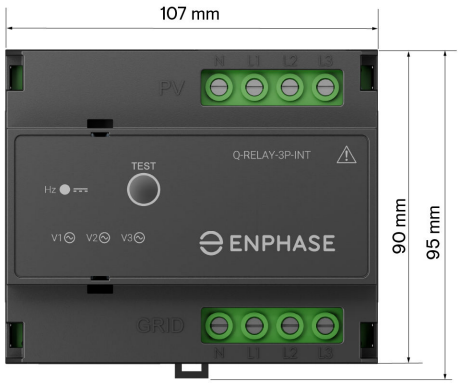
IQ Relay 3P

The Enphase IQ Relay is a physical grid disconnection device for PV systems. It features an integrated phase coupler for PLC communication between different phases. The relay disconnects Enphase microinverters and IQ Batteries during grid faults (out-of-spec frequency/voltage) and automatically reconnects when conditions normalize.



Enphase 5 year limited warranty

Key specifications	Q-RELAY-3P-INT
Nominal grid voltage	230 V
Nominal frequency	50 Hz
Trip time	100 ms
Rated current	25 A
Output	4-pole normally open (L1, L2, L3, and N)
Operating temperature range	-40°C to 50°C
Mounting	35 mm DIN rail (standard)
IP rating	20 (must be in protected environment)



Simple

- Lightweight and simple
- DIN rail mount
- TEST button to easily configure for single, two, or three-phase operations
- Intuitive LED indicators for frequency and phase voltage status

Reliable

- Dependable control
- Automatically resets when normal operating conditions resume
- The integrated phase coupling enables seamless power line communication (PLC) signal propagation across all phases (L1, L2, L3, and N)

Smart

- Remote upgrade capability
- Neutral sensing to detect voltage imbalance
- Integrated DC current injection sensing and protection

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Electrical data	Units	Q-RELAY-3P-INT
Output	—	4-pole normally open (L1, L2, L3, and N)
Nominal grid voltage	V	230
Minimum/Maximum grid voltage	V	85/265
Rated current	A	25
Nominal frequency	Hz	50
Minimum/Maximum frequency	Hz	45/55
Trip time	ms	100
Maximum microinverters per IQ Relay	—	15 × IQ7 or 12 × IQ7+ or 11 × IQ7X or 10 × IQ7A or 11 × IQ8MC or 10 × IQ8AC or 9 × IQ8HC or 9 × IQ8X or 7 × IQ8P
Overvoltage category (IEC 61010-1)	—	III
Power consumption	VA/W	18/4
Surge[1] (L1, L2, L3, N, and output).	—	1 kV_{L-L} and 2 kV_{L-N}

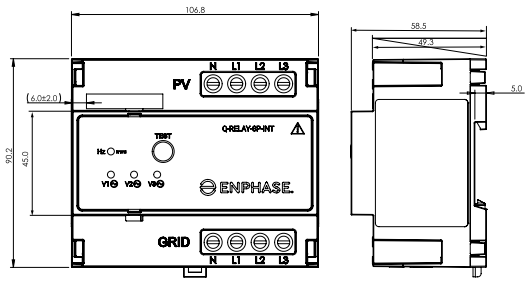
Mechanical data	Units	Q-RELAY-3P-INT
LEDs	—	Four red/green LEDs: Three indicate under/overvoltage trip; one indicates under/overfrequency and DCI
Mounting	mm	35 DIN rail (standard)
Conductor size for IQ Relay connections	mm^2	2.5–6
Operating temperature range	°C	-40 to 50
Storage and transportation temperature range	°C	-40 to 50
Relative humidity	—	0–85% (non-condensing)
Dimensions (W × H × D)	mm	107 × 90 × 59
Width	mm/TE	107/6
Weight	g	354
Pollution degree (IEC 61010-1)	—	2
IP rating	—	20 (must be installed in a protected environment)
Altitude	m	<2,600

Standards	
Grid connection	EN 50549-1, VDE-AR-N 4105:2018, NA/EEA-NE7-CH 2020, TOR Erzeuger Typ A, UNE 217002:2020, EN 50438:2013, DANSK 2019, EIFS 2018, VJV 2018, C10/C11
Safety	BS EN 61010-1 (2012 ed. 3), BS EN 61010-2-030:2017
EMC	EMI IEC 61326-1, BS EN 61000-3-11, BS EN 61000-3-12, BS EN 50065-1, EN 50065-2-2
Product labeling	CE, RCM
Communication	Power line communication (PLC) 110–120 kHz (Class B), narrowband 200 Hz

[1] Applied in accordance with IEC 61326-1:2012

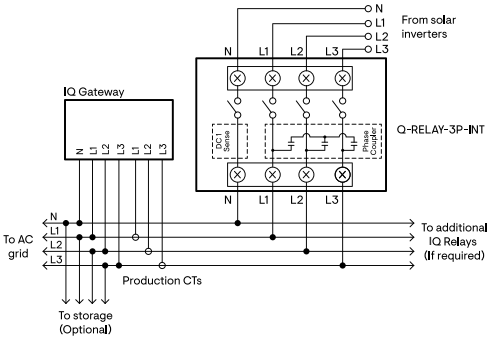
IQ Relay 3P dimensions and wiring diagram

Dimensional drawing (All dimensions are in mm)



Wiring diagram

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Revision history

Revision	Date	Description
DSH-00328-3.0	June 2026	Editorial updates.
DSH-00328-2.0	August 2025	
DSH-00328-1.0	July 2025	Initial release.