

Specification MAP/CV342/Issue 2
 Dated 17.9.47.
 To be read in conjunction with K1001

SECURITY

Specification

Valve

~~RESTRICTED~~

UNCLASSIFIED

————— Indicates a change

TYPE OF VALVE - Miniature Thermal Delay
 Switch (Gas filled)

MARKING

See K1001/4

ENVELOPE - Glass

PROTOTYPE - VX7025

RATING

Note

BASE

B7G

Heater Voltage (V)	6.3	
Heater Current (A)	0.5	
Nom. Closing time delay (secs) at 20°C.	55	
Ambient Temperature Range (°C) over which delay is not less than 45 secs. and not more than 85 secs.	-35 to 85	
Max. % D.C. Voltage between contacts (V)	220	
Max. Surge Current on closing contacts (A)	5.0	
Max. Contact Current (A)	1.0	
Max. Voltage between contacts when breaking circuit (V)	50.0	A
Max. Contact Current when breaking circuit (mA)	100	A

Pin

Electrode

1
2
3
4
5
6
7

Heater
No connection
Active contact
Stationary contact
No connection
No connection
Heater

DIMENSIONS

See K1001/AI/D4

NOTE

- A. The switch contacts are designed for use in closing a circuit and are only suitable for very limited loads when used to break contact with current flowing. The switch is not suitable for maintaining current for prolonged periods.

To be performed in addition to those applicable in K1001.

	Test Conditions			Test	Limits		No. Tested	Notes
	Vh	Voltage across switch contacts	Ambient Temperature		Min.	Max.		
a	6.3	0	-	Ib (A)	0.46	0.52	100% or S	
b	6.3	220D.C. thro' a limiting resistance of 220Ω	Room temperature	1. Contact closing delay time (secs) 2. After an initial spark as contact is made there shall be no further visible flashing or arcing at the contacts during 1 min. operation. 3. Tapping with the fingers when contacts are closed shall produce no intermittency of contact.	45.0	65.0	100% 100%	1, 2 & 3
c	6.3	50V.D.C. thro' a limiting resistance of 500Ω After an initial heating time of not less than 5 mins. the heater supply shall be switched off.	Room temperature	Contact opening delay time (secs)	-	50	5% (6)	4
d	6.0	As in clause 'b'	-35°C	Contact closing delay time (secs)	38	90	5% (6)	1
e	6.6	As in clause 'b'	85°C	Contact closing delay time (secs)	38	85	5% (6)	1

NOTES

1. Contact closing delay time shall be measured from the time of application of heater voltage until contacts close.
2. Valves with contact closing delay time within the range of 45-50 secs. shall be marked with a red spot.
3. Tests b(1), (2) and (3) shall be carried out consecutively.
4. Contact opening delay time shall be measured from the time of the removal of heater voltage until the contacts open for the first time.