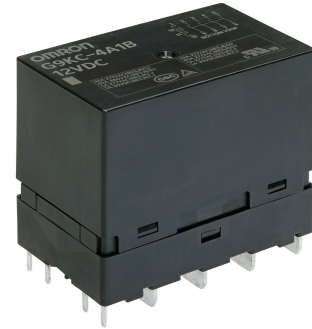


G9KC-4A1B, G9KC-4A High Power Relay

Carrying/breaking 40A max. 480VAC, option with N.C.Auxiliary Contact

G9KC is the result of meticulously development and the realization of a ground-breaking truly high endurance. A low heat generation multipole relay helping to achieve more efficient shorter charge cycles aimed at the accelerating trend in compact design AC Wallbox and Pedestal EV Chargers.



Now available with 10kA short circuit capability meeting IEC 61851 and IEC 62955 compliance together with 4 mm Contact Gap 100% guaranteed as standard, G9KC can be utilized with complete confidence in virtually any stationary charging situation regardless whether that is in front of or behind the meter, but also in battery energy storage, UPS and other diversified Inverter based end products.

Features & Benefits

Low heat generation, high current

- Low Contact Resistance (CR)
- Optimized double-break contact structure
- Precise mechanically-coupled contacts

High endurance charging

Cooler operation EV charging helping achieve efficient charge cycles and extended Chargers electrical life.

Compliances

- 10kA Short Circuit (SC) capability IEC 62955
- 4 mm Contact Gap (CG) supporting IEC 61851
- Auxiliary (mirror) contact IEC 60947-4-1

Wide application

The powerful combination and application potential of high short circuit withstand and large contact gap enables enhanced electrical insulation performance in a variety of design-in possibilities beyond EV charging.

Special features

- Unique purpose developed structure
- Min. pole-to pole Contact Resistance variation
- Auxiliary (mirror) contact option (gold flash)

Excelling in EOL performance

Low and stable Contact Resistance contributes toward keeps low heat generation performance throughout entire electrical life with reliable main contact (weld) failure detection.

PCB mounting

Applications



EVSE/EV Charger/V2X



UPS



Grid-interactive Inverter



Industrial Inverter

Specifications

Model Number	G9KA-1A1B-E
Contact Form	4PST-NO+SPST-NC (4a+1b), 4PST-NO (4a)
Max. Switching Voltage	Main 480 VAC 277 VAC, 30 VDC
Max. Switching Current	Main 40 A Aux 1 A
Contact Resistance	Initial: 6mΩ; Typ. 1mΩ (ref. only)
Contact Gap	Main: 4.0 mm
Coil Power Consumption	5000 mW (approx. 613mW at 35% holding)
Outline Dimensions (Max values)	35.5 (W) x 58.5 (L) x 47.5 (H) mm

Model Number Variations

Model Number	Description
G9KC-4A1B DC12, 24	High-Capacity Model (277 VAC 40A), with N.C. Auxiliary Contact, Coil Voltage 12 and 24 VDC
G9KC-4A DC12, 24	High-Capacity Model (277 VAC) without N.C. Auxiliary Contact, Coil Voltage 12 and 24 VDC