HR707N

An impreved octal-plug general purpose relay

Features

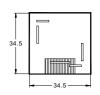
- Replaces HR707 series
- 10A 2 Form C (DPDT) 3 Form C (3PDT) configurations
- Ruggedly constructed for long operating life
- Dielectric strength 2,500V enhanced from 1,500V of HR707 series

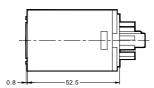


· Voltage or current monitoring



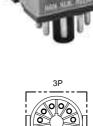
Dimensions (mm)To convert into inches, multiply by 0.03937





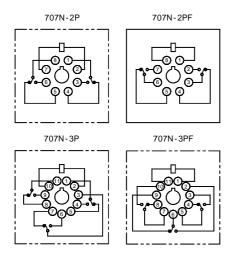


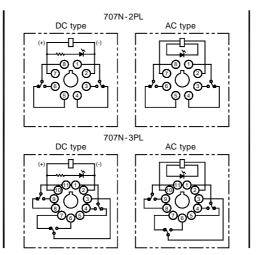




Schematic

Base view





82 HanKuk Relay

HR707N

Contact data

Arrangement		2 Form C, 3 Form C
Contact material		AgCdO
Initial contact resistance		50mΩ max.
Rated load, resistive		10A 28VDC 10A 250VAC
Maximum carry current		10A
Maximum switching capacity	with DC voltage: with AC voltage:	280W 2,500VA
Maximum switching voltage		250VDC 250VAC
Minimum switching rating ¹⁾		100mA 5VDC

¹⁾ Min. Switching Load mentioned above are reference values. Therefore it is recommended to perform the confirmation test with the actual load before production since reference values may vary according to switching frequencies, environmental conditions and expected reliability levels.

Coil data

Nominal voltage	6VDC to 100VDC 6VAC to 240VAC
Nominal power consumption ²⁾	1.3W to 1.6W approx. 2.1VA to 2.4VA (60Hz) approx.
Operate voltage ³⁾	80% of nominal voltage
Release voltage ⁴⁾	10% of nominal voltage 30% of nominal voltage

 $^{^{2),\,3),\,4)}}$ The values depend on coil voltage, see Part selection chart

General data

Operate time	DC Coil:	30ms max. at nominal voltage			
	AC Coil:	20ms max. at nominal voltage			
Release time		20ms max. at nominal voltage			
Initial insulation resistance		100 M Ω min. (500VDC)			
Dielectric strength	Between open contacts: Between contacts and coil:	1,000VAC _{rms} of 1 minute 2,500VAC _{rms} of 1 minute			
Expected 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: 1.0mm 10∼55Hz dual amplitude: 1.5mm			
Shock resistance	Functional: Destructive:	10G min. 100G min.			
Ambient temperature		$-10^\circ\!$			
Humidity		35% to 85% RH			
Weight		75g approx.			

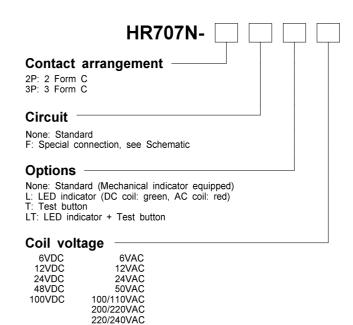
Note: The above figures are initial values

HanKuk Relay 83

HR707N

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

☐ Fill in the codes to the part number by selecting them from the part number description

Part number	Nominal voltage	Coil resistance	Nominal current (mA)		Must operate voltage	voltage	voltage	Nominal power	
	(V)	$(\Omega \pm 10\%)$	50Hz	60Hz	(V)	(V)	(V)	(W,VA)	
DC Coil									
HR707N-□□□ 6VDC	6	23.5	225		4.8	0.6	6.6	1.3 to 1.6 approx.	
HR707N-□□□ 12VDC	12	95	126		9.6	1.2	13.2		
HR707N-□□□ 24VDC	24	430	71		19.2	2.4	26.4		
HR707N-□□□ 48VDC	48	1,630	48		38.4	4.8	52.8		
HR707N-□□□ 100VDC	100	6,800	14.7		80.0	10	110		
AC Coil									
HR707N-□□□ 6VAC	6	5.3	400	360	4.8	1.8	6.6	2.1 approx. (60Hz)	
HR707N-□□□ 12VAC	12	21.5	198	180	9.6	3.6	13.2		
HR707N-□□□ 24VAC	24	91.0	97	88	19.2	7.2	26.4		
HR707N-□□□ 48VAC	48	420	42.6	40	38.4	14.4	52.8		
HR707N-□□□ 100/110VAC	100/110	1,620	22.4/24.7	19/21	80/88	30/33	110/121	2.4	
HR707N- 200/220VAC	200/220	7,100	11.7/12.9	9.7/10.7	160/176	60/66	220/242	approx. (60Hz)	
HR707N-□□□ 220/240VAC	220/240	7,600	8/10	7/9	176/192	66/72	242/264		

Note: All values in the chart are measured at 23 $\! ^\circ\!\!\!\!\! \mathrm{C}$

84 HanKuk Relay