

## **Product Description**

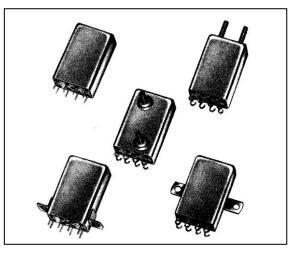
An innovation in design with emphasis on material technology developments have allowed Hi-G to manufacture this high sensitivity 5 amperes crystal can relay. The selection of contacts and all current currying parts, have resulted in this highly reliable, sensitive, full hermetically sealed workhouse.

This relay meets all the switching and environmental conditions of demanding military environments:

- All welded relay construction
- Cleaning and sealing techniques ensure maximum internal cleanliness
- 5 amperes switching
- 1 or 2 form C, SPDT or DPDT contacts, special metal alloy with gold plating.

## **Series Types**

- **1BCN** 1 form C, SPDT
- 2BCN 2 form C, DPDT



<b>Environmental and Physica</b>	al Specifications
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Temperature (Ambient)	- 65°C to + 125°C
Shock	100 g, 6 ms.
Vibration (sinusoidal)	20 g, 10 to 2000 Hz
Acceleration	50 g
Sealing	All welded, Hermetic
Weight	1,0 oz. (28,35 grams) max.

## **Electrical Characteristics** (over the Temperature range. Unless otherwise noted)

Coil Data	See Typical Characteristics chart				
Contact Rating	Type Load	Contact Load	Cycles min.		
(Note: All ratings with grounded case)	Resistive Overload	5 A / 28 Vdc 3 A / 115Vac, 400 Hz 2 A / 115 Vac, 60 Hz 10 A / 28 Vdc	100.000 100.000 100.000 100.000		
	Inductive	1 A / 28 Vdc (200 mH)	100.000		
Contact Resistance	$0,02 \Omega$ max. initial				
Operate Time	15,0 ms. max. at 25°C				
Release Time	4,0 ms. max. at 25°C				
Contact Bounce	2,0 msc. max. at 25°C				
Dielectric Strength	1.000 Vrms min., 60 Hz, between contact to case, 500 Vrms min., 60 Hz, between contacts and coil to case, at sea level				
Insulation Resistance	1.000 MΩ min. all points at 500 Vdc				
Intercontact Capacitance	2,5 pF between contacts				
Sensitivity	80 mW at pick-up, 320 mW typical at nominal rated coil voltage, at 25 °C				



## **Typical Characteristics**

Coil Voltage Code	Nominal Coil Voltage [Vdc]	Nominal Coil Current [mA]	Coil Resistance $[\Omega]$ at 25°C $\pm$ 10%	Pick-up [mA] Max. at 25°C	Drop-out [mA] Min. at 25°C	Coil Suppression [Vdc]
106	6,0	54,5	110	27,3	3,0	47
112	12,0	26,7	450	13,4	1,4	47
128	28,0	11,2	2500	5,6	0,6	47
140	40,0	8,0	5000	4,0	0,4	109

