

Mini-280 Automotive Relay G8W

General Purpose Automotive Power Relay

- Wide temperature range: -40° C to 125° C.
- Standard ISO terminal footprint.
- Handles heavy automotive load; inrush current 100 A.
- High current path fully welded; reduces heat buildup at full load.
- Made in North America.



Ordering Information

| Terminal type | Contact form | Description | Model |
|---------------|--------------|--|-------------------|
| Plug in 280 | SPST-NO | Standard with resistor | G8W-1A7T-R-DC12 |
| | SPDT | Standard with resistor | G8W-1C7T-R-DC12 |
| | SPST-NO | Weatherproof with resistor | G8W-1A6T-R-DC12 |
| | SPDT | Weatherproof with resistor | G8W-1C6T-R-DC12 |
| | SPST-NO | Weatherproof with straight metal bracket with resistor | G8W-1A6T-F-R-DC12 |
| | SPDT | Weatherproof with straight metal bracket with resistor | G8W-1C6T-F-R-DC12 |

Specifications

Contact Data

| | |
|--|--|
| Max. resistive load | 35 A/20 A (NO/NC) |
| Contact voltage drop (initial value @ 23° C) | ≤175 mV (NO)/ ≤100 mV (NC) |
| Max. inrush current | Inductive load: 100 A inrush/20 A break (NO) |

Ratings

| | |
|--|--------------------------------------|
| Rated voltage | DC 12 V |
| Operating voltage | DC 10 to 16 V |
| Coil resistance (see note 1) | 91 Ω ± 15% |
| Pick up voltage | 8.0 at +23° C |
| Drop-out voltage | 1 V at 23° C |
| Duty cycle at rated load (16 V at 80° C) | Up to 100% |
| Operate time (at 23° C) | 20 ms @ 12 VDC |
| Release time (at 23° C) | 10 ms @ 12 VDC |
| Operating ambient temperature | -40° C to +125° C |
| Mechanical life | 1,000,000 operations min. |
| Electrical life (resistive load) | Min. 100,000 operations (14 V; 35 A) |
| Weight | Approx. 34 g |

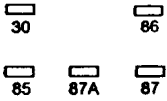
- Note:**
1. Coil resistance specified is without the suppression resistor.
 2. In the interest of product improvement, specifications are subject to change without notice.

Dimensions

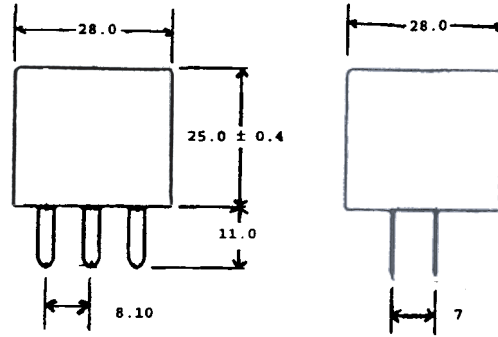
Unit: mm

■ G8W

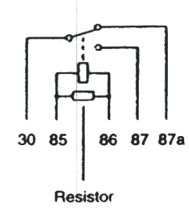
Terminal Configuration



Dimensions (standard plug-in)



Circuit Diagram



Note: Omit terminal 87a in the SPST-NO version.