

Specifications

PHYSICAL	
Size (HxWxD):	Shelly Pro 3EM-3CT63: 94×19×69 mm / 3.70×0.75×2.71 in
Shelly 3CT63:	14×54×26 mm / 0.55×2.12×1.02 in
Weight:	Shelly Pro 3EM-3CT63: 62 g / 2.19 oz
Shelly 3CT63:	32 g /1.12 oz
CT aperture:	Ø9 mm / Ø0.35 in
Wire diameter:	6 mm / 10 AWG
Screw terminals max torque:	0.4 Nm / 3.5 lbin
Conductor cross section:	Shelly Pro 3EM-3CT63: 0.5 to 2.5 mm ² / 20 to 14 AWG (solid, stranded, and bootlace ferrules)
Shelly 3CT63:	0.2 to 2.5 mm ² / 24 to 14 AWG (solid, stranded, and bootlace ferrules)
Conductor stripped length:	6 to 7 mm / 0.24 to 0.28 in
Mounting:	Shelly Pro 3EM-3CT63: DIN rail
Shelly 3CT63:	Freestanding on phase wires
Shell material:	Plastic

ENVIRONMENTAL

Ambient working temperature: -20°C to 40°C / -5°F to 105°F

Humidity: 30% to 70% RH

Max. altitude: 2000 m / 6562 ft

ELECTRICAL

Power supply: 100 - 260 V~ 50/60 Hz

Power consumption: < 3 W

Shelly 3CT63 electrical strength: 1000 V~, 60 sec

SENSORS, METERS

Internal-temperature sensor: Yes

Voltmeters (RMS for each phase): 100 - 260 V

Voltmeters accuracy: ±1 %

Ammeters (RMS via CT for each phase and the Neutral): 0 - 63 A

Compatible CT: 3CT63

Ammeters accuracy: ±1 % (2 - 63 A),

±2 % (1 - 2 A),

±5 % (0 - 1 A)

Power and energy meters: Active and apparent power

Active and apparent energy

Power factor

Channel-to-channel calibration minimum load	500 W per channel
No load threshold:	30 VA per channel
Measurement data storage:	At least 60 days of 1 min data resolution
Data export:	CSV for PQ recorded values
JSON format export through RPC	
Radio	
Wi-Fi	
RF band:	2400 - 2495 MHz
Max. RF power:	< 20 dBm
Protocol:	802.11 b/g/n
Range:	Up to 50 m / 164 ft outdoors, up to 30 m / 98 ft indoors (depending on local conditions)
BLUETOOTH	
Protocol:	4.2
RF band:	2400-2483.5 MHz
Max. RF power:	<4 dBm
Range:	Up to 30 m / 98 ft outdoors, up to 10 m / 33 ft indoors (depending on local conditions)
MICROCONTROLLER UNIT	
CPU:	ESP32-D0WDQ6
Flash:	16 MB

Webhooks (URL actions):	20 with 5 URLs per hook
Wi-Fi range extender:	Yes
BLE Gateway	Yes
Scripting:	Yes
MQTT:	Yes
Encryption:	Yes

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