

# HE1

## ► FEATURES

- 5A, 10A Switching capabilities.
- SPST and SPDT configurations.
- Subminiature, PCB layout
- Sealed and unsealed type available

Size (L x W x H)  
18.8 x 10.6 x 15.6mm



## ► CONTACT DATA

Contact Form		1A(SPST)		1C(SPDT)
Contact Ratings		Standard	Sensitivity	
		5A 250VAC/30VDC	3A 250VAC	
		10A 125VAC	3A 30VDC	
		T: 10A 250VAC	T: 8A 250VAC	
Contact Material		Silver Alloy		
Max. Switching Voltage		250Vac / 30Vdc		
Max. Switching Current		10A		
Max. Switching Power		1,250VA/150W		
Contact Resistance		100m $\Omega$ Max at 24VDC 1A		
Life Expectancy	Electrical	100,000 Operations (at 30 ops a minute)		
	Mechanical	10,000,000 Operations		

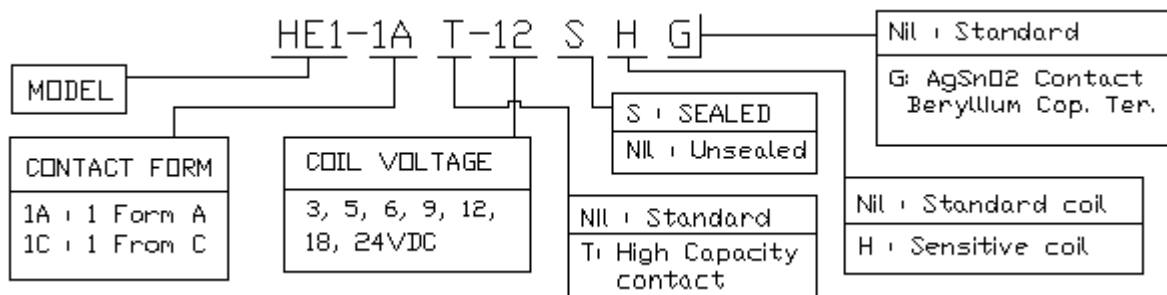
## ► OPERATION CONDITION

Insulation Resistance		100M $\Omega$ min (at 500VDC)
Dielectric Strength	Between open Contacts	1,000VAC (For one minute)
	Between coil & Contacts	2,500VAC (For one minute)
Operate time		8ms
Release Time		5ms
Shock resistance	Operating Extremes	10G
	Damage Limits	100G
Vibration resistance		10~55Hz Double amplitude
Humidity		35~95%
Temperature Range		-40 ~ 70°C (-40~158° F)
Weight		Approx 6g
Safety Standard (UL)		E197546

## ► COIL PARAMETER

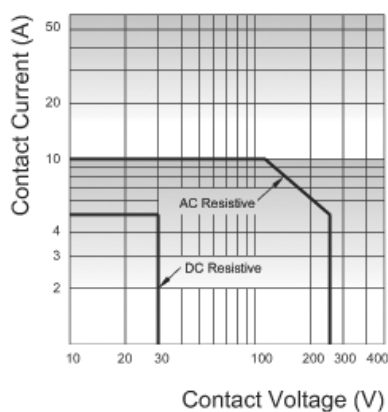
Nominal Voltage (VDC)	Coil Resistance at 20 C ( $\Omega$ )		Max Operate Voltage	Min. Release Voltage	Max. Applicable Voltage
	Standard	Sensitive			
3	20 +/-10%	45 +/-10%	2.25	0.15	3.9
5	55 +/-10%	125 +/-10%	3.75	0.25	6.5
6	80 +/-10%	180 +/-10%	4.50	0.30	7.8
9	180 +/-10%	400 +/-10%	6.75	0.45	11.7
12	320 +/-10%	720 +/-10%	9.00	0.60	15.6
18	720 +/-10%	1600 +/-10%	13.5	0.90	23.4
24	1280 +/-10%	2800 +/-10%	18.0	1.20	31.2

► ORDERING INFORMATION

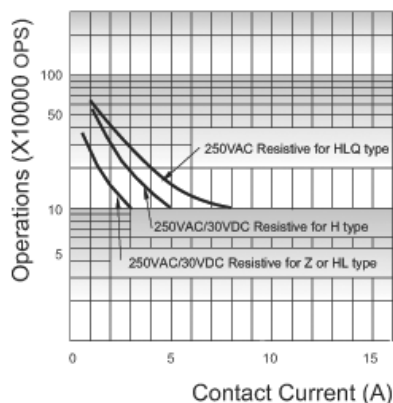


► USEFUL CURVE

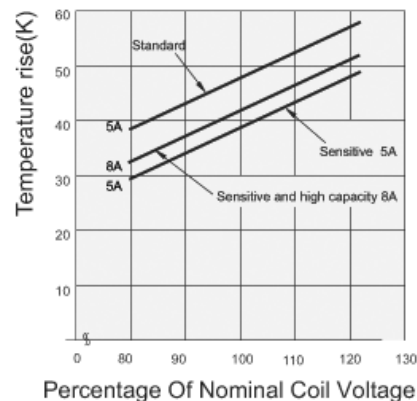
MAXIMUM SWITCHING POWER



EDURANCE CURVE



COIL TEMPERATURE RISE



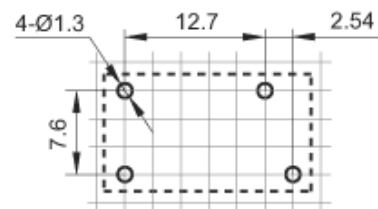
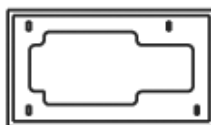
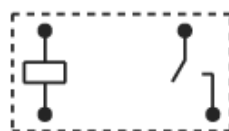
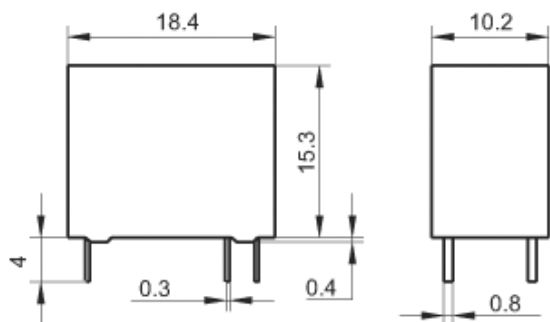
**► DIMENSIONS (UNIT: MM)**

**Outline Dimensions**

**Wiring Diagram  
(Bottom view)**

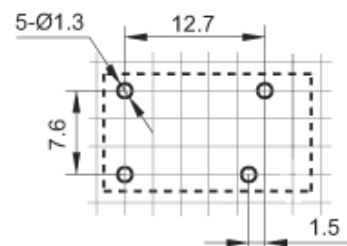
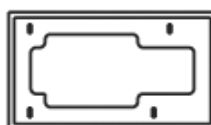
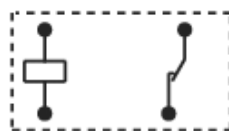
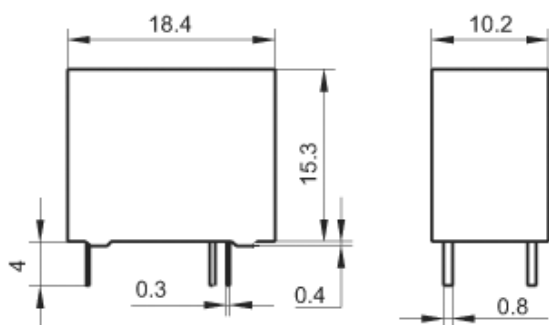
**PCB Layout  
(Bottom view)**

**1 Form A**



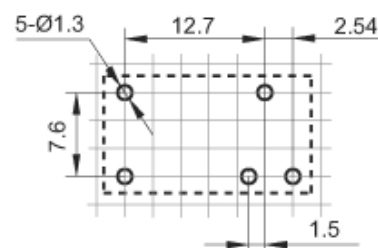
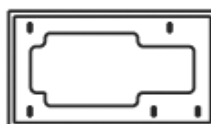
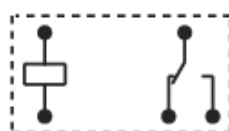
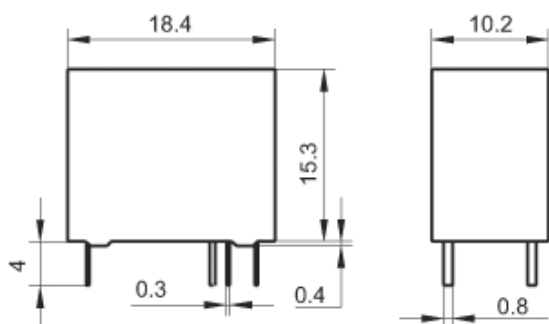
(Bottom view)

**1 Form B**



(Bottom view)

**1 Form C**



(Bottom view)