

HR723

World famous 30A 1,2-pole heavy duty power relay

Features

- Designed to match magnetic contactor capability at a much lower cost
- Multi contact arrangement
- Very low operation sound level
- Plastic cover standard for 2 Form A and 2 Form C

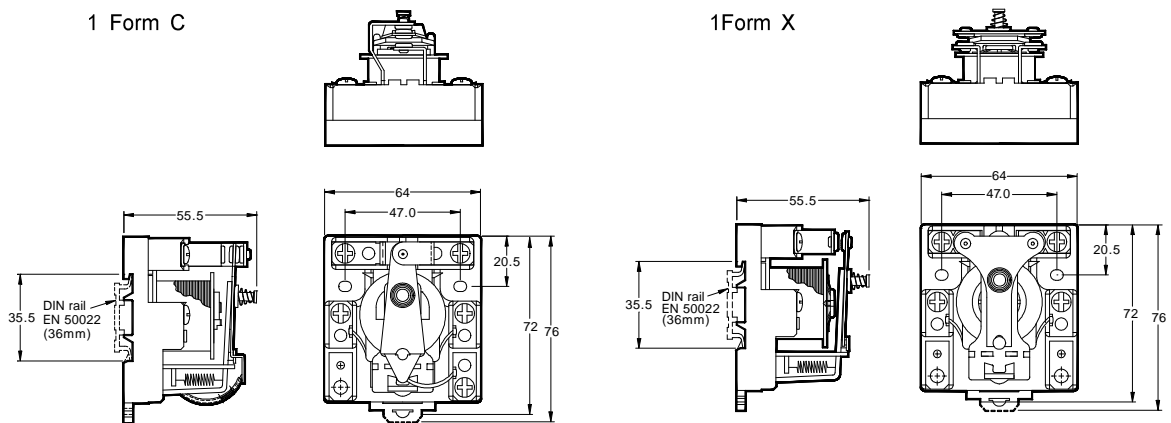


Applications

- Heater, Motor, Lamp load, Compressor

Dimensions (mm)

To convert into inches, multiply by 0.03937



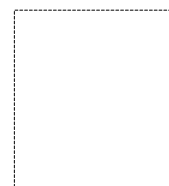
Schematic

Top view

1 Form C



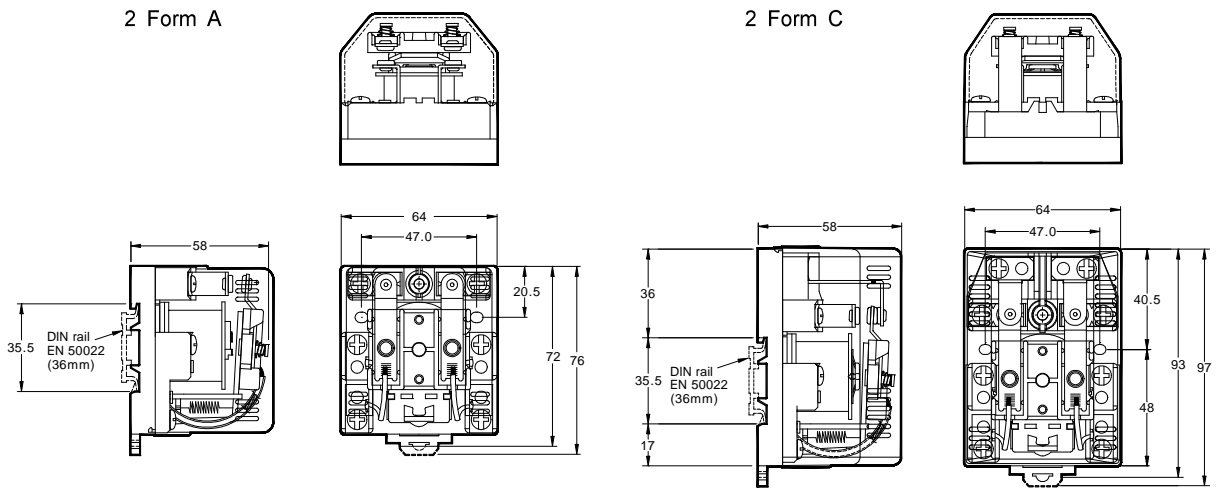
1 Form X



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Dimensions (mm)

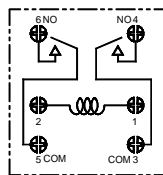
To convert into inches, multiply by 0.03937



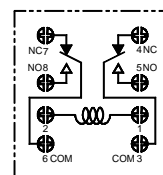
Schematic

Top view

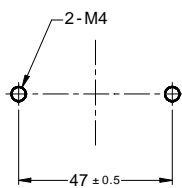
2 Form A



2 Form C



Mounting Layout



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Contact data

Arrangement	1 Form C, 1 Form X, 2 Form A, 2 Form C	
Contact material	Silver Cadmium Oxide	
Initial contact resistance	100m Ω max.	
Rated load, resistive	30A 24VDC 30A 250VAC	
Maximum carry current	30A	
Maximum switching capacity	with DC voltage: with AC voltage:	480W 7,500VA
Maximum switching voltage	110VDC 250VAC	

Coil data

Nominal voltage	6VDC to 100VDC 6VAC to 240VAC	
Nominal power consumption ¹⁾	DC Coil: AC Coil:	2.4W to 2.8W approx. 9.6VA (60Hz) approx.
Operate voltage ²⁾	80% of nominal voltage	
Release voltage ³⁾	DC Coil: AC Coil:	10% of nominal voltage 30% of nominal voltage

^{1), 2), 3)}The values depend on coil voltage, see Part selection chart

General data

Operate time	30ms max. at nominal voltage	
Release time	30ms max. at nominal voltage	
Initial insulation resistance	100 M Ω min. (500VDC)	
Dielectric strength	Between open contacts: Between contacts and coil:	2,000VAC _{rms} 2,500VAC _{rms}
Expected life	Mechanical: Electrical:	More than 5,000,000 operations More than 100,000 operations at rated load
Vibration resistance	Functional: Destructive:	10~55Hz dual amplitude: 3.3mm 10~55Hz dual amplitude: 5.0mm
Shock resistance	Functional: Destructive:	20G min. 100G min.
Ambient temperature	DC Coil: AC Coil:	-55 $^{\circ}$ C to +80 $^{\circ}$ C -55 $^{\circ}$ C to +45 $^{\circ}$ C
Humidity	5% to 85% RH	
Weight	1 Form C, 1 Form X: 200g approx. 2 Form A: 250g approx. 2 Form C: 300g approx.	

Note: The above figures are initial values

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Part number description



HR723-

Contact arrangement

C: 1 Form C (SPDT) X: 1 Form X (SPST-DOUBLE MAKE)
2A: 2 Form A (DPST) 2C: 2 Form C (DPDT)

Enclosure

None: with protective cover
N: without protective cover
Note: 1 Form X and 1 Form C are not applicable for the protective cover

Coil voltage

6VDC	6VAC	220VAC
12VDC	12VAC	240VAC
24VDC	24VAC	
48VDC	50VAC	
100VDC	110VAC	

Part number description is provided for reference, part number cannot 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 items

Part number	Nominal voltage (V)	Coil resistance (Ω ±10%)	Nominal current (mA)		Must operate voltage (V)	Must release voltage (V)	Max voltage (V)	Nominal power (W, VA)
			60Hz	50Hz				
1 Form C, 1 Form X, 2 Form A, 2 Form C								
HR723- <input type="text"/> <input type="text"/> DC006	6	12.6	470		4.8	0.6	6.6	2.4 to 2.8 approx.
HR723- <input type="text"/> <input type="text"/> DC012	12	57	210		9.6	1.2	13.2	
HR723- <input type="text"/> <input type="text"/> DC024	24	233	103		19.2	2.4	26.4	
HR723- <input type="text"/> <input type="text"/> DC048	48	986	50		38.4	4.8	52.8	
HR723- <input type="text"/> <input type="text"/> DC100	100	4,055	25		80.0	10.0	110	
HR723- <input type="text"/> <input type="text"/> AC006	6	—	1,640	2,000	4.8	1.8	6.6	9.6 (60Hz) Approx.
HR723- <input type="text"/> <input type="text"/> AC012	12	—	820	1,000	9.6	3.6	13.2	
HR723- <input type="text"/> <input type="text"/> AC024	24	—	410	500	19.2	7.2	26.4	
HR723- <input type="text"/> <input type="text"/> AC050	50	—	192	232	40.0	15.0	55.0	
HR723- <input type="text"/> <input type="text"/> AC110	110	—	87.2	104.6	88.0	33	121	
HR723- <input type="text"/> <input type="text"/> AC220	220	—	42	50	176	66	242	
HR723- <input type="text"/> <input type="text"/> AC240	240	—	38	45.6	192	72	264	

Note: All values in the chart are measured at 23°C