

Data sheet | Item number: 879-3020

Energy consumption meter; for direct connection; 65A; 3x230/400V; 50Hz;
MID; Modbus® & M-Bus; 2 x S0 interface; 4PS



www.wago.com/879-3020

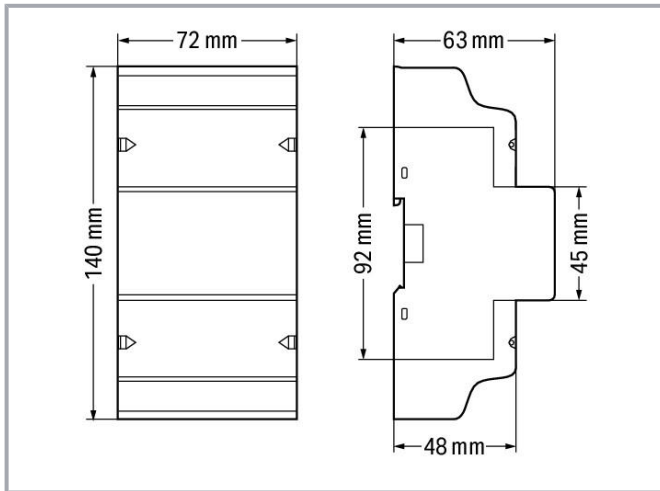


9 + (M-bus)		11 Tariff 230 V~
8 B/- (RS485)		
7 A (RS485)		
6 S02		10 Tariff 230 V~
5 GND		
4 S01		N
L3 OUT		L3 IN
L2 OUT		L2 IN
L1 OUT		L1 IN

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

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Do you have any questions about our products?
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Conductor cross-section	Primary rated current	Ambient operating temperature		
		40 °C	55 °C	70 °C
4 mm ² (Fine-stranded conductor)	15 A			X
	25 A		X	
	30 A	X		
4 mm ² (Fine-stranded conductor; with insulated ferrule)	17 A			X
	27 A		X	
	32 A	X		
6 mm ² (Fine-stranded conductor)	25 A			X
	37 A		X	
	41 A	X		
6 mm ² (Fine-stranded conductor; with insulated ferrule)	27 A			X
	39 A		X	
	41 A	X		
10 mm ² (Fine-stranded conductor)	30 A			X
	40 A		X	
	55 A	X		
10 mm ² (Fine-stranded conductor; with insulated ferrule)	30 A			X
	45 A		X	
	55 A	X		
16 mm ² (Fine-stranded conductor)	35 A			X
	50 A		X	
	65 A	X		
16 mm ² (Fine-stranded conductor; with insulated ferrule)	35 A			X
	55 A		X	
	65 A	X		
25 mm ² (Fine-stranded conductor)	65 A			X
	45 A		X	

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. The devices have a width of just 72 mm for direct measurement. 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: 72 mm wide (4PS)
- 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*[®]

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



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 $U_{i\text{nom}}$	3 x (3) x AC 230 ... 400 V
Input voltage range	±20 %
Reference current I_{ref}	5 A
Input current I_i	≤ 65 A
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
Messungsart (Lastgang)	No

Measurement error

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

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

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

Safety and protection

Dielectric strength	4 kV; 1 min
Impulse withstand voltage (1.2/50 μ s)	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 2616 Series
Actuation type	Lever
Solid conductor	0.75 ... 16 mm ² / 18 ... 4 AWG
Fine-stranded conductor	0.75 ... 25 mm ² / 18 ... 4 AWG
Fine-stranded conductor; with insulated ferrule	0.75 ... 16 mm ²
Fine-stranded conductor; with uninsulated ferrule	0.75 ... 16 mm ²
Strip length	18 ... 20 mm / 0.71 ... 0.79 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 mm ² / 24 ... 12 AWG
Fine-stranded conductor 2	0.2 ... 4 mm ² / 24 ... 12 AWG
Fine-stranded conductor; with insulated ferrule 2	0.25 ... 2.5 mm ² /
Fine-stranded conductor; with uninsulated ferrule 2	0.25 ... 2.5 mm ² /
Strip length 2	9 ... 11 mm / 0.35 ... 0.43 inch

Physical data

Width	72 mm / 2.835 inch
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Subject to changes. Please also observe the further product documentation!



Height	140 mm / 5.512 inch
Depth	63 mm / 2.48 inch
Note (dimensions)	Height without cover: 92 mm

Mechanical data

Mounting type	DIN-35 rail
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Material data

Housing material	PC 940A
Weight	280 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

Packaging type	BOX
Country of origin	CN
GTIN	4055144071399
Customs tariff number	90283019000

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