



HANDOUK

HL3

■ FEATURES

- 1Form A and 2 Form A Configuration
- 10A and 5A contact rating in compact size
- Sealed type

■ CONTACT DATA

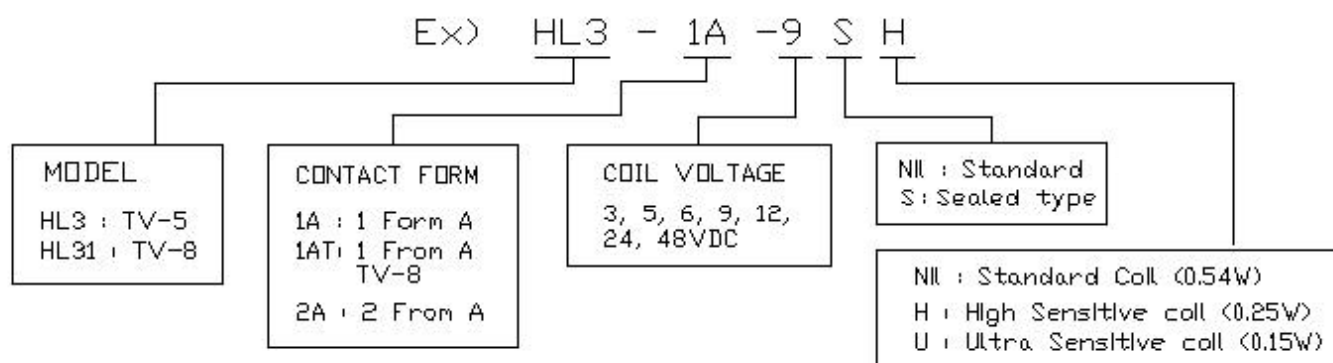


Contact Form	HL31-1A(TV-8)		HL3-1A(TV-5)	HL3-2A
Contact Material	Ag Alloy		AgSnO ₂	
Contact Ratings	10A 250VAC 5A 30VDC		10A 250VAC 10A 30VDC	5A 250VAC 5A 30VDC
Max Switching Voltage	250VAC / 30VDC			
Max Switching Current	10A		12A	7A
Max Switching Power	2,500VA / 150W		2,500VA / 300W	1,250VA / 150W
Contact Resistance	100mΩ Max at 6VDC 1A			
Life Expectancy	Electrical	100,000operations at 30operations/minute)		
	Mechanical	10,000,000operations		

■ GENERAL DATA

Insulation Resistance		100M Ω Min. at 500VDC	
Dielectric Strength	Open Contacts	1,000VAC (For one minute)	
	Contacts and Coil	4,000VAC (For one minute)	
Operate Time		20ms	
Release Time		10ms	
Temperature Range		-40℃ ~ 70℃	
Shock Resistance	Operate Extremes	10G	
	Damage Limits	100G	
Vibration Resistance		10 ~ 50Hz 1.5mm	
Humidity		20 ~ 85%	
Weight		Approx 11g	13g
Safety Standard	TUV	R50056430	
	UL	UL222977	UL197546

■ ORDERING INFORMATION

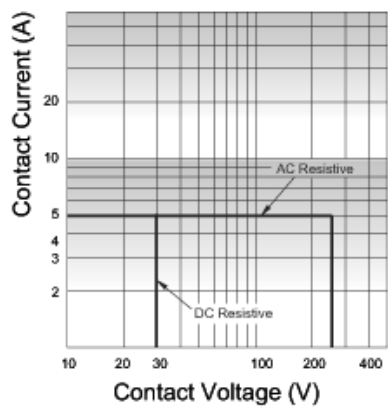


■ COIL DATA

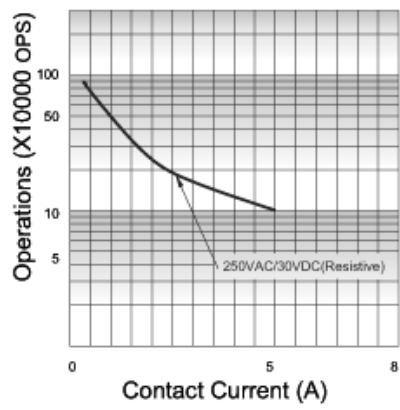
Nominal Voltage (VDC)	Coil Resistance at 20 ±10% Ω		Max Operating Voltage (VDC)	Min Release Voltage (VDC)	Max Applicable Voltage (VDC)
	0.25W	0.54W			
3	36 Ω	17 Ω	2.25	0.3	3.9
5	100 Ω	46 Ω	3.75	0.5	6.5
6	144 Ω	67 Ω	4.5	0.6	7.8
9	324 Ω	150 Ω	6.75	0.9	11.7
12	576 Ω	267 Ω	9	1.2	15.6
24	2,304 Ω	1,066 Ω	18	2.4	31.2
48	9,216 Ω±15%	4,266 Ω±15%	36	4.8	62.4

■ USEFUL CURVE

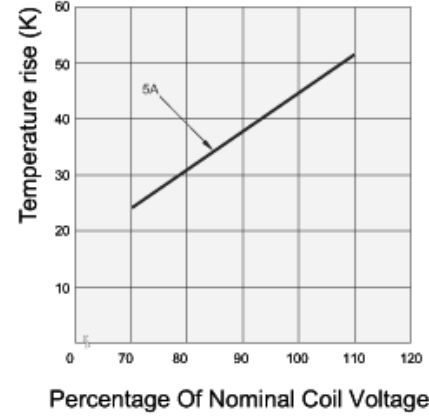
MAXIMUM SWITCHING POWER



ENDURANCE CURVE



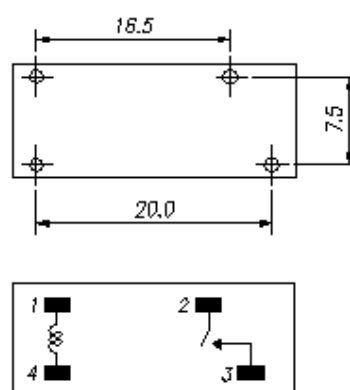
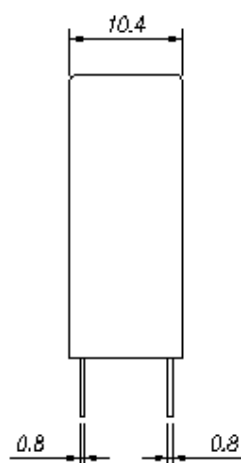
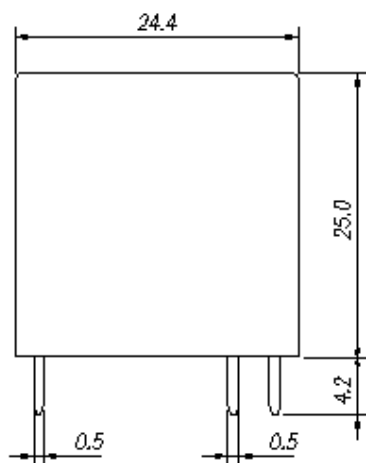
COIL TEMPERATURE RISE



■ OVERALL AND MOUNTING DIMENSIONS

Outline Dimensions

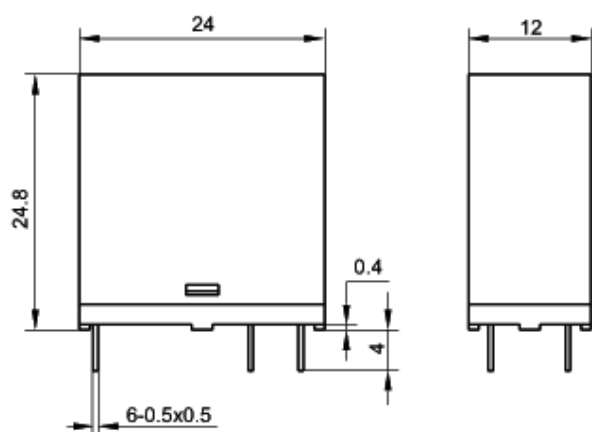
HL3-1A, HL31-1A



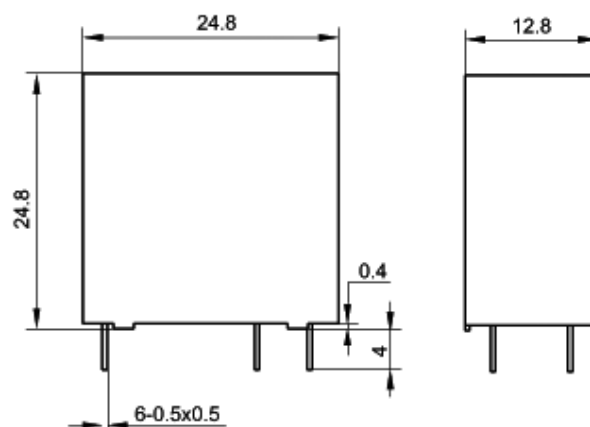
(Bottom View)

HL3-2A

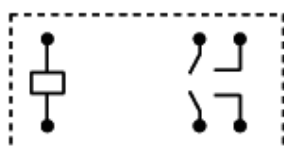
Flux proofed type



Wash tight type



Wiring Diagram
(Bottom view)



PCB Layout
(Bottom view)

