

Automotive Relay

- General purpose automotive relay.
- Wide temperature range: -40°C to $+125^{\circ}\text{C}$.
- Standard ISO terminal foot print.
- Handles heavy automotive load; Inrush current 100A
- High current path fully welded – Reduces heat build up at full load.
- Insert moulded terminals – mechanical stability.
- Made in North America.



Available Types

Type	Contact form	Note
G8J-1C7T-R 12DC	SPDT	With Suppression Resistor
G8J-1C7T-D 12DC	SPDT	With Suppression Diode

Contact Data

Resistive load (max.)	35A(NO)/20A(NC)
Inrush current	Inductive load: 100A Inrush/20A Break (NO) Capacitive load: 300A Inrush (NO)
Contact voltage drop (Initial value at 23°C) (max.)	150mV(NO)/175mV/(NC)

Ratings/Specifications

Rated voltage	12 VDC	
Operating voltage (max.)	16 VDC	
Coil resistance	$78\ \Omega \pm 10\%$	
Pull in voltage (cold start)	at $+23^{\circ}\text{C}$ (max.)	8.0 VDC
	at $+125^{\circ}\text{C}$ (max.)	11.0 VDC
Drop-out voltage at $+23^{\circ}\text{C}$ (min.)	1.0 VDC	
Duty cycle at rated load (16V at 80°C)	Up to 100%	
Operate time (at 23°C) (max.)	5.0 ms	
Release time (at 23°C) (max.)	4.0 ms	
Operating ambient temperature	-40°C to 125°C	
Mechanical life (min.)	10,000,000 cycles (at frequency of 18,000 operations/hour)	
Electrical life (resistive load) (min.)	100,000 cycles (14V/35A)	
Weight	40g	

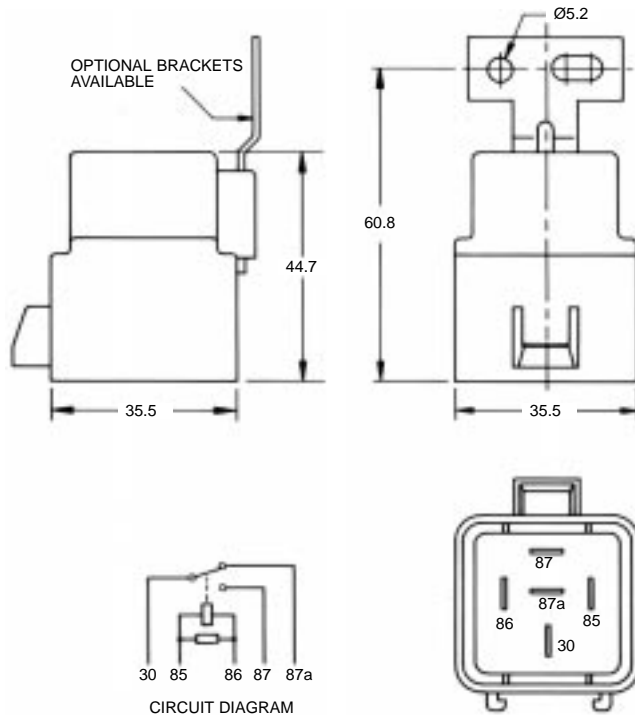
Application Examples

- Heated rear window
- ABS
- Head lamp
- Cooling fan
- HVAC blower motor
- Compressor coil
- Fuel pump
- Starter solenoid
- Horn

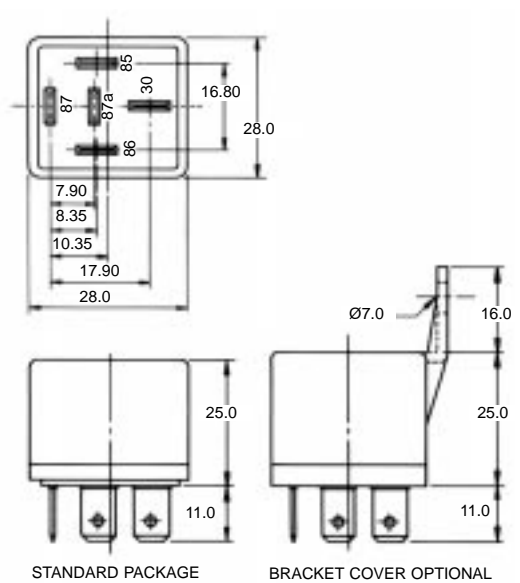
Dimensions

(All dimensions in mm)

WEATHERPROOF



STANDARD



ALSO AVAILABLE IN PCB TYPE

Cat. No. C-G8J-001 In the interest of product improvement, specifications are subject to change without notice.

OMRON

LEADERS IN ELECTRONIC COMPONENTS

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