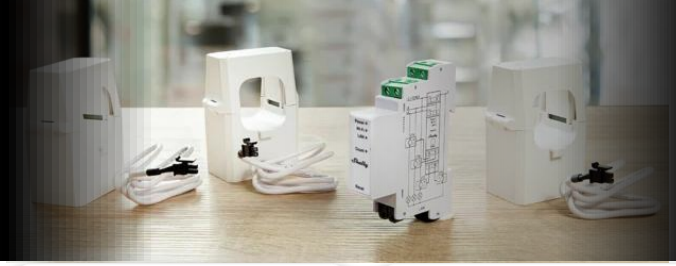
Shelly

SHELLY PRO EM RELAY COMPARISON



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	Shelly Pro EM-50	Shelly Pro 3EM-120A	Shelly Pro 3EM-400A	Shelly Pro 3EM Switch Add-On
# Channels / Gangs / Switches	1	N/A	N/A	1
Bluetooth / Wi-Fi	Yes	Yes	Yes	N/A
Ethernet	Yes	Yes	Yes	N/A
Power Supply	100 - 260 V, 50/60 Hz	100 - 260 V, 50/60 Hz	100 - 260 V, 50/60 Hz	3.3V and 12V (from Shelly Pro 3EM device)
Conductor cross section	0.5 to 2.5 mm^2	0.5 to 2.5 mm^2	0.5 to 2.5 mm^2	
Ambient temperature	-20 °C to 40 °C	-20 °C to 40 °C	-20 °C to 40 °C	-20 °C to 40 °C
Power consumption	< 3 W	< 3 W	< 3 W	< 1 W
Max switching voltage AC	240 VAC	N/A	N/A	240 V
Max switching voltage DC	N/A	N/A	N/A	30 V
Max switching current AC	2A	N/A	N/A	2A
Max switching current DC	N/A	N/A	N/A	2A
Dry Contact	Yes	No	No	Yes
Energy Metering	Yes	Yes	Yes	No
Number of CTs	2	3	3	N/A
Add-On	Yes	Yes	Yes	N/A
Voltmeter (RMS)	100 - 260V	100 - 260V	100 - 260V	N/A
Ammeters (RMS via CT)	0 - 50A	0 - 120A	0 - 400A	N/A
Measurment data storage	60 days / 1min data intervals	60 days / 1min data intervals	60 days / 1min data intervals	N/A
Active and apparent power	Yes	Yes	Yes	N/A
Active and apparent energy	Yes	Yes	Yes	N/A
Power Factor	Yes	Yes	Yes	N/A
Fundamental active & reactive energy	No	Yes	Yes	N/A
Internal temp sensor	Yes	Yes	Yes	Yes
Size	94mm x 19mm x 69mm ±0.5 mm	94mm x 19mm x 69mm ±0.5 mm	94mm x 19mm x 69mm ±0.5 mm	94mm x 19mm x 69mm ±0.5 mm
Knowledge base	Shelly Pro EM 50	Shelly Pro 3EM 120	Shelly Pro 3EM 400	Shelly Pro 3EM Switch Add On
Typical Use Case	Measure single phase energy use	Measure 3-Phase or 3x channel energy up to 120A	Measure 3-Phase or 3x channel energy up to 400A	Operate relays/ switch appliances