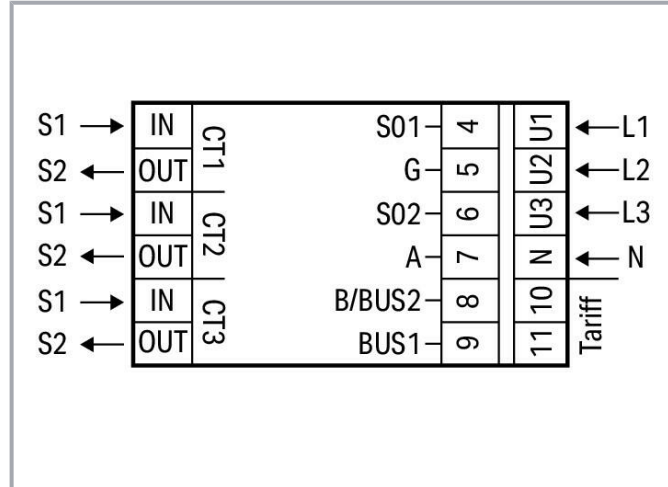


Data sheet | Item number: 879-3040 **ANNOUNCED**

Energy consumption meter; for transformer connection; 6 A; 3x230/400V;  
50Hz; MID; Modbus® & M-Bus; 2 x S0 interface; 2CT



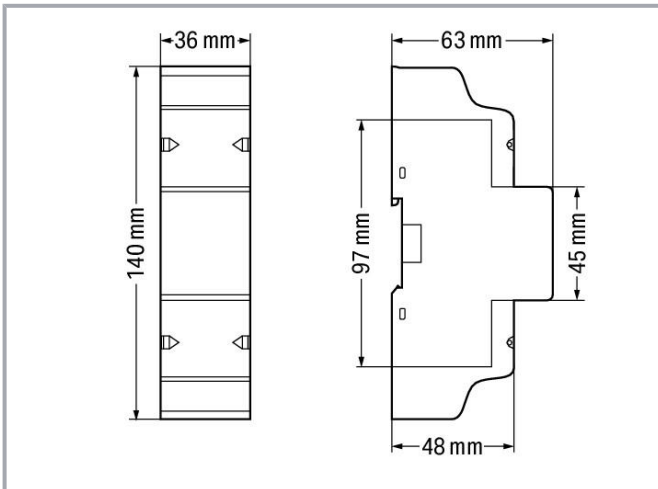
[www.wago.com/879-3040](http://www.wago.com/879-3040)



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

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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 SO 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*®

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



## Input

Input signal type	Voltage Current
Network configuration	Two-wire, three-wire and four-wire networks
Nominal input voltage $U_{i\text{nom}}$	3 x (3) x AC 230 ... 400 V
Input voltage range	±20 %
Reference current $I_{\text{ref}}$	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 <sup>®</sup> M-Bus Bluetooth <sup>®</sup>
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
Messungsart (Lastgang)	No

## 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 $P_{\text{max}}$ (phase; effective power)	2 W
Power consumption $P_{\text{max}}$ (phase; apparent power)	10 VA

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



## 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 mm <sup>2</sup> / 24 ... 12 AWG
Fine-stranded conductor	0.2 ... 4 mm <sup>2</sup> / 24 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 2.5 mm <sup>2</sup>
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm <sup>2</sup>
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 857 Series
Actuation type 2	Lever
Solid conductor 2	0.2 ... 4 mm <sup>2</sup> / 24 ... 12 AWG
Fine-stranded conductor 2	0.2 ... 4 mm <sup>2</sup> / 24 ... 12 AWG
Fine-stranded conductor; with insulated ferrule 2	0.25 ... 2.5 mm <sup>2</sup> /
Fine-stranded conductor; with uninsulated ferrule 2	0.25 ... 2.5 mm <sup>2</sup> /
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
Weight	165 g

## 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

## Commercial data

PU (SPU)	1 Stück
Packaging type	box
Country of origin	CN
GTIN	4055144124675
Customs tariff number	90283019000

## Optional accessories

### Current transformers

	<b>Item no.: 855-305/100-209</b> 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	<a href="http://www.wago.com/855-305/100-209">www.wago.com/855-305/100-209</a>
	<b>Item no.: 855-305/150-209</b> 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	<a href="http://www.wago.com/855-305/150-209">www.wago.com/855-305/150-209</a>
	<b>Item no.: 855-305/200-509</b> 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	<a href="http://www.wago.com/855-305/200-509">www.wago.com/855-305/200-509</a>
	<b>Item no.: 855-305/250-509</b> 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	<a href="http://www.wago.com/855-305/250-509">www.wago.com/855-305/250-509</a>
	<b>Item no.: 855-305/300-509</b> 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	<a href="http://www.wago.com/855-305/300-509">www.wago.com/855-305/300-509</a>

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	<b>Item no.: 855-305/400-509</b> 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	<a href="http://www.wago.com/855-305/400-509">www.wago.com/855-305/400-509</a>
	<b>Item no.: 855-305/500-509</b> 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	<a href="http://www.wago.com/855-305/500-509">www.wago.com/855-305/500-509</a>
	<b>Item no.: 855-305/600-509</b> 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	<a href="http://www.wago.com/855-305/600-509">www.wago.com/855-305/600-509</a>
	<b>Item no.: 855-305/750-509</b> 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	<a href="http://www.wago.com/855-305/750-509">www.wago.com/855-305/750-509</a>
	<b>Item no.: 855-405/200-209</b> 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	<a href="http://www.wago.com/855-405/200-209">www.wago.com/855-405/200-209</a>
	<b>Item no.: 855-405/250-209</b> 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	<a href="http://www.wago.com/855-405/250-209">www.wago.com/855-405/250-209</a>
	<b>Item no.: 855-405/300-509</b> 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	<a href="http://www.wago.com/855-405/300-509">www.wago.com/855-405/300-509</a>
	<b>Item no.: 855-405/400-509</b> 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	<a href="http://www.wago.com/855-405/400-509">www.wago.com/855-405/400-509</a>
	<b>Item no.: 855-405/500-509</b> 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	<a href="http://www.wago.com/855-405/500-509">www.wago.com/855-405/500-509</a>
	<b>Item no.: 855-405/600-509</b> 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	<a href="http://www.wago.com/855-405/600-509">www.wago.com/855-405/600-509</a>
	<b>Item no.: 855-405/750-509</b> 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	<a href="http://www.wago.com/855-405/750-509">www.wago.com/855-405/750-509</a>

## Downloads

### Documentation

#### Instruction Leaflet

Energy consumption meter	V 1.12 2 Mar 2021	pdf 915.0 kB	Download
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## CAD/CAE-Data

### CAD data

2D/3D Models 879-3040	URL	Download
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### CAE data

ZUKEN Portal 879-3040	URL	Download
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## Installation Notes

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