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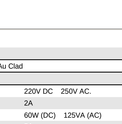
Electromechanical Relays

Hasco Component's electromechanical relays range from less than an amp to 80 amps. Hasco's relays are UL and CSA with some TUV ratings. All relays have DC coils and many have an AC coil. They come sealed for wave soldering and washing thereby allowing the relays to be put on any assemble line. There are surface mount low current relays available as well.

DPDT PC 150 MW POWER CONSUMPTION

SMALL SIZED POLARIZED RELAY BEING CAPABLE FOR WIDE



FEATURES

- High sensitive 2 pole relay suitable for signalcircuit
- Ultra-high sensitive type 150mW
  High sensitive type 200mW. Standard type 400mW
- Latching type relay provided with memory function is available too
- Adopts twin contacts that are superior in contact reliability
- Gold-clad Silver palladium contact available too
- Completely enclosed type relay with sealed construction being superior in durabilityto the environment
- UL File No. 75887
- CSA File No. 180958 (LR93742)
- BABT Certificate No. 609662

APPLICATIONS

- Switch board. Facsimile. Telephones
- Audio equipment. Industrial machines

CONTACT RATING

Contact arrangement		DPDT (2C)
Contact Material		Ag + Au clad or AgPd + Au Clad
Initial contact resistance max.		Max. 50mOhms
Contacting (Resistive load)	Max. switching voltage	220V DC 250V AC.
	Max. switching current	2A
	Max. switching power	60W (DC) 125VA (AC)
	Max. carry current	2A
	Rated contact load	2A 30VDC 1A 125VAC

GENERAL DATA

Life expectancy	**Mechanical Life**	100,000,000 Operations (at 600cpm)
		300,000,000 Operations (2A 30VDC)(at 20cpm)
	Electrical Life	1,000,000 Operations (1A 30VDC) (at20cpm)
Operate/Release time	Operate time (Set/Reset time)	Max. 5 msec.
	Release time	Max. 3.5 msec.
Temperature Characteristics	Coil Temp. Rise Standard	Less than 40°C (at nominal coilvoltage)
	Sensitive	Less than 30°C (at nominal coilvoltage)
	Operate ambient temp.	-40°C to +70°C (Without beingfrozen)
	Storage ambient temp.	-40°C to +80°C (Without beingfrozen)
Initial breakdown voltage	Between coil and contacts	1,500Vrms (1 minute)
	Between open contacts	1,000Vrms (1 minute)
Initial insulation resistance		Min. 100M Ohms (at 500V DC)
Environmental requirement	Ambient humidity	Max. 85% RH
Vibration resistance	Vibration (Malfunction)	10 ~55Hz at double amplitude of 1.5mm
Shock resistance	Mechanical damage	Min. 980m/s2 (100G)
	Malfunction	Min. 342m/s2 (40G)

ORDERING INFORMATION

HAS112 (standard)
HS212 (sensitive)
NIL: Single side stable
L: 2 coil latching K: 1 coil latching
Coil Voltage
5, 6, 9, 12, 24, 48

COIL RATING1Single Side Stable at 120°C *1.5 & 3V Available

Relay Code	Nominal Voltage	Coil Resistance (W) ±10%	Nominal Current (mA)	Pick-Up Voltage	Drop-Out Voltage	Max. Allowable Voltage	Nominal Power (mW)
HAS-112-5	5	62.5	80	70% of Nominal Voltage	10% of Nominal Voltage	150% of Nominal Voltage	Approx. 400mW
HAS-112-6	6	90	60				
HAS-112-9	9	203	40				
HAS-112-12	12	360	30				
HAS-112-24	24	1440	10				
HAS-112-48	48	5760	8				

COIL RATING1 Coil Latching at 20°C

Relay Code	Nominal Voltage	Coil Resistance (W) ±10%	Nominal Current (mA)	Pick-Up Voltage	Max. Allowable Voltage	Nominal Power (mW)
HAS-112K-5	5	69.4	72	70% of Nominal Voltage	150% of Nominal Voltage	Approx. 360mW
HAS-112K-6	6	100	60			
HAS-112K-9	9	225	40			
HAS-112K-12	12	400	30			
HAS-112K-24	24	1600	15			
HAS-112K-48	48	6400	7.5			

COIL RATING2 Coil Latching at 20°C

Relay Code	Nominal Voltage	Coil Resistance (W) ±10%	Nominal Current (mA)	Pick-Up Voltage	Max. Allowable Voltage	Nominal Power (mW)
HAS-112L-5	5	69.4	72	70% of Nominal Voltage	150% of Nominal Voltage	Approx. 360mW
HAS-112L-6	6	100	60			
HAS-112L-9	9	225	40			
HAS-112L-12	12	400	30			
HAS-112L-24	24	1600	15			
HAS-112L-48	48	6400	7.5			

COIL RATING1Single Stable at 20°C

Relay Code	Nominal Voltage	Coil Resistance (W) ±10%	Nominal Current (mA)	Pick-Up Voltage	Drop-Out Voltage	Max. Allowable Voltage	Nominal Power (mW)
HS-212-5	5	167	29	80% of Nominal Voltage	10% of Nominal Voltage	230% of Nominal Voltage	Approx. 150mW
HS-212-6	6	240	25				
HS-212-9	9	540	16.6				
HS-212-12	12	960	12.5				
HS-212-24	24	3840	6				
HS-212-48	48	15360	3				

COIL RATING1 Coil Latching at 20°C

Relay Code	Nominal Voltage	Coil Resistance (W) ±10%	Nominal Current (mA)	Pick-Up Voltage	Max. Allowable Voltage	Nominal Power (mW)
HS-212K-5	5	139	35.9	70% of Nominal Voltage	200% of Nominal Voltage	Approx. 180mW
HS-212K-6	6	200	30			
HS-212K-9	9	450	20			
HS-212K-12	12	800	15			
HS-212K-24	24	3200	7.5			
HS-212K-48	48	12800	3.7			

COIL RATING2 Coil Latching at 20°C

Relay Code	Nominal Voltage	Coil Resistance (W) ±10%	Nominal Current (mA)	Pick-Up Voltage	Max. Allowable Voltage	Nominal Power (mW)
HS-212L-5	5	139	35.9	70% of Nominal Voltage	200% of Nominal Voltage	Approx. 180mW
HS-212L-6	6	200	30			
HS-212L-9	9	450	20			
HS-212L-12	12	800	15			
HS-212L-24	24	3200	7.5			
HS-212L-48	48	12800	3.7			

DIMENSIONS

GRAPHS

PART NUMBERS

HAS112DC5	HAS112KDC5P	HS212KDC5P
HAS112DC6	HAS112KDC6P	HS212KDC6P
HAS112DC9	HAS112KDC9P	HS212KDC9P
HAS112DC12	HAS112KDC12P	HS212KDC12P
HAS112DC24	HAS112KDC24P	HS212KDC24P
HAS112DC48	HAS112KDC48P	HS212KDC48P
HS212DC5	HAS112LDC5P	HS212LDC5P
HS212DC6	HAS112LDC6P	HS212LDC6P
HS212DC9	HAS112LDC9P	HS212LDC9P
HS212DC12	HAS112LDC12P	HS212LDC12P
HS212DC24	HAS112LDC24P	HS212LDC24P
HS212DC48	HAS112LDC48P	HS212LDC48P
HS212DC48B	HS212DC5P	
HAS112DC5P	HS212DC6P	
HAS112DC6P	HS212DC9P	
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HAS112DC48P		

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