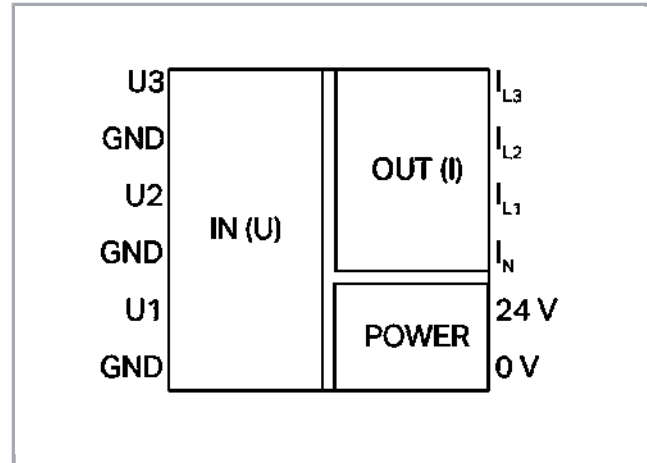


Data sheet | Item number: 789-652

Current signal conditioner; Input for Rogowski coils; 2,50 mm2

www.wago.com/789-652



Item description

Short description:

The Rogowski Current Signal Conditioner acquires 5–500A alternating currents in a three-phase system. The magnetic field generated around each conductor is detected via three non-contact Rogowski coils and provided as a proportional voltage signal to the transducer. The current signal conditioner adjusts the phase of each of the three voltage signals, converting them into 100mA alternating current signals. These are then transmitted to the 750-494 3-Phase Power Measurement Module. The 750-494 3-Phase Power Measurement Module within the WAGO-I/O-SYSTEM measures electrical data (e.g., voltages, currents, effective power and energy consumption) in a three-phase supply network. Thus, the user is always able to determine the load condition (imbalance, reactive components), to optimize consumption and protect machines or systems from damage and breakdowns. Easy installation of Rogowski coils also allows existing systems to be retrofitted without process interruption.

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.



Data

Technical Data

Input

Input signal type	Voltage
Input signal voltage	50 Hz sinusoidal signals: 3 x AC 10.05 mV (3 x RT 500)
Measurement range, current	3 x AC 500 A

Output – Analog

Output signal current	3 x 0 ... 100 mA (for direct connection to 750-494 3-Phase Power Measurement Module)
Load impedance (output/current)	$\leq 5 \Omega$

Signal processing

Max. operating frequency	300 Hz (phase accuracy at 50 Hz only)
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Power supply

Nominal supply voltage U_S	DC 24 V
Supply voltage range	$\pm 30 \%$

Safety and protection:

Test voltage (input/output/supply)	AC 2.5 kV; 50 Hz; 1 min
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Connection data

Solid conductor	0.08 ... 2.5 mm ² / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm ² / 28 ... 12 AWG
Strip length	5 ... 6 mm / 0.2 ... 0.24 inch

Geometrical Data

Width	70 mm / 2.756 inch
Height from upper-edge of DIN-35 rail	55 mm / 2.165 inch
Depth	90 mm / 3.543 inch

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

Environmental Requirements


Surrounding air (operating) temperature	-25 ... 70 °C
Surrounding air (storage) temperature	-40 ... 85 °C

Commercial data

Product Group	6 (Interface Electronics)
Packaging type	BOX
Country of origin	DE
Customs Tariff No.	85437090300

Approvals / Certificates


UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL UL International Netherlands B.V. (ORDINARY LOCATIONS)	UL 508	E175199 Sec.4


Counterpart


Compatible products

tools

	Item no.: 210-720 Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft	www.wago.com/210-720
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current transformer

	Item no.: 855-9100/500-000 Rogowski coil; Primary rated current: 500 A; Output signal: 10.05 mV; Cable length: 1.5 m	www.wago.com/855-9100/500-000
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	Item no.: 855-9300/500-000 Rogowski coil; Primary rated current: 500 A; Output signal: 10.05 mV; Cable length: 3 m	www.wago.com/855-9300/500-000
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Subject to changes. Please also observe the further product documentation!



Downloads

Documentation

Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download
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CAD/CAE-Data

CAE data

EPLAN Data Portal 789-652	URL	Download
WSCAD Universe 789-652	URL	Download

Installation Notes

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