

High Voltage Gas-Filled Relay

Features

Physical:

- Hermetically Sealed: arc contained
- Maintenance free

Environmental:

- Temperature range -55°C to 125°C
- 50G Shock

Power Switching:

- Gas filled for "Make only" power switching
- Used for capacitive discharge applications

Coil Voltage:

- 12, 26.5, 115 Vdc Standard



CI Technologies™
advanced control electronic solutions

P.O. Box 4422, Santa Barbara, CA 93140
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TITLE

High Voltage Gas-Filled Relay

PREP. BY

JT

11/19/87

DWG NO.

HC-5 SERIES

CHKD. BY

RG

12/3/87

CAGE CODE

18741

SCALE

NA

SHEET

1 of 5

ENG APRVL

RG

12/3/87

General Specifications

B

Physical Data

Units

Contact Arrangement		SPDT
Form		C
Weight	oz	1

Environmental Data

Shock, 11ms ½ sine	g _{peak}	50
Vibration, 10 g _{peak}	Hz	55-2000
Operating Temperature Range	°C	-55 to +125

Electrical Data

Test Voltage (dc or 60 Hz)	kV _{peak}	5
Rated Operating Voltage (dc or 60 Hz)	kV _{peak}	3.5
Coil Hi-Pot	V _{rms}	500
Continuous Current Carry, Contacts Closed (dc or 60 Hz)	A	8
Contact Resistance, maximum*	Ohms	0.50
Mechanical Life	cycles	1,000,000

Mechanical Data

Operate Time, Maximum	ms	6
Release Time, Maximum	ms	6

1. RATINGS LISTED ARE FOR 25 °C SEA LEVEL CONDITIONS.
2. RELAY BASE MUST BE GROUNDED

*CONTACT RESISTANCE FOR GAS FILLED RELAYS IS MEASURED AT 28 Vdc, 1 Ampere



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HC-5 SERIES

THIRD ANGLE PROJECTION



THIS DRAWING
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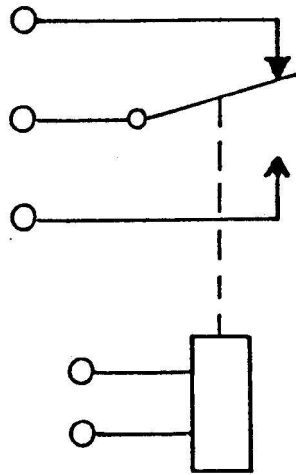
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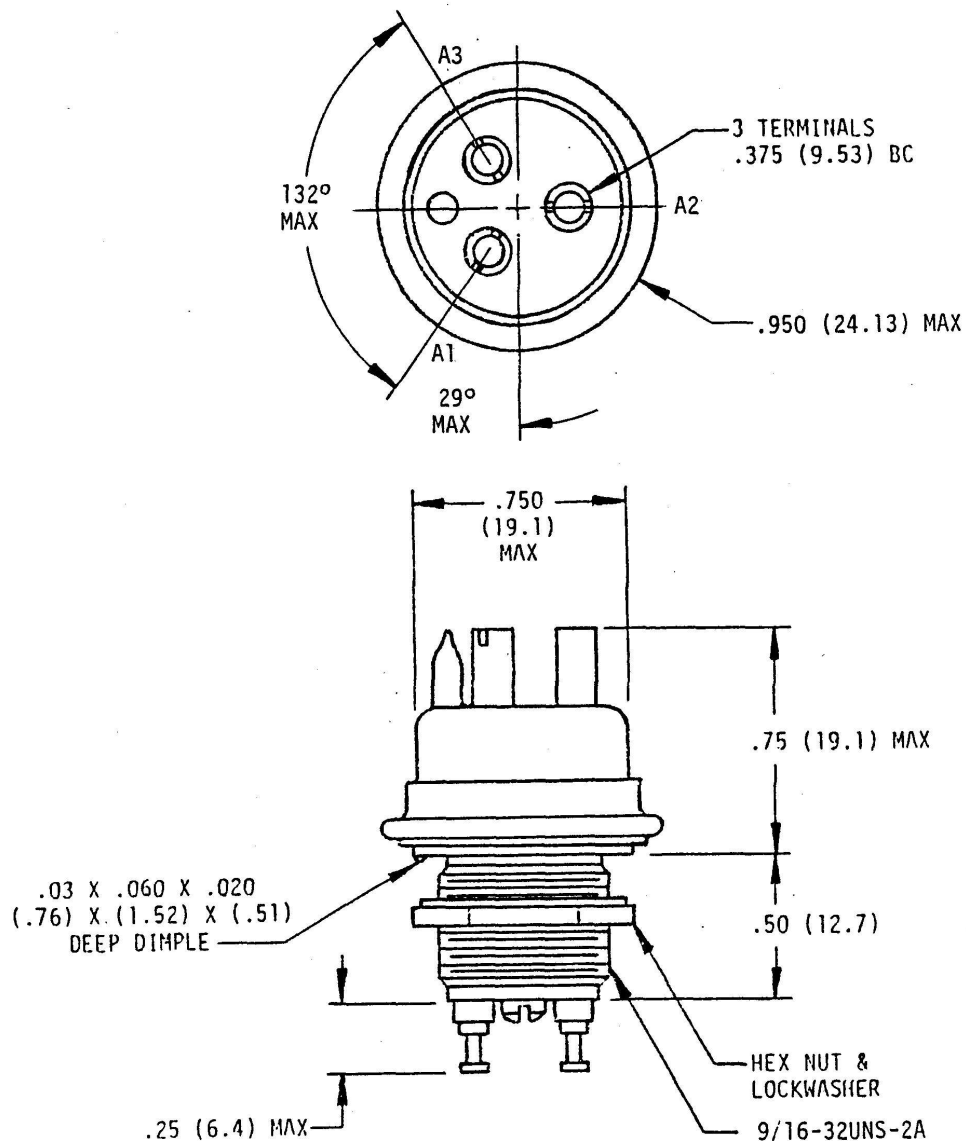
Coil Data

	Units	HC-5/12VDC	HC-5	HC-5/115VDC
Coil Voltage, nominal	Vdc	12	26.5	115
Pickup Voltage, maximum	Vdc	8	16	80
Drop-out Voltage	Vdc	.5-5	1-10	5-50
Coil Resistance ($\pm 10\%$)	Ohms	80	335	6000

Schematic

Part Drawing

B



Dimensions in Inches

(Dimensions in Parentheses are in Millimeters)

Tolerances Except as Noted

.xx = $\pm .03$

.xxx = $\pm .010$

$\angle x^\circ = \pm 2^\circ$

DO NOT SCALE DWG.

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Revisions

REV.	DESCRIPTION		DATE	APP.
A	Initial Release	NPR 7859	87/12/03	RG
B	New Template	DCO 11856	99-09-23	RJG



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