. 1. 2019	xml 6.2 kB	Download
855-9150/2000-1751 docx - Datei	24. 1. 2019	docx 18.5 kB	Download

Instruction Leaflet

Rogowski-Spulen RC70 / RC125 / RC175	V 1.1.0	pdf 1.7 MB	Download

Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 855-9150/2000-1751 Rogowski coil; Primary rated current 4000 A; Output signal 22.5 mV per kA; Cable length: 1.5 m; Feedthrough for measurement conductor 175 mm	URL	Download

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

WAGO Kontakttechnik GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.

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!

WAGO Kontakttechnik GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.