

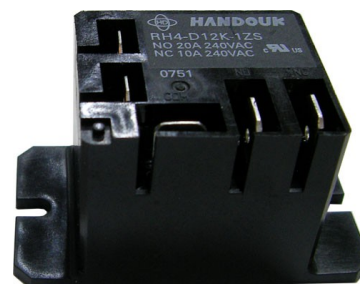
**HANDOUK**

Automotive Relay:RH

RH**► FEATURE**

30A switching capabilities
PCB & QC terminals
Heavy load up to 7,200VA
Open, sealed & unsealed type available
Class B, Class F insulation available
4K dielectric coil to contact

Size (mm) : 27.5 x
32.4 x 27.8

**► CONTACT DATA**

Contact Form		1A	1B	1C(NO)	1C(NC)
Initial contact resistance		50m ohm at 1A 24VDC			
Max. Switching Capacity		7200VA/560W	3600VA/280W	4800VA/560W	2400VA/280W
Max. Switching Voltage		277VAC / 28VDC			
Max. Switching Current		30A	15A	20A	10A
Contact Rating		30A 240VAC 20A 28VDC	15A 240VAC 10A 28VDC	20A 240VAC 20A 28VDC	10A 240VAC 10A 28VDC
UL/CUR rating		30A 277VAC 20A 28VDC 2HP 250VAC 1HP 125VAC	15A 277VAC	20A 277VAC 20A 28VDC 2HP 250VAC 1HP 125VAC	10A 277VAC 10A 28VDC 1/4HP 250VAC 1/2HP 125VAC
Life Expectancy	Electrical	100,000 Operations (at 30 ops a minute)			
	Mechanical	10,000,000 Operations			

► OPERATION CONDITION

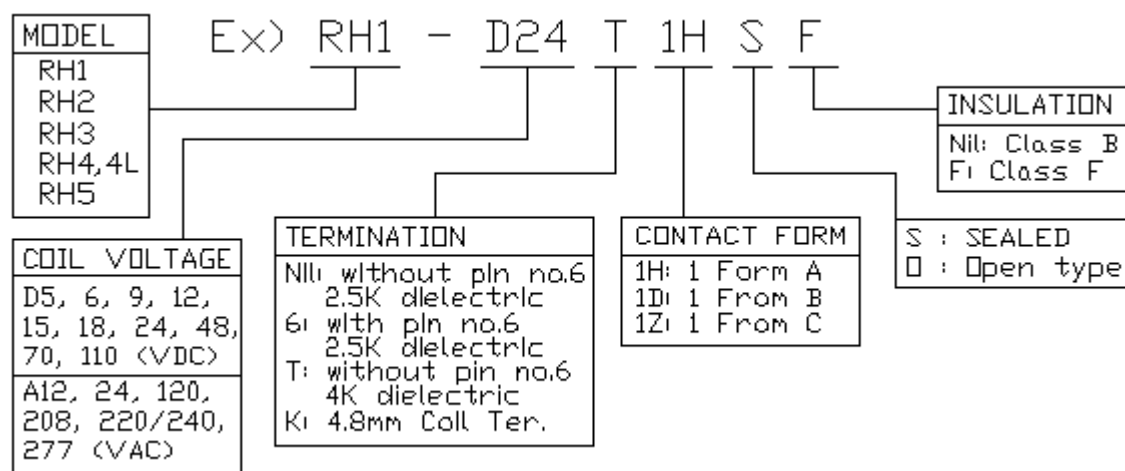
Insulation Resistance		1000M Ω min (at 500VDC)
Dielectric Strength	Between open Contacts	1,500VAC (For one minute)
	Between coil & Contacts	2,500VAC (For one minute)
Operate time(At nomi. Volt.)		15ms
Release Time(At nomi. Volt.)		10ms
Ambient Temperature	Class B	DC : - 55 to 85°C AC : - 55 to 60°C
	Class F	DC : - 55 to 105°C AC : - 55 to 85°C
Shock Resistance	Functional	98 m/s ²
	Destructive	980 m/s ²
Vibration resistance		DA: 1.5mm, 10 - 55Hz,
Humidity		98%, +40°C
Weight		Approx 36g

► COIL PARAMETER

Nominal Voltage(VDC)	Max. Operate Voltage VDC	Min. Release Voltage VDC	Coil Resistance ohm
5	3.75	0.5	27±10%
6	4.5	0.6	40±10%
9	6.75	0.9	97±10%
12	9.00	1.2	155±10%
15	11.25	1.5	256±10%
18	13.50	1.8	380±10%
24	18.00	2.4	660±10%
48	36.00	4.8	2,560±10%
70	52.50	7.0	5,500±10%
110	82.50	11	13,450±10%

Nominal Voltage(VAC)	Max. Operate Voltage VDC	Min. Release Voltage VDC	Coil Resistance ohm
12	9.6	2.4	25±10%
24	19.2	4.8	100±10%
120	96.0	24.0	2,500±10%
208	166.4	41	11,000±10%
220/240	192	48	13,490±10%
277	220	54	15,000±10%

► ORDERING INFORMATION

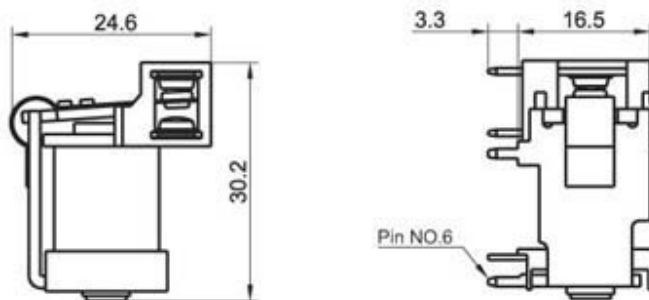


► OVERALL AND MOUNTING DIMENSIONS

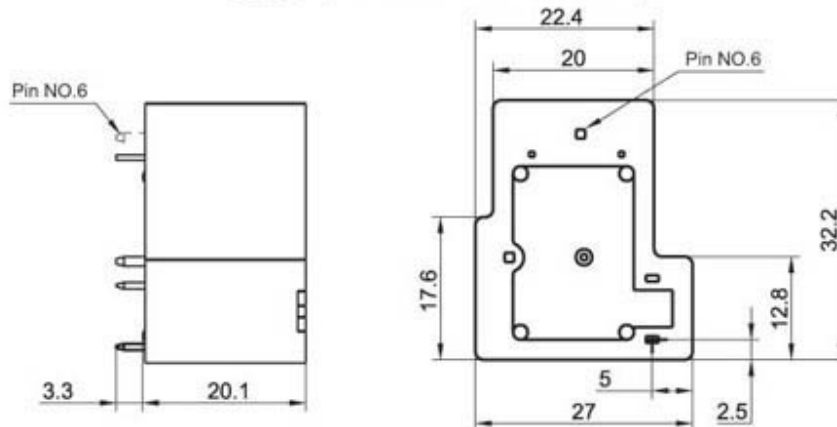
RH1

Outline Dimensions

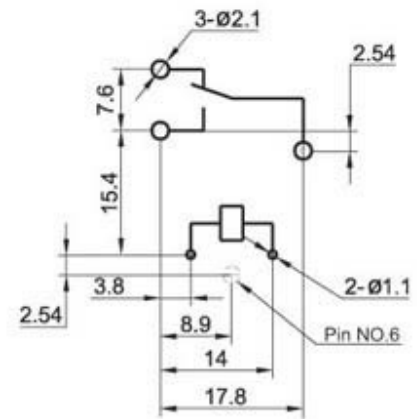
RH1 (open)



RH1 (Sealed & unsealed)



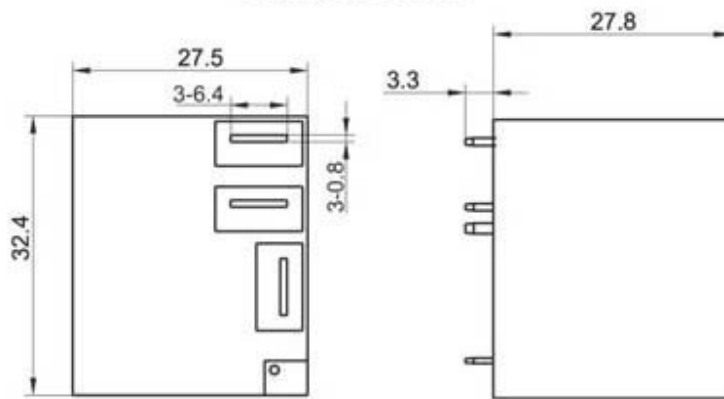
PCB layout



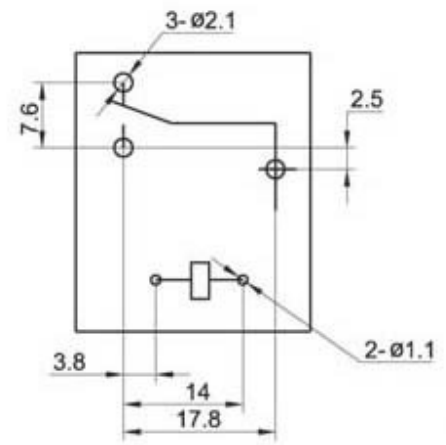
(Bottom View)

RH2

Outline Dimensions



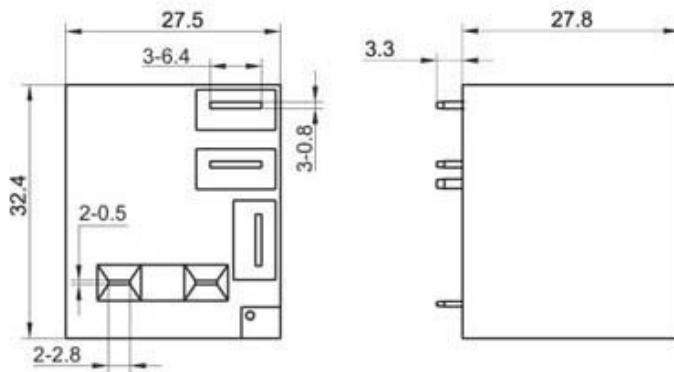
Wiring Diagram & PCB layout



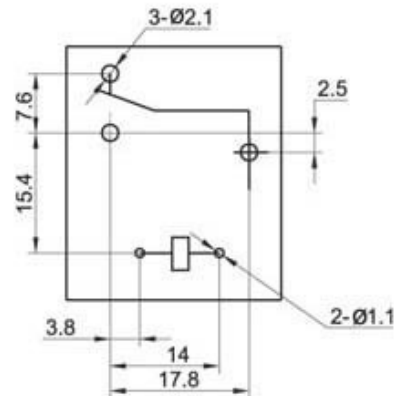
(Bottom View)

RH3

Outline Dimensions



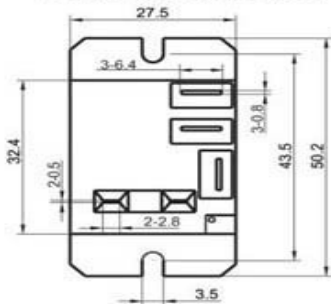
Wiring Diagram & PCB layout



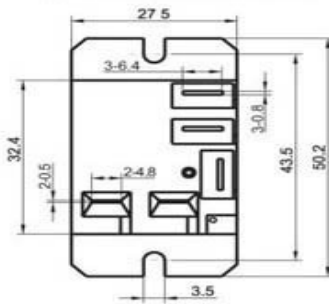
(Bottom View)

RH4

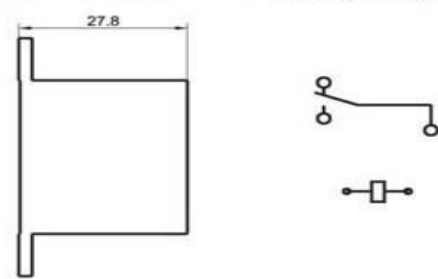
2.8mm coil terminal width



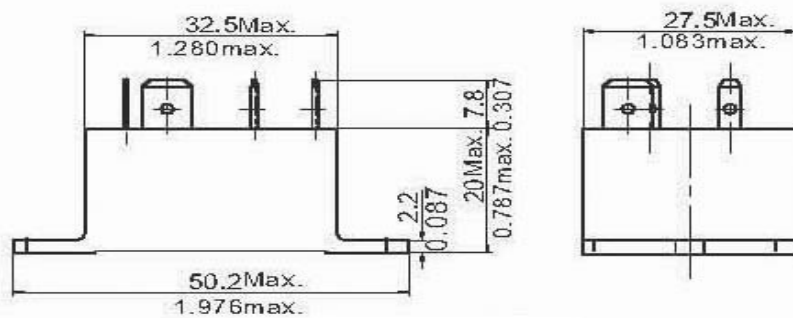
4.8mm coil terminal width



Outline Dimensions Wiring Diagram

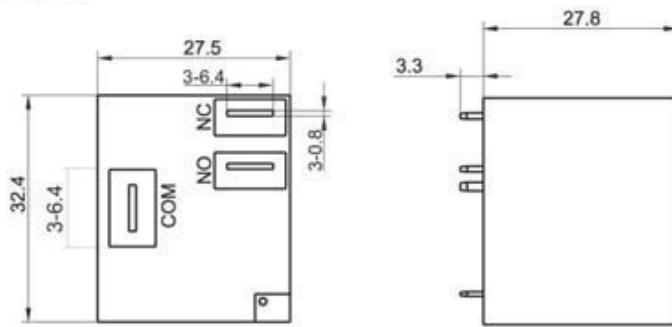


RH4L

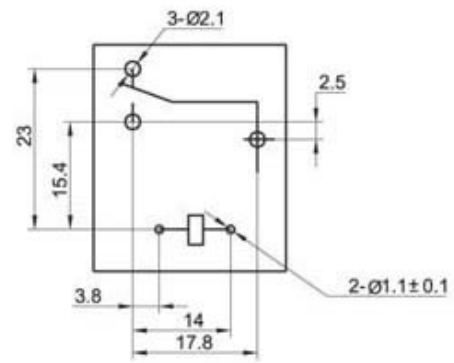


RH5

Outline Dimensions



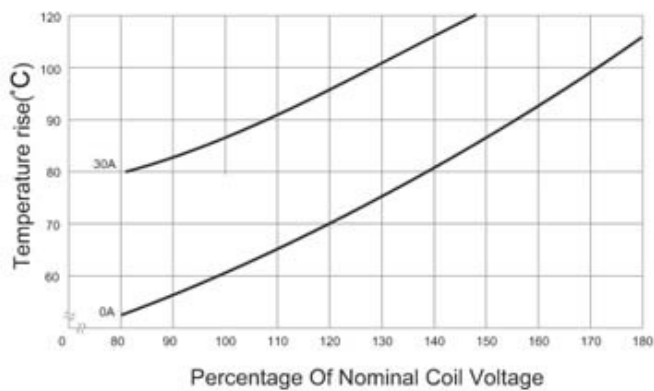
Wiring Diagram & PCB layout



(Bottom View)

► CHARACTERISTICS CURVE

COIL TEMPERATURE RISE



MAXIMUM SWITCHING POWER

