

TYPE 156

Hermetic



FEATURES:

- Recognized for Class 1 Division 2 hazardous locations
- 2PDT and 4PDT configurations.
- Hermetically sealed—glass to metal compression. Header solder sealed to metal enclosure, backfilled with nitrogen.
- Contact ratings to 5 amps.
- UL File 38802, CSA File LR54109, UL/cUL File E184824.

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CONTACTS			
Type	Material	UL & CSA Recognition Rating	
-100	3/32" Silver (Gold Flash)	3 amp 1/10 hp	28 VDC/120 VAC 120/240 VAC
-700	3/32" Pure fine Silver Gold Diffused	2 amp	240 VAC 80% pf
-200	3/32" Silver Cadmium Oxide (Gold Flash)	5 amp 3 amp 1/10 hp	28 VDC/120 VAC 80% pf 240 VAC 80% pf 120/240 VAC
Life Expectancy Mechanical—in excess of 50 million operations Electrical—100,000 operations minimum at rated loads			

COILS		
Voltage Ratings	6 to 240 VAC 50/60 Hz 5 to 110 VDC	
Pick-up Voltage	AC—85% of nominal DC—75% of nominal	
Duty Cycle	Rated for continuous duty operation at 25% overvoltage	
Shock	15 g's, 11±1mS 1/2 sinewave (non operating test, no mechanical damage)	
Vibration	0.1" DA or 10g's, 10 to 55 Hz (operating test, no contact chatter, hard mounted, 1 microsecond detection level)	
Power Ratings		
	AC	DC
Nominal	1.2 VA	0.9 W
Max. Continuous	2.0 VA	2.0 W
Temperature Rise		
	AC	DC
Nominal Voltage	35°C	33°C
25% Overvoltage	65°C	45°C

SPECIFICATIONS

All ratings at 25°C ambient

Dielectric Breakdown

Greater than 500 VAC RMS 60 Hz across open contacts.
Greater than 1250 VAC RMS 60 Hz all other mutually insulated elements.

Insulation Material

1500 megohms minimum at 500 VDC

Timing Values

13 mS maximum operate time
10 mS maximum release time
(Nominal voltage, no coil suppression)

Temperature Range

Operating—45°C to +75°C
Storage—65°C to +100°C

COIL CHARACTERISTICS	
Nominal Voltage	Resistance (Ohms±10%)
5	20
6	40
V 12	160
D 24	650
C 48	2600
90	9000
110	11000
6	10
12	40
V 24	155
A 48	670
C 120	3900
240	14900

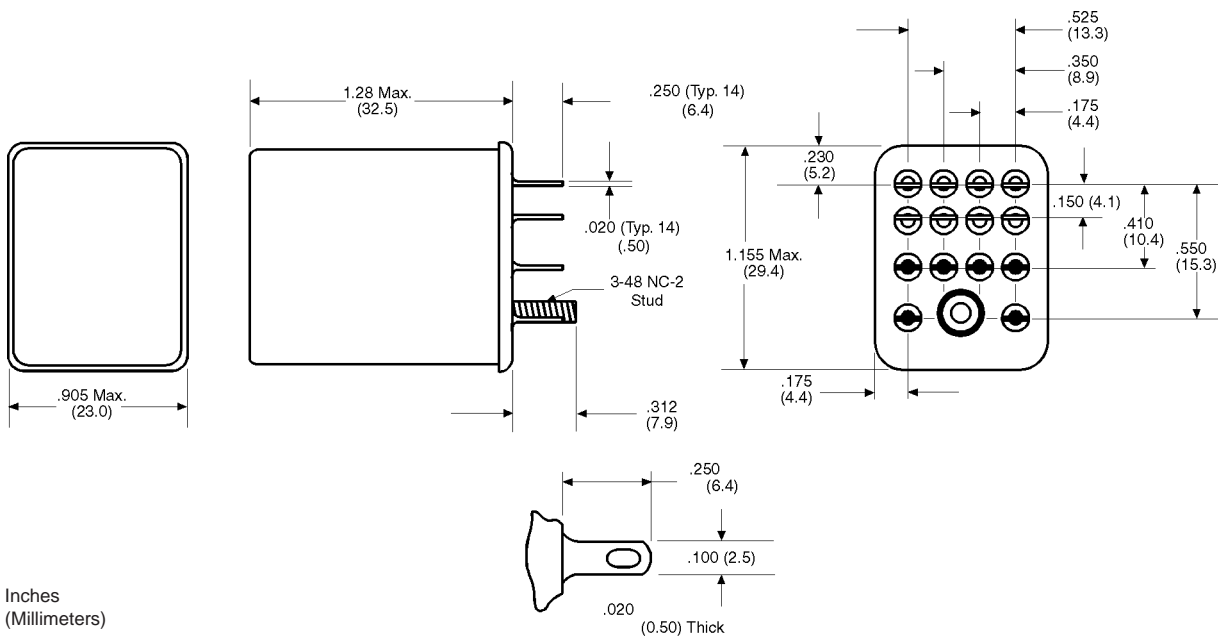
TYPE 156 H

PART NUMBERING SYSTEM

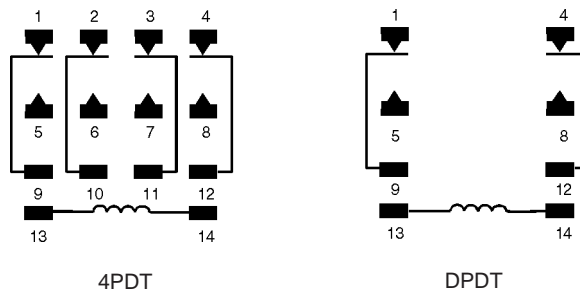
Relay Type	Enclosure and Terminals	Contact Arr.	Coil	Contacts	Std or Special
156	4-Hermetic Sealed Solder/Plug-in Terminals Both 4PDT & 2PDT Have All 14 Terminals 0-Special	2-2PDT 4-4PDT 0-Special	G-5 VDC A-6 VDC B-12 VDC C-24 VDC D-48 VDC E-90VDC F-110 VDC N-6 VAC P-12 VAC Q-24 VAC R-48 VAC T-120 VAC U-240 VAC S-Special	1-3/32" Silver (Gold Flash) 2-3/32" Silver Cadmium Oxide(Gold Flash) 7-3/32" Silver Gold Diffused 0-Special Consult Factory	00-Standard A1-K9-Special Non UL/CSA A1-Z9-Special Consult Factory For Specials

Example: 156-42G100

DIMENSIONS



WIRING



Bottom View
Reference Only

See RELAY SOCKETS on page 50.
See HOLD DOWN SPRINGS on page 53.