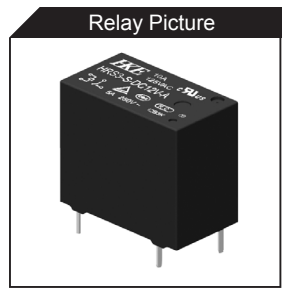
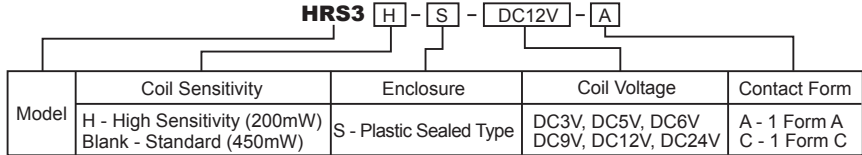




| Features | |
|--------------------------|--|
| ▪ | Microminiature relay Dimensions: 18.6×10.4×15.8(mm) |
| ▪ | Max. Switching capacity: 10A |
| ▪ | Contact: 1 Form A, 1 Form C |
| Safety Approval | |
| NO.1063016(LR 109368) | NO.50116132 |
| US NO.E164730 NO.E322395 | |
| NO.CQC08002027611 | |



ORDERING INFORMATION



SPECIFICATION

CONTACT DATA

| | | |
|--------------------|--|-----------------------|
| Contact Form | 1 Form A, 1 Form C | |
| Contact Material | Ag Alloy | |
| Contact Rating | A: 10A 125VAC, 5A 250VAC/28VDC C: NO/NC: 5A/3A 250VAC/28VDC | |
| Contact Resistance | Max. 100mΩ (6VDC 1A) | |
| Load | Max. Switching Voltage | 250VAC/28VDC |
| | Max. Switching Current | 10A |
| | Max. Switching Power | 1,250VA, 280W |
| | Min. Switching Load | 5VDC, 100mA |
| Life | Electrical | 100,000 operations |
| | Mechanical | 10,000,000 operations |

COIL DATA

| | |
|--------------------|--------------|
| Nominal Coil Power | 200mW, 450mW |
|--------------------|--------------|

GENERAL DATA

| | | |
|-----------------------|---------------------------|--|
| Insulation Resistance | | Min. 1000MΩ 500VDC |
| Dielectric Strength | Between open contacts | 1,000VAC, 1min |
| | Between coil and contacts | A: 3,500VAC, 1 min C: 2,500VAC, 1 min |
| Operate Time | | Max. 10ms |
| Release Time | | Max. 5ms |
| Operating Temperature | | -40°C to +85°C |
| Humidity | | 35~95%RH, +40°C |
| Shock Resistance | Endurance | 1,000m/s ² |
| | Misoperation | 100m/s ² |
| Vibration Resistance | Endurance | 10~55Hz, 1.5mm double amplitude |
| | Misoperation | 10~55Hz, 1.5mm double amplitude |
| Weight | | Approximately 6.0g |

Note:Data shown are of initial value

SAFETY APPROVAL

| File Number | Contact Form | Power Consumption | Coil Voltage | Contact Rating | Remarks |
|--|--------------|-------------------|--------------|--------------------|---------------------------|
| TUV 50116132 | A/C | 0.45W/0.2W | 3-24VDC | NO/NC:5/3A 250VAC | Ambient Temperature: 85°C |
| | A | 0.45W/0.2W | 3-24VDC | 5(1)A 250VAC | Ambient Temperature: 85°C |
| | A | 0.45W/0.2W | 3-24VDC | 5(2.5)A 250VAC | Ambient Temperature: 85°C |
| CQC 08002027611 (GB/T 21711.1-2008) | A | 0.45W/0.2W | 3-24VDC | 5A 250VAC | Ambient Temperature: 85°C |
| | C | 0.45W/0.2W | 3-24VDC | NO/NC: 5/3A 250VAC | Ambient Temperature: 85°C |

ISO9001、ISO/TS16949、ISO14001 Approved

SAFETY APPROVAL

| File Number | Contact Form | Power Consumption | Coil Voltage | Contact Rating | Remarks |
|--|--------------|-------------------|--------------|--|----------------------------------|
| UL E164730 | A | 0.45W/0.2W | 3-24VDC | 10A 28VDC | Ambient Temperature: 80°C |
| | A | 0.45W/0.2W | 3-24VDC | Tungsten filament lamp load: 8A 125VAC | Ambient Temperature: 80°C |
| | A | 0.45W | 3-24VDC | 10A 125VAC | Ambient Temperature: 70°C |
| | | | | 5A 250VAC | Ambient Temperature: 70°C |
| | | | | 10A 277VAC | — |
| | C | 0.45W | 3-24VDC | NO/NC:10/3A 125VAC | Ambient Temperature: 70°C |
| NO/NC:5/3A 250VAC | | | | | |
| UL E322395 | A | 0.45W | 3-24VDC | 1/10HP 120VAC | NLDX Category (N.O.Contact side) |
| | | | | 1/6HP 240VAC | |
| CSA 1063016(LR 109368) | A | 0.45W/0.2W | 3-24VDC | 10A 28VDC | — |
| Explosion-proof Certificate CNEx16.3130U | A | 0.45W | 12VDC | 5A 250VAC | Mark: Ex nC IIC Gc |
| | | | | 10A 125VAC | |

Specifications subject to change without notice

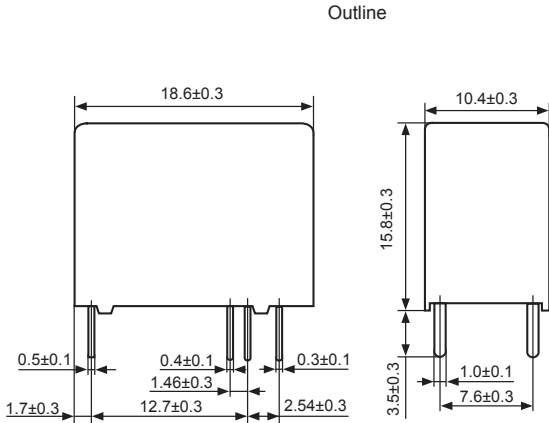
COIL DATA

Ambient Temperature: 23°C

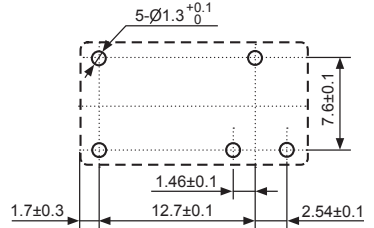
| Model | Nominal Voltage VDC | Coil Resistance Ω +/-10% | Operate Voltage \leq VDC | | Release Voltage \geq VDC | Coil Power mW |
|---------------|---------------------|---------------------------------|----------------------------|------|----------------------------|---------------|
| | | | A | C | | |
| HRS3-S-DC3V | 3 | 20 | 2.1 | 2.1 | 0.3 | 450 |
| HRS3-S-DC5V | 5 | 55 | 3.5 | 3.5 | 0.5 | |
| HRS3-S-DC6V | 6 | 80 | 4.2 | 4.2 | 0.6 | |
| HRS3-S-DC9V | 9 | 180 | 6.3 | 6.3 | 0.9 | |
| HRS3-S-DC12V | 12 | 320 | 8.4 | 8.4 | 1.2 | |
| HRS3-S-DC24V | 24 | 1280 | 16.8 | 16.8 | 2.4 | |
| HRS3H-S-DC3V | 3 | 45 | 2.1 | 2.25 | 0.3 | 200 |
| HRS3H-S-DC5V | 5 | 125 | 3.5 | 3.75 | 0.5 | |
| HRS3H-S-DC6V | 6 | 180 | 4.2 | 4.5 | 0.6 | |
| HRS3H-S-DC9V | 9 | 405 | 6.3 | 6.75 | 0.9 | |
| HRS3H-S-DC12V | 12 | 720 | 8.4 | 9.0 | 1.2 | |
| HRS3H-S-DC24V | 24 | 2880 | 16.8 | 18.0 | 2.4 | |

OUTLINE, WIRING DIAGRAM, MOUNTING HOLE LAYOUT (UNIT: mm)

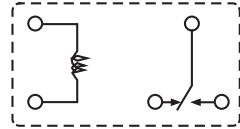
1 Form C



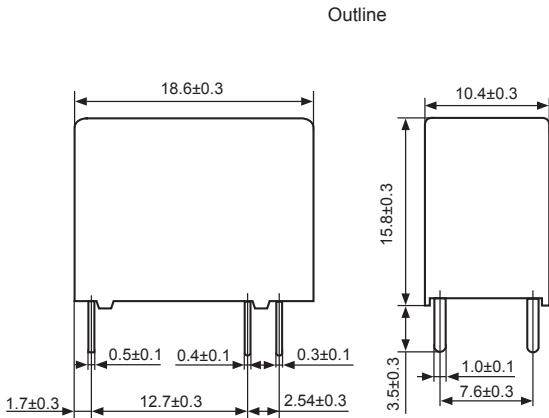
Mounting Hole Layout
(Bottom View)



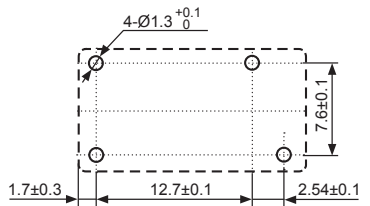
Wiring Diagram
(Bottom View)



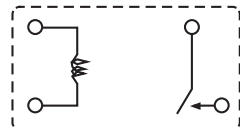
1 Form A



Mounting Hole Layout
(Bottom View)

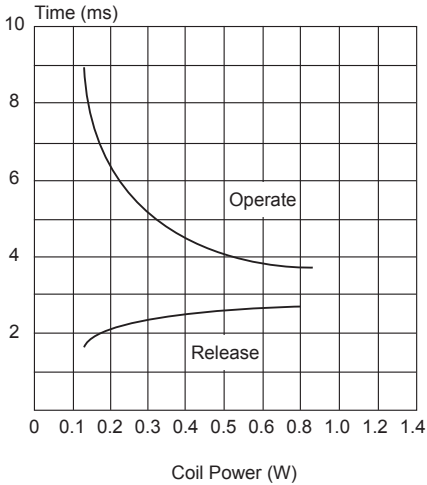


Wiring Diagram
(Bottom View)

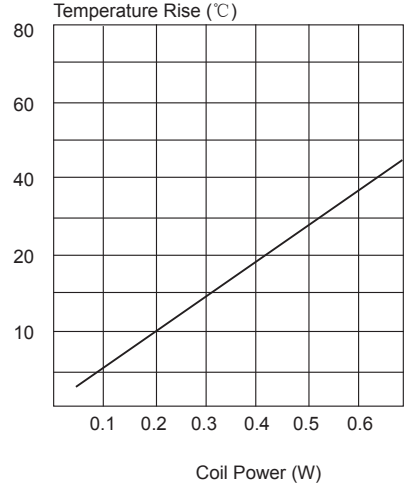


REFERENCE DATA

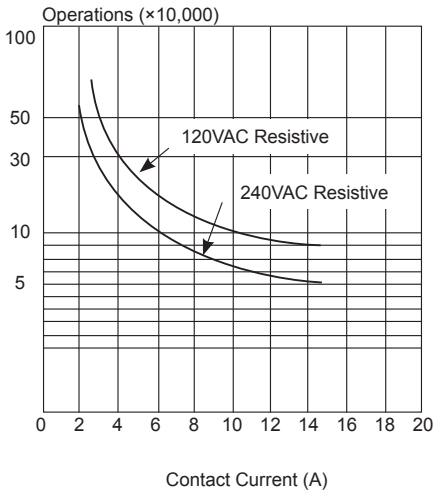
Time Curve



Coil Temperature Rise



Life Curves



Maximum Switching Power

