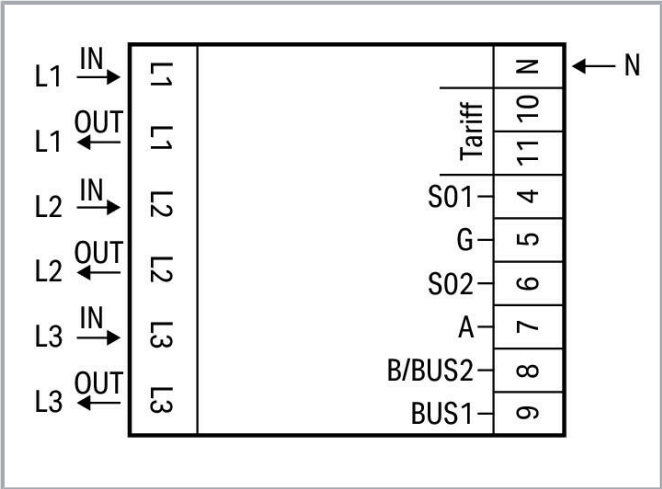


Data sheet | Item number: 879-3000
Energy consumption meter; for direct connection; 65A; 3x230/400V; 50Hz;
MID; Modbus® & M-Bus; 2 x S0 interface; 4PU



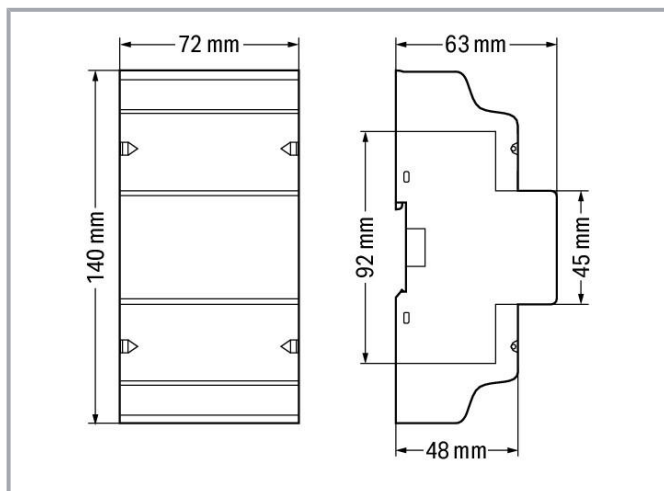
www.wago.com/879-3000



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

WAGO Corporation
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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 (4PU)
- 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*®

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Data

Technical data

Configuration

Configuration options

Touch-sensitive controls

Configuration app via Bluetooth®

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} | 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 |

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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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| | |
|-------------------|-----------------------------|
| 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 |
|---------------|-------------|

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 | 4055144071290 |
| Customs tariff number | 90283019000 |

Downloads

Documentation

Manual

| | | | |
|---------------------------------------|-----------------------|---------------|----------|
| WAGO Energy Meters (MID) 4PS / 4PU | V 1.1 May 25, 2021 | pdf 3.1 MB | Download |
|---------------------------------------|-----------------------|---------------|----------|

Instruction Leaflet

| | | | |
|--------------------------|-----------------------|-----------------|----------|
| Energy consumption meter | V 1.12 Mar 2, 2021 | pdf 915.0 kB | Download |
|--------------------------|-----------------------|-----------------|----------|

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CAD files

CAD data

| | | |
|-----------------------|-----|----------|
| 2D/3D Models 879-3000 | URL | Download |
|-----------------------|-----|----------|

CAE data

| | | |
|-----------------------|-----|----------|
| ZUKEN Portal 879-3000 | URL | Download |
|-----------------------|-----|----------|

Environmental Product Compliance

Compliance Search

| | | |
|--|-----|----------|
| Environmental Product Compliance 879-3000 | URL | Download |
| Energy consumption meter; for direct connection; 65A; 3x230/400V; 50Hz; MID; Modbus® & M-Bus; 2 x S0 interface; 4PU | | |

Installation Notes

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