Shelly® 3EM

√ 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 110-230V ±10, 50/60Hz AC.

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

Contactor control
Shelly 3EM has an integrated 10A relay 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.

WIFI-OPERATED 3 PHASE ENERGY METER AND CONTACTOR CONTROL

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

TECHNICAL SPECIFICATIONS

Power supply	110-230V, 50/60Hz AC
Power metering	3 channels, up to 120A each
Consumption history	365 days built-in energy history (Wh)
Contactor control	Maximum load 10A
Complies with EU standards	• RE Directive 2014/53/EU • LVD 2014/35/EU • EMC 2014/30/EU • RoHS2 2011/65/EU
Working temperature	-20°C ÷ 40°C
Radio signal power	1mW
Wireless/WiFi Protocol	802.11 b/g/n (2.4 GHz)
Frequency	2412 - 2472 MHz
Operational range (depending on local construction)	• up to 50 m outdoors • up to 30 m indoors
Dimensions (HxWxD)	73x22x58 mm
Electrical consumption	< 1 W
Additional features	• Overpower shutdown • Consumption limit