

Clare

Special Application Relays



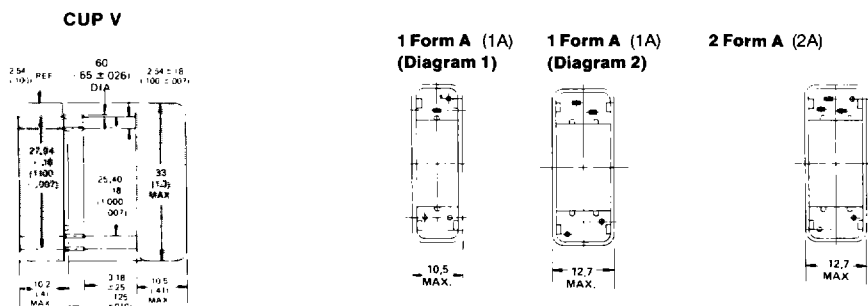
Engineering Specifications	CUP V Dry Reed	CUP V High Performance
Description	High isolation input to output. BSI approved	High isolation input to output. BSI approved
Contact Form	1A, 2A, 1B, 1A1B, 2A2B	1A, 1B, 2A
Contact Rating		
Maximum switching power	10VA	50VA
Maximum switching voltage	200VDC or Peak AC	350VDC or Peak AC
Maximum switching current	0.75A	1.00A
Maximum carry current	2.00A	2.00A
Contact Resistance, Initial	200 milliohms max	100 milliohms max
Contact Material	Ruthenium	Mercury All Position
Life Expectancy		
Signal level load (ref 10VDC, 10mA)	300 x 10 ⁶	200 x 10 ⁶
Timing (at nominal VDC, 10Hz drive, 50% duty cycle with diode suppression)		
Operate time, maximum (Including Bounce)	1.0ms	2.7ms (No Bounce)
Release time, maximum	1.0ms	1.75ms
Breakdown Voltage		
Coil to contact	4000Vrms 5600VDC	4000Vrms 5600VDC
Across contacts	250Vrms 350VDC	1400Vrms 2000VDC
Insulation Resistance (Ohms)	10 ¹⁰	10 ¹⁰
Capacitance		
Across open contacts	2.5pf max	2.0pf max
Open contact to coil	5.0pf max	3.8pf max
Environmental		
Temperature		
Total internal relay (storage)	-40°C to +105°C	-40°C to +105°C
Operating	-40°C to +85°C	-38.8°C to +75°C
Shock resistance	50g, 11 ± 1ms, 1/2 Sine Wave	30g, 11 ± 1ms, 1/2 Sine Wave
Vibration resistance	20g, 5 to 2000Hz	10g, 10 to 500Hz

Features:

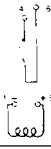

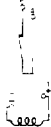




CUPV Relay—Designed to meet the most stringent telecommunications specifications on a worldwide basis, the Clare CUPV relay has been approved and certified by the PBT and British Standards Institute for direct Datacom Interface. Ideal for optional high isolation between input and output (up to 4000Vrms).

Mechanical Dimensions

All dimensions are measured in millimeters (inches).



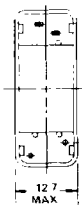
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Part Number	Schematic Contact Form (Bottom View)	Nominal Voltage (VDC)	Coil Resistance (Ohms +/- 10%)	Nominal Input Power (mW)	Must Operate Voltage (VDC) Must Operate Current (mA)	Must Release Voltage (VDC) Must Release Current (mA)	Maximum Voltage (VDC) Maximum Current (mA)	Options
CUPV10001* CUPV10002* BSI Certified (4000 Vrms)	1 Form A Dry Reed 	5 12	525 3000	38 48	3.50VDC 8.40VDC	0.28VDC 0.70VDC	12VDC 29VDC	•None available
CUPV10025* CUPV10019* BSI Certified (4000 Vrms)	2 Form A 2 Form B Dry Reed 	5 12	110 630	228 229	3.5VDC 8.4VDC	0.25VDC 0.70VDC	6VDC 14VDC	•None available
CUPV10201* CUPV10202* BSI Certified (4000 Vrms)	1 Form B Dry Reed 	5 12	300 1600	84 90	3.5VDC 8.4VDC	0.36VDC 1.00VDC	6VDC 14VDC	•None available
CUPV10301* CUPV10302* BSI Certified (4000 Vrms)	1 Form A 1 Form B Dry Reed 	5 12	125 750	200 192	3.5VDC 3.4VDC	0.30VDC 0.70VDC	6VDC 15VDC	•None available
CUPV60003 CUPV60004 CUPV60005 CUPV60006 BSI Certified (4000 Vrms)	1 Form A Mercury 	5 12 24 48	140 1000 2300 8970	178 144 250 257	3.75VDC 9.00VDC 18.00VDC 36.00VDC	0.50VDC 1.40VDC 2.20VDC 4.40VDC	12VDC 30VDC 49VDC 97VDC	•None available
CUPV60201 CUPV60202 CUPV60203 CUPV60204 BSI Certified (4000 Vrms)	1 Form B Mercury 	5 12 24 48	180 1100 4240 14000	139 131 136 165	3.75VDC 9.00VDC 18.00VDC 36.00VDC	0.40VDC 1.00VDC 2.00VDC 4.00VDC	6.5VDC 15VDC 30VDC 60VDC	•None available
CUPV60401 CUPV60402 CUPV60403 CUPV60404 BSI Certified (4000 Vrms)	2 Form A Mercury 	5 12 24 48	110 600 1600 6200	227 240 360 372	3.75VDC 9.00VDC 18.00VDC 36.00VDC	0.60VDC 1.50VDC 1.30VDC 4.80VDC	10VDC 24VDC 48VDC 94VDC	•None available

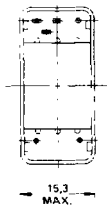
*Designates standard stocking item for authorized Clare distributors.

Contact the Chicago facility or area sales office for part numbering scheme for available options.

1 Form B (1B)



1 Form A - 1 Form B (1A 1B)



2 Form A - 2 Form B (2A 2B)

