

FEATURES

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

CONTACT DATA

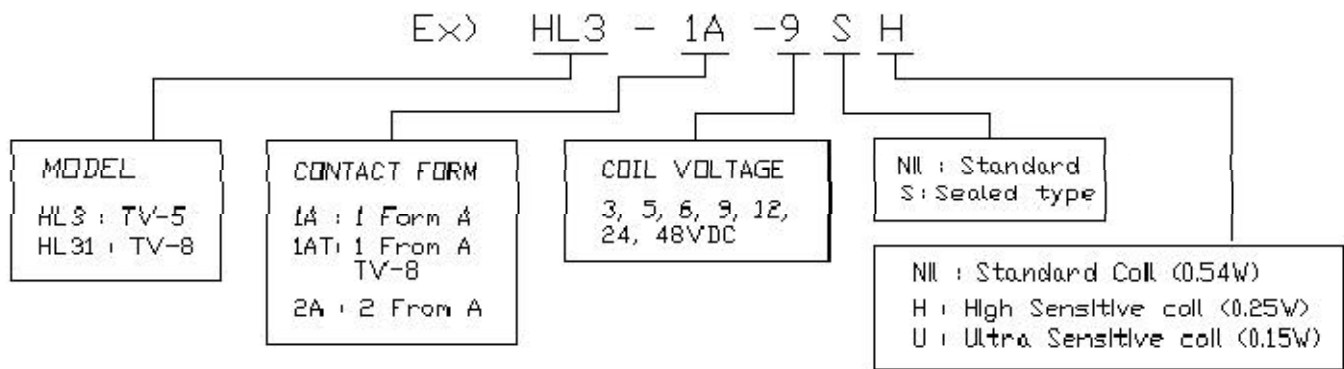


Contact Form		HL31-1A(TV-8)	HL3-1A(TV-5)	HL3-2A
Contact Material		Ag Alloy	AgSnO ₂	
Contact Ratings		10A 250VAC 5A 30VDC	10A 250VAC 10A 30VDC	5A 250VAC 5A 30VDC
Max Switching Voltage		250VAC / 30VDC		
Max Switching Current		10A	12A	7A
Max Switching Power		2,500VA / 150W	2,500VA / 300W	1,250VA / 150W
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

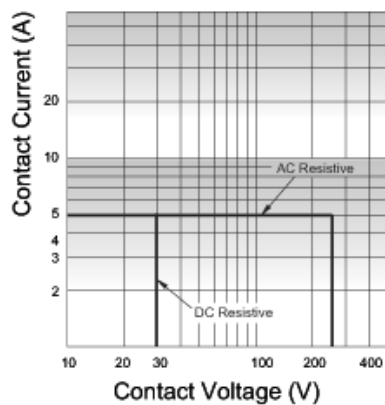


■ COIL DATA

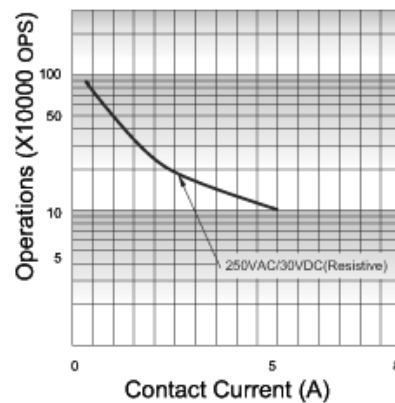
Nominal Voltage (VDC)	Coil Resistance at 20 ±10% Ω		Max Operating Voltage (VDC)	Min Release Voltage (VDC)	Max Applicable Voltage (VDC)
	0.25W	0.54W			
3	36 Ω	17 Ω	2.25	0.3	3.9
5	100 Ω	46 Ω	3.75	0.5	6.5
6	144 Ω	67 Ω	4.5	0.6	7.8
9	324 Ω	150 Ω	6.75	0.9	11.7
12	576 Ω	267 Ω	9	1.2	15.6
24	2,304 Ω	1,066 Ω	18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

■ USEFUL CORVE

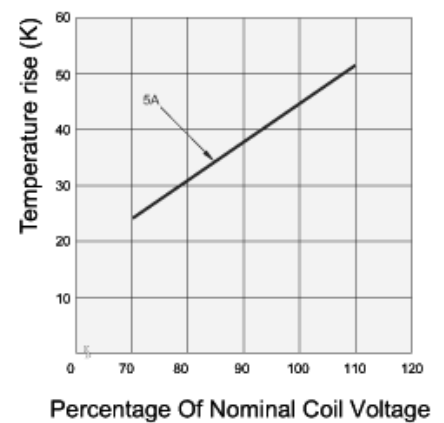
MAXIMUM SWITCHING POWER



ENDURANCE CURVE



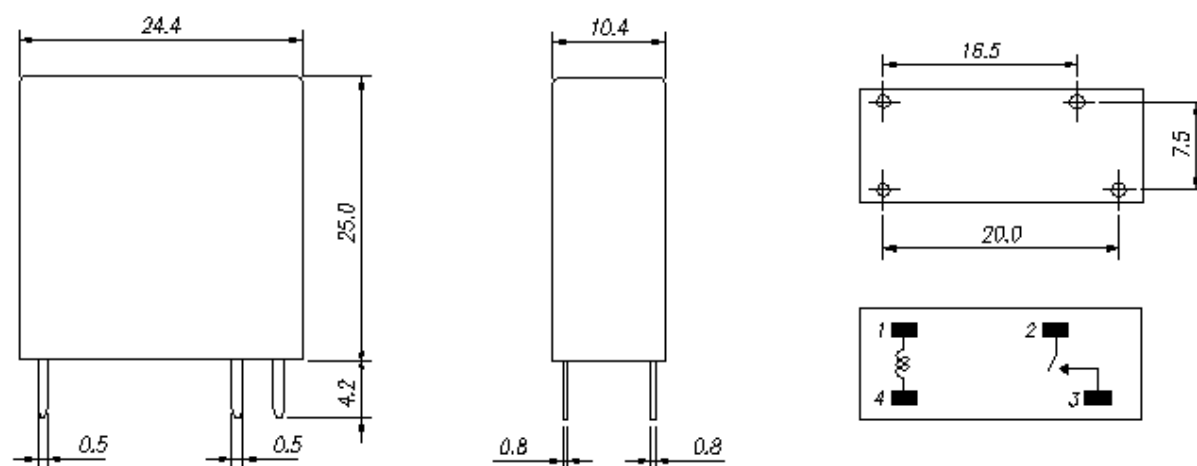
COIL TEMPERATURE RISE



■ OVERALL AND MOUNTING DIMENSIONS

Outline Dimensions

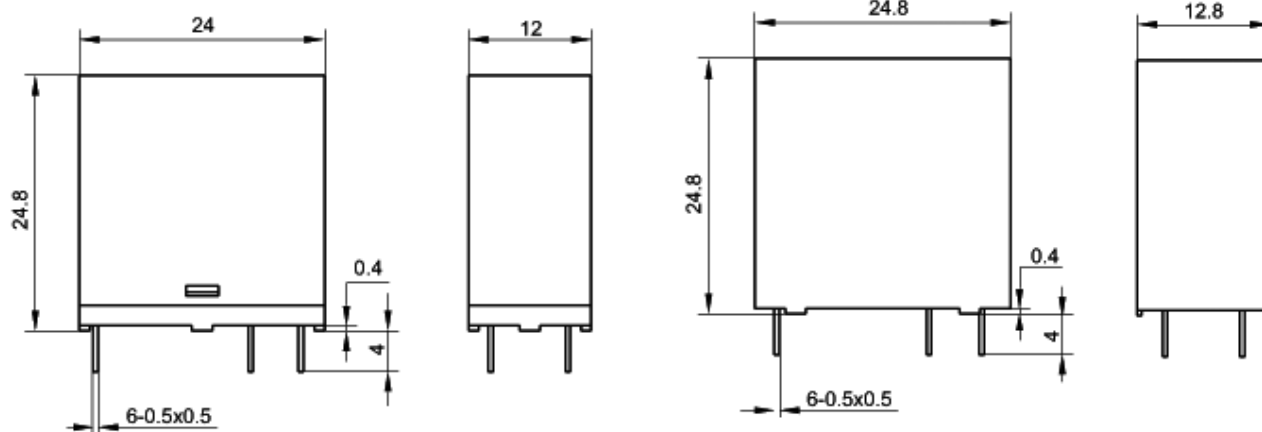
HL3-1A, HL31-1A



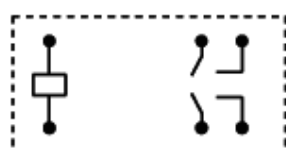
HL3-2A

Flux proofed type

Wash tight type



Wiring Diagram
(Bottom view)



PCB Layout
(Bottom view)

