



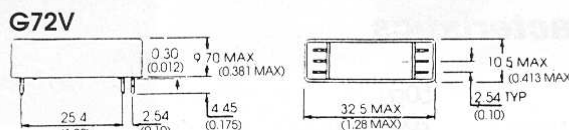
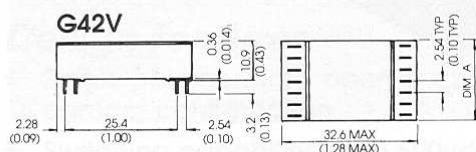
Miniature Telecommunication Reed Relay Series G42V & G72V

Gentech International

The G42V and G72V ranges of BS415 approved dry and mercury wetted, including non-position sensitive mercury wetted relays, has been specially developed to interface mains voltage controlled tele/data communication equipment. This includes Teletext, Modems and similar telecommunication applications. The relays are fully encapsulated to provide an input output isolation of 4,240 VDC. Available in 5, 12 and 24 DC coil voltages and 1A, 1B, 2A, 1A + 1B and 1A + 2B contact forms.

All relays are fitted with magnetic screen.

Mechanical details



Schematic DIM 'A'

1	10.5	(0.413)
2	10.5	(0.413)
3	13.2	(0.516)
4	15.7	(0.618)
5	13.2	(0.516)
6	15.7	(0.618)
7	20.8	(0.819)

NOTES:

1. Outline drawings included as a guide only, and should not be used as certified drawings.
2. All dimensions in millimetres (inches).
3. All terminals 0.51mm (0.020) ± 0.05mm (0.002) x 0.64mm (0.025) ± 0.05mm (0.002) spaced as shown.

Switching Characteristics

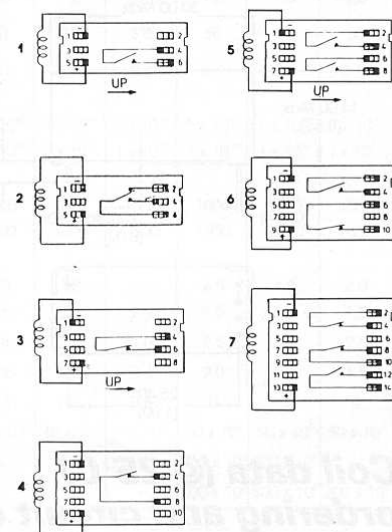
	Form A	Form B	Form C	Form A + B	Form A	Form B	Form ANP Non Pos. Sensitive
Maximum Switching Voltage (VDC)	200	200	100	200	500	500	350
Maximum Switching Current (Amps)	1.0	1.0	0.25	1.0	1.0	1.0	1.0
DC Contact Rating (Watts)	10	10	3.0	10	50	50	50
Initial Contact Resistance (Ohms)	0.1	0.1	0.2	0.1	0.05	0.05	0.15
Minimum Insulation Resistance (Ohms)							
Coil/Contact	1x10 ¹⁰	1x10 ¹⁰	1x10 ¹⁰	1x10 ¹⁰	1x10 ¹⁰	1x10 ¹⁰	1x10 ¹⁰
Contact/Contact	1x10 ¹⁰	1x10 ¹⁰	1x10 ¹⁰	1x10 ¹⁰	1x10 ¹⁰	1x10 ¹⁰	1x10 ⁸
Minimum Breakdown Voltage							
Coil/Contact (VDC)	4240	4240	4240	4240	4240	4240	4240
Across Contacts (VDC)	300	300	200	300	1500	1500	2000
Capacitance (picofarads -typical)							
Coil/Contact	3	3	3	3	4	4	4
Across Open Contact	0.5	0.5	2.0	0.5	0.5	0.5	1.5
Operate Time @ Rated Voltage (m.Sec)	0.8	1.0	1.0	1.0	2.5	2.5	2.5
Release Time @ Rated Voltage (m.Sec)	0.06	0.06	0.4	0.06	2.0	2.0	1.5
Bounce Time @ Rated Load (m.Sec)	0.3	0.35	0.8	0.35	0	0	0
Contact Life (typical) @ Rated Load							
M.T.B.F. 90% conf. level	10x10 ⁶	10x10 ⁶	5x10 ⁶	10x10 ⁶	50x10 ⁶	50x10 ⁶	50x10 ⁶

Environmental Specifications

- Temperature Range: Operate -20°C +85°C Storage -35°C to +125°C
- Vibration: Relays will withstand 30g from 60-2000 Hz
- Shock 50G @ 11 Milliseconds.

Schematics

(viewed from underside of relay)



Coil Data (@ 25°C)

Ordering Code	Contact Form	Coil Resistance (Ohms) ± 10%	Must Operate Voltage (VDC)	Must Release Voltage (VDC)	Max Voltage (VDC)	Nominal Coil Voltage (VDC)	Schematic No.
G72V-5-1A1	1A	140	3.5	0.4	12.0	5.0	1
G72V-12-1A1	1A	855	8.4	0.7	29.0	12.0	1
G72V-24-1A1	1A	5000	18.0	2.0	70.0	24.0	1
G72V-51-1A1	1A	500	3.5	0.2	10.0	5.0	1
G72V-5-HG1A1*	1AHG	140	3.75	0.4	10.0	5.0	1
G72V-12-HG1A1*	1AHG	855	8.6	0.7	29.0	12.0	1
G72V-24-HG1A1*	1AHG	2300	18.0	1.5	49.0	24.0	1
G72V-12-NP1A1	1ANP	855	8.6	0.7	29.0	12.0	1
G72V-121-NP1A1	1ANP	1000	9.0	0.5	25.0	12.0	1
G42V-5-1B3	1B	180	3.5	0.36	6.5	5.0	3
G42V-12-1B3	1B	1100	8.4	1.0	14.7	12.0	3
G42V-12-HG1B3*	1BHG	680	8.5	0.7	14.0	12.0	3
G42V-5-1B4	1B	135	3.5	0.6	8.0	5.0	4
G42V-12-1B4	1B	680	8.4	0.7	14.0	12.0	4
G72V-5-1C2	1C	500	3.5	0.5	7.5	5.0	2
G72V-12-1C2	1C	855	8.6	0.7	29.0	12.0	2
G72V-24-1C2	1C	5000	18.0	2.0	70.0	24.0	2
G42V-5-2A5	2A	70	3.5	0.25	9.0	5.0	5
G42V-12-2A5	2A	400	8.4	0.65	26.0	12.0	5
G42V-12-HG2A5*	2AHG	400	8.4	0.65	26.0	12.0	5
G42V-5-1A1B6	1A + 1B	55	3.5	0.3	6.0	5.0	6
G42V-12-1A1B6	1A + 1B	370	8.4	0.7	15.0	12.0	6
G42V-5-1A2B7	1A + 2B	75	3.4	0.5	8.0	5.0	7

* Mercury Wetted Relays: Must be mounted ± 30° from vertical in direction of arrow. UP →

CAUTION: This product contains a glass capsule and mercury and should not be opened or dismantled.