- 4. The must operate voltage is 72% or less of the rated voltage if the relay is mounted vertically and the terminals are pointed
- Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C. With a tolerance of ±10%.

 2. Operating characteristics are measured at a coil temperature of 23°C.

 3. The maximum allowable voltage is the maximum possible value of the voltage that can be applied to the relay coil. It is not the maximum voltage that can be applied continuously.

 4. The maximum possible that leave to the propriet in the relay is mounted vertically and the tempinals are pointed.

| Power consumption | Wm 0St .xorqqA | | |
|----------------------|---------------------------------|---------|---------|
| Max. voltage | 160% of rated voltage (at 23°C) | | |
| Must release voltage | 10% min. of rated voltage | | |
| Must operate voltage | 70% max. of rated voltage | | |
| Coil resistance | 208 22 | 1,200 ي | ದ 008,4 |
| Rated current | Am 4S | Am 01 | Am 3 |
| Rated voltage | 2 ADC | 15 ADC | 5¢ ADC |

2' 15' 54 ADC

3. Rated Coil Voltage

■ Coil Ratings

Specifications –

ON-TS9S :A 2. Contact Form

1: 1 pole 1. Number of Poles

G6M - U U VDC

Model Number Legend

Example: G6M-1A 12 VDC Rated coil voltage

| leboM | Enclosure ratings | mand toetnoo | noiteaitieselD |
|--------|-------------------|-----------------------------------|-----------------------------------|
| IeboM | Enclosure ratings | Contact form | Classification |
| G6M-1A | Fully sealed | ON-TS9S | Standard |
| | er. | dmun lebom ett ot spatiov lios be | Note: When ordering, add the rate |

Ordering Information -

- UL, CSA and EN approved.
- SIL (single-in-line) terminal pitch.

requirements.

■ Satisfies EN61131-2 and EN61010 with power consumption of 120 mW).

sensitivity (40% higher than the G6D, ■ Highly efficient magnetic circuit for high

■ Reduced mounting area ideal for high-density

■ Slim 5-mm width, and miniature size.

■ ROHS compliant.

and Temperature Controller Outputs Relaying Programmable Controller Slim, Miniature Relay, Capable of

PCB Power Relay - G6M

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| Contact ratings | Coil ratings | ləboM |
|-------------------------|--------------|--------|
| 3A, 36VDC (6ms, 50,000) | | Ar-Maa |

EN 61810-1 (VDE Reg. no 400003429)

| 5 A, 250 VDC (resistive load, 6,000 operations) 5 A, 30 VDC (resistive load, 6,000 operations) 3 A, 250 VDC (general use, 100,000 operations) 3A, 30 VDC (general use, 100,000 operations) | 4.5 to 24 VDC | Ar-M35 |
|--|---------------|--------------------|
| Contact ratings | Soil ratings | І э БоМ |

UL508 (File No. E41515)/CSA C22.2 (No.14) (File No. LR31928) ■ Approved Standards

| Weight Approx. | 6 7 |
|--------------------------|---|
| Vibimut fineidmA | Operating: 5% to 85% |
| Ambient temperature | Operating: -40°C to 85°C (with no icing) |
| Endurance | Mechanical: 20,000,000 operations min. (at 18,000 operations/hr) Electrical: 100,000 operations min. (3 A at 250 VAC/30 VDC, resistive load at 1,800 operations/hr) |
| Shock resistance | Destruction: 1,000 m/s 2 Malfunction: 100 m/s 2 |
| Vibration resistance | Destruction: 10 to 55 Hz, 2.5-mm single amplitude (5.0-mm double amplitude) Malfunction: 10 to 55 Hz, 0.75-mm single amplitude (1.5-mm double amplitude) |
| Tracking Resistance CTI) | ∇20 Λ |
| Distance | mm č.£ |
| Disulation Cree | mm č.£ |
| Impulse withstand voltag | 5,080 V (St x 50 pe) between coil and contacts |
| Dielectric strength | 3,000 VAC, 50/60 Hz for 1 min between coil and contacts 750 VAC, 50/60 Hz for 1 min between contacts of same polarity |
| Insulation resistance | 1,000 Ms min. (at 500 VDC) |
| Release time | s ms. |
| Operate time | 10 max. |
| Contact resistance | 100 msx. |

■ Characteristics

B18

Note: P level: $\lambda_{60} = 0.1 \times 10^{-6}$ /operation

| • | |
|------------------------|--|
| Min. permissable load | 10 mA at 5 VDC (at 120 operations/min) |
| Max. switching power | 750 VAC, 90 W |
| Max. switching current | A 3 |
| Max. switching voltage | 270 VAC, 125 VDC |
| Rated carry current | A 3 |
| Contact material | iVpA |
| Rated load | 3 A st 250 VAC, 3 A st 30 VDC |

■ Contact Ratings

PCB Power Relay - G6M

- 4. The must operate voltage is 72% or less of the rated voltage if the relay is mounted vertically and the terminals are pointed
- Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C. With a tolerance of ±10%.

 2. Operating characteristics are measured at a coil temperature of 23°C.

 3. The maximum allowable voltage is the maximum possible value of the voltage that can be applied to the relay coil. It is not the maximum voltage that can be applied continuously.

 4. The maximum possible that leave to the propriet in the relay is mounted vertically and the tempinals are pointed.

| Power consumption | Wm 0St .xorqqA | | |
|----------------------|---------------------------------|---------|---------|
| Max. voltage | 160% of rated voltage (at 23°C) | | |
| Must release voltage | 10% min. of rated voltage | | |
| Must operate voltage | 70% max. of rated voltage | | |
| Coil resistance | 208 22 | 1,200 ي | ದ 008,4 |
| Rated current | Am 4S | Am 01 | Am 3 |
| Rated voltage | 2 ADC | 15 ADC | 5¢ ADC |

2' 15' 54 ADC

3. Rated Coil Voltage

■ Coil Ratings

Specifications –

ON-TS9S :A 2. Contact Form

1: 1 pole 1. Number of Poles

G6M - U U VDC

Model Number Legend

Example: G6M-1A 12 VDC Rated coil voltage

| leboM | Enclosure ratings | mand toetnoo | noiteaitieselD |
|--------|-------------------|-----------------------------------|-----------------------------------|
| IeboM | Enclosure ratings | Contact form | Classification |
| G6M-1A | Fully sealed | ON-TS9S | Standard |
| | er. | dmun lebom ett ot spatiov lios be | Note: When ordering, add the rate |

Ordering Information -

- UL, CSA and EN approved.
- SIL (single-in-line) terminal pitch.

requirements.

■ Satisfies EN61131-2 and EN61010 with power consumption of 120 mW).

sensitivity (40% higher than the G6D, ■ Highly efficient magnetic circuit for high

■ Reduced mounting area ideal for high-density

■ Slim 5-mm width, and miniature size.

■ ROHS compliant.

and Temperature Controller Outputs Relaying Programmable Controller Slim, Miniature Relay, Capable of

PCB Power Relay - G6M

Omron 08 Cat 1-302 5/10/07 15:39 Page 56

| Contact ratings | Coil ratings | ləboM |
|-------------------------|--------------|--------|
| 3A, 36VDC (6ms, 50,000) | | Ar-Maa |

EN 61810-1 (VDE Reg. no 400003429)

| 5 A, 250 VDC (resistive load, 6,000 operations) 5 A, 30 VDC (resistive load, 6,000 operations) 3 A, 250 VDC (general use, 100,000 operations) 3A, 30 VDC (general use, 100,000 operations) | 4.5 to 24 VDC | Ar-M35 |
|--|---------------|--------------------|
| Contact ratings | Soil ratings | І э БоМ |

UL508 (File No. E41515)/CSA C22.2 (No.14) (File No. LR31928) ■ Approved Standards

| Weight Approx. | 6 7 |
|--------------------------|---|
| Vibimut fineidmA | Operating: 5% to 85% |
| Ambient temperature | Operating: -40°C to 85°C (with no icing) |
| Endurance | Mechanical: 20,000,000 operations min. (at 18,000 operations/hr) Electrical: 100,000 operations min. (3 A at 250 VAC/30 VDC, resistive load at 1,800 operations/hr) |
| Shock resistance | Destruction: 1,000 m/s 2 Malfunction: 100 m/s 2 |
| Vibration resistance | Destruction: 10 to 55 Hz, 2.5-mm single amplitude (5.0-mm double amplitude) Malfunction: 10 to 55 Hz, 0.75-mm single amplitude (1.5-mm double amplitude) |
| Tracking Resistance CTI) | ∇20 Λ |
| Distance | mm č.£ |
| Disulation Cree | mm č.£ |
| Impulse withstand voltag | 5,080 V (St x 50 pe) between coil and contacts |
| Dielectric strength | 3,000 VAC, 50/60 Hz for 1 min between coil and contacts 750 VAC, 50/60 Hz for 1 min between contacts of same polarity |
| Insulation resistance | 1,000 Ms min. (at 500 VDC) |
| Release time | s ms. |
| Operate time | 10 max. |
| Contact resistance | 100 msx. |

■ Characteristics

B18

Note: P level: $\lambda_{60} = 0.1 \times 10^{-6}$ /operation

| • | |
|------------------------|--|
| Min. permissable load | 10 mA at 5 VDC (at 120 operations/min) |
| Max. switching power | 750 VAC, 90 W |
| Max. switching current | A 3 |
| Max. switching voltage | 270 VAC, 125 VDC |
| Rated carry current | A 3 |
| Contact material | iVpA |
| Rated load | 3 A st 250 VAC, 3 A st 30 VDC |

■ Contact Ratings

PCB Power Relay - G6M

89

CAT. No. K121-E2-03A-X

To convert millimetres into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527. ALL DIMENSIONS SHOWN ARE IN MILLIMETRES.

the catalog or data sheet.

Do not use the relay at temperatures higher than that specified in maximum voltage to the relay. Never try to operate the relay at a voltage and a current other than those rated.

Do not continuously apply a voltage higher than the rated

degrade. Avoid using the relay in an atmosphere containing sulfuric acid (SO_2), hydrogen sulfide (H_2S), or other corrosive

remove the case of the relay; otherwise, the characteristics may that it is not dropped or mishandled. For the same reason, do not

To maintain the initial characteristics of a relay, exercise care

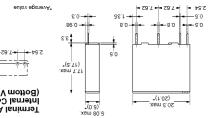
application conditions.

To avoid problems, always conduct tests under the actual performance tolerance may accumulate into undesirable levels. components, each depends upon the rated performance thresholds of the other components. Thus, the overall each meets strict requirements, a certain testing tolerance is permissible. When a high-precision product uses many OMRON relays are individually tested a number of times, and processes involved in mass production. Also, even though One reason is to confirm that the product will still perform as expected after surviving the many handling and mounting Before actually committing any component to a mass-productionsituation, OMBON strongly recommends situational production situations as each as close to actual production situations as consistent of the production situations are consistent or confirmation and consistent or confirmation and consistent or confirmation o

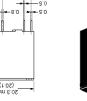
BASIC INFORMATION

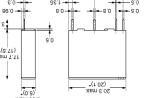
Precautions -

5.54 H F 7.62 H 7.62 H 2.54 = | = S3.7 = = S3.7 = | = S3.5 Internal Connections (Bottom View)







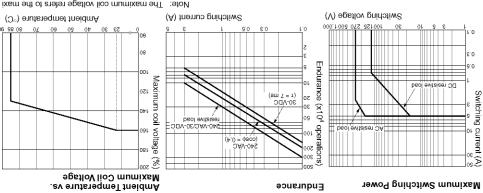


Endurance

Pimensions -

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

Tolerance: ±0.1 Mounting Holes (Bottom View)



Engineering Data

PCB Power Relay - G6M

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Z B K

G6D-1A-ASI

ləboM



Fully sealed

Enclosure ratings

mm 2.51 x 6.5 x 6.71 :911 and miniature: 17.5 x 6.5 x 12.5 mm ■

and Temperature Controller Outputs Relaying Programmable Controller Slim, Miniature Relay, Capable of

■ Actual load switching capability equals the

■ Allows 300,000 operations with a 2-A load at

PCB Power Relay - G6D

■ Switches 5 A at 250 VAC/30 VDC. ■ Ideal for high-density mounting

Connecting Socket

ON-TS9S :A

Model Number Legend

Standard

1 5 3 4 G6D - □ □ - □ □ VDC

Classification

■ Washable construction. G6B's capability.

250 VAC or 30 VDC.

.($H \times W \times J$)

■ ROHS compliant.

Ordering Information -

2. Contact Form 1. Number of Poles
1: 1 pole

P6D-04P

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

Example: GeD-1A-AS1 12 VDC

Contact Material
 ASI: Silver alloy (cadmium-free)
 Rated Coil Voltage
 Aster Coil Voltage

Rated coil voltage

■ Accessories (Order Separately)

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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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 61423698-4 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 61616359-9 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 61617802-2 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