



HANDOUK

HL2

■ FEATURES

- 16A (20A) switching capabilities
- Sealed & Unsealed types available
- 1 & 2 pole configurations
- 5KV / 10mm dielectric strength
- Low height 15.7mm
- Sealed and unsealed type available
- High temperature 105 degree
- High Inrush TV-5 80A
- High Sensitive 0.25W



■ CONTACT DATA

Contact Form	1A, 1B, 1C	2A, 2B, 2C
Contact Material	Silver Alloy	
Contact current	Max. 12A/16A/20A	Max 8A
Switching Voltage	440VAC / 125VDC	
Contact capacity	3,000VA 4,000VA 5,000VA	2,000VA
Contact resistance	100m ohm	
Electrical Life	100,000operations (At 30 operations / minute)	
Mechanical Life	10,000,000 operations	

■ COIL DATA

Coil Consumption	0.4W, 0.25W
Coil Voltage	5 ~ 110 VDC
Coil Resistance	See below table

■ GENERAL DATA

Insulation Resistance		1,000M Ω Min. at 500VDC
Dielectric Strength	Open Contacts	1,000VAC (For one minute)
	Contacts and Coil	5,000VAC (For one minute)
	Contact sets	2,500VAC (For one minute)
Operate Time		15ms
Release Time		8ms
Temperature Range		-40℃ ~ 85℃
Shock Resistance		100m/s ²
Vibration Resistance		10 ~ 150Hz 10g / 5g
Humidity		35 ~ 85%
Dimension		29 x 12.7 x 15.7mm
Weight		Approx. 13.5g
Construction		Sealed and unsealed

■ TABLE

DC Coil

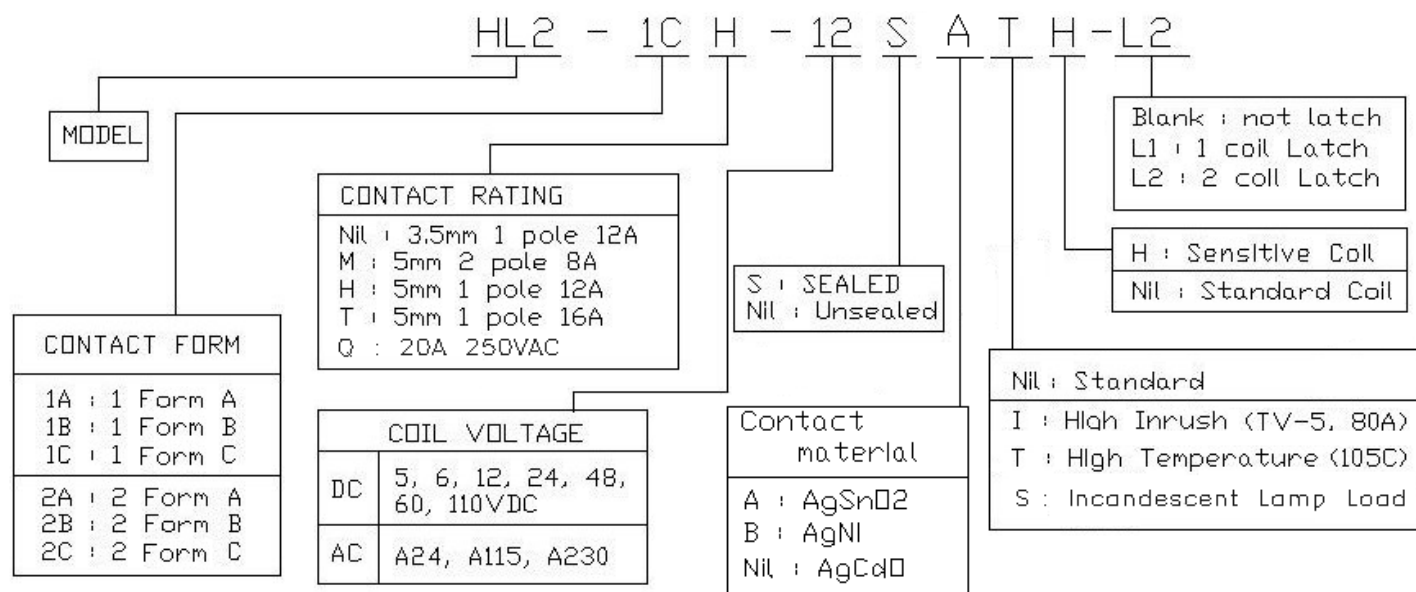
(at 20℃)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Coil Current mA	Coil Resistance ohm	Pick-up Voltage VDC	Drop-out Voltage VDC	Coil Current mA	Coil Resistance ohm
	Standard Coil, 0.4W				Sensitive Coil, 0.25W			
5	3.50	0.5	80.0	62±10%	3.75	0.5	50.0	100±10%
6	4.20	0.6	66.7	90±10%	4.50	0.6	41.7	144±10%
9	6.30	0.9	44.5	202±10%	6.75	0.9	27.7	324±10%
12	8.40	1.2	33.3	360±10%	9.00	1.2	20.8	576±10%
18	12.60	1.8	22.2	810±10%	13.50	1.8	13.8	1,296±10%
24	16.80	2.4	16.7	1,440±10%	18.00	2.4	10.4	2,304±10%
48	33.60	4.8	8.3	5,760±10%	36.00	4.8	5.4	9,216±10%
60	42.00	6.0	8.0	7,500±10%	45.00	6.0	4.7	12,857±10%
110	77.00	11.0	4.3	25,200±10%				

* the max. allowable coil voltage is 150% of Nominal voltage. However, it is coil overdrive voltage and instantaneous max. voltage which the relay coil could endure in very short time.

Nominal Voltage VAC	Pick-up Voltage VAC	Drop-out Voltage VAC	Coil Current mA	Coil Resistance ohm
24	18.00	3.60	31.6	350±10%
115	86.30	17.30	6.6	8,100±10%
230	172.50	34.50	3.2	32,500±10%

■ ORDERING INFORMATION

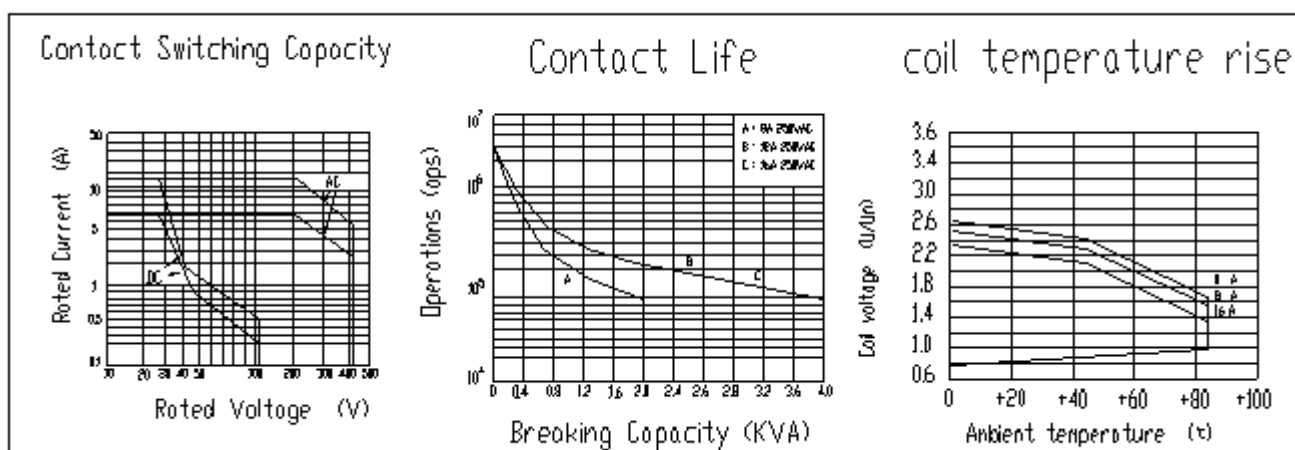


- High sensitive coils (0.25W) are valid only all 1 poles versions with 10A 250VAC contact rating.
- High in-rush types (TV-5 80A) are valid only 5mm, 10A 250VAC contact rating, 1 form A version.
- High temperature (105 C) is valid only 5mm 16A version.
- Additional (555) Mark : RoHs standard products.

■ SAFETY STANDARD

Standard	File Number	Remarks
UL	E222977	
VDE	40008094	

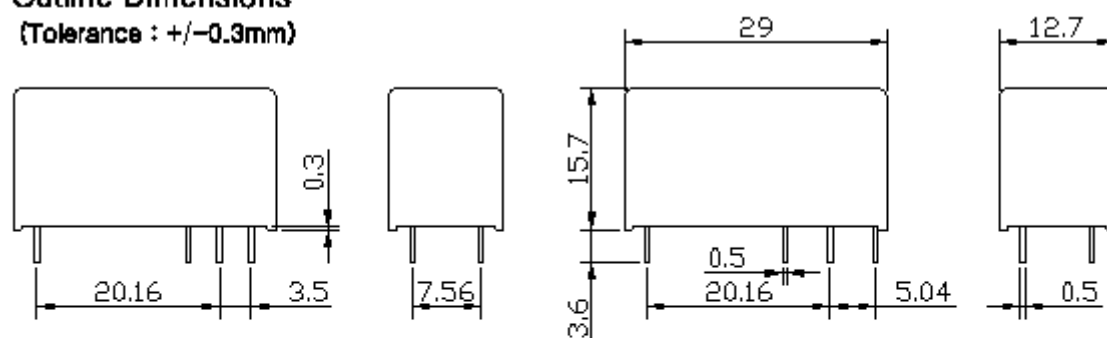
■ USEFUL CURVE



■ OVERALL AND MOUNTING DIMENSIONS

Outline Dimensions

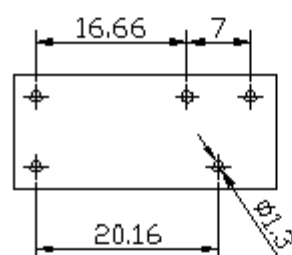
(Tolerance : $\pm 0.3\text{mm}$)



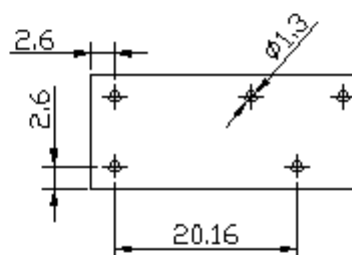
PC Board Pattern (Bottom view)

(Tolerance : $\pm 0.02\text{mm}$)

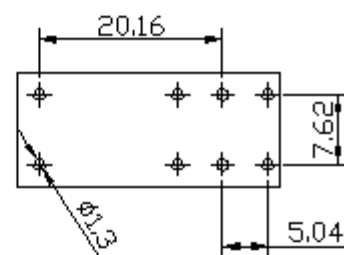
HL2-1*



HL2-1*H

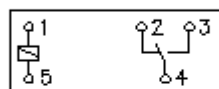


HL2-1*T (2*M)

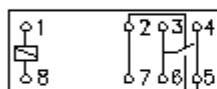


Schematic (Bottom View)

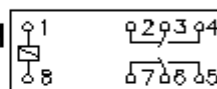
HL2-1C,
HL2-1CH



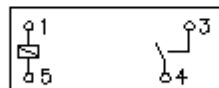
HL2-1CT



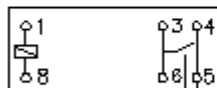
HL2-2CM



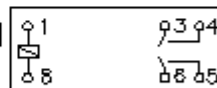
HL2-1A,
HL2-1AH



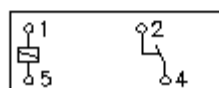
HL2-1AT



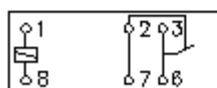
HL2-2AM



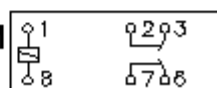
HL2-1B,
HL2-1BH



HL2-1BT

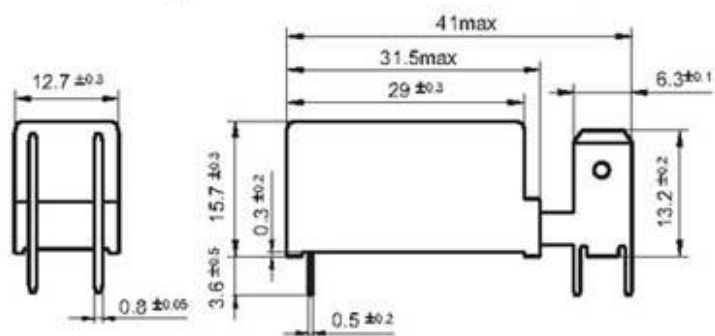


HL2-2BM

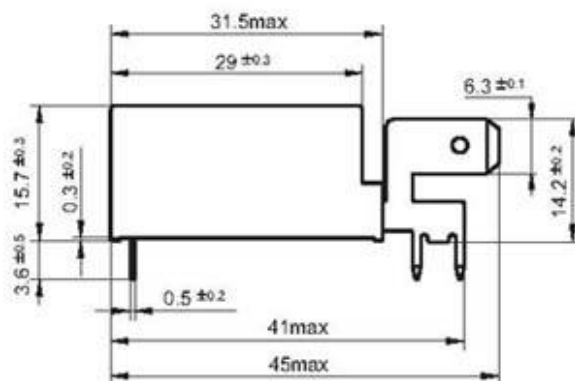


HL2-1AQ

vertical terminals



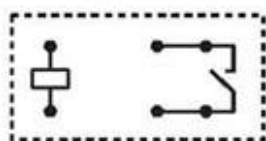
horizontal terminals



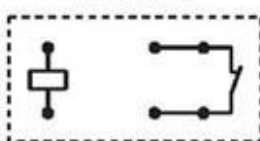
Wiring Diagram

(Bottom view)

1 Form A



1 Form B



PCB Layout

(Bottom view)

