

INCH-POUND

MIL-PRF-6106/39D  
AMENDMENT 2  
15 May 2002  
SUPERSEDING  
AMENDMENT 1  
19 July 2001

PERFORMANCE SPECIFICATION SHEET

RELAY, ELECTROMAGNETIC, TYPE I, MAGNETIC LATCH, PERMANENT  
MAGNET DRIVE, LOW LEVEL TO 5 AMPERES, 4PDT,  
HERMETICALLY SEALED

This amendment forms a part of MIL-PRF-6106/39D, dated 10  
November 2000, and is approved for use by all Departments  
and Agencies of the Department of Defense.

The attached insertable replacement page is listed below and is a replacement for the stipulated page.  
When the new page has been entered in the document, insert the amendment as the cover sheet to the  
specification.

Replacement page

Page replaced

8

8

PAGE 5

Figure 1, note 5, delete: "monostable" and substitute "bistable".

Figure 1, add a note after note 11: "12. Indicated terminals shall be identified by a contrasting bead."

Custodians:  
Air Force - 11  
DLA - CC

Preparing activity:  
DLA - CC

(Project 5945-1165-01)

Review activities:  
Air Force - 99

MIL-PRF-6106/39D  
AMENDMENT 2

TABLE II. Dash numbers and characteristics. 1/

Military PIN M6106 /39-	Terminal type	Mounting config.	Coil data						
			Rated voltage (V dc) 2/	Resist- ance $\Omega \pm 10\%$ at 25°C	Maximum		Pickup volt (max) (V dc)		
					Voltage (V dc) 3/	Current A at 25°C	Normal 4/	High Temp Test	Continuing current test
001	Solder hook	C	28	600	29	.054	18	19.8	22.5
002 5/	Socket pin	C	28	600	29	.054	18	19.8	22.5
003	Solder pin	C	28	600	29	.054	18	19.8	22.5
004	Solder hook	B	28	600	29	.054	18	19.8	22.5
005	Solder pin	A	28	600	29	.054	18	19.8	22.5
006	Solder pin	B	28	600	29	.054	18	19.8	22.5

1/ Each relay has high level and low level capabilities. However, relays previously tested or used above 10 mA resistive at 6 V dc maximum or peak ac open circuits are not recommended for subsequent use in low level applications.

2/ CAUTION: Use of any coil voltage less than rated coil voltage will compromise the operation of the relay.

3/ When maximum ambient temperature does not exceed +85°C, the maximum coil voltage shall be 32 V dc.

4/ Over the temperature range.

5/ Use MIL-PRF-12883/44, PIN M12883/44-002, for mating socket.

Dielectric withstanding voltage (sea level):

	Initial V rms (60 Hz)	After life tests V rms (60 Hz)
Coil to case	500	350
Coil to coil	500	350
All other points	1,000	750

Dielectric withstanding voltage (altitude):

	80,000 feet V rms (60 Hz)	300,000 ft V rms (60 Hz)
Coil to case	250 V rms	500 V rms
Coil to coil	250 V rms	500 V rms
All other points	250 V rms	500 V rms

ENVIRONMENTAL CHARACTERISTICS

Temperature range: -70°C to +125°C.

Maximum altitude rating: 300,000 feet.

Acceleration: Applicable (15 g's maximum).

Shock (specified pulse): MIL-STD-202, method 213, test condition C (100 g's), except configurations A and C peak g value shall be 200 g's. Contact chatter shall not exceed 10 microseconds maximum for closed contacts and 1 microsecond maximum for open contacts.

Vibration (sinusoidal): Configurations A and C shall be 30 g's, 70 to 3,000 Hz. Configuration B shall be 20 g's, 57 to 3,000 Hz. Contact chatter shall not exceed 10 microseconds maximum for closed contacts and 1 microsecond maximum for open contacts.