

- SPST and SPDT Contacts
- Plug in and Weatherproof type
- Fully automated Assembly
- L x W x H = 28 x 28 x 25.5 mm nominal
- ISO footprint and terminals 6.3 x 0.82 mm
- Made In Canada

Available Types

Type	Description
G8JN-1C7T-R-DC12	Mini ISO SPDT PI with resistor
G8JN-1C7T-D-DC12	Mini ISO SPDT PI with diode
G8JN-1A7T-R-DC12	Mini ISO SPST PI with resistor
G8JN-1C7T-DC12	Mini ISO SPDT PI
G8JN-1C7T-MF-DC12	Mini ISO SPDT PI with Molded Bracket Cover
G8JN-1C7T-MF-R-DC12	Mini ISO SPDT PI with resistor and Molded Bracket Cover
G8JN-1C6T-F-R-DC12	Mini ISO SPDT W/P with resistor, and Metal Bracket
G8JN-1C6T-DC12	Mini ISO SPDT W/P
G8JN-1C6T-F-DC12	Mini ISO SPDT W/P, with Metal Bracket
G8JN-1C6T-R-DC12	Mini ISO SPDT W/P with resistor
* Other special types also available	
PI = Plug-in; W/P = Weatherproof;	

Contact Data

Typical Switching Current	In rush 150 A, Steady 35 A
Max Switching Voltage	16 V
Min. Carry / Switching Current	1 A
Contact Material	Silver Tin oxide (Cadmium free)

Coil Ratings (at 20°C)

Type	Rated Voltage	Coil Resistance ±10%	Coil Resistance w/ 680Ω suppression ±10%	Nominal Coil Power Consumption	Pull in Voltage	Dropout Voltage
G8JN Type	12 VDC	76 Ω	68 Ω	1.89 W	< 8.0 V	> 1.0 V

Typical Applications

Motor Load
Engine Cooling Fan
Lamp Load
Resistive Load

Characteristics

Max. Initial Contact Voltage Drop		50 mV @ 10 A / 5 mΩ
NO Activation Time		10 ms max. (5.4 ms typical) @ 14 V
NO Deactivation Time		10 ms max. (1.6 ms typical) @ 14 V
Insulation resistance		20 MΩ min
Dielectric strength		0.5 mA max. leakage at 900 VDC for 1s
Ambient Operating Temperature		- 40 °C to +125 °C
Humidity		95% RH @ 45 C
Service life	Mechanical	1,000,000 operations min.
	Electrical	100,000 operations min.
Weight		34 g

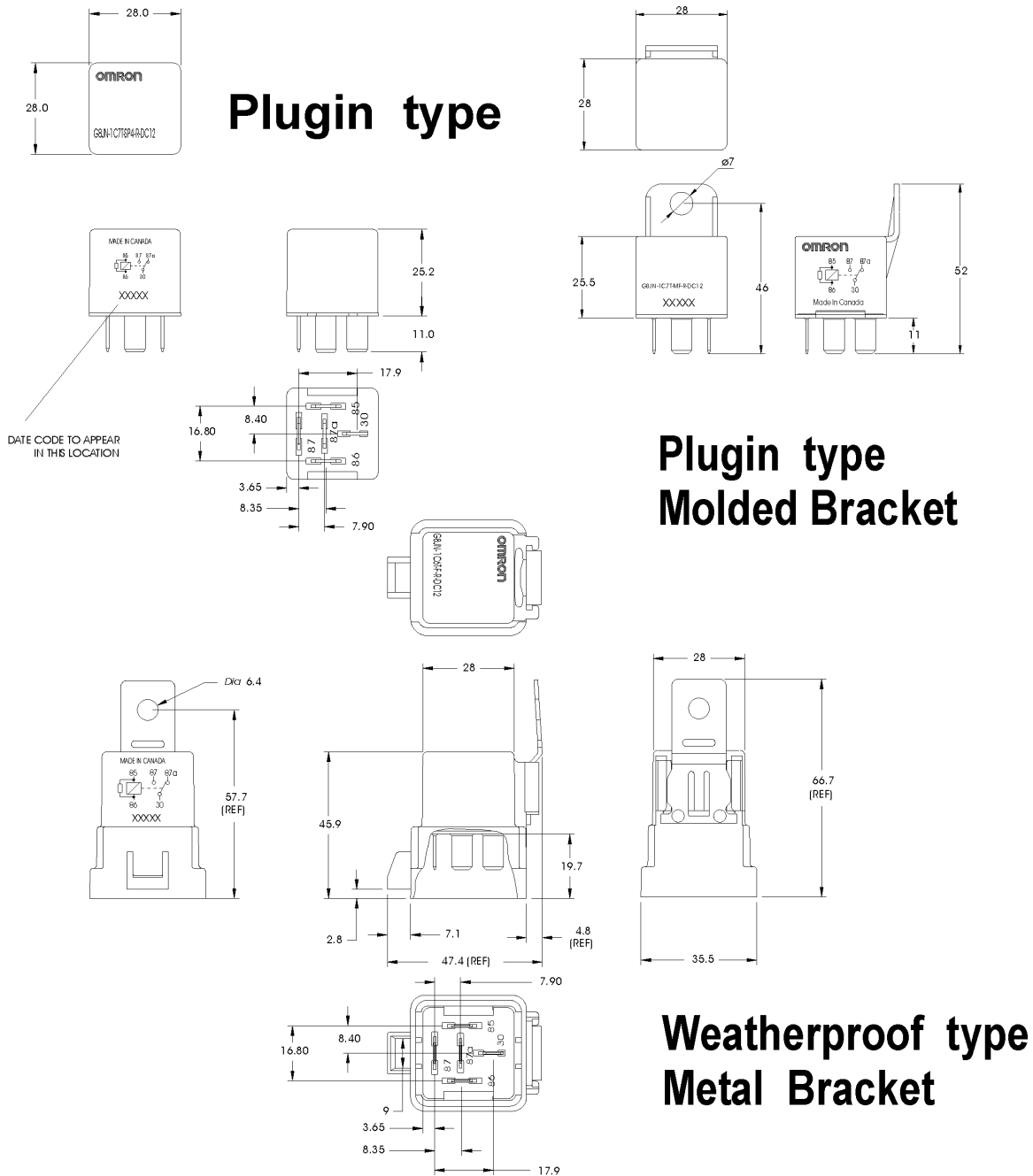
* Typical data includes coil resistor suppression. Deactivation time may decrease without coil suppression.

Characteristic Reference Data

Durability Data

Relay	Load Type	Current	Cycles Tested
G8JN	NO Motor Load	80 A Inrush 33 A Steady State	300,000 3s on, 4s off
	NO Lamp Load	150 A Inrush 30 A Steady State	300,000 3s on, 4s off
	NC Motor Load	40 A Inrush 20 A Steady State	300,000 3s on, 4s off
	NO Resistive Load	35 A Steady State	100,000 2s on, 2s off
	NO/NC Resistive Load	30 / 20 A Steady State	100,000 1s on, 1s off

Dimensions



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Omron:

[G8JN-1C7T-D-DC12](#)