

HHC71-4

High power industrial relays



- Up to 80A switching capability
- Top Flange Mounting
- AC & DC Coils
- Brushless DC Motor Control
- Electric Vehicle Motor Control

- RoHS Compliant
- UL Recognized



Contacts

Number and type of contacts	SPST-NO, SPST-NC, SPDT, 3PST-NO, 3PST-NC, 3PDT	
Contact Material	Silver Alloy	
Rated voltage / max. switching voltage	250VAC / 24VDC	
Max. breaking capacity	80A	
Coil		
Rated voltage 50/60Hz	AC	6...380V - See Table 2
	DC	6...110V - See Table 1
Rated power consumption	AC	6.5VA
	DC	2.0W
Insulation		
Insulation resistance	500M Ω 500VDC	
Dielectric strength		
• between coil and contacts	2500VAC	
• Between contacts	1500VAC	
General Data		
Ambient temperature:	(operating / storage)	-40°C to +70°C
Operating time (typical)	\leq 25ms	
Release time (typical)	\leq 25ms	
Electrical life:	(resistive AC1)	2×10^4
Mechanical life (cycles)	1×10^6	
Cover protection category	IP67	
Shock resistance	Functional 10G; Destruction 100G	
Vibration resistance	10-55Hz at D.A 1.5mm	
Weight (approx)	285g	



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Coil Data

Table 1

Coil Voltage Code	Nominal Voltage	Resistance	Must Operate	Must Release
			Voltage max.	Voltage min.
	VDC	(Ω) \pm 10%	VDC	VDC
1006	6	10	4.50	0.6
1009	9	22.5	6.75	0.9
1012	12	40	9.00	1.2
1024	24	160	18.00	2.4
1048	48	640	36.00	4.8
1060	60	1000	45.00	6.0
1110	110	3360	82.50	11.00

Coil Data

Table 2

Coil Voltage Code	Nominal Voltage	Resistance	Must Operate	Must Release
			Voltage max.	Voltage min.
	VAC	(Ω) \pm 10%	VAC	VAC
5006	6	1.2	4.80	1.8
5009	9	2.7	7.2	2.7
5012	12	4.8	9.6	3.6
5024	24	19.2	19	7.2
5048	48	77	38.4	14.4
5060	60	120	48.0	18.0
5110	110	403	88.0	33.0
5220	220	1620	176	66.0
5380	380	4813	304	114.0



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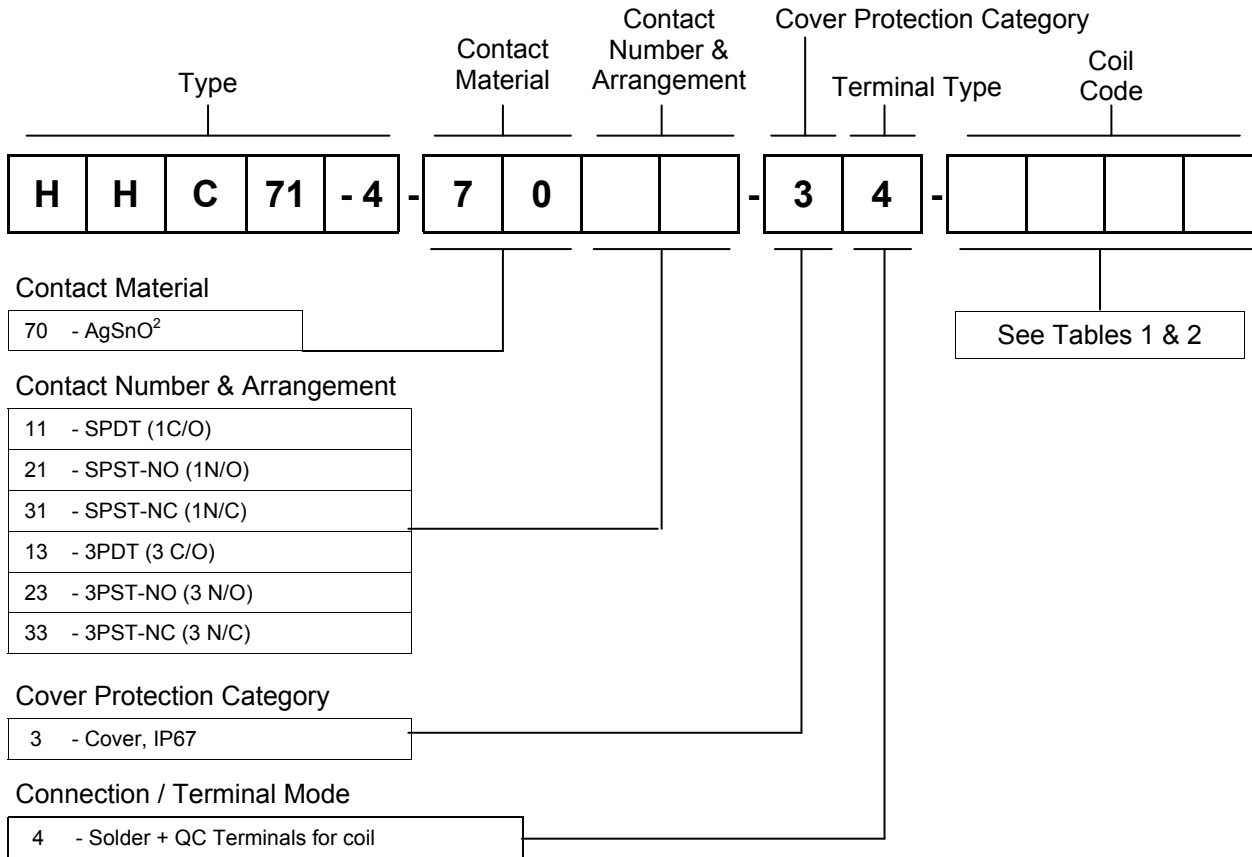
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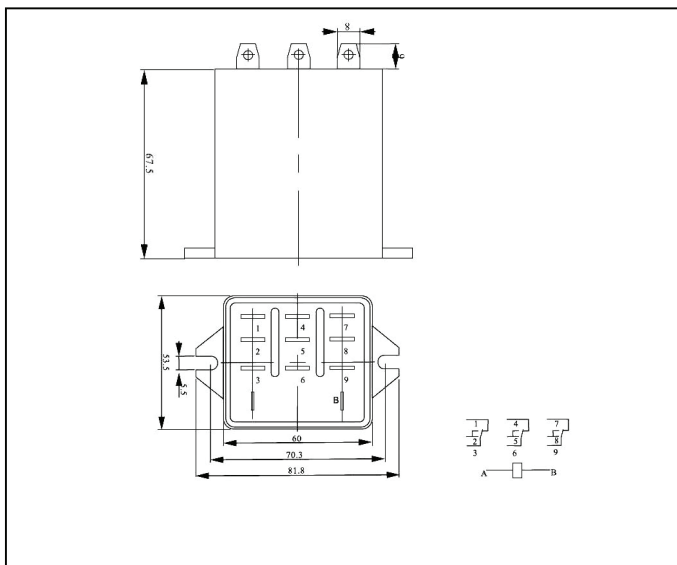


Ordering Codes



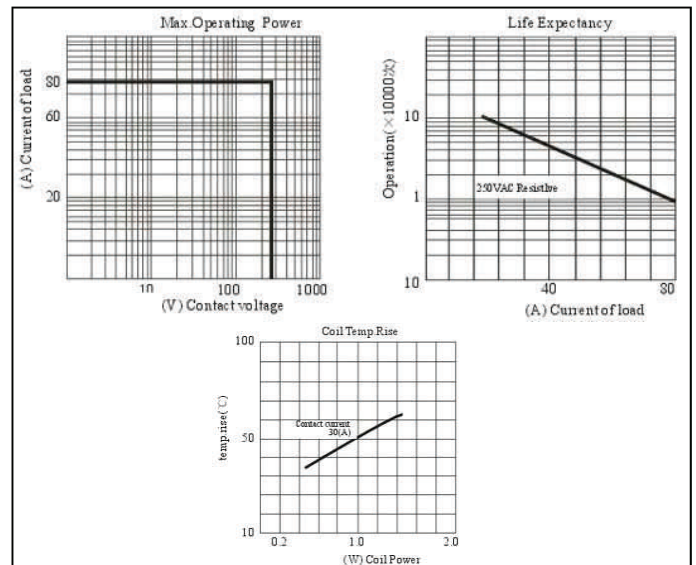
Overall Dimensions

Fig. 1



Reference Graphs

Fig. 2



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