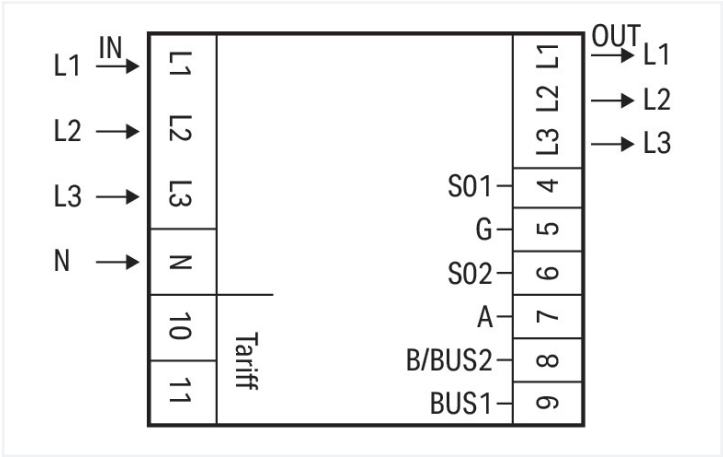


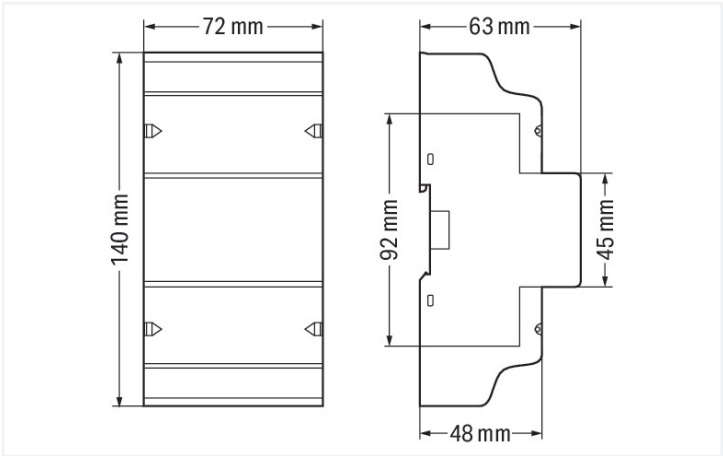
Data Sheet | Item Number: 879-3020

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

<https://www.wago.com/879-3020>



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





Short description:

Crucial for trimming costs, comprehensive energy measurement is necessary to optimize energy consumption. WAGO's portfolio now has new energy meters that simplify this task while offering several key advantages. They use 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 slim profiles 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 scan all of these energy characteristics at a glance on a large, illuminated display.

Features:

- Push-in CAGE CLAMP® and lever save time at every stage
- Real space savings: 72 mm wide (4PS)
- Measurement of supply and purchase
- Energy measurement in four tariffs
- The communications pro: M-Bus/Modbus® interface and two 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*®

Technical data			
Configuration		Input	
Configuration options	Touch-sensitive controls Configuration app via <i>Bluetooth</i> ®	Input signal type	Voltage Current
		Network configuration	Two-wire, three-wire and four-wire networks
		Nominal input voltage $U_{i\,nom}$	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 ... 60 Hz
Communication		Signaling and communication	
Communication	Modbus® <i>Bluetooth</i> ® M-Bus	Communication	<i>Bluetooth</i> ® M-Bus Modbus®
Interface	RS-485 (2-wire); 2x S0 interfaces (configurable)	Configuration options	Configuration app via <i>Bluetooth</i> ® Touch-sensitive controls
Rate control input	230 VAC		
Indicators	LCD with backlight		
Signal processing		Measurement error	
Measured variables (calculated)	Active and reactive energy in supply and reference direction	Accuracy class	Class B (= 1 % error); Active energy per EN 50470-3
Measurement type (load profile)	No	Calibration validity period	8 years
Supply			
Power supply type	Via measurement circuit		
Power consumption P_{max} (phase; active 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 µs)	6 kV
Pollution degree	2
Protection type	IP51 / IP20; 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 mm² / 18 ... 4 AWG
Fine-stranded conductor	0.75 ... 25 mm² / 18 ... 4 AWG
Fine-stranded conductor; with insulated ferrule	0.75 ... 16 mm²
Fine-stranded conductor; with uninsulated ferrule	0.75 ... 16 mm²
Strip length	18 ... 20 mm / 0.71 ... 0.79 inches
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 inches

Physical data

Width	72 mm / 2.835 inches
Height	140 mm / 5.512 inches
Depth	63 mm / 2.48 inches
Note (dimensions)	Height without cover: 92 mm

Mechanical data

Mounting type	DIN-35 rail
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Material data

Housing material	PC 940A
Fire load	0 MJ
Weight	280 g

Environmental requirements

Ambient 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	
ETIM 8.0	EC002048
ETIM 7.0	EC002048
PU (SPU)	1 pcs
Country of origin	CN
GTIN	4066966125412
Customs tariff number	90283019000

Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 879-3020	↓

Documentation			
Manual		Bid Text	
Product Manual WAGO Energy Meters (MID)	V 1.6 26.09.2022	pdf 3668.98 KB	↓
		879-3020	xml 6.69 KB ↓
		879-3020	docx 29.22 KB ↓
		ausschreiben.de 879-3020	↓

Instruction Leaflet			
Energy consumption meter	V 1.15 16.02.2022	pdf 934.38 KB	↓

Application Notes			
Application Note e!COCKPIT			
e!COCKPIT Application Note WagoAppPower-Measurement	2021-11-08 06.12.2021	pdf 930.71 KB	↓

CAD/CAE-Data



CAD data		
2D/3D Models	879-3020	

CAE data		
EPLAN Data Portal	879-3020	
ZUKEN Portal	879-3020	

Libraries				
e!COCKPIT libraries				
e!COCKPIT Library Description WagoAppPowerMeasurement	1.7.4.0 25.05.2021	pdf 1369.41 KB		