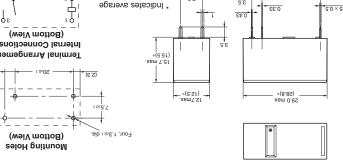
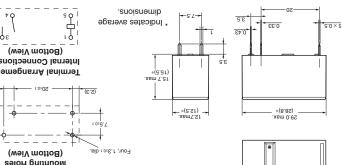
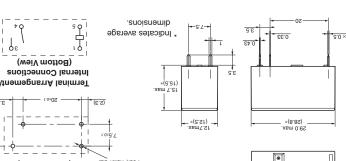
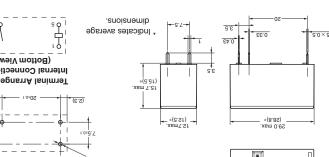
PCB Power Relay - G5RL

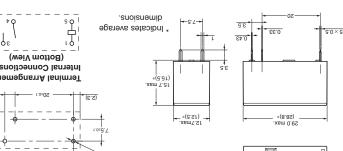
Note: All units are in millimetres unless otherwise indicated.

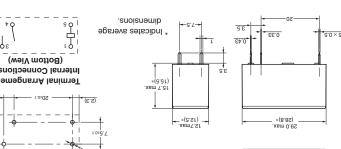


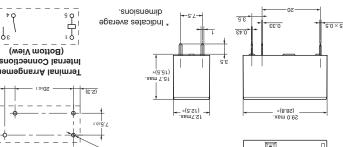


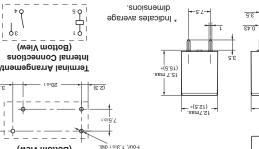


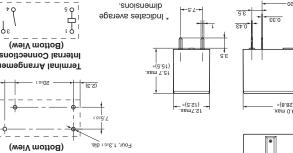


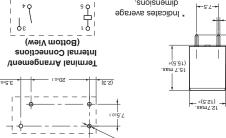








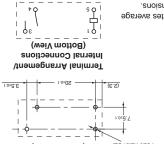






(мыл шолоа)

Mounting Holes



- snoisnamia

PCB Power Relay - G4W

G4W-2212P-US-TV5

DPST-NO

8. Rated Coil Voltage 12, 24, 100 VDC Full-wave rectifier None: General purpose

7. Special Function

egnitsA VT .8 8-VT :8VT 8-VT :8VT

G4W-1112P-US-TV8

ON-TS98

Rated coil voltage

5. Approved Standards
US: UL, CSA certified

1 2 3 4 6 7 8

Note: When ordering, add the rated coil voltage to the model number.

Example: G4W-1112P-US-TV8 12 VDC

Contacts

PCB (straight)

1. Contact Form

SPST-NO SPST-NO :SS

2. Contact Type

General purpose

Mounting style

■ ROHS compliant.

Switching

Straight PCB

Onsealed

Single Button

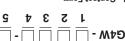
Ordering Information -

■ International 2.54mm terminal pitch.

■ DPST-NO types conform to TV-5 rating. ■ SPST-NO types conform to TV-8 rating. ■ Dielectric strength of 4,000 VAC min. ■ Creepage distance of 8 mm min.

Strength: Ideal for Power Supply as 10 kV with 4kV Dielectric

Impulse Withstand Voltage as High

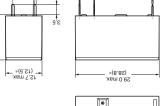






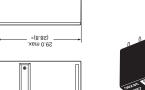
aimensions.

* Indicates average



To convert millimetres into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

All technical performance data applies to the product as such; specific conditions of individual applications are not considered. Always check the suitability of the product for your intended purpose. OMROM does not assume any responsibility or liability for noncompliance check the suitability of the product for your intended purpose. OMROM does not assume any responsibility or liability for noncompliance check the suitability of the product for your intended purpose. OMROM does not assume any responsibility for noncompliance.



ALL DIMENSIONS SHOWN ARE IN MILLIMETRES.

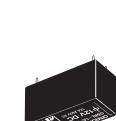
When mounting a G5RL-LN Relay (Silent Relay) on a PCB, use a diode for surge absorption for the coil.

G5RL-1A-E-LN

144

CAT. No. K132-E2-01-X

9 Mounting ■ Precautions -





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PCB Power Relay - G4W

Weight

■ Characteristics

| Varibimun traeidmA | | Operating: 5% to 85% RH |
|--------------------------|-----------------|--|
| Ambient temperature | ıre | Operating: -25°C to 55°C (with no icing) |
| Endurance | | Mechanical: 5,000,000 operations min. (at 18,000 operations/hr) Electrical: 1,00,000 operations min. (at 1,800 operations/hr) |
| Shock resistance | | Pestruction, 1,000 m/s² Malfunction; 150 m/s² |
| Vibration resistance | ə | Destruction: 10 to 56 to 10 Hz, 0.75mm single amplitude (1.5mm double amplitude) Malfunction: 10 to 56 to 10 Hz, 0.75mm single amplitude (1.5mm double amplitude) |
| lov bnstantiw ealuqml | voltage | 10,000 V (1.2 x 50 µs) between coil and contacts |
| Tracking Resistance (| (ITO) 93 | V 871 |
| Distance | Clearance (Typ) | mm 0.8 |
| | Creepage (Typ) | mm 0.8 |
| Dielectric strength | | 4,000 VAC, 50/60 Hz for 1 min between coil and contacts 2,000 VAC, 50/60 Hz for 1 min between contacts of different polarities (DPST-NO) 1,500 VAC, 50/60 Hz for 1 min between contacts of same polarity |
| Insulation resistance | 90 | 100 MΩ max. (at 500 VDC) |
| Max. Operating Frequency | | Mechanical: 18,000 operations/hr (under rated load) Electrical: 1,800 operations/hr (under rated load) |
| Bounce time | | Operate: approx. 3 ms |
| Release time | | 5 ms max. (mean value: approx. 2.5 ms) |
| Operate time | | 20 ms max. (mean value: approx. 13 ms) |
| Contact resistance | • | .хвт Фт Об |

Approx. 29 g

bcB bower Relay - G4W

Specifications –

■ Coil Ratings Single-side Stable Type

| 2021 + 30 cognition of the contract line of the bounded are cognitive and part from the part and the contract line of the contract line | | | | | | |
|--|--------------|---------------------------------|---------|-----------------|--|--|
| Power consum | noitqu | Wm 008 .xorqqA | | | | |
| Max. voltage | | 130% of rated voltage (at 23°C) | | | | |
| Must release v | oltage | 10% min. of rated voltage | | | | |
| Must operate | oltage | 80% max. of rated voltage | | | | |
| (H) (ref. value) | MO enutermA | 39.f | 4.9 | 901 | | |
| Soil inductance | 44O enutermA | 86.0 | 7.8 | 8.18 | | |
| Coil resistance | | 180 2 | 720 22 | 12,500 \argamma | | |
| Rated current | | Am 7.88 | Am 8.88 | Am 8 | | |
| Rated voltage | | 15 VDC | 54 ADC | 100 VDC | | |
| | | | | | | |

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of ±15%. S. Operating characteristics are measured at a coil temperature of 23°C.

■ Contact Ratings

| aniteranolofity titl – fiat flavel 9 - and | | | | | |
|--|------------------------------------|---|-----------------------------------|---|--|
| Failure rate (reference value) | 100 mA at 5 VDC | | | | |
| Max. switching power | W 37£ ,AV 03T,£ | W 252 ,AV 002,S | 2,500 VA, 240 W | W 021 ,AV 038,1 | |
| Max. switching current | A31 | | A01 | | |
| Max. switching voltage | 250 VAC, 125 VDC | | | | |
| Rated carry current | Aðf | | A0f | | |
| Contact material | nln2gA | | | | |
| baol bateR | 15A at 250 VAC; 15A at 24 VDC | 10A at 250 VAC; 7.5A at 24 VDC | 10A at 250 VAC; 10A at 24 VDC; | 7.5A at 250 VAC; 5A at 24 VDC | |
| реод | Resistive load $(1 = \varphi soo)$ | Inductive load (cosp = 0.4; L/R = 7 ms) | Resistive load (f = \$\phi sos) | Inductive load (cos ϕ = 0.4; L/R = 7 ms) | |
| mətl | ON-TS48 | | DPST-NO | | |

Note: P level: $\lambda 60 = 0.1 \times 10^{-0}$ /operation

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PCB Power Relay - G4W

Weight

■ Characteristics

| Varibimun traeidmA | | Operating: 5% to 85% RH |
|--------------------------|-----------------|--|
| Ambient temperature | ıre | Operating: -25°C to 55°C (with no icing) |
| Endurance | | Mechanical: 5,000,000 operations min. (at 18,000 operations/hr) Electrical: 1,00,000 operations min. (at 1,800 operations/hr) |
| Shock resistance | | Pestruction, 1,000 m/s² Malfunction; 150 m/s² |
| Vibration resistance | ə | Destruction: 10 to 56 to 10 Hz, 0.75mm single amplitude (1.5mm double amplitude) Malfunction: 10 to 56 to 10 Hz, 0.75mm single amplitude (1.5mm double amplitude) |
| lov bnstantiw ealuqml | voltage | 10,000 V (1.2 x 50 µs) between coil and contacts |
| Tracking Resistance (| (ITO) 93 | V 871 |
| Distance | Clearance (Typ) | mm 0.8 |
| | Creepage (Typ) | mm 0.8 |
| Dielectric strength | | 4,000 VAC, 50/60 Hz for 1 min between coil and contacts 2,000 VAC, 50/60 Hz for 1 min between contacts of different polarities (DPST-NO) 1,500 VAC, 50/60 Hz for 1 min between contacts of same polarity |
| Insulation resistance | 90 | 100 MΩ max. (at 500 VDC) |
| Max. Operating Frequency | | Mechanical: 18,000 operations/hr (under rated load) Electrical: 1,800 operations/hr (under rated load) |
| Bounce time | | Operate: approx. 3 ms |
| Release time | | 5 ms max. (mean value: approx. 2.5 ms) |
| Operate time | | 20 ms max. (mean value: approx. 13 ms) |
| Contact resistance | • | .хвт Фт Об |

Approx. 29 g

bcB bower Relay - G4W

Specifications –

■ Coil Ratings Single-side Stable Type

| 2021 + 30 cognition of the contract line of the bounded are cognitive and part from the part and the contract line of the contract line | | | | | | |
|--|--------------|---------------------------------|---------|-----------------|--|--|
| Power consum | noitqu | Wm 008 .xorqqA | | | | |
| Max. voltage | | 130% of rated voltage (at 23°C) | | | | |
| Must release v | oltage | 10% min. of rated voltage | | | | |
| Must operate | oltage | 80% max. of rated voltage | | | | |
| (H) (ref. value) | MO enutermA | 39.f | 4.9 | 901 | | |
| Soil inductance | 44O enutermA | 86.0 | 7.8 | 8.18 | | |
| Coil resistance | | 180 2 | 720 22 | 12,500 \argamma | | |
| Rated current | | Am 7.88 | Am 8.88 | Am 8 | | |
| Rated voltage | | 15 VDC | 54 ADC | 100 VDC | | |
| | | | | | | |

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of ±15%. S. Operating characteristics are measured at a coil temperature of 23°C.

■ Contact Ratings

| aniteranolofity titl – fiat flavel 9 - and | | | | | |
|--|------------------------------------|---|-----------------------------------|---|--|
| Failure rate (reference value) | 100 mA at 5 VDC | | | | |
| Max. switching power | W 37£ ,AV 03T,£ | W 252 ,AV 002,S | 2,500 VA, 240 W | W 021 ,AV 038,1 | |
| Max. switching current | A31 | | A01 | | |
| Max. switching voltage | 250 VAC, 125 VDC | | | | |
| Rated carry current | Aðf | | A0f | | |
| Contact material | nln2gA | | | | |
| baol bateR | 15A at 250 VAC; 15A at 24 VDC | 10A at 250 VAC; 7.5A at 24 VDC | 10A at 250 VAC; 10A at 24 VDC; | 7.5A at 250 VAC; 5A at 24 VDC | |
| реод | Resistive load $(1 = \varphi soo)$ | Inductive load (cosp = 0.4; L/R = 7 ms) | Resistive load (f = \$\phi sos) | Inductive load (cos ϕ = 0.4; L/R = 7 ms) | |
| mətl | ON-TS48 | | DPST-NO | | |

Note: P level: $\lambda 60 = 0.1 \times 10^{-0}$ /operation

84F

DPST-NO

ON-TS4S

DPST

ON-TS4S

Contact form

Contact form

SEMKO (File No. 204772)

■ Approved Standards

6, 12, 24, 48, 100 VDC

EN 61810-1 (VDE0435 (File No. 1907)

9-150 ADC

9-100 ADC

Coil ratings

Coil ratings

PCB Power Relay - G4W

UL508 (File No. E41643)/CSA C22.2 No.14 (File No.LR31928)

| 10 A, 250 VAC (general use) 15 A, 24 VDC 17-5 1/2 hp, 250 VAC 1/3 hp, 125/250 VAC | | | |
|--|--------------|--------------|------------------|
| 15 A, 250 VAC (general use) | | DPST-NO | G4W-2212P-US-TV5 |
| 15 A, 250 VAC (general use) 15 A, 24 VDC TV-8 1/2 hp, 125 VAC 1 hp, 240 VAC 3/4 hp, 240 VAC | 6 to 120 VDC | ON-T898 | 8VT-SU-42111-W¢9 |
| Contact ratings | Coil ratings | Contact Form | ləboM |

5 A, 24 VDC (40 ms) 10 A, 24 VDC (0 ms) 10 A 250 VAV (cosφ = 1.0) 7.5 A, 250 VAC (cosφ = 0.4)

7.5 A, 24 VDC (40 ms) 15 A, 250 VAC (cosq = 1.0) 10 A, 250 VAC (cosq = 0.4) 15 A, 24 VDC (0 ms)

10/80 A, 250 VAC

15/120 A, 250 VAC

Contact ratings

Contact ratings

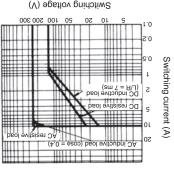
| , | | |
|--|---------|------------------|
| A , 260 VAC (general use) 15 A, 24 VDC 17-8 17-1 Pp, 125 VAC 17-1 Pp, 240 VAC | ON-TS92 | G4W-1112P-US-TV8 |
| 15 A, 250 VAC (general use) 10 A, 250 VAC (general use) 15 A, 24 VDC 17-5 17 hp, 126/260 VAC | ON-1S4G | G4W-2212P-US-TV5 |

Endurance G4W-1112P-US-TV8









G4W-2212P-US-TV5

Engineering Data -

Note: The maximum coil voltage refers to the maximum value in a varying range of operating power voltage, not a continuous voltage.

(O°) Ambient temperature

Ambient Temperature vs. Maximum Coil Voltage

Switching current (A)

10-VDC resistive load

Switching voltage (V)

Switching current (A)

G4W-2212P-US-TV5

Switching voltage (V)

PCB Power Relay - G4W

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84F

DPST-NO

ON-TS4S

DPST

ON-TS4S

Contact form

Contact form

SEMKO (File No. 204772)

■ Approved Standards

6, 12, 24, 48, 100 VDC

EN 61810-1 (VDE0435 (File No. 1907)

9-150 ADC

9-100 ADC

Coil ratings

Coil ratings

PCB Power Relay - G4W

UL508 (File No. E41643)/CSA C22.2 No.14 (File No.LR31928)

| 10 A, 250 VAC (general use) 15 A, 24 VDC 17-5 1/2 hp, 250 VAC 1/3 hp, 125/250 VAC | | | |
|--|--------------|--------------|------------------|
| 15 A, 250 VAC (general use) | | DPST-NO | G4W-2212P-US-TV5 |
| 15 A, 250 VAC (general use) 15 A, 24 VDC TV-8 1/2 hp, 125 VAC 1 hp, 240 VAC 3/4 hp, 240 VAC | 6 to 120 VDC | ON-T898 | 8VT-SU-42111-W¢9 |
| Contact ratings | Coil ratings | Contact Form | ləboM |

5 A, 24 VDC (40 ms) 10 A, 24 VDC (0 ms) 10 A 250 VAV (cosφ = 1.0) 7.5 A, 250 VAC (cosφ = 0.4)

7.5 A, 24 VDC (40 ms) 15 A, 250 VAC (cosq = 1.0) 10 A, 250 VAC (cosq = 0.4) 15 A, 24 VDC (0 ms)

10/80 A, 250 VAC

15/120 A, 250 VAC

Contact ratings

Contact ratings

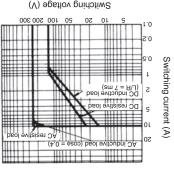
| , | | |
|--|---------|------------------|
| A , 260 VAC (general use) 15 A, 24 VDC 17-8 17-1 Pp, 125 VAC 17-1 Pp, 240 VAC | ON-TS92 | G4W-1112P-US-TV8 |
| 15 A, 250 VAC (general use) 10 A, 250 VAC (general use) 15 A, 24 VDC 17-5 17 hp, 126/260 VAC | ON-1S4G | G4W-2212P-US-TV5 |

Endurance G4W-1112P-US-TV8









G4W-2212P-US-TV5

Engineering Data -

Note: The maximum coil voltage refers to the maximum value in a varying range of operating power voltage, not a continuous voltage.

(O°) Ambient temperature

Ambient Temperature vs. Maximum Coil Voltage

Switching current (A)

10-VDC resistive load

Switching voltage (V)

Switching current (A)

G4W-2212P-US-TV5

Switching voltage (V)

PCB Power Relay - G4W

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CAT. No. J039-E2-09A-X

120

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PCB Power Relay - G4W

VT-SU-¶12P-US-TV

- snoisnami**O**

Two, 1.2-dia. holes

G4W-2212P-US-TV-5
Two, 1.2-dia. holes
Four, 1.8-dia. holes

15.24 + 15.61

64W-1112P-US-TV-8

Two, 1.2-dia. holes Two, 1.8-dia. holes

Mounting Holes (Bottom View)

(76.h) (46.S)

91.01

Terminal Arrangement/Internal Connections (Bottom View)

Relay for PC Board or Panel-Compact, Low-cost 30-A Power

- spacings (%" through air, %" over surface). A nmuloo 805JU bns £78JU diw seilqmoD ■

ay 025.1 19bnu V 000,8 of qu to sbnstadfiW ■

- Compact, yet capable of switching up to 30-A
 - - ROHS compliant.

impulse wave or ring wave.

■ UL Class F insulation standard.

mounted Applications

PCB Power Relay - G8P

G8P-1A2TP G8P-1ATP ON-TS4S G8P-1C2P G8P-1CP SPDT ON-TS4S Enclosure Rating Contact Form Ordering Information – conditioning), and many other applications. HVAC (heating, ventilating, and air \blacksquare ldeal for home and industrial appliances, ■ Flanged mounting available. board and panel mounting. ■ Quick-connect terminals versions ideal for PC ■ A selection of contact forms: SPDT and SPST-NO.

G8P-1A4TP Quick-connect G8P-1C4P G8P-1A4P PCB mounting Mounting style Fully Sealed Terminals

| salog to radmuM . | meologia & | sprits8 e | - | a aitamo M | | |
|-----------------------|--------------------------|------------------------|-----------|------------|------------|--|
| G8P - 🗌 🖺 - 98. | t 2 0 | | | | | |
| Nodel Number Legend | | | | | | |
| | DetaR | agstlov lioo t | | | | |
| | g, add the rated coil vo | nun lebom edt ot egstl | uper | | | |
| lote: 1. The contacts | A ers evods bedraseb | .ObOg | | | | |
| | | TOAS | - | G8P-1C2T-F | - | |
| Flanged mounting | Quick-connect | ON-TS4S | - | G8P-1A2T-F | - | |
| | | TOAS | G8P-1CTP | G8P-1C2TP | G8P-1C4TP | |
| | 300111100 3101030 | 01.10.10 | 111/1 100 | 1171/1 100 | 1144/1 100 | |

35

1: 1 pole

Fully-Sealed

None: Open

ON-TS98 :A

C: SPDT

2. Contact Form

Straight PCB for contacts and coil Quick-connect (#250 terminals for contacts Other rated coil voltages available. 5, 9, 12, 24, 48, 110 6. Rated Coil Voltage Flanged mounting

and straight PCB for coil

TP: Quick-connect (#260 terminals) and atraight PCB for contacts,

6. Mounting

None: PCB mounting

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6031007G 6131406HQ 6-1393099-3 6-1393099-8 6-1393122-4 6-1393123-2 6-1393767-1 6-1393843-7 6-1415012-1 6-1419102-2 6-
1423698-4 6-1608051-6 6-1608067-0 6-1616170-6 6-1616248-2 6-1616282-3 6-1616348-2 6-1616350-1 6-1616350-8 6-1616358-7 6-
1616359-9 6-1616360-9 6-1616931-6 6-1617039-1 6-1617052-1 6-1617090-2 6-1617090-5 6-1617347-5 6-1617353-3 6-1617801-8 6-
1617802-2 6-1618107-9 6-1618248-4 M83536/1-027M CX-4014 MAHC-5494 MAVCD-5419-6 703XCX-120A 7-1393100-5 7-1393111-7
7-1393144-5 7-1393767-8
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