

General Purpose Automotive Power Relay

- Standard ISO terminal footprint
- Handles heavy automotive load; inrush current 100A
- High current path fully welded; reduces heat buildup at full load
- Made in North America



Ordering Information

| Terminal type | Contact form | Cover | Resistor | Bracket | Part number |
|---------------|--------------|--------------|----------|----------------|---------------------------|
| PCB | SPST-NO | Standard | — | — | G8J-1A7P-DC12 |
| PCB | SPST-NO | Standard | 680Ω | — | G8J-1A7P-R-DC12 |
| Plug In | SPDT | Standard | — | — | G8J-1C7T-DC12 |
| Plug In | SPDT | Standard | — | Molded Plastic | G8J-1C7T-MF-DC12 |
| Plug in | SPDT | Standard | 680Ω | — | G8J-1C7T-R-DC12 |
| Plug In | SPDT | Standard | 680Ω | Molded Plastic | G8J-1C7T-MF-R-DC12 |
| Plug In | SPDT | Weatherproof | — | — | G8J-1C6T-DC12 |
| Plug In | SPDT | Weatherproof | 680Ω | — | G8J-1C6T-R-DC12 |
| Plug In | SPDT | Weatherproof | 680Ω | Metal | G8J-1C6T-F-R-DC12 |
| Plug In | SPDT | Weatherproof | — | Metal | G8J-1C6T-F-DC12 |

Specifications

■ CONTACT DATA

| | | |
|--|-----------------|-----------------------------|
| Max. resistive load | SPST | 40A |
| | SPDT | 40A(NO) / 20A(NC) |
| Contact voltage drop [Initial value at 23°C (73°F)] | | ≤150mV(NO) / ≤175mV(NC) |
| Max. inrush current | Inductive load | 100A inrush / 20A break(NO) |
| | Capacitive load | 300A inrush(NO) |

■ COIL DATA

| | |
|-------------------|---|
| Rated voltage | 12 VDC |
| Operating voltage | 10-16 VDC |
| Coil resistance | 78Ω ± 10% |
| Pick-up voltage | 8V at 23°C (73°F) 11V at 125°C (257°F) |
| Dropout voltage | 1V at 23°C (73°F) |

CHARACTERISTICS

| | |
|---|---|
| Operate time at 23°C (73°F) | 5 ms max. |
| Release time at 23°C (73°F) | 4 ms max. |
| Duty cycle at rated load [16V at 80°C (176°F)] | Up to 100% |
| Mechanical life | 10,000,000 operations minimum at 18,000 operations/hour |
| Electrical life (resistive load) | 100,000 operations minimum (14V / 35A) |
| Operating ambient temperature | -40° to 125°C (-40° to 257°F) |
| Weight | Approx. 40g |

Note: Data shown are of initial value.

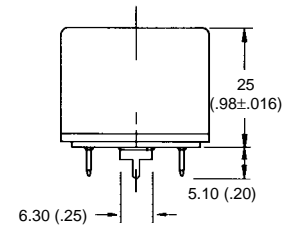
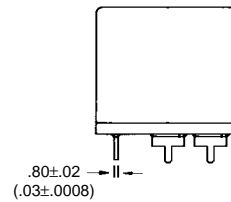
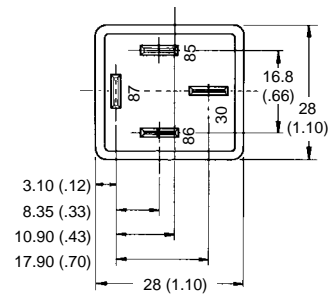
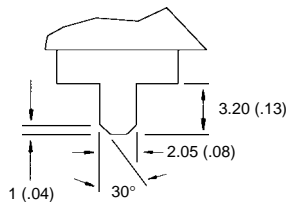
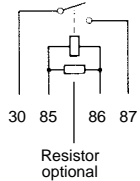
Dimensions

Unit: mm (inch)

SPST PCB TYPE

G8J-1A7P-__

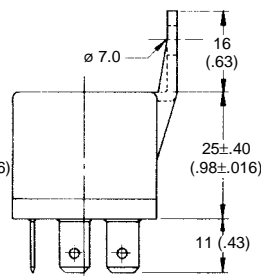
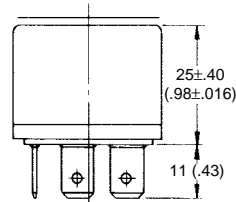
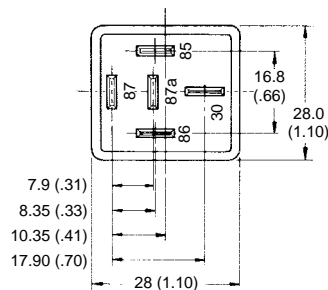
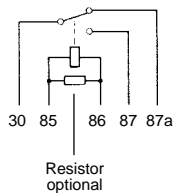
Circuit Diagram



SPDT PLUG-IN TYPE

G8J-1C7T-__

Circuit Diagram



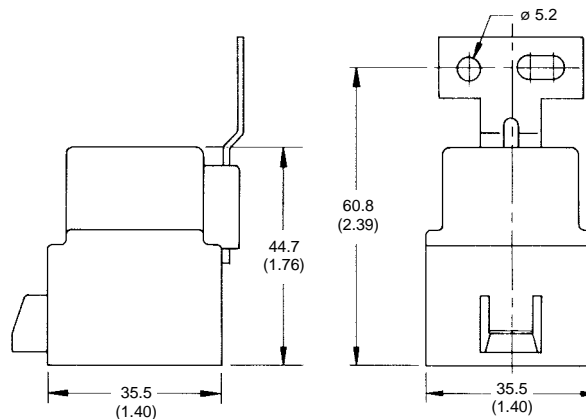
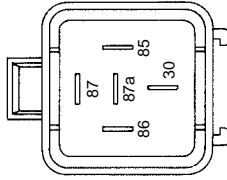
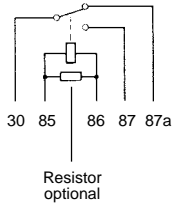
Standard Package

Plastic Bracket Optional

■ SPDT PLUG-IN WEATHERPROOF TYPE

G8J-1C6T-___

Circuit Diagram



**Metal Bracket
Optional**

Note: In the interest of product improvement, specifications are subject to change.

OMRON

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9/97

Specifications subject to change without notice.

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Printed in the U.S.A.