OMRON

Electrical Mechanical Relay

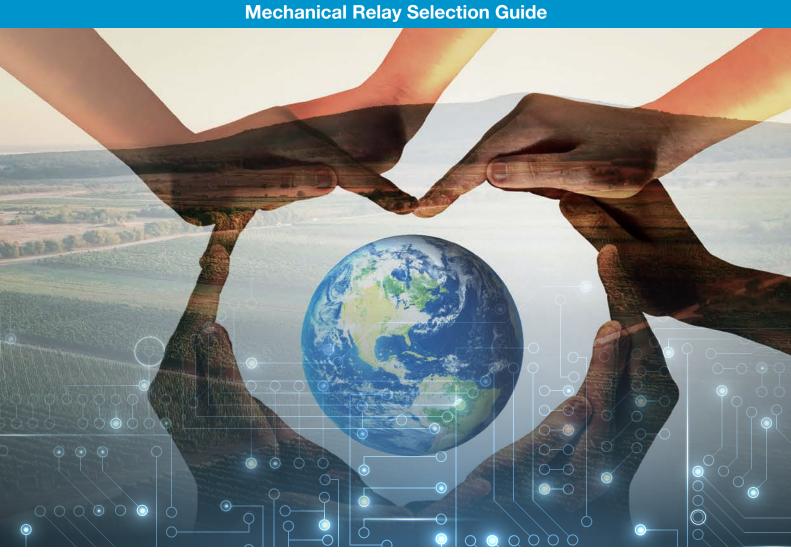
Offering the global standard in safety.

Meeting our customers' every need with numerous variations.

















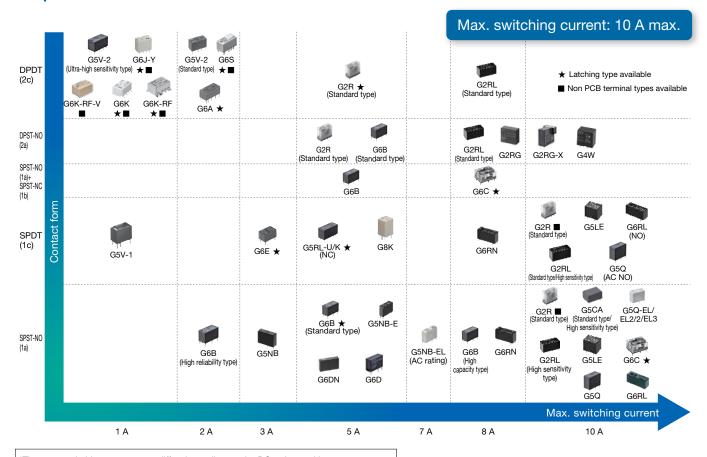




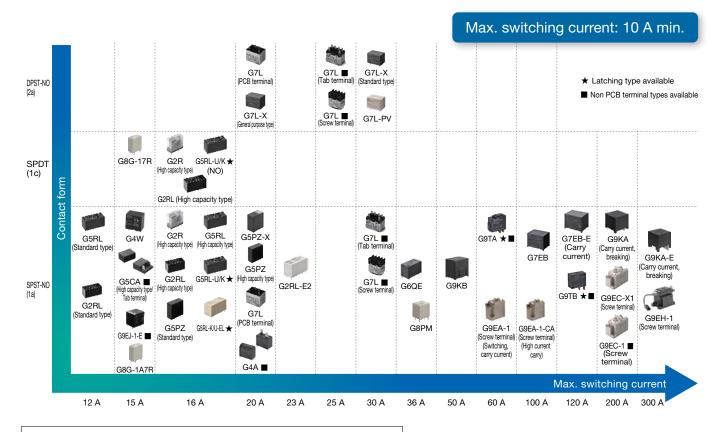


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| | |

Available in a wide range of contact forms and switching capacities to meet diverse customer needs.



*The max. switching current may differ depending on the DC rating and b contact variations. Refer to the datasheet for details.



*The max. switching current may differ depending on the DC rating and b contact variations. Refer to the datasheet for details.

Product Selection

Classification

Max. switching current

Recommended Products

Signal relay

2 A max.

Miniature 1-pole

G5V-1

Switching range: 1 mA - 1 A

Miniature

2-pole



Switching range: 10 µA - 1 A
Suitable for high-density mounting



G5V-2

Switching range: 10 µA - 2 A

3-25 A AC/DC G5NB

1-pole

Max. switching current: 3 A Explosion proof, PWM control Impulse withstand voltage: 10 kV



G5Q

Max. switching current: 3 A, 10 A Glow wire, PWM control Miniature, 1c contact



★G5RL-K/U

Max. switching current: 5 A, 16 A Impulse withstand voltage: 10 kV

G6DN

Max. switching current: 5 A High contact reliability, low power consumption

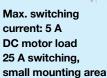
G2RL

Max. switching current: 12 A, 16 A High sensitivity, explosion proof, PWM control

G5RL

Max. switching current: 12 A, 16 A Low noise, inrush current resistance 2-pole





Max. switching current: 5 A DC motor load 25 A switching, small mounting area

G8K1

Power relay

30-300 A

AC/DC

AC High Capacity

G7L-PV

Max. switching current: 30 A, 2-pole for PV inverter, low power consumption

G6QE

Max. switching current: 36 A, 1-pole Low power consumption G7EB/G7EB-E

Max. switching current: 100A/120A, 1-pole Low contact resistance, DC switching available

10-200 A (200 VDC or above)

DC High Voltage

DC High Voltage

G9EJ-1-E

Max. switching current: 15 A for inrush prevention circuit

G9EA-1

Max. switching current: 60 A, 100 A Gas injected, hermetically sealed structure, high contact reliability G9EC-1

Max. switching current: 200 A Gas injected, hermetically sealed structure, high contact reliability

G9EC-X1

Max. switching current: 200 A
Supports contact voltage of 1,000 V



Max. switching current: 300 A Gas injected, hermetically sealed structure, high contact reliability

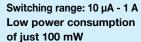
Main Applications

★ Latching type available Light blue frame: 2-pole type

and Features

High

★ G6K





Switching range: 10 µA - 2 A Global standard

frequency 2-pole

★ G6K-RF

High frequency (1 GHz / 3 GHz band) RF/LVDS signal switching

G6K-RF-V

High frequency (8 GHz band) RF/LVDS signal switching





Max. switching current: 8 A Explosion proof, **PWM** control

G2RL

For specific loads

1-pole

★ G5RL-K/U-EL

Max. switching current: 16 A Inrush resistance, illumination load Ignition resistance



G5Q-EL

Max. switching current AC: 10 A

inrush resistance, long service life



Explosion proof, ignition resistance,



Max. switching current AC: 7 A, DC: 5 A Explosion proof, ignition G5PZ

Max. switching current: 16 A, 20 A Low power consumption, impulse withstand voltage: 10 kV Sealed/certified explosion-proof product available

Max. switching current: 23 A



resistance, long service life



High capacity, ignition resistance Long service life, impulse withstand voltage: 10 kV



Household **Appliance**



Inspection Device

Building Automation



Max. switching current: 200 A, 1-pole Low-contact resistance, low heat generation

G9KA-E

Max. switching current: 300 A, 1-pole Low-contact resistance, low heat generation

G8G

Мах. switching current: 15 A

DC motor load 32 A switching, small

G8PM Max. switching

current: 40 A DC motor load 150 A switching, miniature, high capacity

mounting area, high capacity



Environment and Energy



Factory Automation

G7L-X

Load switching at 1,000 VDC

Bi-directional switching at 600 VDC Low-contact resistance type available, low power consumption

G2RG-X

Max. switching current: 10 A 500 VDC 10 A switching, impulse withstand voltage

G5PZ-X

Max. switching current: 20 A Enables bi-directional switching at 200 VDC, 20 A and 400 VDC, 20 A (2-contact series connection)

G9KB

Max. switching current: 50 A Enables bi-directional switching at 600 VDC, 50 A



Environment and Energy



Factory Automation

Signal Relay (2A max.) Product Lineup INDEX

| М | odel | | G5V-1 | G5' | V-2 | G6 | J-Y | |
|---------|---|--|--|--|--|---|--|--|
| | | | | Standard type | High sensitivity type | G6J-2P-Y | G6J-2F(S,L)-Y | |
| | | | | | | PCB terminal | Surface mounting terminal | |
| 0 | Outline dimensions | | | | | Britis de la Constitución de la | | |
| Le | | ax. value mm) h (W) × Height (H) | 12.5 × 7.5 × 10 | 20.5 × 10 |).1 × 11.5 | 10.9 × 6 × 9.3 | 10.9 × 6 × 10 | |
| Fe | eatures | | General purpose 1-pole signal relay | General purpose 2 | | signa | surface-mounting 2-pole I relay | |
| | Contact form | | SPDT(1c) | DPD | · , | | T(2c) | |
| | Contact ty | | Single crossbar | Bifurcated | | | d crossbar | |
| l to | Rated | Resistive load | 100,000 operations min. at 125 VAC, 0.5 A 100,000 operations min. at 24 VDC, 1 A | 100,000 operations min. at 125 VAC, 0.5 A 100,000 operations min. at 30 VDC, 2 A | 100,000 operations min. at 125 VAC, 0.5 A 300,000 operations min. at 24 VDC, 1 A | | nin. at 125 VAC, 0.3 A min. at 30 VDC, 1 A | |
| Contact | load | Inductive load COSØ=0.4 L/R=7 ms | _ | _ | - | - | | |
| | Max. swit | switching current 1 A 2 A 1 A | | 1 A | 1 A | | | |
| | Failure rat P level (re | e ference value) | DC5V 1 mA | DC10 mV 10 μA | | DC10 mV 10 μA | | |
| Coil | Rated vol | | 3 to 24 VDC | 3 to 48 VDC | 5 to 48 VDC | | 4 VDC | |
| _ | 1 OWCI CO | nsumption | Approx. 150 mW | Approx. 500 to 580 mW | Approx. 150 to 300 mW | - '' |) to 230 mW | |
| М | echanical d | urability | 5,000,000 operations min. | 15,000,000 op | perations min. | 50,000,000 o | perations min. | |
| | | | G5V-1 | G5' | V-2 | G6J-2P-Y | G6J-2F(S,L)-Y | |
| | | | Direction indicator | Direction ind | licator | Direction indicator | Direction indicator | |
| | Terminal arrangement/ Internal connections | | | | 8 111 <u>4</u> | 1 2 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 8 7 6 5 1 2 3 4 | |
| | | | (BOTTOM VIEW) | (BOTTO | M VIEW) | (Check carefully the coil polarity of the Relay) | (Check carefully the coil polarity of the Relay) | |

| М | odel | | G | 6K | G | 6S | |
|---------|----------------------------|---------------------------------------|--|---|---|---|--|
| | | | G6K-2P G6K-2P-Y | G6K-2(F,G) G6K-2(F,G)-Y | G6S-2 | G6S-2(F,G) | |
| | | | PCB terminal | Surface mounting terminal | PCB terminal | Surface mounting terminal | |
| Οι | Outline dimensions | | ne dimensions | | | | |
| | Shape (ma | ax. value mm) | ' | Outside-L terminal: 10.2 × 6.7 × 5.4 | | | |
| | • '/ | h (W) × Height (H) | 10.2 × 6.7 × 5.3 | Inside-L terminal: 10.2 × 6.7 × 5.6 | 15 × 7.5 × 9.4 | 15 × 7.5 × 9.4 | |
| Fe | atures | | | profile surface-mounting 2-pole signal relay | | h capacity surface-mounting 2-pole signal relay | |
| | Contact f | | | T(2c) | | T(2c) | |
| | Contact t | ype Resistive | Bifurcated crossbar 100,000 operations min. at 125 VAC, 0.3 A | | | d crossbar | |
| | Rated load | load | | min. at 125 VAC, 0.3 A min. at 30 VDC, 1 A | 100,000 operations min. at 125 VAC, 0.5 A 100,000 operations min. at 30 VDC, 2 A | | |
| Contact | | Inductive load COSØ=0.4 L/R=7ms | - | _ | _ | | |
| | Max. swit | ching current | 1 | A | 2 | Α | |
| | Failure rat P level (re | te ference value) | DC10 mV 10 μA | | DC10 mV 10 μA | | |
| Coil | Rated vol | tage | 3 to 2 | 4 VDC | 3 to 24 VDC | | |
| | | nsumption | | 100 mW | - '' | 0 to 300 mW | |
| Me | echanical c | lurability | 50,000,000 o | perations min. | 100,000,000 c | pperations min. | |
| | | | G6K-2P(-Y) Direction indicator | G6K-2(F,G)(-Y) Direction indicator | G6S-2 Direction indicator | G6S-2(F,G) Direction indicator | |
| | rminal arra ernal conn | 0 | (BOTTOM VIEW) (Check carefully the coil polarity of the Relay) | (TOP VIEW) (Check carefully the coil polarity of the Relay) | (BOTTOM VIEW) (Check carefully the coil polarity of the Relay) | (TOP VIEW) (Check carefully the coil polarity of the Relay) | |

| Model | | | G6A | G6E | |
|---|------------------------------|--|--|--|--|
| Outline dimensions Shape (max. value mm) Length (L) × Width (M) × Height (H) | | | 20.2 × 10.1 × 8.4 | 16 × 10 × 8 | |
| | atures | () '3 () | FCC standard compliant high withstand voltage type | Miniature, high sensitivity 1-pole signal relay | |
| | Contact fo | orm | DPDT(2c) | SPDT(1c) | |
| | Contact ty | /pe | Bifurcated crossbar | Bifurcated crossbar | |
| × | Rated load | Resistive load | 500,000 operations min. at 125 VAC, 0.5 A 500,000 operations min. at 30 VDC, 2 A | 100,000 operations min. at 125 VAC, 0.4 A 500,000 operations min. at 30 VDC, 2 A | |
| Contact | | Inductive load COSØ=0.4 L/R=7 ms | 500,000 operations min. at 125 VAC, 0.3 A 500,000 operations min. at 30 VDC, 1 A | 100,000 operations min. at 125 VAC, 0.2 A 500,000 operations min. at 30 VDC, 1 A | |
| | Max. swite | ching current | 2 A (resistive load) | 3 A | |
| | Failure rate P level (ref | e erence value) | DC10 mV 10 μA | DC10 mV 10 μA | |
| Coil | Rated volt | age | 3 to 48 VDC | 5 to 48 VDC | |
| ŏ | Power cor | nsumption | Approx. 200 mW to 400 mW | Approx. 200 mW to 400 mW | |
| Me | chanical d | urability | 100,000,000 operations min. | 100,000,000 operations min. | |
| Mechanical durability Terminal arrangement/ Internal connections | | | G6A-274P Direction indicator 1 | G6E-134P-US Direction indicator 116 12-10-7 (BOTTOM VIEW) (Check carefully the coil polarity of the Relay) | |

| М | odel | G6K-2F-RF-V | | |
|---------------------------|--|--|--|--|
| | utline dimensions Shape (max. value mm) noth (L) × Width (W) × Height (H) | 11.9 × 8.1 × 7.4 | | |
| | eatures | High-speed differential transmission signal changeover 8 GHz range miniature high-frequency relay | | |
| С | haracteristic impedance | 50 Ω (differential impedance 100 Ω) | | |
| istics | Isolation (same polarity) | 15 dB min. at 8 GHz | | |
| aracier | Isolation (different polarity) | 15 dB min. at 8 GHz | | |
| frequency characteristics | Insertion loss | Single ended characteristics: 4 dB max. at 8 GHz Differential transmission: 3 dB max. at 8 GHz | | |
| High | V.SWR | 3.57 max. at 8 GHz | | |
| | Contact form | DPDT(2c) | | |
| | Contact type | Bifurcated crossbar | | |
| Contact | Rated load | 100,000 operations min. at 125 VAC, 0.3 A 100,000 operations min. at 30 VDC, 1 A 1,000,000 operations min. at 10 VDC, 10 mA 100,000 operations min. at 8 GHz, 1 W* "Values for a V.SWR of 1.2 max. at the load | | |
| | aximum switching power igh frequency) | 1 W | | |
| lic | Rated voltage | 3 to 12 VDC | | |
| Coil | Power consumption | Approx. 100 mW | | |
| | erminal arrangement/ ternal connections | G6K-2F-RF-V Direction indicator | | |

| Model | | G6K | (-RF | | | |
|--|--|--|---|--|--|--|
| | G6K(U)-2F-RF | G6K(U)-2F-RF-S | G6K(U)-2F-RF-T | G6K-2P-RF | | |
| | Surface mounting terminal | Surface mounting terminal | Surface mounting terminal | PCB terminal | | |
| Outline dimensions Shape (max. value mm) | P. Car | L'anch | Trance. | | | |
| Length (L) × Width (W) × Height (H) | 10.6 × 7.2 × 5.7 | 11 × 7.2 × 5.7 | 11 × 7.2 × 5.7 | 13.6 × 7.2 × 5.5 | | |
| Features | GHz range subminiature high-frequency relay | 1 GHz range subminiature high-frequency relay (space-saving model) | GHz range subminiature high-frequency relay | GHz range subminiature high-frequency relay | | |
| Characteristic impedance | | 50 | Ω | | | |
| Isolation (same polarity) Isolation (different polarity) | 20 dB mir | n. at 1 GHz | 20 dB min. at 1 GHz 18 dB min. at 3GHz | 20 dB min. at 1 GHz | | |
| | 30 dB mir | n. at 1 GHz | 30 dB min. at 1 GHz 25 dB min. at 3GHz | 30 dB min. at 1 GHz | | |
| Insertion loss | 0.2 dB ma | x. at 1 GHz | 0.2 dB max. at 1 GHz 0.6 dB max. at 3 GHz | 0.2 dB max. at 1 GHz | | |
| ୍ମି ଞ୍ଜି V.SWR | 1.2 max. at 1 GHz | | 1.2 max. at 1 GHz 1.4 max. at 3 GHz | 1.2 max. at 1 GHz | | |
| Contact form | | DPD | T(2c) | | | |
| Contact type | | Bifurcated | l crossbar | | | |
| Contact type Rated load | 100,000 operations min. at 12 | 25 VAC, 0.3 A 100,000 operations *Values for a V.SWR o | | perations min. at 1 GHz, 1 W* | | |
| Maximum switching power (high frequency) | 1 W | | | | | |
| Rated voltage | | 3 to 24 | 4 VDC | | | |
| O Power consumption | | Approx. | 100 mW | | | |
| | G6K-2F-RF | G6K-2F-RF-S | G6K-2F-RF-T | G6K-2P-RF | | |
| Terminal arrangement/ Internal connections | TOP VIEW) (Check carefully the coil polarity of the Relay) | Direction indicator TOP VIEW) (Check carefully the coil polarity of the Relay) | Check carefully the coil polarity of the Relay) | (BOTTOM VIEW) (Check carefully the coil polarity of the Relay) | | |

| Mc | odel | | | | | | G51 | NΒ | | | | |
|--------------|--|---|--|--|---|---|--|---|--|---|--|---|
| | | | G5NB-1/ | A(-HA,-CF) | G5N | NB-1A(4)-E(-HA | .) | G5 | NB-1A(-HA,-C | F)-PW | G5NB-1A(4 | , |
| | | | Standa | ard type | Hig | h capacity type | , | D\\\\\ | Holding voltage control compa | | High cap high durabi | |
| | | | | | _ | | | FVVIVI | control compa | ilibie type | riigii durabi | пту туре |
| | | | | | | 204 | | | | | 4 | 5 |
| Οu | utline | dimensions | | | | | | | | | The same of the sa | |
| | | | | | | | | | | | 100 | |
| | | | | | | | | | | | | 1 |
| | Shar | oe (max. value mm) | | | | | | | . 1 | | | • |
| | |) × Width (W) × Height (H) | 20.5 × 7 | 7.2 × 15.3 | 20 | $20.5 \times 7.2 \times 15.3$ $20.5 \times 7.2 \times 15.3$ | | 5.3 | 20.5×7.2 | × 15.3 | | |
| | | | 1-pole 3 A swi | itching relay with | 1-pole 5 | A switching rela | y with | 1-pole | e 3 A switching | relay with | Miniature power re | elay capable of |
| Fe | ature | ag. | | withstand voltag | | ulse withstand | | | mpulse withsta | | 1-pole 7 A sv | |
| . 0 | aturo | ,,, | | ring EN61010 | | atisfying EN610 | | | | | mplying with the in | |
| | | | reinforced insula | ation requiremen | its reinforced | insulation requir | | | / PWM control | compatible | standards for ignit | ion resistance |
| Contact form | | | | | | | SPST-N | . , | | | | |
| | Cor | ntact type | 200 000 one | erations min. at | 100.0 | 000 operations | Sing | | 000 operations | min at 20 | 0,000 operations mi | n at 250 VAC 5 / |
| | | Resistive | | AC, 3 A | | 250 VAC, 5 A | at | 200, | 125 VAC, 3 | | 0,000 operations mir | |
| tact | Rate | ed load | | erations min. at | | 000 operations | at | 200, | 000 operations | | 00,000 operations m | |
| Contact | load | d | 30 VE | DC, 3 A | : | 30 VDC, 3 A | | | 30 VDC, 3 A | 4 | (standard type, holdi | ng voltage type) |
| O | | Inductive load | | | | | _ | - | | | | |
| | Max | x. switching current | 3 | 3 A | | 5 A | | | 3 A | | AC:7 A, D | C:5 A |
| | | ure rate | | | | | 5 VDC | 10 mA | | | | |
| | - | vel (reference value) | | | | | | | | | | |
| | Rate | ed voltage | | | | | 5 to 24 | ₽ VDC | | | | |
| Soil | | | | 000 14/ | | 000 144 | | | Approx. 200 n | | | 20 14/ |
| U | Pov | ver consumption | Approx. | . 200 mW | Ap | prox. 200 mW | | (when | Approx. 32 m applying holdir | | Approx. 20 | JU MVV |
| N / c | oobor | nical durability | | | | 5 000 | ope 000,0 | | | ig voitage) | | |
| IVIE | ecnai | lical durability | OFNID 4 | A/ 11A OF) | 051 | | | | | E) D)4/ | OFNE 44/4 | \ FI 114 |
| | | | G5NB-1/ | A(-HA,-CF) | G5N | NB-1A(4)-E(-HA | .) | GS | NB-1A(-HA,-C | F)-PVV | G5NB-1A(4 |)-EL-HA |
| _ | | | [a ∓ī — | 2 = -3= | | 1 2 - 3 | a | Б | a - 1 | -3= | Ø = 1 2 | - 3 - |
| | | al arrangement/ I connections | arrangement/ | | | | | | | | | |
| IIIU | ernai | Connections | ∟ <u>⊎</u> <u>+</u> 4 | | <u> </u> | 4 | 」 | L | <u> </u> | | <u> </u> | |
| | | | (DOTT) | DNA 1/1/E1A/1 | (D) | OTTONA VIIENA | (DOTTOMA)/IE | | 340 | (POTTOMA) (IEMA) | | |
| | | | (BOTTC | OM VIEW) | (Br | BOTTOM VIEW) (BOTTOM VIEW) | | :vv) | (BOTTOM VIEW) | | | |
| Mc | odel | | | | | | G5 | iO | | | | |
| | - | | G5Q-1(A) | (4)(-HA) | G5Q-1(A)(| 4)-EU(-HA) | | | (-HA)-PW | G5Q-1A-EL-HA-V | H G5Q-1A4-EL2-HA | G5Q-1A4-EL3-HA |
| | | | Standard | | • | apacity | Holo | ding vol | tage, PWM | | g High capacity, inrush | High capacity, moto |
| | | | Standard | u type | nigii c | араспу | contr | rol com | patible type | service life type | resistance type | load switching type |
| | | | | | | | | | Walley Con Street | 10 miles 2 miles | | |
| Οu | utline | dimensions | | | | | | | | | | |
| | | | | | _ | | | | | | | |
| | Shar | oe (max. value mm) | | | | | | | | | | |
| | |) × Width (W) × Height (H) | | | 20.3 × 10 | 0.3 × 15.8 | 20. | | 20.3 × 10.3 × 15. | 8 20.3 × 10.3 × 15.8 | 20.3 × 10.3 × 15.8 | |
| | | , | | | | , | | | | at 40 A inrush current | Motor load switching | |
| | | | | | | | Miniature power relay with | | 10 A (250 VAC) with | | at 30 A inrush current and | |
| _ | | | | Miniature power relay with 1-pole 10 A switching capacity | | | 1-pole 10 A switching capacity | | high capacity | | | |
| | | | | | | Complies with the international safety standards for | | | | switching and long | thanks to inrush current resistance, | 3 A break current, |
| Fe | ature | es | | rith the internation | onal safety sta | andards for | | | | switching and long service life, complying | current resistance, complying with the | 3 A break current, complying with the |
| Fе | ature | es | | | onal safety sta | andards for | | voltage | e/PWM control | service life, complying with the international | current resistance, complying with the international safety | 3 A break current, complying with the international safety |
| Fе | ature | es | | rith the internation | onal safety sta | andards for | | | e/PWM control | service life, complying | current resistance, complying with the international safety standards for | 3 A break current, complying with the international safety |
| | | es tact form | | rith the internation res | onal safety sta | | | voltage comp | e/PWM control | service life, complying with the international safety standards for | current resistance, complying with the international safety standards for | 3 A break current, complying with the international safety standards for ignition |
| _ | Cont | | Complies w | rith the internation ignition res | onal safety sta sistance SPST-NO (1a) Sin | | Holding SPST-NO (1a | voltage comp | e/PWM control atible | service life, complying with the international safety standards for | current resistance, complying with the international safety standards for ignition resistance | 3 A break current, complying with the international safety standards for ignition |
| _ | Cont | tact form | Complies w SPST-NO (1a) | rith the internation ignition res | onal safety sta sistance SPST-NO (1a) Sin | SPDT(1c) | Holding SPST-NO (1a | voltage comp)+SPDT(1c) | e/PWM control atible SPDT(1c) | service life, complying with the international safety standards for | current resistance, complying with the international safety standards for ignition resistance SPST-NO (1a) | 3 A break current, complying with the international safety standards for ignition |
| _ | Cont | tact form | Complies w SPST-NO (1a) NO.) 50,000 operations min. at 122 200,000 operations min. at 17 | ith the internation ignition resistant SPDT(1c) | onal safety sta sistance SPST-NO (1a) Sin 1.0) 0,000 operations min. at 100,000 operations min. At | SPDT(1c) ngle 125 VAC, 10 A resistive load 125 VAC, 3 A resistive load | Holding SPST-NO (1a) (N.O.) 50,000 operate 200,000 operate | voltage comp ()+SPDT(1c) ions min. at 1: ations min. at | e/PWM control atible SPDT(1c) 25 VAC, 10 A resistive load 125 VAC, 3 A resistive load | service life, complying with the international safety standards for | current resistance, complying with the international safety standards for ignition resistance SPST-NO (1a) | 3 A break current, complying with the international safety standards for ignition |
| _ | Cont | tact form | Complies w SPST-NO (1a) N.O.) 5,000 operations min. at 122 200,000 operations min. at 12 110,000 operations min. at 22 | ignition res SPDT(1c) SPDT(1c) SVAC, 10 A resistive load 22 50 VAC, 3 A resistive load 25 50 VAC, 3 A resistive load 21 | onal safety stasistance SPST-NO (1a) Sin (.0.) 0,000 operations min. at 1 00,000 operations min. at 1 00,000 operations min. at 1 | SPDT(1c) rgle 125 VAC, 10 A resistive load 125 VAC, 3 A resistive load 250 VAC, 3 A resistive load | N.O.) (N.O.) (N. | voltage comp)+SPDT(1c) ions min. at 1: ations min. at ations min. at | e/PWM control atible SPDT(1c) 25 VAC, 10 A resistive load 125 VAC, 3 A resistive load 250 VAC, 3 A resistive load | service life, complyir with the internations safety standards for ignition resistance | current resistance, g complying with the international safety r standards for ignition resistance SPST-NO (1a) Single | 3 A break current, complying with the international safety standards for ignition |
| _ | Cont | tact form | Complies w SPST-NO (1a) [N.O.) 50,000 operations min. at 12:2 200,000 operations min. at 25:3 50,000 operations min. at 25:50,000 operations min. | ith the internation resident in the internation resident re | onal safety sta sistance SPST-NO (1a) Sin 1.0) 0,000 operations min. at 1 0,000 operations min. at 1 0,000 operations min. at 2 | SPDT(1c) ngle 125 VAC, 10 A resistive load 125 VAC, 3 A resistive load | Holding SPST-NO (1a) (N.O.) 50,000 operat 200,000 operat 100,000 operat 50,000 operat | voltage comp)+SPDT(1c) ions min. at 1: ations min. at ations min. at 2: ions min. at 2: | e/PWM control atible SPDT(1c) 25 VAC, 10 A resistive load 125 VAC, 3 A resistive load | service life, complyir with the internations safety standards for ignition resistance AC250 V 10 / 100,000 | current resistance, g complying with the international safety r standards for ignition resistance SPST-NO (1a) Single | 3 A break current, complying with the international safety standards for ignition |
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| oil | Control Contro | tact form tact type Resistive load Inductive load, capacitive load . switching current tre rate vel (reference value) | Complies w SPST-NO (1a) [N.O.) 50,000 operations min. at 122 200.000 operations min. at 255 50,000 operations min. at 255 100,000 operations min. at 251 100,000 operations min. at 251 100,000 operations min. at 30 N.O.) 100,000 operations min. at 33 N.O.) 100,000 operations min. at 33 | ignition resignation resignati | conal safety stasistance SPST-NO (1a) Sin (0) 0,000 operations min. at 1 0,000 operations min. at 2,000 operations min. at 1 0,000 operations min. at 2 1,000 operations min. at 3 1,000 operations min. at 3 1,000 operations min. at 3 1,000 operations min. at 4 | SPDT(1c) Ingle 125 VAC, 10 A resistive load 125 VAC, 3 A resistive load 125 VAC, 3 A resistive load 250 VAC, 5 A resistive load 250 VAC, 5 A resistive load 30 VDC, 5 A resistive load 1125 VAC, 3 A resistive load 250 VAC, 3 A resistive load 250 VAC, 3 A resistive load DC: 5 A(N.O. | Holding SPST-NO (1a (N.O.) 50,000 operat 200,000 operat 100,000 operat 100,00 | ivoltage comp i)+SPDT(1c) idions min. at 1. ations min. at ations min. Attains min. at ations min. at ations min. at ations min. Attains mi | e/PWM control atible SPDT(1c) SPDT(1c) 25 VAC, 10 A resistive load 125 VAC, 3 A resistive load 125 VAC, 5 A resistive load 30 VDC, 5 A resistive load 125 VAC, 3 A resistive load 125 VAC, 3 A resistive load 125 VAC, 3 A resistive load VAC, 3 A | service life, complyir with the internations safety standards for ignition resistance AC250 V 10 / 100,000 operations | current resistance, g complying with the international safety r standards for ignition resistance SPST-NO (1a) Single Capacitive load: 250 VAC, 100 No. current: 40 A / 100 µs break current: 1 A, 100,000 operations min. 10 A DC5V 10 mA | 3 A break current, complying with the international safety standards for ignition resistance Motor load: 250 VAC, inrush current: 30 A / 0.5s, break current: 3 A, cos0=0.5, 300,000 operations min. |
| Coil | Cont Cont Cont Maxe Failu Plev Rate | Resistive load Inductive load, capacitive load Inswitching current are rate (reference value) id voltage er consumption | Complies w SPST-NO (1a) [N.0.) 50,000 operations min. at 125 200,000 operations min. at 25 50,000 operations min. at 25 50,000 operations min. at 25 100,000 operations min. at 31 100,000 operations min. at 32 100,000 operations min. at 33 100,0 | SPDT(1c) SPDT(1 | conal safety stasistance SPST-NO (1a) Sin (0) 0,000 operations min. at 1 0,000 operations min. at 2 0,000 operations min. at 3 0,000 operations min. at 4 0,000 operations min. at 5 0,000 operations min. at 6 0 | SPDT(1c) Ingle 125 VAC, 10 A resistive load 125 VAC, 3 A resistive load 125 VAC, 5 A resistive load 250 VAC, 5 A resistive load 250 VAC, 5 A resistive load 30 VDC, 5 A resistive load 1125 VAC, 3 A resistive load 30 VDC, 3 A resistive load 30 VDC, 3 A resistive load 40 VDC, 3 A resistive load 40 VDC, 3 A resistive load 40 VDC Approx. 400 mW | Holding SPST-NO (1a NO.) 50,000 operat 200,000 operat 100,000 | ivoltage comp i)+SPDT(1c) idions min. at 1. ations min. at ations min. Attains min. at ations min. at ations min. at ations min. Attains mi | e/PWM control atible SPDT(1c) 25 VAC, 10 A resistive load 125 VAC, 3 A resistive load 50 VAC, 3 A resistive load 30 VDC, 5 A resistive load 30 VDC, 5 A resistive load 30 VDC, 3 A resistive load 30 VDC, 3 A resistive load 4250 VAC, 3 A resistive l | service life, complyir with the internations asfety standards for ignition resistance AC250 V 10 100,000 operations min. | current resistance, g complying with the international safety r standards for ignition resistance SPST-NO (1a) Single Capacitive load: 250 VAC, insh current: 40 A / 100 µs break current: 10 A DC5V 10 mA 5 to 24 VDC Approx. 400 mV | 3 A break current, complying with the international safety standards for ignition resistance Motor load: 250 VAC, inrush current: 30 A / 0.5s, break current: 3 A, cos0=0.5, 300,000 operations min. |
| Coil | Cont Cont Cont Maxe Failu Plev Rate | Resistive load Inductive load, capacitive load Inswitching current are rate rete (reference value) id voltage | Complies w SPST-NO (1a) [N.O.) 50,000 operations min. at 122 200,000 operations min. at 255 0,000 operations min. at 255 0,000 operations min. at 255 0,000 operations min. at 251 100,000 operations min. at 30 Approx. 200 mW | ignition resident in the internation of the interna | conal safety stasistance SPST-NO (1a) Sin (0) 0,000 operations min. at 1 0,000 operations min. at 2 0,000 operations min. at 3 0,000 operations min. at 3 0,000 operations min. at 4 0 | SPDT(1c) Ingle 125 VAC, 10 A resistive load 125 VAC, 3 A resistive load 125 VAC, 3 A resistive load 250 VAC, 5 A resistive load 250 VAC, 5 A resistive load 30 VDC, 5 A resistive load 1125 VAC, 3 A resistive load 30 VDC, 3 A resistive load 30 VDC, 3 A resistive load 40 VDC, 3 A resistive load 40 VDC SA VDC, 3 A resistive load 40 VDC Approx. 400 mW perations min. | Holding SPST-NO (1a (N.O.) 50,000 operat 200,000 operat 100,000 operat 100,00 | voltage comp i)+SPDT(1c) idions min. at 1. idions min. at 1. idions min. at 2. idions min. at 2. idions min. at 3. idions min. at 4. idion | e/PWM control atible SPDT(1c) SPDT(1c) 25 VAC, 10 A resistive load 125 VAC, 3 A resistive load 125 VAC, 5 A resistive load 50 VAC, 5 A resistive load 30 VDC, 5 A resistive load 125 VAC, 3 A resistive load 125 VAC, 3 A resistive load 250 VAC, 3 A resistive load Approx. 400 mW Approx. 36 mW (when applying holding voltage) | service life, complyir with the internations asfety standards for ignition resistance AC250 V 10 100,000 operations min. | current resistance, g complying with the international safety r standards for ignition resistance SPST-NO (1a) Single Capacitive load: 250 VAC, insh current: 40 A / 100 µs break current: 140 A / 100 µs break current: 10 A DC5V 10 mA 5 to 24 VDC Approx. 400 mV | 3 A break current, complying with the international safety standards for ignition resistance Motor load: 250 VAC, inrush current: 30 A / 0.5s, break current: 3 A, cos0=0.5, 300,000 operations min. |
| Coil | Cont Cont Cont Maxe Failu Plev Rate | Resistive load Inductive load, capacitive load Inswitching current are rate (reference value) id voltage er consumption | Complies w SPST-NO (1a) [N.O.) 50,000 operations min. at 122 200,000 operations min. at 255 0,000 operations min. at 255 0,000 operations min. at 255 0,000 operations min. at 251 100,000 operations min. at 30 Approx. 200 mW | SPDT(1c) SPDT(1 | conal safety stasistance SPST-NO (1a) Sin (0) 0,000 operations min. at 10,000 operations min. at 20,000 operations min. at 10,000 operations min. a | SPDT(1c) Ingle 125 VAC, 10 A resistive load 125 VAC, 3 A resistive load 125 VAC, 3 A resistive load 250 VAC, 5 A resistive load 250 VAC, 5 A resistive load 30 VDC, 5 A resistive load 1125 VAC, 3 A resistive load 30 VDC, 3 A resistive load 30 VDC, 3 A resistive load 40 VDC, 3 A resistive load 40 VDC SA VDC, 3 A resistive load 40 VDC Approx. 400 mW perations min. | Holding SPST-NO (1a (N.O.) 50,000 operat 200,000 operat 100,000 operat 100,00 | voltage comp i)+SPDT(1c) idions min. at 1. idions min. at 1. idions min. at 2. idions min. at 2. idions min. at 3. idions min. at 4. idion | e/PWM control atible SPDT(1c) SPDT(1c) 25 VAC, 10 A resistive load 125 VAC, 3 A resistive load 125 VAC, 5 A resistive load 50 VAC, 5 A resistive load 30 VDC, 5 A resistive load 125 VAC, 3 A resistive load 125 VAC, 3 A resistive load 250 VAC, 3 A resistive load Approx. 400 mW Approx. 36 mW (when applying holding voltage) | service life, complyir with the internations asfety standards for ignition resistance AC250 V 10 100,000 operations min. | current resistance, g complying with the international safety r standards for ignition resistance SPST-NO (1a) Single Capacitive load: 250 VAC, insh current: 40 A / 100 µs break current: 10 A DC5V 10 mA 5 to 24 VDC Approx. 400 mV | 3 A break current, complying with the international safety standards for ignition resistance Motor load: 250 VAC, inrush current: 30 A / 0.5s, break current: 3 A, cos0=0.5, 300,000 operations min. |
| Contact | Cont Cont Rate Max. Failu Plev Rate Powe | tact form tact type Resistive load Inductive load, capacitive load . switching current are rate vel (reference value) d voltage er consumption nical durability al arrangement/ | Complies w SPST-NO (1a) [N.O.) 50,000 operations min. at 122 200,000 operations min. at 255 0,000 operations min. at 255 0,000 operations min. at 255 0,000 operations min. at 251 100,000 operations min. at 30 Approx. 200 mW | ignition resistive load [5] SPDT(1c) S S | conal safety stasistance SPST-NO (1a) Sin (0) 0,000 operations min. at 10,000 operations min. at 20,000 operations min. at 10,000 operations min. a | SPDT(1c) Ingle 125 VAC, 10 A resistive load 125 VAC, 3 A resistive load 125 VAC, 5 A resistive load 250 VAC, 5 A resistive load 250 VAC, 5 A resistive load 30 VDC, 5 A resistive load 125 VAC, 3 A | Holding SPST-NO (1a (N.O.) 50,000 operat 200,000 operat 100,000 operat 100,00 | voltage comp i)+SPDT(1c) idions min. at 1. idions min. at 1. idions min. at 2. idions min. at 2. idions min. at 3. idions min. at 4. idion | e/PWM control atible SPDT(1c) 25 VAC, 10 A resistive load 125 VAC, 3 A resistive load 125 VAC, 3 A resistive load 50 VAC, 5 A resistive load 30 VDC, 5 A resistive load 30 VDC, 5 A resistive load 30 VDC, 3 A resistive load 30 VDC, 3 A resistive load 4250 VAC, 3 A resistive lo | service life, complyir with the internations safety standards for ignition resistance AC250 V 10 / 100,000 operations min. | current resistance, go omplying with the international safety r standards for ignition resistance SPST-NO (1a) Single Capacitive load: 250 VAC, insh current: 40 A / 100 µs break current: 1 A, 100,000 operations min. 10 A DC5V 10 mA 5 to 24 VDC Approx. 400 mV 00,000 operation G5Q-1A4-EL2-HA | 3 A break current, complying with the international safety standards for ignition resistance Motor load: 250 VAC, invals current: 30 A / 0.5s, break current: 3 A, cos@=0.5, 300,000 operations min. |
| Contact | Cont Cont Rate Max. Failu Plev Rate Powe | lact form lact type Resistive load Inductive load, capacitive load . switching current ire rate ire (reference value) id voltage er consumption nical durability | Complies w SPST-NO (1a) [N.O.) 50,000 operations min. at 122 200,000 operations min. at 255 0,000 operations min. at 255 0,000 operations min. at 255 0,000 operations min. at 251 100,000 operations min. at 30 Approx. 200 mW | ignition resident in the internation of the interna | conal safety stasistance SPST-NO (1a) Sin (0) 0,000 operations min. at 1 0,000 operations min. at 2 0,000 operations min. at 3 0,000 operations min. at 3 0,000 operations min. at 4 0 | SPDT(1c) Ingle 125 VAC, 10 A resistive load 125 VAC, 3 A resistive load 125 VAC, 3 A resistive load 250 VAC, 5 A resistive load 250 VAC, 5 A resistive load 30 VDC, 5 A resistive load 1125 VAC, 3 A resistive load 30 VDC, 3 A resistive load 30 VDC, 3 A resistive load 40 VDC, 3 A resistive load 40 VDC SA VDC, 3 A resistive load 40 VDC Approx. 400 mW perations min. | Holding SPST-NO (1a (N.O.) 50,000 operat 200,000 operat 100,000 operat 100,00 | voltage comp i)+SPDT(1c) idions min. at 1. idions min. at 1. idions min. at 2. idions min. at 2. idions min. at 3. idions min. at 4. idion | e/PWM control atible SPDT(1c) SPDT(1c) 25 VAC, 10 A resistive load 125 VAC, 3 A resistive load 125 VAC, 5 A resistive load 50 VAC, 5 A resistive load 30 VDC, 5 A resistive load 125 VAC, 3 A resistive load 125 VAC, 3 A resistive load 250 VAC, 3 A resistive load Approx. 400 mW Approx. 36 mW (when applying holding voltage) | service life, complyir with the internations safety standards for ignition resistance AC250 V 10 / 100,000 operations min. | current resistance, g complying with the international safety r standards for ignition resistance SPST-NO (1a) Single Capacitive load: 250 VAC, insh current: 40 A / 100 µs break current: 140 A / 100 µs break current: 10 A DC5V 10 mA 5 to 24 VDC Approx. 400 mV | 3 A break current, complying with the international safety standards for ignition resistance Motor load: 250 VAC, inrush current: 30 A / 0.5s, break current: 3 A, cos0=0.5, 300,000 operations min. |

| М | odel | | | G | 6B | | | |
|----------|---|-------------------------------------|--|--|---|--|--|--|
| | | | G6B(U,K)-1114(P,C) | G6B-117(4,7)(P,C) | G6B-1184P | G6B-2(0,1,2)14(P,C) | | |
| | | | 1-pole standard type | 1-pole high capacity type | 1-pole high reliability type | 2-pole standard type | | |
| 0 | Outline dimensions | | | | | | | |
| Le | | ax. value mm) h (W) × Height (H) | 20 × 10 × 10 | 20.2 × 10 × 12.5(G6B-1174(P,C)) 20.2 × 10 × 15(G6B-1177(P,C)) | 20 × 10 × 10 | 20 × 11 × 11 | | |
| F | atures | | Miniature 1a contact 5 A | Miniature 1a contact 8 A | High reliability by single | Miniature 1a1b, 2a, 2b contact 5 A | | |
| 1 6 | atures | | power relay | power relay | crossbar contact | power relay | | |
| | Contact for | orm | SPST-N | NO (1a) | SPST-NO (1a) | SPST-NO (1a)+SPST-NC (1b), DPST-NO (2a), DPST-NC (2b) | | |
| | Contact ty | ype | Single | | Single crossbar | Single | | |
| <u> </u> | Rated load | Resistive load | | 100,000 operations min. at 250 VAC, 8 A 100,000 operations min. at 30 VDC, 8 A | 100,000 operations min. at 250 VAC, 2 A 100,000 operations min. at 30 VDC, 2 A | | | |
| Contact | | Inductive load | 100,000 operations (COS) (COS) 100,000 operations (L/R= | Ø=0.4) min. at 30 VDC, 2 A | 100,000 operations at 250 VAC, 0.5 A (COSØ=0.4) 100,000 operations at 30 VDC, 0.5 A (L/R=7 ms) | 100,000 operations min. at 250 VAC, 1.5 A (COSØ=0.4) 100,000 operations min. at 30 VDC, 1.5 A (L/R=7 ms) | | |
| | Max. swite | ching current | 5 A | 8 A | 2 A | 5 A | | |
| | Failure rate P level (ref | e ference value) | 5 VDC 10 mA | | 1 VDC 1 mA | 5 VDC 10 mA | | |
| Soil | Rated vol | | 5 to 24 | | 5 to 24 VDC | 5 to 24 VDC | | |
| | | nsumption | Approx. 200 | | Approx. 200 mW | Approx. 300 mW | | |
| М | echanical d | lurability | | 50,000,000 o _l | perations min. | | | |
| | | | G6B-1114P-US | G6B-1174P-US | G6B-1184P-US | G6B-2114P-US | | |
| | Terminal arrangement/ Internal connections | | 3 4 | 1 - 3 4 | 3 4 | 7-1 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | | |
| | | | (BOTTOM VIEW) (Check carefully the coil polarity of the Relay) | (BOTTOM VIEW) (Check carefully the coil polarity of the Relay) | (BOTTOM VIEW) (Check carefully the coil polarity of the Relay) | (BOTTOM VIEW) (Check carefully the coil polarity of the Relay) | | |

| odel | | | G2RL-1A-E2-CV-HA | | |
|---|--|--|---|--|--|
| | | G2RL-1(A)-H | G2F | RL-2 | High capacity type & high-temperature compatible type |
| | | 1-pole (high sensitivity type) | 2-n | ole. | сопрацые туре |
| Outline dimensions | | , para (kigaranaan kiya yipa) | | | |
| | | | 29 × 12.7 × 15.7 | | 29 × 12.7 × 16.7 |
| atures | | 1-pole 10 A high sensitivity type | 2-pole 8 A gener | ral purpose type | Miniature, low profile, high capacity, 10 kV impulse withstand voltage, ignition resistance |
| Contact for | orm | SPST-NO (1a), SPDT(1c) | DPST-NO (2a) | DPDT(2c) | SPST-NO (1a) |
| Contact ty | уре | Single | | | Single |
| Rated load | Resistive load | 250 VAC 10A 50,000 operations | 250 VAC 8 A 100,000 operations min. 24 VDC 8 A 30,000 operations min. | 250 VAC 8 A 50,000 operations min. 24 VDC 8 A 30,000 operations min. | 250 VAC 23 A 100,000 operations min. |
| | Inductive load | , | _ | | _ |
| Max. swit | ching current | 10A | 8 | 23 A | |
| | - | | 24 VDC 40mA | | 24 VDC 40mA |
| Rated vol | tage | | 5 to 48 VDC | | 5 to 24 VDC |
| Power co | nsumption | Approx. 250 mW | | | Approx. 400 mW |
| echanical d | urability | | 20,000,000 operations min. | | 20,000,000 operations min. |
| Terminal arrangement/ Internal connections | | G2RL-1A(-H) | G2RL-2A | G2RL-2 11 21 31 4 7 6 5 | G2RL-1A-E2-CV-HA 1 1 3 4 8 (BOTTOM VIEW) |
| | Shape (mangth (L) x Width satures Contact for Contact to Rated load Max. switter Failure rate P level (rete Rated volements) Power coechanical decrements of the contact of the contact to the contact | Shape (max. value mm) ngth (L) × Width (W) × Height (H) returnes Contact form Contact type Rated load Max. switching current Failure rate P level (reference value) Rated voltage Power consumption echanical durability | T-pole (high sensitivity type) 1-pole (high sensitivity type) Shape (max. value mm) Ingth (L) x Width (W) x Height (H) Inductives Contact form SPST-NO (1a), SPDT(1c) Contact type Rated load Resistive load Inductive load Max. switching current Failure rate P level (reference value) Rated voltage Power consumption Approx. 250 mW Carninal arrangement/ Inductive load Approx. 250 mW Carninal arrangement/ Inductive load Approx. 250 mW | The pole (high sensitivity type) 1-pole (high sensitivity type) 2-pole 8 A general sensitivity type 2-pole 8 A general sensitivity type Contact form SPST-NO (1a), SPDT(1c) Contact type Resistive load Resistive load Inductive load Inductive load Max. switching current Failure rate P level (reference value) Rated voltage Power consumption Approx. 250 mW Approx. 400 m Approx. 400 m Approx. 400 m Approx. 250 mW Approx. 400 m Approx. 120 mW (when a general connections min. G2RL-1A(-H) G2RL-2A Terminal arrangement/ Terminal ar | Action of the properties of th |

*PWM control products are also available.

| М | odel | | | | G2R | | |
|---------|---|--------------------|---|---|---|--|--|
| | | | G2RK-2(A) | G2R-1(A) | G2R-1(A)-E | G2RK-1(A) | G2R-2(A) |
| | | | 2-pole (double-winding latching type) | 1-pole | 1-pole (high capacity type) | 1-pole (double-winding latching type) | 2-pole |
| O | Outline dimensions Shape (max. value mm) | | | | | | |
| Le | ngth (L) × Widt | h (W) × Height (H) | $29 \times 13 \times 25.5$ | 29 × 13 × 25.5 | 29 × 13 × 25.5 | 29 × 13 × 25.5 | 29 × 13 × 25.5 |
| Fe | eatures | | 3 A double-winding latching type | 1-pole 10 A general purpose type | 16 A high capacity type | 5 A double-winding latching type | 2-pole 5 A general purpose type |
| | Contact for | orm | DPST-NO (2a), DPDT(2c) | SPST-NO (1 | a), SPDT(1c) | SPST-NO (1a), SPDT(1c) | DPST-NO (2a), DPDT(2c) |
| | Contact ty | ype | Single | Sin | gle | Single | Single |
| | | Resistive load | 100,000 operations min. at 250 VAC, 3 A 100,000 operations min. at 30 VDC, 3 A | 100,000 operations min. at 250 VAC, 10 A 100,000 operations min. at 30 VDC, 10 A | 100,000 operations min. at 250 VAC, 16 A 100,000 operations min. at 30 VDC, 16 A | 100,000 operations min. at 250 VAC, 5 A 100,000 operations min. at 30 VDC, 5 A | 100,000 operations min. at 250 VAC, 5 A 100,000 operations min. at 30 VDC, 5 A |
| Contact | Rated load | Inductive load | 100,000 operations min. at 250 VAC, 1.5 A (COSØ=0.4) 100,000 operations min. at 30 VDC, 2 A | 100,000 operations min. at 250 VAC, 7.5 A (COSØ=0.4) 100,000 operations min. at 30 VDC, 5 A | 100,000 operations min. at 250 VAC, 8 A (COSØ=0.4) 100,000 operations min. at 30 VDC, 8 A | 100,000 operations min. at 250 VAC, 3.5 A (COSØ=0.4) 100,000 operations min. at 30 VDC, 2.5 A | 100,000 operations min. at 250 VAC, 2 A (COSØ=0.4) 100,000 operations min. at 30 VDC, 3 A |
| 10 | | ioau | (L/R=7 ms) | (L/R=7 ms) | (L/R=7 ms) | (L/R=7 ms) | (L/R=7 ms) |
| | Max. switching current | | 3 A | 10 A | 16 A | 5 A | 5 A |
| | Failure rate P level (reference value) | | DC5V 10 mA | DC5V 100 mA | DC5V 100 mA | DC5V 100 mA | DC5V 10 mA |
| | Rated vol | tage | 5 to 24 VDC | 5 to 100 VDC, 12 to 200 VAC | 5 to 100 VDC, 12 to 200 VAC | 5 to 24 VDC | 5 to 100 VDC, 12 to 200 VAC |
| Soil | Power co | nsumption | Approx. 850 mW (set coil) Approx. 600 mW (reset coil) | DC: Approx. 530 mW, AC: Approx. 900 mVA | DC: Approx. 530 mW, AC: Approx. 900 mVA | Approx. 850 mW (set coil) Approx. 600 mW (reset coil) | DC: Approx. 530 mW, AC: Approx. 900 mVA |
| М | echanical d | lurability | 10,000,000 operations min. | DC coil specification: 20 AC coil specification: 10 | | 10,000,000 operations min. | DC coil specification: 20,000,000 operations min. AC coil specification: 10,000,000 operations min. |
| | | | G2RK-2A | G2R-1A | G2R-1A-E | G2RK-1A | G2R-2A |
| | Terminal arrangement/ Internal connections | | 71 72 74 75 20 75 78 74 75 74 75 74 75 75 75 75 75 75 75 75 75 75 75 75 75 | 1 \—3 | $\begin{bmatrix} 1 & 3 & 4 \\ 2 & 6 & 5 \end{bmatrix}$ | 71 - 2 7 - 1 7 - 1 7 - 1 7 - 1 8 - 1 8 - 1 8 - 1 9 | $\begin{bmatrix} 1 & 3 & 1 & 4 \\ 2 & 6 & 1 & 5 \end{bmatrix}$ |
| | | | G2RK-2 | G2R-1 | G2R-1-E | G2RK-1 | G2R-2 |
| | | | 71 72 73 74 75 25 5 R +110 9 8 17 16 | $\begin{bmatrix} 1 & 2 & & & \\ & 2 & & & \\ & & & \end{bmatrix}$ | $\begin{bmatrix} 1 & 2 & 3 & 4 \\ 2 & 3 & 5 \end{bmatrix}$ | □1 | $\begin{bmatrix} 1 & 1^2 & J^3 \end{bmatrix}^4$ $\begin{bmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 1 \end{bmatrix}$ |
| | | | (BOTTOM VIEW) | (BOTTOM VIEW) | (BOTTOM VIEW) | (BOTTOM VIEW) | (BOTTOM VIEW) |

^{* 1-}pole twin-contact types with flux protection, high sensitivity types, and plastic sealed types are also available.

^{*2-}pole high sensitivity types with flux protection and plastic sealed types are also available.

| | | | | | | and plastic sealed types are also available. |
|---|------------------------------|--------------------|--|--|--|--|
| Mc | odel | | G6D | G6DN | G6RN | G6RL |
| Outline dimensions Shape (max. value mm) | | | OMBON ASI MIR OMBON ASI MIR TO TO T | | Y are the | |
| Len | ngth (L) × Width | h (W) × Height (H) | $17.5 \times 6.5 \times 12.5$ | 20 × 5.08 × 12.5 | 29 × 10.5 × 15.5 | 28.5 × 10 × 12.3 |
| Fea | atures | | Miniature power relay with 1-pole 5 A switching capacity | Miniature slim power relay with 1-pole 5 A switching capacity | Miniature power relay with 1-pole 8 A switching capacity | Low profile power relay with 1-pole 10 A switching capacity and 12.3 mm height |
| | Contact for | orm | SPST-NO (1a) | SPST-NO (1a) | SPST-NO (1a), SPDT(1c) | SPST-NO (1a), SPDT(1c) |
| | Contact ty | /pe | Single | Bifurcated crossbar | Single | Single |
| Contact | Rated load | Resistive load | | 80,000 operations min. at 250 VAC, 5 A 80,000 operations min. at 30 VDC, 5 A | | GSFL-1/A) 50.000 operations min. (NO) at 250 VAC, 8A (resishe load) 50.000 operations min. (NO) at 250 VAC, 8A (resishe load) 50.000 operations min. at 24 VDC, 5A (resishe load) 66RL-1/A/ASI-PL) 100,000 operations min. (NO) at 250 VAC, 10A (resishe load) 50.000 operations min. (NO) at 250 VAC, 8A (resishe load) 50.000 operations min. (NO) at 250 VAC, 8A (resishe load) 50.000 operations min. (NO) at 250 VAC, 8A (resishe load) 50.000 operations min. (NO) at 250 VAC, 8A (resishe load) 50.000 operations min. (NO) at 250 VAC, 8A (resishe load) 50.000 operations min. (NO) at 250 VAC, 8A (resishe load) 60.000 operations min. (NO) at 250 VAC, 8A (resishe load) 60.000 operations min. (NO) at 250 VAC, 8A (resishe load) 60.000 operations min. (NO) at 250 VAC, 8A (resishe load) 60.000 operations min. (NO) at 250 VAC, 8A (resishe load) 60.000 operations min. (NO) at 250 VAC, 8A (resishe load) 60.0000 operations min. (NO) at 250 VAC, 8A (resishe load) 60.0000 operations min. (NO) at 250 VAC, 8A (resishe load) 60.0000 operations min. (NO) at 250 VAC, 8A (resishe load) 60.0000 operations min. (NO) at 250 VAC, 8A (resishe load) 60.0000 operations min. (NO) at 250 VAC, 8A (resishe load) 60.0000 operations min. (NO) at 250 VAC, 8A (resishe load) 60.0000 operations min. (NO) at 250 VAC, 8A (resishe load) 60.0000 operations min. (NO) at 250 VAC, 8A (resishe load) 60.0000 operations min. (NO) at 250 VAC, 8A (resishe load) 60.0000 operations min. (NO) at 250 VAC, 8A (resishe load) 60.0000 operations min. (NO) at 250 VAC, 8A (resishe load) 60.0000 operations min. (NO) at 250 VAC, 8A (resishe load) 60.0000 operations min. (NO) at 250 VAC, 8A (resishe load) 60.0000 operations min. (NO) at 250 VAC, 8A (resishe load) 60.00000 operations min. (NO) at 250 VAC, 8A (resishe load) 60.0000 operations min. (NO) at 250 VAC, 8A (resishe load) 60.0000 operations min. (NO) at 250 VAC, 8A (resishe load) 60.0000 operations min. (NO) at 250 VAC, 8A (resishe load) 60.0000 operations min. (NO) at 250 VAC, 8A (resishe load) 60.0000 operations min. (NO) at |
| ŏ | | Inductive load | - | 100,000 operations min. at 250 VAC, 2 A (COSØ=0.4) 100,000 operations min. at 30 VDC, 2 A (L/R=7 ms) | - | _ |
| | Max. swite | ching current | 5 A | 5 A | 8 A | 10 A(NO) 8 A(NC) |
| | Failure rate P level (ref | | 5 VDC 10 mA G6D-1A-ASI-AP 5 VDC 1 mA | 0.1 VDC 0.1 mA | 5 VDC 10mA | 5 VDC 10mA |
| Coil | Rated volt | tage | 5 to 24 VDC | 4.5 to 24 VDC | 5 to 24 VDC | 3 to 48 VDC |
| ŏ | Power co | nsumption | Approx. 200 mW | Approx. 110 mW | Approx. 220 mW | Approx. 220 to 240 mW |
| Me | echanical d | urability | 20,000,000 operations min. | 20,000,000 operations min. | 10,000,000 operations min. | 10,000,000 operations min. |
| | | | G6D-1A-ASI(-AP) | G6DN-1A | G6RN-1A | G6RL-1A |
| Terminal arrangement/ Internal connections | | • | 5 7 | 5 8 | G6RN-1 2 7 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 4 3 3 4 4 3 4 3 4 3 4 3 4 4 3 4 3 4 4 3 4 3 4 4 3 4 3 4 4 3 4 4 3 4 4 3 4 4 3 4 4 3 4 4 4 3 4 4 4 3 4 4 4 3 4 4 4 4 3 4 | G6RL-1 |
| | | | (BOTTOM VIEW) | (BOTTOM VIEW) | (BOTTOM VIEW) | (BOTTOM VIEW) |

| | 100 | lal | | G2RG | Ge | 20 | 0. | 1W |
|--------|---|--------------|------------------------------------|--|--|--|---------------------------------------|--|
| - | 1od | iei | | GZRG | Gt | 00 | G4W-1 | G4W-2 |
| | | | | | | | 1-pole | - |
| c | Outline dimensions | | | Manual Ma | | | | 2-pole |
| L | | | x. value mm) n (W) × Height (H) | 29 × 13.5 × 26.5 | 20 × 1 | 5 × 10 | 30.5 × 19 | 9.5 × 30.5 |
| F | eat | tures | | Miniature power relay capable of 110 VDC, 5 A high-voltage DC switching (2-pole series wiring with 1a contact, 1.5 mm contact gap) | Miniature power relay wi capa | | For 10 kV imp 4 kV withstand volta | |
| | 7 | Contact fo | orm | DPST-NO (2a) | SPST-NO (1a) | SPST-NO (1a)+SPST-NC (1b) | SPST-NO (1a) | DPST-NO (2a) |
| | (| Contact ty | ре | Single | Sin | gle | Sir | igle |
| | | Rated | Resistive load | 10,000 operations min. at 250 VAC, 8 A 10,000 operations min. at 110 VDC, 5 A (with 2-pole series wiring) | | 100,000 operations min. at 250 VAC, 8 A 100,000 operations min. at 30 VDC, 8 A | | 100,000 operations min. at 250 VAC, 10 A 100,000 operations min. at 24 VDC, 10 A |
| +octoo | | | Inductive load | _ | (COSØ=0.4) | 100,000 operations min. at 250 VAC, 3.5 A (COSØ=0.4) 100,000 operations min. at 30 VDC, 3.5 A (L/R=7 ms) | (COSØ=0.4) | 100,000 operations min. at 250 VAC, 7.5 A (COSØ=0.4) 100,000 operations min. at 24 VDC, 5 A (L/R=7 ms) |
| | 1 | Max. swite | ching current | 8 A | 10 A | 8 A | 15 A | 10 A |
| | - 1 1 | Failure rate | e erence value) | | 5 VDC 10 mA | | 5 VDC 100 mA | |
| : | F | Rated volt | age | 12 VDC, 24 VDC | 3 to 24 | 4 VDC | 12 to 100 VDC | |
| C | F | Power cor | nsumption | Approx. 800 mW | Approx. 200 | to 280 mW | Approx. | 800 mW |
| ٨ | 1ec | hanical d | urability | 1,000,000 operations min. | 50,000,000 op | perations min. | 5,000,000 op | erations min. |
| | | | | G2RG-2A4 | G6C-1114P-US | G6C-2114P-US | G4W-1112P-US-TV8 | G4W-2212P-US-TV5 |
| | Terminal arrangement/ Internal connections | | • | 73 T ⁴ 1 ₆ 1 ₅ | 1 3 4 | 1 3 4 2 4 8 6 5 | 5 1 | 5 3 1 1 |
| | | | | (BOTTOM VIEW) | (BOTTOM VIEW) (Check carefully the coil polarity of the Relay) | (BOTTOM VIEW) (Check carefully the coil polarity of the Relay) | (BOTTOM VIEW) | (BOTTOM VIEW) |

| *Single-winding and double-winding latching types are also available |
|--|
|--|

| ١ | /lod | lel | | | | G2 | RL | | |
|---|---|---------------------------|--------------------|--------------------------|------------------|----------------|----------------|----------------------|---|
| | | | | G2RL-1 | (A)(-HA) | G2RL-1(A)- | E(-CV)(-HA) | G2RL-1 | (A)-E-ASI |
| | | | | 1-pole (star | ndard type) | 1-pole (high o | capacity type) | 1-pole (TV-3 rating) | (high capacity type) |
| Outline dimensions Shape (max. value mm) Length (L) × Width (W) × Height (H) | | x. value mm) | 29 × 12.7 × 15.7 | | | | | | |
| F | eat | ures | | 1-pole 12 A gen | eral prpose type | 16 A high ca | apacity type | TV-3 comp | patible type |
| | | Contact fo | orm | SPST-NO (1a) | SPDT(1c) | SPST-NO (1a) | SPDT(1c) | SPST-NO (1a) | SPDT(1c) |
| | (| Contact ty | ре | Single | | | | | |
| 1000 | | Rated oad | Resistive load | 24 VDC 12 A | 24 VDC 12A | 24 VDC 16 A | 24 VDC 16 A | 24 VDC 16 A | 250 VAC 16 A 30,000 operations min. 24 VDC 16 A 30,000 operations min. |
| | | | Inductive load | | | - | _ | · | |
| | N | Max. switching current | | 12 | Α | 16 | S A | 16 | 6 A |
| | 1 - | ailure rate level (ref | e erence value) | 24 VDC 40 mA | | | | | |
| - | <u> </u> | Rated volt | age | | 5 to 48 VDC | | | | |
| C | ⁵ F | Power cor | nsumption | Approx. 400 mW to 430 mW | | | | | |
| ١ | /lec | hanical du | urability | | | 20,000,000 o | perations min. | | |
| | Terminal arrangement/ Internal connections | | | G2RL-1A | G2RL-1 | G2RL-1A-E | G2RL-1-E | G2RL-1 | A-E-ASI |
| | | | | (BOTTOM VIEW) | (BOTTOM VIEW) | (BOTTOM VIEW) | (BOTTOM VIEW) | (ВОТТО | M VIEW) |

| Мс | odel | | | G5 | CA | | G5LE |
|---------|---|---------------------|---|---|-------------------------|---|--|
| | | | Standard type | High capacity type | High sensitivity type | Tab terminal type | |
| | Outline dimensions Shape (max. value mm) | | | 1.5 | | | Strange Strange |
| | | h (W) × Height (H) | | 22 × 16 × 11 | | 25.1 × 22.1 × 11 | 22.5 × 16.5 × 19 |
| Fe | atures | | | Flat power relay with 10, | 15 A switching capacity | | 10 A cubic type 1-pole power relay |
| | Contact for | orm | | SPST-N | NO (1a) | | SPST-NO (1a), SPDT(1c) |
| | Contact ty | ype | | Sin | gle | | Single |
| # | Rated | Resistive load | 300,000 operations min. at 250 VAC, 10 A (plastic sealed type: 100,000 operations min.) 100,000 operations min. at 30 VDC, 10 A | | | | 100,000 operations min. at 120 VAC, 10 A 100,000 operations min. at 30 VDC, 8 A |
| Contact | load | Inductive load | 100,000 operations min. at 250 VAC, 3 A (COSØ=0.4) 100,000 operations min. at 30 VDC, 3 A (L/R=7 ms) | 100,000 operations min. at 110 VAC, 5 A (COSØ=0.4) 100,000 operations min. at 30 VDC, 3 A (L/R=7 ms) | (COSØ=0.4) | (COSØ=0.4) | _ |
| | Max. switching current | | 10 A | 15 A | 10 A | 15 A | 10 A |
| | Failure rat P level (ref | e ference value) | 5 VDC 100 mA | | | | 5 VDC 100 mA |
| Coil | Rated vol | tage | | 5 to 24 VDC | | | 5 to 24 VDC |
| Ŏ | Power co | nsumption | Approx. | | Approx. 150 mW | Approx. 200 mW | Approx. 400 mW |
| Me | echanical d | lurability | | 20,000,000 op | perations min. | | 10,000,000 operations min. |
| | rminal arrar ernal conn | | G5CA-1A G5CA-1A 1 2 3 (BOTTOM VIEW) | G5CA-1A-E | G5CA-1A-H | G5CA-1A-TP-E 4 /1 3 (TOP VIEW) (BOTTOM VIEW) | G5LE-1A G5LE-1 G5LE-1 G5LE-1 G5LE-1 G5LE-1 G5LE-1 |

| N | lode | el | | GS | 5RL | |
|---------|---|--------------------------------------|--|-----------------------------|--|--|
| | | | Standard type (low noise) | Standard type (TV-8 rating) | High capacity type (low noise) | High capacity type (TV-8 rating) |
| | Outline dimensions Shape (max. value mm) Length (L) x Width (W) x Height (H) | | 29 × 12.7 × 15.7 | | 29 × 12.7 × 15.7 | |
| F | eatu | ıres | Low noise, high insulation | High insulation, TV-8 | Low noise, high insulation Miniature and low profile, 16 A switching | High insulation, TV-8 Miniature and low profile, 16 A switching |
| | Со | ontact form | | SPST- | NO (1a) | |
| | | ontact type | | Sir | ngle | |
| Contact | Rated load | Resistive load | 100,000 operations min. at 250 VAC, 12 A 100,000 operations min. at 24 VDC, 12 A | | 50,000 operations min. at 250 VAC, 16 A 50,000 operations min. at 24 VDC, 16 A | |
| ပြီ | Rate | Inductive load | | • | _ | |
| | Ma | ax. switching current | 12 A | | 16 | 6 A |
| | 1 | ilure rate evel (reference value) | | 5 VDC 100 mA | | |
| Soil | Ra | ited voltage | 5 to 24 VDC | 5 to 48 VDC | 5 to 24 VDC | 5 to 48 VDC |
| 0 | Ро | wer consumption | Approx. 530 mW | Approx. 400 to 430 mW | Approx. 530 mW | Approx. 400 to 430 mW |
| N | 1ech | nanical durability | 1,000,000 operations min. | 10,000,000 operations min. | 1,000,000 operations min. | 10,000,000 operations min. |
| | | inal arrangement/ nal connections | G5RL-1A-LN | G5RL-1A-TV8 | G5RL-1A-E-LN | G5RL-1A-E-TV8 |
| | | | (BOTTOM VIEW) | (BOTTOM VIEW) | (BOTTOM VIEW) | (BOTTOM VIEW) |

| N | Model | | G5 | iRL | |
|---------|---|--|--|--|--|
| | | G5RL-U1(A)-E | G5RL-K1(A)-E | G5RL-U1A-EL-HA | G5RL-K1A-EL-HA |
| | | Single-winding latching type, | Double-winding latching type, | Single-winding latching type, | Double-winding latching type, |
| | | high capacity type | high capacity type | inrush resistance type | inrush resistance type |
| C | Outline dimensions Shape (max. value mm) | | | | |
| Ь | ength (L) × Width (W) × Height (H) | 29 × 12.7 × 15.7 | 29 × 12.7 × 15.7 | 29 × 12.7 × 15.7 | 29 × 12.7 × 15.7 |
| H | eatures | Miniature and low profile latching | relay with 16 A switching capacity | | ination load compatible ional safety standards for ignition resistance |
| | Contact form | SPST-NO (1 | a), SPDT(1c) | SPST-I | NO (1a) |
| | Contact type | | Sin | ngle | |
| Contact | Resistive load | (N.C) 50,000 operations | min. at 24 VDC, 16 A | | AC 16 A rations min. |
| 0 | Inductive load | | - | - | |
| | Max. switching current 16 A (N.O. | | , 5 A (N.C) | 16 | S A |
| | Failure rate P level (reference value) | | - | _ | |
| Soil | Rated voltage | 3 to 24 VDC | | 5 to 24 VDC | |
| | T. Ottor Correctingtion | Approx. 600 mW | Approx. 750 to 840 mW | Approx. 600 mW | Approx. 750 to 840 mW |
| Ν | Mechanical durability | | | | |
| | | G5RL-U1A-E | G5RL-K1A-E | G5RL-U1A-EL-HA | G5RL-K1A-EL-HA |
| | erminal arrangement/ nternal connections | G5RL-U1-E 1 | G5RL-K1-E 1 - 2 3 4 4 9 9 + 5 5 5 6 5 5 6 5 5 6 5 5 6 6 5 5 6 6 5 5 6 | (BOTTOM VIEW) | (BOTTOM VIEW) |
| | | (Check carefully the coil polarity of the Relay) | (Check carefully the coil polarity of the Relay) | (Check carefully the coil polarity of the Relay) | (Check carefully the coil polarity of the Relay) |

| NA | del | | | G5PZ | | G4A |
|---------|---|------------------------------------|-------------------------------------|---|------------------------------------|---|
| IVIC | iuei | | Standard type | High capa | acity type | G4A |
| | | - | Flux resis | • ' | Plastic sealed type | ln . |
| Ou | Outline dimensions | | Hux rosic | | | |
| | | x. value mm) n (W) × Height (H) | | 24 × 10.5 × 25 | | $30.5 \times 16 \times 23.5$ (tab terminal) $30.5 \times 16 \times 26.8$ (PCB terminal) |
| Fe | atures | | 10 kV imp | sensitivity, 530 mW power consumulse withstand voltage, reinforced type (certified explosion-proof pro SPST-NO (1a) | insulation | 1-pole power relay suitable for air conditioner compressor loads and inverter loads |
| | Contact for | orm | | SPST-NO (1a) | | |
| | Contact ty | /pe | | Single | | Single |
| t. | Rated load | Resistive load | 100,000 operations at 250 VAC, 16 A | 50,000 operations at 250 VAC, 20 A | 20,000 operations at 250 VAC, 20 A | 100,000 operations min. at 250 VAC, 20 A |
| Contact | | Inductive load | | motor load: 200,000 operations min. at 250 VAC, 80 A (inrush current: 0.3 s cosØ = 0.7), 20 A (break current: cosØ = 0.9) | | |
| | Max. swite | ching current | 16 A 20 A | | | 20 A |
| | Failure rate P level (ref | e erence value) | | 5 VDC 100 mA | | |
| _ | Rated volt | age | | 5 to 24 VDC | | 12 VDC, 24 VDC |
| Coil | Power cor | nsumption | | Approx. 530 mW | | Approx. 900 mW |
| Me | chanical d | urability | | 2,000,000 operations min. | | 2,000,000 operations min. |
| | Terminal arrangement/ Internal connections | | G5PZ-1A | G5PZ-1A-E | G5PZ-1A4-E | G4A-1A-E 3 4 1 1002 Tab terminal side |
| | | | (BOTTOM VIEW) | (BOTTOM VIEW) | (BOTTOM VIEW) | (TOP VIEW)(BOTTOM VIEW) |

| М | odel | | G | ВК | | G8G | |
|---------|---|--|---|---|---|--|--|
| | | | Single type | Twin type (standalone 2-circuit type) | DC12 | type | DC24 type |
| | Outline dimensions Shape (max. value mm) | | 9.6 × 8.8 × 14.5 | 9.6 × 17.1 × 14.5 | 15 x 8 | Dv.19 | 15 × 8 × 19.1 |
| | atures | h (W) × Height (H) | Subminiature relay resistance | suitable for motor/ | | city relay suitable for moto | |
| | Contact for | orm | SPDT(1c) | SPDT(1c)×2 | SPST-NO (1a | a), SPDT(1c) | SPDT(1c) |
| | Contact t | уре | Single | Single | Sin | gle | Single |
| ਹ | Rated | Resistive load | 100,000 operations min. at 14 VDC, 5 A | 100,000 operations min. at 14 VDC, 5 A | 100,000 operations r | nin. at 14 VDC, 35 A | 100,000 operations min. at 28 VDC, 14 A |
| Contact | load | Inductive load COSØ=0.4 L/R=7 ms | 100,000 operations min. at 14 VDC, 25 A (0.3 mH) | 100,000 operations min. at 14 VDC, 25 A (0.3 mH) | 100,000 operations min. a | at 14 VDC, 32 A (0.25 mH) | 100,000 operations min. at 28 VDC, 12 A (3 mH) |
| | Max. switching current | | 25 A | 25 A | 54 | A | 20 A |
| | Failure rat P level (re | e ference value) | - | ı | _ | - | _ |
| = | Rated vol | tage | 12 VDC | 12 VDC | 12 \ | /DC | 24 VDC |
| S | Power co | nsumption | Standard type Approx. 900 mW | Standard type Approx. 900 mW | Standard type A | pprox. 480 mW | Approx. 2,560 mW |
| Me | echanical d | lurability | 1,000,000 operations min. | 1,000,000 operations min. | 1,000,000 op | erations min. | 1,000,000 operations min. |
| | | | G8K-17R | G8K-27R | G8G-17R | G8G-1A7R | G8G-1SV |
| | Terminal arrangement/ Internal connections | | 2 5 3 4 | 22 | 3(N.C.) 1(COIL) 1(COIL) 6(N.O.) Note: Connect the terminal 6 to the positive pole of the battery | 2(COIL) 4(COM) 1(COIL) 5(COM) Note: Connect the terminal 6 to the positive pole of the battery | 3(N.C.) 1(COIL) 1(COIL |
| | | | (BOTTOM VIEW) | (BOTTOM VIEW) | (BOTTO | M VIEW) | (BOTTOM VIEW) |

| М | odel | | | G7L | | |
|---------|---|--------------------|---|---|---|--|
| | | | G7L-1A(-T,-B) | G7L-2A(-T,-B) | G7L-(1,2)A-P | |
| | | | 1-pole tab/screw terminal type | 2-pole tab/screw terminal type | PCB terminal type | |
| Οι | Outline dimensions | | | | | |
| | | x. value mm) | $52.5 \times 34.5 \times 55$ | 68.5 × 33.5 × 47 | | |
| Lei | ngth (L) × Width | n (W) × Height (H) | (G7L-1A-B E-bracket mounting type) | (G7L-2A-TUB upper bracket mounting type) | 52.5 × 35.5 × 41 | |
| Fe | atures | | | power relay that withstands a momentary voer range of applications with 100 V and 200 V | | |
| | Contact form | | SPST-NO (1a) | DPST-NO (2a) | SPST-NO (1a), DPST-NO (2a) | |
| | Contact type | | Double break | | | |
| ıct | Rated load | Resistive load | 220 VAC 30A 100,000 operations min. | 100,000 operations min. at 220 VAC, 25 A | 100,000 operations min. at 220 VAC, 20 A | |
| Contact | | Inductive load | 100,000 operations min. at 220 VAC, 25 A (COSØ=0.4) | 100,000 operations min. at 220 VAC, 25 A (COSØ=0.4) | 100,000 operations min. at 220 VAC, 20 A (COSØ=0.4) | |
| | Max. swite | ching current | 30 A | 25 A | 20 A | |
| | Failure rate P level (ref | e erence value) | DC5V 100mA | | | |
| ī | Rated volt | age | | 6 to 100 VDC, 12 to 240 VAC | | |
| S | Power cor | nsumption | | DC: Approx. 1.9 W, AC: Approx. 1.7 to 2.5 VA | | |
| M | echanical d | urability | | 1,000,000 operations min. | | |
| | | | G7L-1A-B | G7L-2A-TUB | G7L-1A-P | |
| | Terminal arrangement/ Internal connections | | 0 1 | | 0 1 | |
| | | | (TOP VIEW) | (TOP VIEW) | (BOTTOM VIEW) | |

| М | odel | | G7L-PV | G6QE | G8PM |
|---|--|---|--|--|---|
| | utline dimer | nsions | State of the state | | |
| Ler | ngth (L) × Widtl | h (W) × Height (H) | 52.5 × 35.5 × 41 | 30.5 × 16 × 20.5 | 14.9 × 12.9 × 16.6 |
| Fe | atures | | Solar systemRelay for PV inverter | Miniature power relay capable of 1-pole 36 A high capacity switching | High-capacity relay suitable for motor/ resistance/lamp control |
| | Contact for | orm | DPST-NO (2a) | SPST-NO (1a) | SPST-NO (1a) |
| | Contact ty | уре | Double break | Single | Twin |
| tact | Rated load | Resistive load | 30,000 operations min. at 280 VAC, 30 A | 100,000 operations min. at 250 VAC, 30 A 50,000 operations min. at 250 VAC, 32 A 10,000 operations min. at 250 VAC, 36 A | 100,000 operations min. at 14 VDC, 45 A |
| Contact | load | Inductive 30,000 operations min. at 280 VAC, 30 α (COSØ = 0.8) | | _ | 156,000 operations min. at 14 VDC, 150 A (0.16 mH) |
| | Max. switching current | | 30 A | 36 A | 67.5 A |
| | Failure rate P level (reference value) | | 5 VDC 100mA | 5 VDC 100mA | _ |
| _ | Rated vol | tage | 12 VDC, 24 VDC | 5 to 24 VDC | 12 VDC |
| Coil | Power co | nsumption | Approx. 2.3 W Approx. 0.32 W (when applying holding voltage) | Approx. 1,400 mW Approx. 172 mW (when applying holding voltage) | Approx. 640 mW |
| Me | echanical d | lurability | 1,000,000 operations min. | 1,000,000 operations min. | 1,000,000 operations min. |
| Terminal arrangement/ Internal connections | | | G7L-2A-P-PV | G6QE-1A | G8PM-1AW7R 3 1 1 5 Note: Connect the terminals 1 and 2 to the positive pole of the battery |
| | | | (BOTTOM VIEW) | (BOTTOM VIEW) | (BOTTOM VIEW) |

| Мс | odel | | | G9TA | | G9 | TB |
|---------|---|--------------------------------------|---|--|-------------------------------------|---|----------------------------------|
| | | | G9TA-(U, K)1A-TH | G9TA-(U, K)1A-TW | G9TA-(U, K)1A-P | G9TB-(U, K)1ATH-E | G9TB-(U, K)1ATW-E |
| | | | M5 securing screw | Welding terminals | PCB terminals | M8 securing screw | Welding terminals |
| | Outline dimensions | | OSTROCT GSTA-ULATH USDS GSTA-ULATH USDS GSTA-ULATH USDS IN RUDGHEGA | Omportative Comportative Compor | | CORROR CORRECTATIVE 1200C | COMPON OSTER STATIVE 12VDC |
| | | ax. value mm) th (W) × Height (H) | 39.1 × 18 × 34.5 | 39.1 × 18 × 34.5 | 39.1 × 18 × 36.7 | 49 5 4 90 | 2.5 × 37.5 |
| | atures | ur (vv) x Height (F) | | 60A AC power latching relay | | | er latching relay |
| | Contact f | orm | | SPST-NO (1a) | • | <u>'</u> | NO (1a) |
| | Contact t | уре | | Single | | Sir | igle |
| Contact | Rated Resistive load | | 5,000 | operations min. at 250 VAC | C, 60 A | 10,000 operations min. at 276 VAC, 120 A | |
| lö | load | Inductive load | 5,000 opera | tions min. at 250 VAC, 60 A | (COSØ=0.5) | 5,000 opearions, 276 VAC, 100 A | |
| | | tching current | | 60 A | | 12 | 0 A |
| | Failure rate (mA) P level (reference value) | | | _ | | | _ |
| - | Rated vo | Itage | 12 V | | | | 2 V |
| Soji | Power co | nsumption | | 1,000 mW (Single-winding 2,600 mW (Double-winding | | Approx. 2,700 mW (Single-winding latching) Approx. 5,400 mW (Double-winding latching) | |
| Me | echanical c | durability | | 100,000 operations min. | | 100,000 operations min. | |
| | | | G9TA-U1ATH | G9TA-U1ATW | G9TA-U1AP | G9TB-U1ATH-E | G9TB-U1ATW-E |
| | Terminal arrangement/ Internal connections | | + S . 1 2 3 4 0 0 0 0 | + S . - R + 1 2 3 4 | 0 0 0 0 1 2 3 4 + S - R + | 1 2 0 0 | 1 2 0 |
| | | | (TOP VIEW) | (TOP VIEW) | (BOTTOM VIEW) | (TOP VIEW) | (TOP VIEW) |
| Int | | | G9TA-K1ATH | G9TA-K1ATW | G9TA-K1AP | G9TB-K1ATH-E | G9TB-K1ATW-E |
| | | | 1 2 3 4 5 O O O O O | 1 2 3 4 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0-0 0-0-0 1 2 3 4 5 + S · R + | 5 Q S 4 Q F 4 Q F 3 Q | 5 OHO: s 4 4 HO: f 3 O |
| | | | (TOP VIEW) | (TOP VIEW) | (BOTTOM VIEW) | (TOP VIEW) | (TOP VIEW) |

| Мс | odel | | | | G7EB | |
|---|----------------------------|----------------------|---|---|---|--|
| | | | Standa | rd type | High capacity type | |
| Outline dimensions Shape (max. value mm) Length (L) x Width (W) x Height (H) | | ax. value mm) | | 50.5 | × 40.5 × 37 | |
| Features | | | 480 VAC high-temperature con switching Supports normal/reverse (Contact gap o | capacity polarity DC load switching | High temperature compatible power relay with 480 VAC 100 A switching Supports normal/reverse polarity DC load switching at rated carry current of 120 A (Contact gap of 3.6 mm min.) | |
| | Contact f | orm | | SPS | ST-NO (1a) | |
| | Contact t | ype | | Dou | ible break | |
| Contact | Rated load | Resistive load | (1) 300 operations at 480 VAC, 1 (2) 30,000 operations at 800 VAC 100 A (carry current) (3) 400 operations at 60 VDC, 10 (4) 1,000 operations at 60 VDC, 5 (5) 6,000 operations at 60 VDC, 4 (Switching frequency: ON for 1 s | c, 40 A (switch on, switch off), 0 A 50 A 40 A | (1) 300 operations at 480 VAC, 100 A (2) 30,000 operations at 800 VAC, 40 A (switch on, switch off), 100 A (carry current) (3) 400 operations at 60 VDC, 100 A (4) 1,000 operations at 60 VDC, 50 A (5) 6,000 operations at 60 VDC, 40 A (6) 30,000 operations at 800 VAC, 40 A (switch on, switch off), 120 A (carry current) (Switching frequency: ON for 1 sec, OFF for 9 sec, 85°C) | |
| | | Inductive load | | | _ | |
| | Max. swit | ching current | | | 100 A | |
| | Failure rat P level (re | te ference value) | 5 VDC 1 A | | | |
| | Rated vol | ltage | | 12 VE | DC, 24 VDC | |
| Coil | Power co | nsumption | | | k. 2,800 mW en applying holding voltage) | |
| Me | echanical d | durability | | 1,000,000 | operations min. | |
| | | | Standard type | G7EB-1A | G7EB-1A-E | |
| | | | Special terminal type | G7EB-1AP1 | G7EB-1AP1-E | |
| Terminal arrangement/ Internal connections | | • | | 3 | | |

| М | odel | | G9 |)KA | |
|---------|---|--------------------------|---|---|--|
| | | | Standard type | High capacity type | |
| | Shape (max. value mm) Length (L) x Width (M) x Height (H) 51 x 51 x 47.2 51 x | | 51 × 51 × 56.7 | | |
| LCI | igiii (L) × vvidii | r (vv) × r reigitt (r i) | High capacity power relay with 800 VAC 200 A breaking and | High-capacity power relay with 1,000 VAC 300 A breaking and | |
| Fe | atures | | ultra-low contract resistance Contact gap of 4.0 mm min. (Compliant to the photovoltaic standard VDE0126) | ultra-low contract resistance Contact gap of 4.0 mm min. (Compliant to the photovoltaic standard VDE0126) | |
| | Contact for | orm | SPST- | NO (1a) | |
| | Contact ty | /ре | Double | e break | |
| Contact | Rated load | Resistive load | High-capacity power relay with 800 VAC 200 A breaking and ultra-low contract resistance Contact gap of 4.0 mm min. (Compliant to the photovoltaic standard VDE0126) | 30,000 operations at 1,000 VAC, 50 A (switch on), 300 A (carry current), 50 A (switch off) 10 operations at 1,000 VAC, 150 A (switch on), 300 A (carry current), 300 A (switch off) | |
| Ŏ | | Inductive load | _ | _ | |
| | Max. swite | ching current | 200 A | 300 A | |
| | Failure rate P level (ref | e erence value) | 5 VDC, 1 A (M level) | 5 VDC, 1 A (M level) | |
| | Rated volt | age | 12 VDC, 24 VDC | 12 VDC, 24 VDC | |
| Coil | Power cor | nsumption | Approx. 5,000 mW Approx. 1,012 mW (when applying holding voltage) | Approx. 5,000 mW Approx. 1,012 mW (when applying holding voltage) | |
| Me | chanical d | urability | 100,000 operations min. | 100,000 operations min. | |
| | Terminal arrangement/ Internal connections | | G9KA-1A 2 0 3 | G9KA-1A-E | |
| | | | (BOTTOM VIEW) | (BOTTOM VIEW) | |

Power Relay (10 to 200 A (200 VDC min.); DC high voltage) Product Lineup INDEX

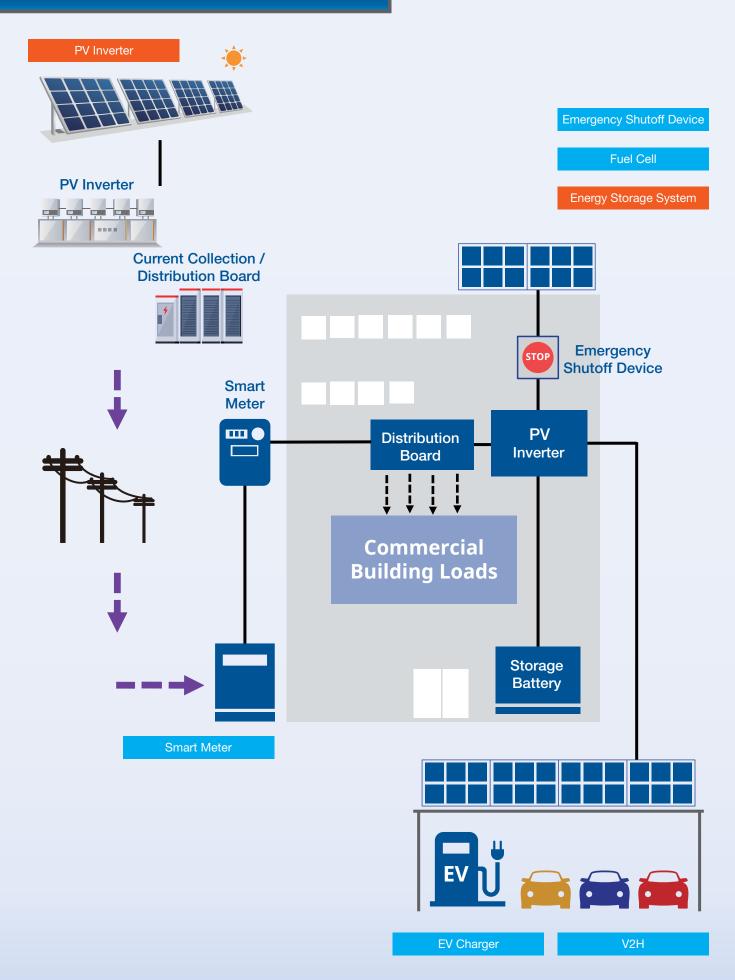
| Model | | | G2RG-X | G9E | G5PZ-X | | |
|---|--|--|--|--|---|---|--|
| | | | | G9EJ-1-P-E G9EJ-1-E | | | |
| | | | | PCB terminal | Tab terminal | | |
| Outline dimensions | | | | The state of the s | | | |
| | | ax. value mm) th (W) × Height (H) | 29 × 23.5 × 29.5 | 31.5 × 27.5 × 32.7 44.5 × 27.5 × 30.5 | | 26.4 × 15.2 × 29.5 | |
| Features | | | Miniature power relay capable of 500 VDC, 10 A high-voltage DC switching (2-pole series wiring with 1a contact) | Miniature power relay capable of switching 400 VDC 15 A loads Miniature power relay capable of switching 400 VDC 15 A loads | | Miniature power relay capable of bi-directional switching at 200 VDC, 20 A The product also enables 400 VDC 20 A bi-directional switching with 2-contact series connection | |
| | Contact form | | DPST-NO (2a) (with 2-pole series wiring) | SPST-NO (1a) | | SPST-NO (1a) | |
| | Contact type | | Single | Double | Single | | |
| ıct | Rated | Resistive load | 10,000 operations at 500 VDC, 10 A 30,000 operations at 500 VDC, 1 A | | | 200 VDC, 20 A (1-contact connection) 400 VDC, 20 A (2-contact connection) | |
| Contact | load | Inductive load | - | - | | _ | |
| | Max. switching current | | 10 A 8 A (carry current) | 15 A | | 20 A | |
| | Failure ra P level (re | eference value) | _ | _ | | | |
| Coil | Rated vo | | 12 VDC, 24 VDC | 12 VDC, 24 VDC | | 12 VDC, 24 VDC | |
| - | Power co | onsumption durability | Approx. 800 mW 1,000,000 operations min. | Approx. 1.2 W 200,000 operations min. | | Approx. 530 mW 2,000,000 operations min. | |
| IVIC | CHarloar | aurability | G2RG-2A-X | G9EJ-1-P-E-UVD | G9EJ-1-E-UVD | G5PZ-1A-X | |
| Terminal arrangement/ Internal connections | | | 91 36 49 8 66 53-(c) | 4 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 4 3 0 0 1 0 2(-) (+)1 | | |
| | | | Use this product in a 2-pole series connection. (BOTTOM VIEW) | (BOTTOM VIEW) | (BOTTOM VIEW) | (BOTTOM VIEW) | |
| | | | | | (BOTTOW VIEW) | | |
| N 4 - | -1-1 | | (BOTTOW VIEW) | , | (BOTTOW VILW) | , , | |
| Мс | odel | | Standard type | G7L-X Low contact resistance type | General purpose type | G9KB | |
| Ou | itline dime | | , | G7L-X | , | , | |
| Ou | itline dime | ensions ax. value mm) tth (W) × Height (H) | , | G7L-X | , | , | |
| Ou | stline dime Shape (m ligth (L) × Wid atures | ax. value mm) tth (W) × Height (H) | Standard type | G7L-X Low contact resistance type 52.5 × 35.5 × 41 00 to 1,000 VDC isolation/switchin thanks to 2-pole series wiring | General purpose type | G9KB 50.5 × 37 × 50.5 High-capacity power relay capable of bi-directional switching at 600 VDC, 50 A Contact gap of 3.6 mm min. Achieves an initial low contact resistance of 5 mΩ max. | |
| Ou | Shape (m gth (L) × Wid atures | ax. value mm) tth (W) × Height (H) | Standard type | G7L-X Low contact resistance type 52.5 × 35.5 × 41 00 to 1,000 VDC isolation/switchin thanks to 2-pole series wiring ST-NO (2a) (with 2-pole series wiring | General purpose type | G9KB 50.5 × 37 × 50.5 High-capacity power relay capable of bi-directional switching at 600 VDC, 50 A Contact gap of 3.6 mm min. Achieves an initial low contact resistance of 5 mΩ max. SPST-NO (1a) | |
| Ou Len | stline dime Shape (m ligth (L) × Wid atures | ax. value mm) tth (W) × Height (H) | Standard type 6i DP (Normal 100 operations at 6,000 operations (Reverse | G7L-X Low contact resistance type 52.5 × 35.5 × 41 00 to 1,000 VDC isolation/switchir thanks to 2-pole series wiring ST-NO (2a) (with 2-pole series wiring Double break polarity) 1,000 VDC, 25 A at 600 VDC, 30 A | General purpose type | G9KB 50.5 × 37 × 50.5 High-capacity power relay capable of bi-directional switching at 600 VDC, 50 A Contact gap of 3.6 mm min. Achieves an initial low contact resistance of 5 mΩ max. | |
| Ou | Shape (m gth (L) x Wid atures Contact (| ax. value mm) tth (W) × Height (H) form type Resistive load Inductive | Standard type 6i DP (Normal 100 operations at 6,000 operations (Reverse | G7L-X Low contact resistance type 52.5 × 35.5 × 41 00 to 1,000 VDC isolation/switchin thanks to 2-pole series wiring ST-NO (2a) (with 2-pole series wirin Double break polarity) 1,000 VDC, 25 A at 600 VDC, 30 A polarity) | General purpose type (Normal polarity) 100 operations at 1,000 VDC, 20 A 6,000 operations at 600 VDC, 20 A (Reverse polarity) | G9KB 50.5 × 37 × 50.5 High-capacity power relay capable of bi-directional switching at 600 VDC, 50 A Contact gap of 3.6 mm min. Achieves an initial low contact resistance of 5 mΩ max. SPST-NO (1a) Double break 2,000 operations at 600 VDC, 50 A | |
| Ou Len | Shape (m ggth (L) x Wid atures Contact t Contact t Rated load | ax. value mm) tth (W) × Height (H) form type Resistive load | Standard type 6i DP (Normal 100 operations at 6,000 operations (Reverse | G7L-X Low contact resistance type 52.5 × 35.5 × 41 00 to 1,000 VDC isolation/switchin thanks to 2-pole series wiring ST-NO (2a) (with 2-pole series wirin Double break polarity) 1,000 VDC, 25 A at 600 VDC, 30 A polarity) at 600 VDC, -30A | General purpose type (Normal polarity) 100 operations at 1,000 VDC, 20 A 6,000 operations at 600 VDC, 20 A (Reverse polarity) | G9KB 50.5 × 37 × 50.5 High-capacity power relay capable of bi-directional switching at 600 VDC, 50 A Contact gap of 3.6 mm min. Achieves an initial low contact resistance of 5 mΩ max. SPST-NO (1a) Double break 2,000 operations at 600 VDC, 50 A | |
| Ou Len | Shape (m igth (L) x Wid atures Contact i Contact i Rated load Max. swi | ax. value mm) Ith (W) × Height (H) form type Resistive load Inductive load Itching current | Standard type 60 DP (Normal 100 operations at 6,000 operations (Reverse 5,000 operations | G7L-X Low contact resistance type 52.5 × 35.5 × 41 00 to 1,000 VDC isolation/switchin thanks to 2-pole series wiring ST-NO (2a) (with 2-pole series wirin Double break polarity) 1,000 VDC, 25 A at 600 VDC, 30 A polarity) at 600 VDC, -30A | (Normal polarity) 100 operations at 1,000 VDC, 20 A 6,000 operations at 600 VDC, 20 A (Reverse polarity) 5,000 operations at 400 VDC, -20A | G9KB 50.5 × 37 × 50.5 High-capacity power relay capable of bi-directional switching at 600 VDC, 50 A Contact gap of 3.6 mm min. Achieves an initial low contact resistance of 5 mΩ max. SPST-NO (1a) Double break 2,000 operations at 600 VDC, 50 A 100,000 operations at 600 VDC, 1 A | |
| Coutact | Shape (m igth (L) x Wid atures Contact i Contact i Rated load Max. swi | ax. value mm) ith (W) × Height (H) form type Resistive load Inductive load itching current tte eference value) | Standard type 60 DP (Normal 100 operations at 6,000 operations (Reverse 5,000 operations | G7L-X Low contact resistance type 52.5 × 35.5 × 41 00 to 1,000 VDC isolation/switchin thanks to 2-pole series wiring ST-NO (2a) (with 2-pole series wirin Double break polarity) 1,000 VDC, 25 A at 600 VDC, 30 A polarity) at 600 VDC, -30A | (Normal polarity) 100 operations at 1,000 VDC, 20 A 6,000 operations at 600 VDC, 20 A (Reverse polarity) 5,000 operations at 400 VDC, -20A | G9KB 50.5 × 37 × 50.5 High-capacity power relay capable of bi-directional switching at 600 VDC, 50 A Contact gap of 3.6 mm min. Achieves an initial low contact resistance of 5 mΩ max. SPST-NO (1a) Double break 2,000 operations at 600 VDC, 50 A 100,000 operations at 600 VDC, 1 A | |
| Ou Len | Shape (mgth (L) x Wid atures Contact the | ax. value mm) th (W) × Height (H) form type Resistive load Inductive load ttching current tte eference value) | Standard type OP (Normal 100 operations at 6,000 operations (Reverse 5,000 operations 300 oper | G7L-X Low contact resistance type 52.5 × 35.5 × 41 D0 to 1,000 VDC isolation/switchin thanks to 2-pole series wiring ST-NO (2a) (with 2-pole series wiring Double break polarity) 1,000 VDC, 25 A at 600 VDC, 30 A polarity) at 600 VDC, -30A | General purpose type (Normal polarity) 100 operations at 1,000 VDC, 20 A 6,000 operations at 600 VDC, 20 A (Reverse polarity) 5,000 operations at 400 VDC, -20A | G9KB 50.5 × 37 × 50.5 High-capacity power relay capable of bi-directional switching at 600 VDC, 50 A Contact gap of 3.6 mm min. Achieves an initial low contact resistance of 5 mΩ max. SPST-NO (1a) Double break 2,000 operations at 600 VDC, 50 A 100,000 operations at 600 VDC, 1 A 50 A 5 VDC 1A 12 VDC, 24 VDC Approx. 2,800 mW | |
| Coil Contact | Shape (mgth (L) x Wid atures Contact the | ax. value mm) ith (W) × Height (H) form type Resistive load Inductive load Itching current tite eference value) oltage consumption | Standard type OP (Normal 100 operations at 6,000 operations (Reverse 5,000 operations 300 oper | G7L-X Low contact resistance type 52.5 × 35.5 × 41 20 to 1,000 VDC isolation/switchin thanks to 2-pole series wiring ST-NO (2a) (with 2-pole series wiring Double break polarity) 1,000 VDC, 25 A at 600 VDC, 30 A polarity) at 600 VDC, -30A — 1A — 12 VDC, 24 VDC | General purpose type (Normal polarity) 100 operations at 1,000 VDC, 20 A 6,000 operations at 600 VDC, 20 A (Reverse polarity) 5,000 operations at 400 VDC, -20A | G9KB 50.5 × 37 × 50.5 High-capacity power relay capable of bi-directional switching at 600 VDC, 50 A Contact gap of 3.6 mm min. Achieves an initial low contact resistance of 5 mΩ max. SPST-NO (1a) Double break 2,000 operations at 600 VDC, 50 A 100,000 operations at 600 VDC, 1 A - 50 A 5 VDC 1A 12 VDC, 24 VDC | |
| Ou Len Coutact Ter | shape (might (L) x Wid atures Contact of Co | ax. value mm) ith (W) × Height (H) form type Resistive load Inductive load Itching current tite eference value) oltage onsumption durability | Standard type OP (Normal 100 operations at 6,000 operations (Reverse 5,000 operations 300 operations 400 oper | G7L-X Low contact resistance type 52.5 × 35.5 × 41 00 to 1,000 VDC isolation/switchir thanks to 2-pole series wiring ST-NO (2a) (with 2-pole series wiring Double break polarity) 1,000 VDC, 25 A at 600 VDC, 30 A polarity) at 600 VDC, -30A — 12 VDC, -30A — 12 VDC, 24 VDC Approx. 2.3 W x. 0.6 W (when applying holding volume and some content of the content o | General purpose type (Normal polarity) 100 operations at 1,000 VDC, 20 A 6,000 operations at 600 VDC, 20 A (Reverse polarity) 5,000 operations at 400 VDC, -20A 20 A oltage) G7L-2A-X-L | G9KB 50.5 × 37 × 50.5 High-capacity power relay capable of bi-directional switching at 600 VDC, 50 A Contact gap of 3.6 mm min. Achieves an initial low contact resistance of 5 mΩ max. SPST-NO (1a) Double break 2,000 operations at 600 VDC, 50 A 100,000 operations at 600 VDC, 1 A | |

| M | Model | | G9E | A-1 | G9E | G9EH-1 | | |
|---|--|----------------|---|---|--|--|--|--|
| | | | G9EA-1(-B) | G9EA-1(-B)-CA | G9EC-1(-B) | G9EC-1-B-X1 | G9EH-1 | |
| | | | Switching, carry current type | High current carry type | Switching, carry current type | Switching, carry current type | Switching, carry current type | |
| | | | | | | 44 60 767 | | |
| \vdash | | | 73.5 × 36 | .5 × 61.1 | 99 x 44. Supports DC load | 111 × 60 × 76.7 Supports DC load | | |
| F | Features | | Supports DC load interruption at high voltage and current | | interruption at high voltage and current of 400 VDC, 200 A | Supports DC load interruption at high voltage and current of 1,000 VDC, 150 A | interruption at high voltage and current of 400 VDC, 300 A | |
| | Contact form | | SPST-NO (1a) | | SPST-NO (1a) | SPST-NO (1a) | SPST-NO (1a) | |
| Contact | Contact type | | Double break | | Double break | Double break | Double break | |
| | Rated load | Resistive load | 3,000 operations min. at 400 VDC, 60 A 3,000 operations min. at 120 VDC, 100 A | 1,000 operations min. at 400 VDC, 30 A | 3,000 operations min. at 400 VDC, 200 A | 1,000 VDC, 100 A (6,000 operations min.) 1,000 VDC, 150 A (1,000 operations min.) | 3,000 operations min. at 400 VDC, 200 A 1,000 operations min. at 400 VDC, 300 A | |
| 0 | | Inductive load | - | | _ | _ | _ | |
| | Max. swite | ching current | 60 A 100 A | | 200 A | 200 A | 300 A | |
| | Failure rate P level (reference value) | | _ | | - | _ | _ | |
| Soil | Rated voltage | | 12 to 100 VDC | | 12 to 100 VDC | 12 VDC, 24 VDC | 12 VDC, 24 VDC | |
| Ŏ | Power cor | nsumption | Approx. 5 to 5.4 W | | Approx. 11 W | Approx. 7 W | Approx. 7 W | |
| M | Mechanical durability | | 200,000 operations min. | | 200,000 operations min. | 200,000 operations min. | 200,000 operations min. | |
| Terminal arrangement/ Internal connections | | | G9EA-1(-B) 1(+) 2(-) 7 ■ 8 | G9EA-1(-B)-CA 1(+) | G9EC-1(-B) 1(+) 2(-) 7 | G9EC-1-B-X1 1(+) 2(-) 7 | G9EH-1 1(+) 0 2(-) | |
| | | | (TOP VIEW) | (TOP VIEW) | (TOP VIEW) | (TOP VIEW) | (TOP VIEW) | |

List of common sockets

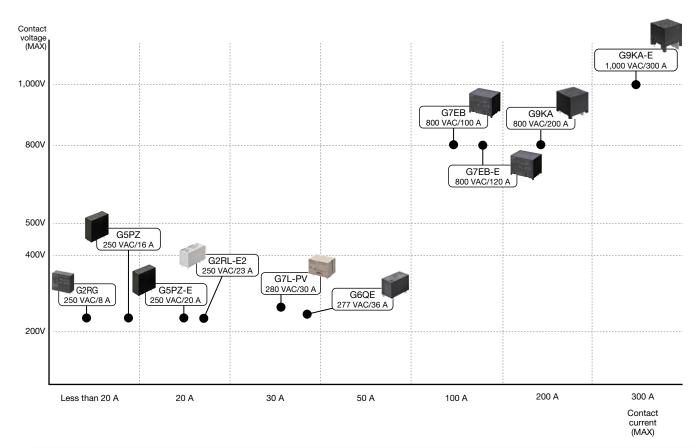
| Model | G6B | | | G6C | | G6D | G7L |
|--------------------|--------------|---|---|--|---|--------------|-------------------------------|
| Contact form | SPST-NO (1a) | | SPST-NO (1a) +SPST-NC (1b), DPST-NO (2a), DPST-NC (2b) | SPST-NO (1a), SPST-NO (1a)+SPST-NC (1b) | | SPST-NO (1a) | SPST-NO (1a), DPST-NO (2a) |
| Applicable socket | P6B-04P | P6B-06P (Double-winding latching type compatible) | P6B-26P | P6C-06P | P6C-08P (Double-winding latching type compatible) | P6D-04P | P7LF-06 |
| Outline dimensions | | | | | | | |

Environment and Energy



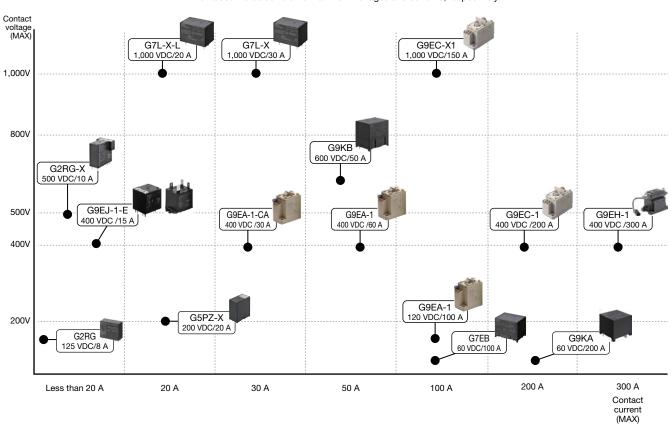
High Voltage, Large Current AC Relay Lineup*

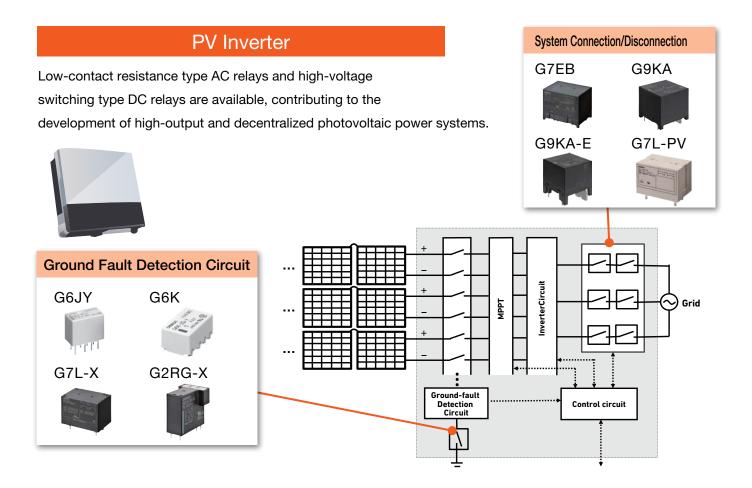
*The values indicated refer to maximum voltages and currents, respectively.



High Voltage, Large Current DC Relay Lineup*

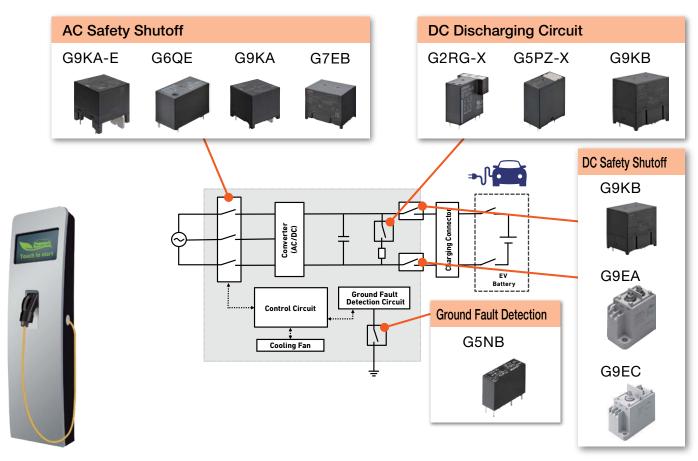
*The values indicated refer to maximum voltages and currents, respectively.





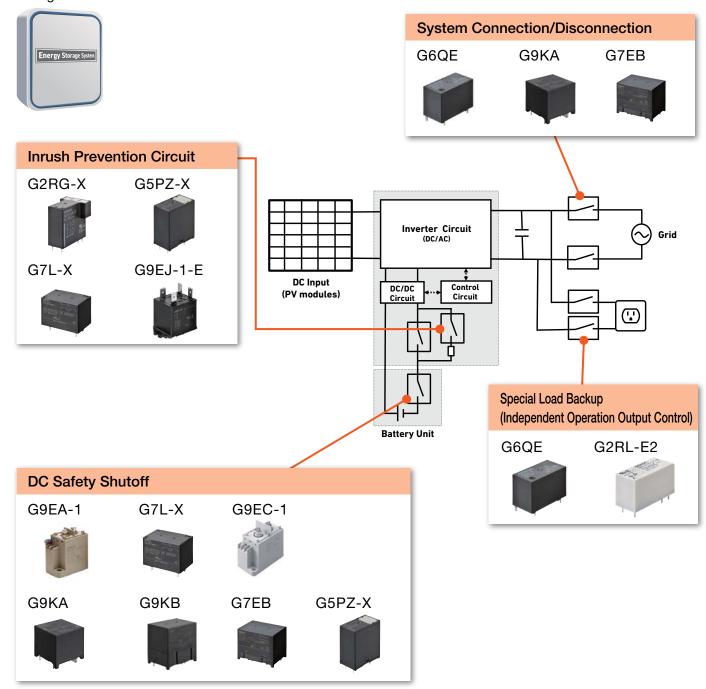
DC Fast Charger

DC fast chargers are used in locations, e.g. the expressway service areas, where short-duration charging is required. (Mode4 DC Charging)



Energy Storage System

Available in a wide range of contact voltages and currents to meet a growing demand for energy storage solutions.





Illumination

HVAC Controller

Illumination, Smart Panel/Plug

Dimmer Power Supply and Output, Illumination Switch G5RL-LN G5RL-TV8

Power Supply Changeover G6B









Commercial Air Conditioning System



Floor Heating, Temperature Regulation

Fire Alarm



Bathroom and Toilet

Floor Heating, Temperature Regulation

Heater Operation

G5RL-LN G2RL(-E) G2RL-E2







Bathroom and Toilet

Oil Feed and Boiler Control

G5Q G6RN





Signal Receiver

G6S G6J-Y G6K







Commercial Air Conditioning System

Power Supply Switching

G5PZ G6QE G7EB



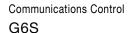






G6S

G9KA







Exterior Light Control

G8G



Fire Alarm

Alarm Output for Abnormality Signal





G6J-Y



G6K



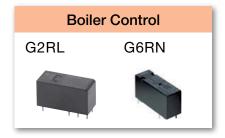
HVAC Controller (Controller for Cooling and Heating Equipment in a Building)

This series of miniature and high switching capacity power relays helps deliver increased sophistication in terms of control of air flow and temperature in air conditioning equipment, contributing to the creation of a cleaner and more comfortable environment.







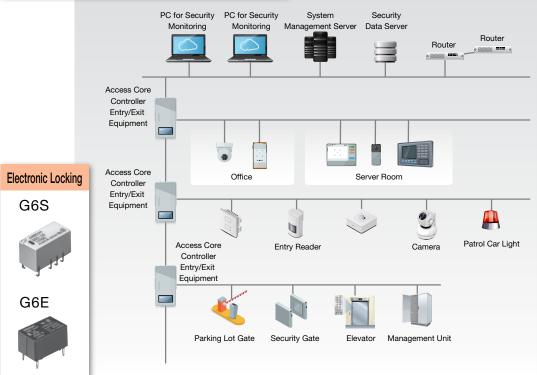


Access Signal Control, Abnormality Alarm Output

G6J-Y G6K G6S

Access Control System

Despite its subminiature size, the product helps deliver safe and secure control systems focused on signal relays with excellent contact reliability and insulation performance.



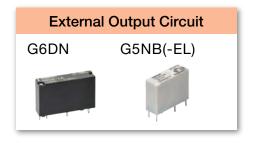


Factory Automation



Programmable Controller

By providing miniature and slim output power relays with excellent switching performance for use in FA systems, OMRON is contributing to the evolution of manufacturing.

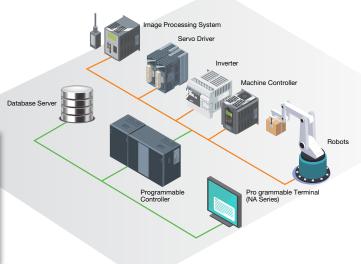


Robot Controller

OMRON supports the evolution of robotics technology through its extensive product lineup, covering everything from power supply switching to control functionality.





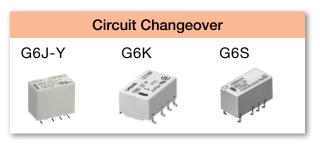


High-Voltage DC Power Supply

From control signal changeover to DC high current breaking.

OMRON products can be used in a wide range of applications, satisfying demands for new and innovative solutions.







Semiconductor Inspection Device

OMRON's comprehensive range of subminiature high-density mounting type signal relays and high frequency relays with superior characteristics will support the ever advancing semiconductor manufacturing and inspection processes with high reliability.





Servo Inverter

Miniature and high capacity relays allow for the miniaturization design in pursuit of greater cost effectiveness, regardless of the capacity of the device itself.









Please check each region's Terms & Conditions by region website.

OMRON Corporation

Device & Module Solutions Company

Regional Contact

Americas

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https://components.omron.com/ap

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https://components.omron.com/kr

Europe

https://components.omron.com/eu

China

https://components.omron.com.cn

Japan

https://components.omron.com/jp