



# HANDOUK

# HT2

## ■ FEATURES

- 1Form A, 2Form A, 1 Form A 1 Form B contact
- High sensitivity
- Latching types available
- High switching capacity:1A:8A/250VAC,  
2A:5A/250VAC



## ■ CONTACTS

|                                |                         |                         |     |
|--------------------------------|-------------------------|-------------------------|-----|
| Contact Form                   | 1A                      | 2A                      | 1AB |
| Initial Contact Resistance     | 50mΩ<br>(at 6VDC 1A)    |                         |     |
| Contact Material               | AgNi                    |                         |     |
| Contact Rating<br>(Resistance) | 8A, 250VAC<br>5A, 30VDC | 5A, 250VAC<br>5A, 30VDC |     |
| Max. Switching Power           | 2000VA<br>150W          | 1,250VA<br>150W         |     |
| Max. Switching Voltage         | 380VAC, 125VD C         |                         |     |
| Max. Switching Current         | 8A                      | 5A                      |     |
| Electrical Life                | 1×10 <sup>5</sup> ops   |                         |     |
| Mechanical Life                | 1×10 <sup>7</sup> ops   |                         |     |

## ■ SPECIFICATION

|                         |                    |                                         |  |
|-------------------------|--------------------|-----------------------------------------|--|
| Insulation Resistance   |                    | 1000MΩ 500VDC                           |  |
| Dielectric Strength     | Contact to coil    | 3000Vrms, 1 min                         |  |
|                         | Contact to contact | 1000Vrms, 1 min                         |  |
|                         | Contact sets       | 2000Vrms, 1 min                         |  |
| Operate Time            |                    | Max. 10ms                               |  |
| Release Time            |                    | Max. 5ms                                |  |
| Set Time ( latching)    |                    | Max. 10ms                               |  |
| Re-Set Time ( latching) |                    | Max. 10ms                               |  |
| Ambient Temperature     |                    | -40 ~ +70 °C                            |  |
| Vibration Resistance    |                    | 2 mm 10~55Hz                            |  |
| Shock Resistance        |                    | 196 m/s <sup>2</sup> (20g) functional   |  |
|                         |                    | 980 m/s <sup>2</sup> (100g) destructive |  |
| Terminals               |                    | PCB                                     |  |
| Construction            |                    | Sealed IP67 & Flux proof                |  |
| Weight                  |                    | 20.2×11×10.4                            |  |

## ■ COIL

|              |                    |           |
|--------------|--------------------|-----------|
| Coil         | single side stable | 300mW     |
| Nominal      | 1 coil bistable    | 150mW     |
| Power        | 2 coil bistable    | 300mW     |
| Coil Voltage |                    | See table |

## ■ COIL DATA

Single side stable (300mW) 20°C

| Order Number | Nominal Voltage VDC | Pick-up Voltage VDC(max) | Drop-out Voltage VDC(min) | Coil resistance Ω(±10%) | Max. allow Voltage at 70°C VDC |
|--------------|---------------------|--------------------------|---------------------------|-------------------------|--------------------------------|
| 3-□          | 3                   | 2.4                      | 0.3                       | 30                      | 3.9                            |
| 5-□          | 5                   | 4.0                      | 0.5                       | 83                      | 6.5                            |
| 6-□          | 6                   | 4.8                      | 0.6                       | 120                     | 7.8                            |
| 9-□          | 9                   | 7.2                      | 0.9                       | 270                     | 11.7                           |
| 12-□         | 12                  | 9.6                      | 1.2                       | 480                     | 15.6                           |
| 24-□         | 24                  | 19.2                     | 2.4                       | 1920                    | 31.2                           |

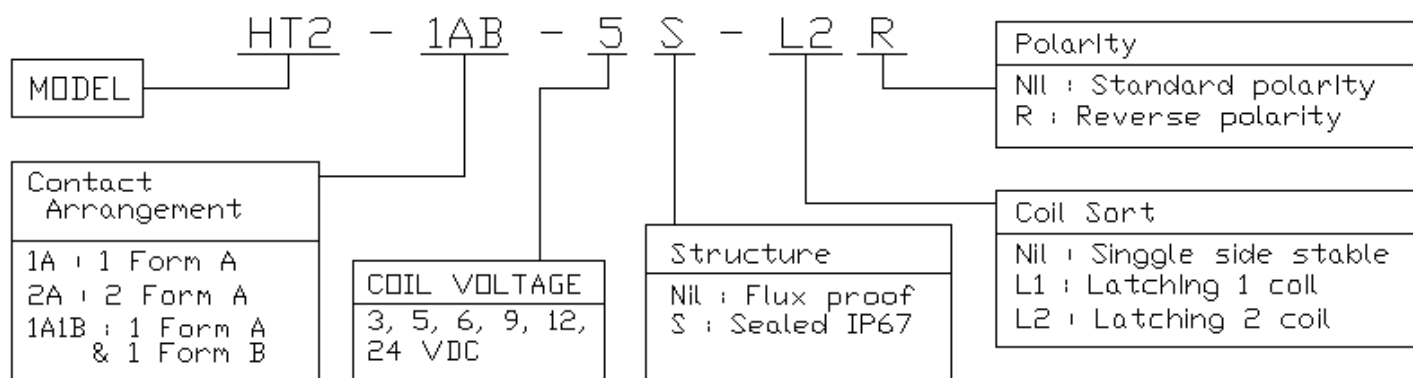
### Latching (1 coil) (150mW) 20°C

| Order Number | Nominal Voltage VDC | Set-Reset Voltage VDC (max) | Coil Resistance $\Omega$ ( $\pm 10\%$ ) | Max. allow Voltage at 70°C VDC |
|--------------|---------------------|-----------------------------|-----------------------------------------|--------------------------------|
| 3-□-L1       | 3                   | 2.4                         | 60                                      | 3.9                            |
| 5-□-L1       | 5                   | 4.0                         | 167                                     | 6.5                            |
| 6-□-L1       | 6                   | 4.8                         | 240                                     | 7.8                            |
| 9-□-L1       | 9                   | 7.2                         | 540                                     | 11.7                           |
| 12-□-L1      | 12                  | 9.6                         | 960                                     | 15.6                           |
| 24-□-L1      | 24                  | 19.2                        | 3840                                    | 31.2                           |

### Latching (2 coil) (300mW) 20°C

| Order Number | Nominal Voltage VDC | Set, Reset Voltage VDC (max) | Coil Resistance $\Omega$ ( $\pm 10\%$ ) | Max. allow Voltage at 70°C VDC |
|--------------|---------------------|------------------------------|-----------------------------------------|--------------------------------|
| 3-□-L2       | 3                   | 2.4                          | 30                                      | 3.9                            |
| 5-□-L2       | 5                   | 4.0                          | 83                                      | 6.5                            |
| 6-□-L2       | 6                   | 4.8                          | 120                                     | 7.8                            |
| 9-□-L2       | 9                   | 7.2                          | 270                                     | 11.7                           |
| 12-□-L2      | 12                  | 9.6                          | 480                                     | 15.6                           |
| 24-□-L2      | 24                  | 19.2                         | 1920                                    | 31.2                           |

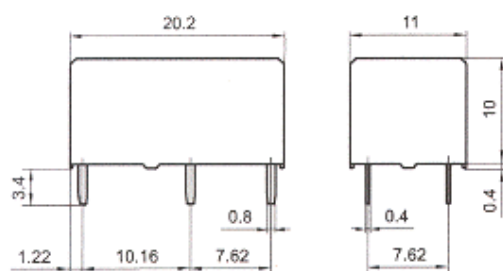
## ■ ORDER DESIGNATION



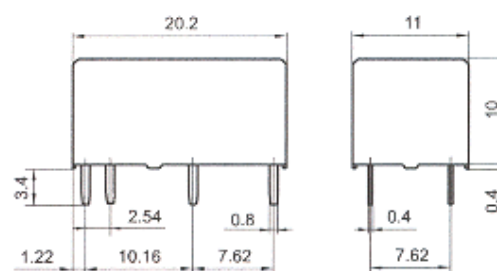
## ■ OUTLINE DIMENSIONS, PC BOARD LAYOUT AND WIRING DIAGRAM

### Outline Dimensions

Single side stable & 1 coil latching



2 coils latching

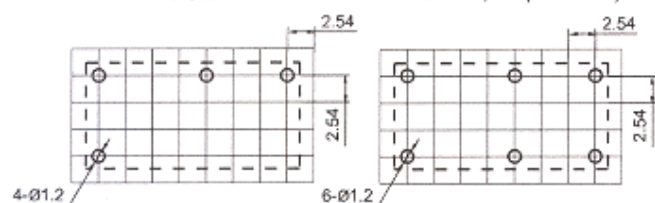


### PCB Layout

Single side stable & 1 coil latching

1 Form A

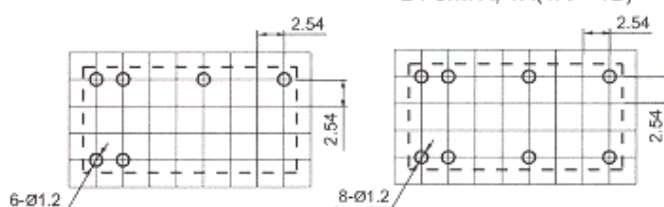
2 Form A, 1X(1A + 1B)



2 coils latching

1 Form A

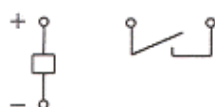
2 Form A, 1X(1A + 1B)



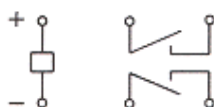
### Wiring Diagram (Bottom view)

Single side stable (Deenergized condition)

1 Form A



2 Form A

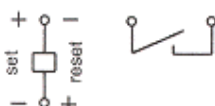


1X(1A + 1B)

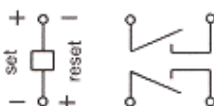


1 coil latching (Reset condition)

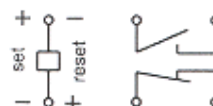
1 Form A



2 Form A

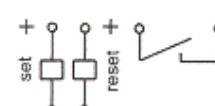


1X(1A + 1B)

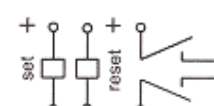


2 coils latching (Reset condition)

1 Form A



2 Form A



1X(1A + 1B)

