HR703V

1 Pole 10A cubic relay

Features

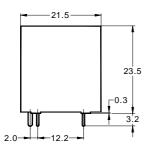
- 10A carry current contact
- Epoxy sealed type standard
- · Gold flashed contact type available



· Home appliance, Office equipment, Vending machine, Industrial control



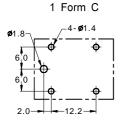
Dimensions (mm)To convert into inches, multiply by 0.03937

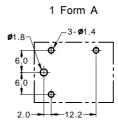




PC Board Layout

Copper-side view





Schematic

Copper-side view

1 Form C



1 Form A



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Contact data

Arrangement		1 Form A (SPST) to 1 Form C (SPDT)		
Contact material		AgCdO		
Initial contact resistance		100m		
Rated load, resistive		10A 30VDC 10A 250VAC		
Maximum carry current		10A		
Maximum switching capacity	with DC voltage: with AC voltage:	300W 2,500VA		
Maximum switching voltage		110VDC 380VAC		

Coil data

Nominal voltage	5VDC to 48VDC		
Nominal power consumption ¹⁾	360mW		
Operate voltage ²⁾	80% of nominal voltage		
Release voltage ³⁾	10% of nominal voltage		

 $[\]overline{{}^{1),\;2),\;3)}\text{The values depend on coil voltage, see Part selection chart}$

General data

Operate time		15ms max. at nominal voltage		
Release time		10ms max. at nominal voltage		
Initial insulation resistance		100 M Ω min. (500VDC)		
Dielectric strength Between open contacts: Between contacts and coil:		750VAC _{rms} for 1 minute 1,500VAC _{rms} for 1 minute		
xpected life Mechanical: Electrical:		More than 10,000,000 operations More than 100,000 operations at rated load		
Vibration resistance	Functional: Destructive:	10∼55Hz dual amplitude: 1.5mm 10∼55Hz dual amplitude: 1.5mm		
Shock resistance Functional: Destructive:		10G min. 100G min.		
Ambient temperature		-20° to $+70^{\circ}$ (with no icing)		
Humidity		35% to 85% RH		
Weight		9.5g approx.		

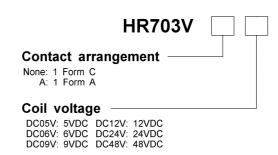
Note: The above figures are initial values

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HR703V

Part number description





Part number description is provided for reference, part number can not be arbitrarily composed. Refer to the part numbers shown in the table below. Special designs to customer specifications are possible; please contact HR.

Part selection Distributor stock item

Part number	Nominal voltage (VDC)	Coil resistance (Ω±10%)	Nominal current (mA)	Must operate voltage (VDC)	Must release voltage (VDC)	Max voltage (VDC)	Nominal power (mW)
1 Form A							
HR703VA DC05V	5	70	72	4.0	0.5	6.5	
HR703VA DC06V	6	100	60	4.8	0.6	7.8	
HR703VA DC09V	9	225	40	7.2	0.9	11.7	360
HR703VA DC12V	12	400	30	9.6	1.2	15.6	
HR703VA DC24V	24	1,600	15	19.2	2.4	31.2	
HR703VA DC48V	48	6,400	7.5	38.4	4.8	62.4	
1 Form C							
HR703V DC05V	5	70	72	4.0	0.5	6.5	
HR703V DC06V	6	100	60	4.8	0.6	7.8	
HR703V DC09V	9	225	40	7.2	0.9	11.7	360
HR703V DC12V	12	400	30	9.6	1.2	15.6	
HR703V DC24V	24	1,600	15	19.2	2.4	31.2	
HR703V DC48V	48	6,400	7.5	38.4	4.8	62.4	

Note: All values in the chart are measured at 23 $\ensuremath{\mathfrak{C}}$

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