

Shelly® 3EM



WI-FI-OPERATED 3 PHASE ENERGY METER AND CONTACTOR CONTROL

Shelly 3EM has integrated output which can be used for contactor control.

- ✓ Precise 3-phase energy metering
- ✓ Up to 120A per phase
- ✓ Integrated 10A contactor control
- ✓ Solar and Wind power compatible
- ✓ Factory calibrated with over 99% accuracy
- ✓ DIN mountable
- ✓ Wi-Fi enabled
- ✓ Cloud and MQTT Enabled
- ✓ 365 days power consumption history



Wi-Fi connected

Shelly 3EM can be connected to any Wi-Fi network or can operate as an Access Point.



Power supply

Each phase of Shelly 3EM must be 110-230 VAC, 50/60Hz.



Monophase systems

Shelly 3EM can also monitor monophase electrical systems with up to 3 points simultaneously.



Contactor control

Shelly 3EM has an integrated 10 A switch output for contactor control.



Mobile app control

Turn Shelly 3EM on/off directly from your smartphone or tablet. You can manage Shelly 3EM's output from the Shelly Cloud app, MQTT or Rest API.



Overconsumption and overpower protection

Shelly 3EM can automatically turn off the whole circuit if consumption or energy (pre-paid energy option) reaches the set limit.



Embedded web server

Turn on/off Shelly 3EM's contactor output directly, without the need of any additional controller or hub.



Sunrise/sunset schedules

Shelly 3EM can automatically turn on/off the power based on the sunrise/sunset hours.



Weekly schedules

Choose a time and create custom daily schedules for your Shelly 3EM.

TECHNICAL SPECIFICATIONS

Power supply	110-230 VAC, 50/60 Hz
Power metering	3 channels, up to 120 A each
Consumption history	365 days built-in energy history (Wh)
Maximum load	10 A / 240 VAC
Complies with EU standards	<ul style="list-style-type: none"> • RED 2014/53/EU • LVD 2014/35/EU • EMC 2014/30/EU • RoHS2 2011/65/EU
Working temperature	-20°C ÷ 40°C
Max RF power	10.28 dBm
Wireless/Wi-Fi Protocol	802.11 b/g/n (2.4 GHz)
Frequency	2401- 2495 MHz
Operational range (depending on local conditions)	<ul style="list-style-type: none"> • up to 50 m outdoors • up to 30 m indoors
Dimensions (HxWxD)	73x22x58 mm
Electrical consumption	< 1 W
Additional features	<ul style="list-style-type: none"> • Overpower shutdown • Consumption limit

