# Automotive Relay G8JN

## **General Purpose Automotive Power Relay**

- $\bullet$  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	Cover	Resistor	Bracket	Model
Plug in	SPDT	Standard			G8JN-1C7T-DC12
				Molded plastic	G8JN-1C7T-MF-DC12
			680 Ω		G8JN-1C7T-R-DC12
			680 Ω	Molded plastic	G8JN-1C7T-MF-R-DC12
		Weatherproof			G8JN-1C6T-DC12
			680 Ω		G8JN-1C6T-R-DC12
			680 Ω	Metal	G8JN-1C6T-F-R-DC12
				Metal	G8JN-1C6T-F-DC12

# **Specifications**

## **■** Contact Data

Max. resistive load SPDT		35 A (NO) / 20 A (NC)
Contact voltage drop (Initial value at 23° C)		≤200 mV (NO) / ≤100 mV (NC)
Max. inrush current	Inductive load	100 A (NO) / 40 A (NC)

## **■** Coil Data

Rated voltage	12 VDC
Operating voltage	10-16 VDC
Coil resistance (see note)	$74 \Omega \pm 15\%$
Pick-up voltage	8 V (23°)
Dropout voltage	1 V at 23° C

 $\textbf{Note:} \ \ \text{Coil resistance specified is without the suppression resistor.}$ 

## **■** Characteristics

Operate time at 23° C	20 ms max @ 12 VDC	
Release time at 23° C	10 ms max @ 12 VDC	
Insulation resistance	> 20 MΩ @ 500 VDC	
Shock resistance	10G min.	
Vibration resistance	9G min.	
Duty cycle at rated load [16V at 80° C]	Up to 100%	
Mechanical life	1,000,000 operations min.	
Electrical life (resistive load)	100,000 operations minimum (14V / 35A)	
Operating ambient temperature	-40° to 125°C	
Weight	Approx. 34g	

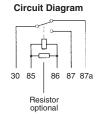
Note: Data shown are of initial value.

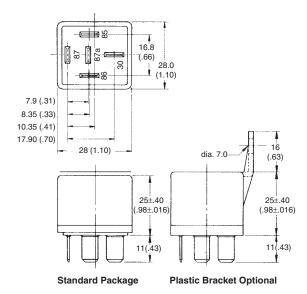
# **Dimensions**

Unit: mm (inch)

# **■** SPDT Plug-in Type

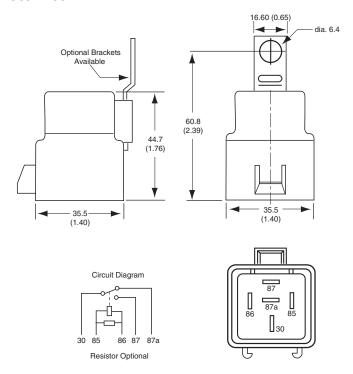
G8JN-1C7T- □□□





# **■ SPDT Plug-in Weatherproof Type**

### G8JN-1C6T- □□□



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

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Products: (d)

Including without limitation Including:

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01/07

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