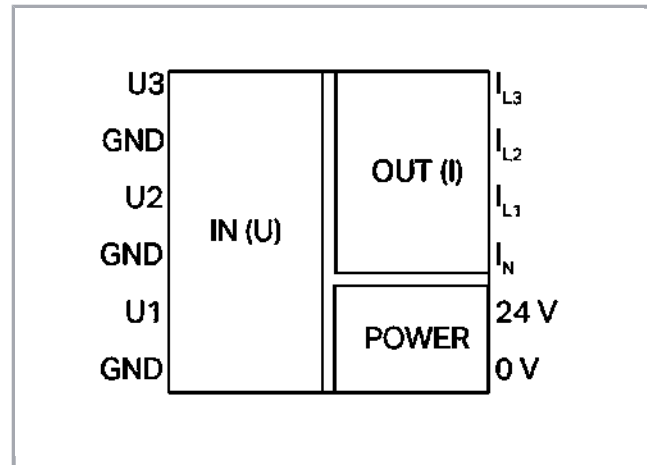


Data sheet | Item number: 789-654

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

www.wago.com/789-654



Item description

Short description:

The Rogowski Current Signal Conditioner acquires 5–2000A 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.

Data

Technical Data

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.



Input

Input signal type	Voltage
Input signal voltage	50 Hz sinusoidal signals: 3 x AC 40.2 mV (3 x RT 2000)
Measurement range, current	3 x AC 2,000 A
Response threshold	2 A

Output – Analog

Output signal type	Current
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)
--------------------------	---------------------------------------

Measurement error

Transmission error typ.	$\leq 1.1 \%$
Temperature coefficient	$\leq 0.1 \%/K$

Power supply

Type of power supply	24 VDC
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
Protection class	IP20

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

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



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

Mechanical data

Type of mounting	DIN-35 rail
------------------	-------------

Material Data

Weight	132.5 g
--------	---------

Environmental Requirements

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

Standards and specifications


Conformity marking	CE
--------------------	----

Commercial data

Product Group	6 (Interface Electronics)
Packaging type	BOX
Country of origin	DE
GTIN	4050821750130
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

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.

Counterpart

Compatible products

current transformer



Item no.: 855-9100/2000-000

Rogowski coil; Primary rated current: 2000 A; Output signal: 40.2 mV; Cable length: 1.5 m

www.wago.com/855-9100/2000-000



Item no.: 855-9300/2000-000

Rogowski coil; Primary rated current: 2000 A; Output signal: 40.2 mV; Cable length: 3 m

www.wago.com/855-9300/2000-000

tools



Item no.: 210-720

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft

www.wago.com/210-720

Downloads

Documentation

Additional Information

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

CAD/CAE-Data

CAE data

WSCAD Universe 789-654	URL	Download
------------------------	-----	----------

Installation Notes

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.