

Data sheet | Item number: 879-3040 **ANNOUNCED**
Energy Meter; Transformer Connection (6 A); 3 x 230/400 V; 50 Hz; MID;
Modbus - M-Bus; 2 x interface; 2 DU



www.wago.com/879-3040



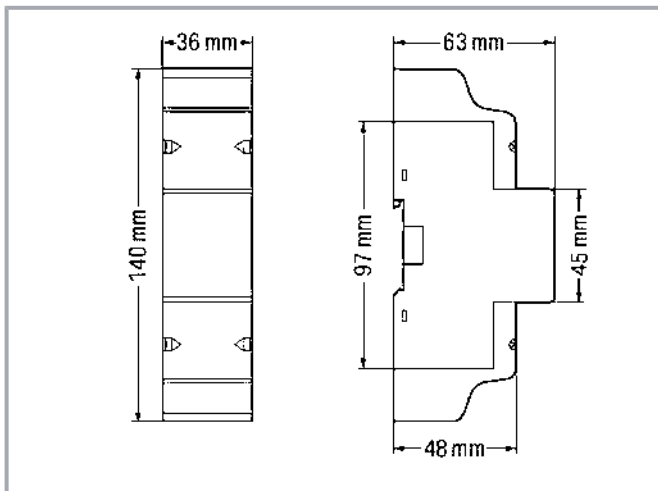
11	Tariff 230 V~	9	+(M-bus)	CT3 OUT
10	Tariff 230 V~	8	B/- (RS485)	CT3 IN
	N	7	A (RS485)	CT2 OUT
	U3	6	S02	CT2 IN
	U2	5	GND	CT1 OUT
	U1	4	S01	CT1 IN

BOMcheck.net

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

WAGO Corporation
Germantown, WI 53022
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222
Email: info.us@wago.com | Web: www.wago.us

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Attention: Product details may be subject to change

Item description

Short description:

Comprehensive energy measurement is necessary for optimizing energy consumption. WAGO now has new energy meters in its portfolio that simplify this task while providing several key advantages. They use the push-in connection technology with a lever, making them connect quickly and easily. Versions for current transformers are even slimmer at only 35 mm. These widths save a tremendous amount of control cabinet space. In addition to the values for active and reactive energy, the energy meters also record the mains frequency as well as current, voltage and power for all phases. And the user can conveniently see all of these energy characteristics at a glance on a large, illuminated display.

Features:

- Saving time at every level thanks to the Push-in CAGE CLAMP® and lever
- Real space savings: 35 mm wide (2PCT)
- Measurement of delivery and purchase
- Energy recording via 4 rates
- The communications pro: M-Bus and Modbus® interface and 2 S0 pulse outputs
- Full transparency at a glance: Display energy quality characteristics on an illuminated full-format display
- Intuitive configuration: Touch-sensitive controls and configuration app via *Bluetooth*®

Data

Technical data

Configuration

Configuration options

Touch-sensitive controls

Configuration app via *Bluetooth*®

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Input

Input signal type	Voltage Current
Network configuration	Two-wire, three-wire and four-wire networks
Nominal input voltage [V]	3 x (3) x AC 230 ... 400 V
Input voltage range	±20 %
Reference current I_{ref}	1 A
Input current I_i	≤ 6 A
Current transformer (secondary)	1 A 5 A
Min. current transformer ratio	1
Max. current transformer ratio	9,999
Frequency range	45 ... 65 Hz

Communication

Communication	Modbus® M-Bus Bluetooth®
Interface	RS-485 (2-wire); 2x S0 interfaces (configurable)
Rate control input	AC/DC 230 V
Indicators	LCD with backlight

Signal processing

Measured variables (calculated)	Active and reactive energy in supply and reference direction
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Measurement error

Accuracy class	Class B (= 1 % error); Active energy per EN 50470-3
Calibration validity period	8 years

Supply

Power supply type	Via measurement circuit
Power consumption P_{max} (phase; effective power)	2 W
Power consumption P_{max} (phase; apparent power)	10 VA

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Safety and protection

Dielectric strength	4 kV; 1 min
Impulse withstand voltage (1.2/50 µs)	6 kV
Pollution degree	2
Protection type	IP51 (front side); IP20 (connection)
Protection class	II

Connection data

Connection type (1)	Voltage/current
Connection technology	Push-in CAGE CLAMP®
WAGO Connector	WAGO 2604 Series
Actuation type	Lever
Solid conductor	0.2 ... 4 mm² / 24 ... 12 AWG
Fine-stranded conductor	0.2 ... 4 mm² / 24 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 2.5 mm²
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm²
Strip length	9 ... 11 mm / 0.35 ... 0.43 inch
Connection type 2	Communication/rate control input
Connection technology 2	Push-in CAGE CLAMP®
WAGO Connector 2	WAGO 2604 Series
Actuation type 2	Lever
Solid conductor 2	0.2 ... 4 mm² / 24 ... 12 AWG
Fine-stranded conductor 2	0.2 ... 4 mm² / 24 ... 12 AWG
Fine-stranded conductor; with insulated ferrule 2	0.25 ... 2.5 mm² /
Fine-stranded conductor; with uninsulated ferrule 2	0.25 ... 2.5 mm² /
Strip length 2	9 ... 11 mm / 0.35 ... 0.43 inch

Physical data

Width	36 mm / 1.417 inch
Height	140 mm / 5.512 inch
Depth	63 mm / 2.48 inch
Note (dimensions)	Height without cover: 98.2 mm

Mechanical data

Mounting type	DIN-35 rail
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Material data

Housing material	PC 940A
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Environmental requirements









Surrounding air temperature (operation)	-40 ... 70 °C
Relative humidity	75% (during storage 95 %)

Standards and specifications

Conformity marking	CE
Standards/Specifications	EN 50470-1/3; MID-compliant

Compatible products

current transformer









	Item no.: 855-305/100-209 Plug-in current transformer; Primary rated current: 100 A; Secondary rated current: 5 A; Rated power: 2.5 VA; Accuracy class: 0.5; for billing purposes	www.wago.com/855-305/100-209
	Item no.: 855-305/150-209 Plug-in current transformer; Primary rated current: 150 A; Secondary rated current: 5 A; Rated power: 2.5 VA; Accuracy class: 0.5; for billing purposes	www.wago.com/855-305/150-209
	Item no.: 855-305/200-509 Plug-in current transformer; Primary rated current: 200 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes	www.wago.com/855-305/200-509
	Item no.: 855-305/250-509 Plug-in current transformer; Primary rated current: 250 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes	www.wago.com/855-305/250-509
	Item no.: 855-305/300-509 Plug-in current transformer; Primary rated current 300 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes	www.wago.com/855-305/300-509
	Item no.: 855-305/400-509 Plug-in current transformer; Primary rated current: 400 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes	www.wago.com/855-305/400-509
	Item no.: 855-305/500-509 Plug-in current transformer; Primary rated current: 500 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes	www.wago.com/855-305/500-509
	Item no.: 855-305/600-509 Plug-in current transformer; Primary rated current: 600 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes	www.wago.com/855-305/600-509

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	Item no.: 855-305/750-509 Plug-in current transformer; Primary rated current 750 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes	www.wago.com/855-305/750-509
	Item no.: 855-405/200-209 Plug-in current transformer; Primary rated current: 200 A; Secondary rated current: 5 A; Rated power: 2.5 VA; Accuracy class: 0.5; for billing purposes	www.wago.com/855-405/200-209
	Item no.: 855-405/250-209 Plug-in current transformer; Primary rated current: 250 A; Secondary rated current: 5 A; Rated power: 2.5 VA; Accuracy class: 0.5; for billing purposes	www.wago.com/855-405/250-209
	Item no.: 855-405/300-509 Plug-in current transformer; Primary rated current 300 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes	www.wago.com/855-405/300-509
	Item no.: 855-405/400-509 Plug-in current transformer; Primary rated current: 400 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes	www.wago.com/855-405/400-509
	Item no.: 855-405/500-509 Plug-in current transformer; Primary rated current: 500 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes	www.wago.com/855-405/500-509
	Item no.: 855-405/600-509 Plug-in current transformer; Primary rated current: 600 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes	www.wago.com/855-405/600-509
	Item no.: 855-405/750-509 Plug-in current transformer; Primary rated current 750 A; Secondary rated current: 5 A; Rated power: 5 VA; Accuracy class: 0.5; for billing purposes	www.wago.com/855-405/750-509

Downloads

Documentation

Instruction Leaflet

Energy consumption meter	V 1.12 2021 Mar 2	pdf 915.0 kB	Download
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Installation Notes

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