Enphase Q Relay (multiphase)

In Enphase IQ installations, the multiphase Q Relay works with acts as a grid monitoring and disconnection device. The Q Relay physically isolates the IQ Series Microinverters from the grid when abnormalities are sensed or as required by grid regulations, and it automatically reconnects when valid grid conditions resume.

The 4-pole Q Relay isolates all phase and neutral lines and works together with the Enphase Envoy-S gateway.

Easy to Install

- Lightweight and simple
- DIN rail mount for quick installation

Reliable

- Dependable load control
- Automatically resets when normal voltage resumes

Smart

- Can be configured to monitor 1, 2, or 3 phases
- Remote upgrade capability
- Easy to read status LEDs

Enphase Q Relay

SPECIFICATIONS Q-RELAY-3P-INT	Multiphase network system relay controller (50 Hz) with support for DC current detection
Over voltage category (EN 61010-1)	III
CAT III	GRID terminal is rated for measurement category III.
Pollution degree (EN 61010-1)	2
Operating AC voltage range for power supply	85 to 265 VAC
Nominal input voltage (Vnom)	230 / 240 Vrms
Nominal input frequency	50 Hz
Voltage and frequency acquisition time on valid input during normal operation	100 ms (5 line cycles @ 50Hz)
Number of voltage inputs to monitor	Up to 3
Number of Q Relays per system	Limit of 20 active Q Relay devices per system
Output	Four pole normally open relay (L1, L2, L3, and N)
Output power rating	6 kVA per phase
Output rating (typical)	230 / 240 Vrms, 25A
Power consumption	18 VA
LEDs	Four red/green LEDs: three for under/over voltage trip, one for under/over frequency and DC current
Mounting	35 mm DIN rail (standard)
Width	107 mm
Surge - L1 N output	Combination (1kV 2Ω)
Operating temperature range	-40 °C to 50 °C
IP rating	IP 20 (Must be used in a protected environment)
Relative humidity	0 to 95 non-condensing
Compliance	IEC 61010, EN 61010-1
Conducted and radiated EMI	IEC 61326, BS EN 50065-1 & 2-2, BS EN 61326-1&2, BS EN 61000-3-11&12
Warranty	5 years

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