

Power Relays



Features:

- Miniature relay.
Dimension : 19 × 15.5 × 15.8 (mm).
- Contact form : 1 form C.
- TV-5 rating.

Part Number Explanation:

HRS4

Model

-

Coil Sensitivity

-

S

Enclosure

-

DC5V

Coil Voltage

-

C

Contact Form

Coil Sensitivity : Blank - Standard (450mW)

Enclosure : S-Plastic Sealed Type.

Coil Voltage : DC5V, DC12V and DC24V.

Contact Form : C-1 Form C.

Specifications

| Contact Data | | |
|--------------------|---------------------------|-----------------------------|
| Contact Material | | Ag Alloy |
| Contact Rating | | A: 15A 125V ac, 10A 250V ac |
| | | C: NO: 10A 250V ac / 24V dc |
| | | NC: 6A 250V ac / 24V dc |
| | | TV-5 125V ac |
| Contact Resistance | | Maximum 100mΩ (6V dc 1A) |
| Load | Maximum Switching Voltage | 250V ac / 30V dc |
| | Maximum Switching Current | 15A |
| | Maximum Switching Power | 2,500VA,300W |
| | Minimum Switching Load | 5V dc,100mA |
| Life | Electrical | 100,000 Operations |
| | Mechanical | 10,000,000 Operations |

Power Relays

Specifications

| | | |
|-----------------------|---------------------------|-----------------------------------|
| Coil Data | | |
| Nominal Coil Power | | 360mW, 450mW |
| General Data | | |
| Insulation Resistance | | Minimum 1,000M Ω 500V dc |
| Dielectric Strength | Between Open Contacts | 750V ac,1 Min |
| | Between Coil and Contacts | 1,500V ac,1 Min |
| Operate Time | | Maximum 10ms |
| Release Time | | Maximum 5ms |
| Operating Temperature | | -40 to +85°C |
| Humidity | | 35 to 95% RH, +40°C |
| Shock Resistance | Endurance | 1,000m/s ² |
| | Misoperation | 100m/s ² |
| Vibration Resistance | Endurance | 10 to 55Hz,1.5mm Double Amplitude |
| | Misoperation | |

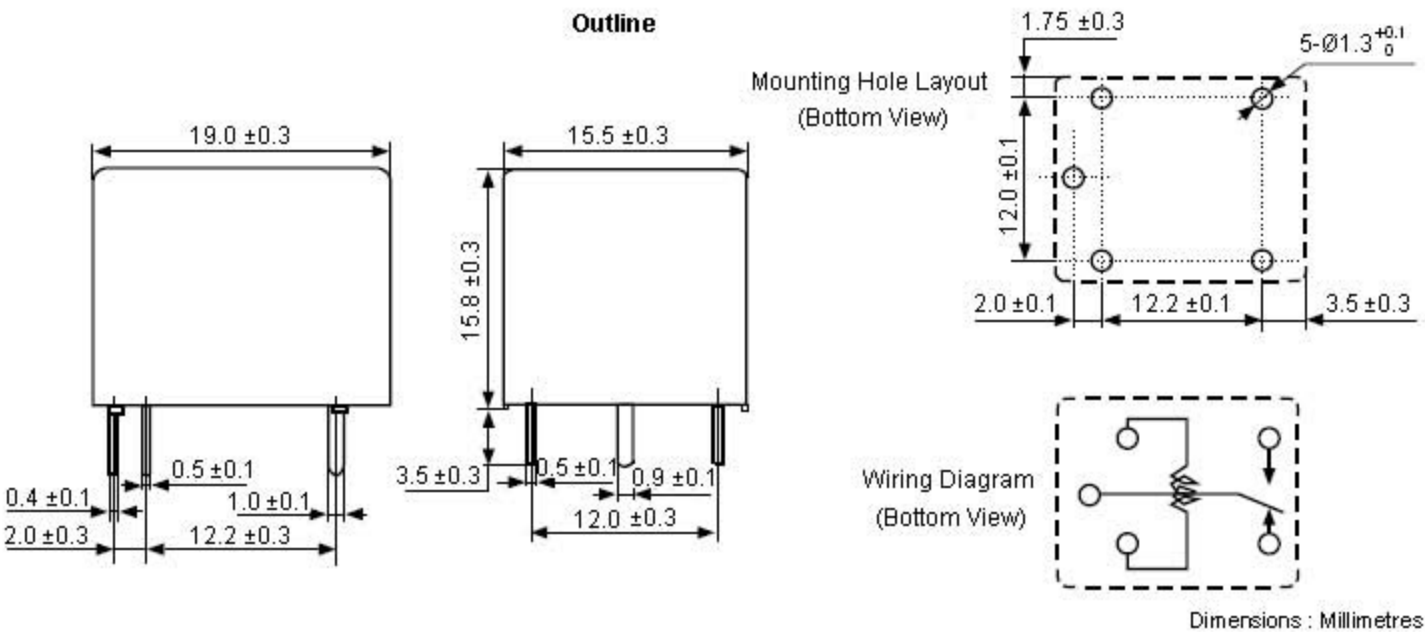
Coil Data

Ambient Temperature: 23°C

| Nominal Voltage V dc | Coil Resistance Ω $\pm 10\%$ | Operate Voltage \leq V dc | Release Voltage \geq V dc | Coil Power mW | Part Number |
|-------------------------|--|--------------------------------|--------------------------------|------------------|----------------|
| 5 | 55 | 3.5 | 0.5 | 450 | HRS4-S-DC5V-C |
| 12 | 320 | 8.4 | 1.2 | | HRS4-S-DC12V-C |
| 24 | 1280 | 16.8 | 2.4 | | HRS4-S-DC24V-C |

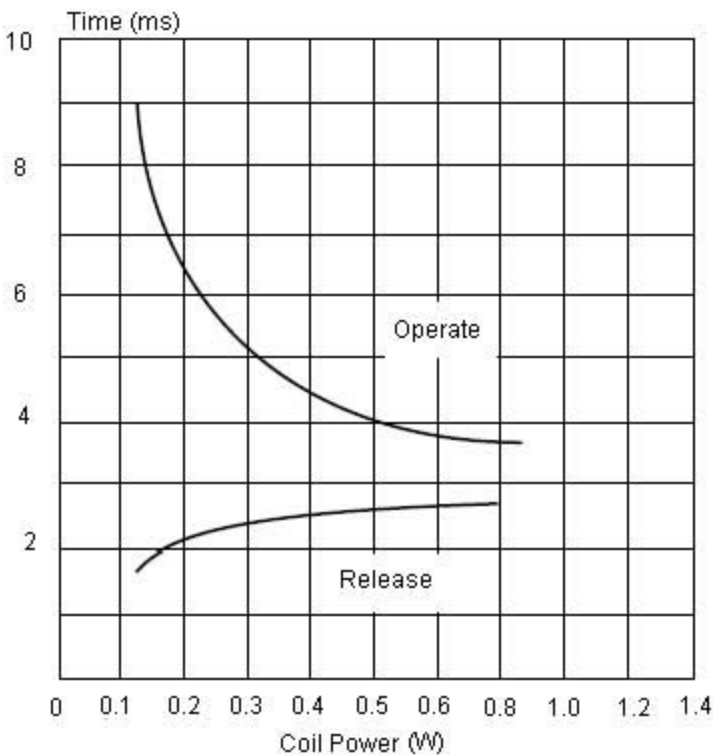
Power Relays

Out Line, Wiring Diagram, Mounting Hole Layout (Unit : mm)

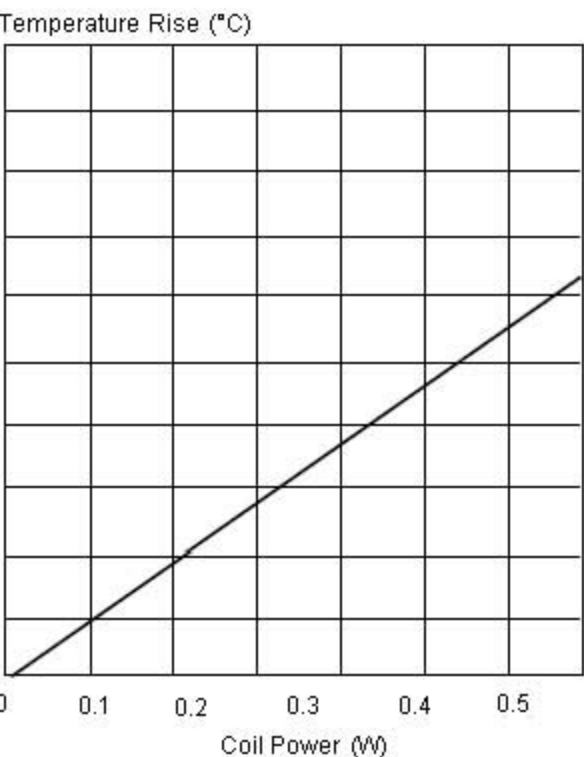


Characteristic Chart Data

Timing



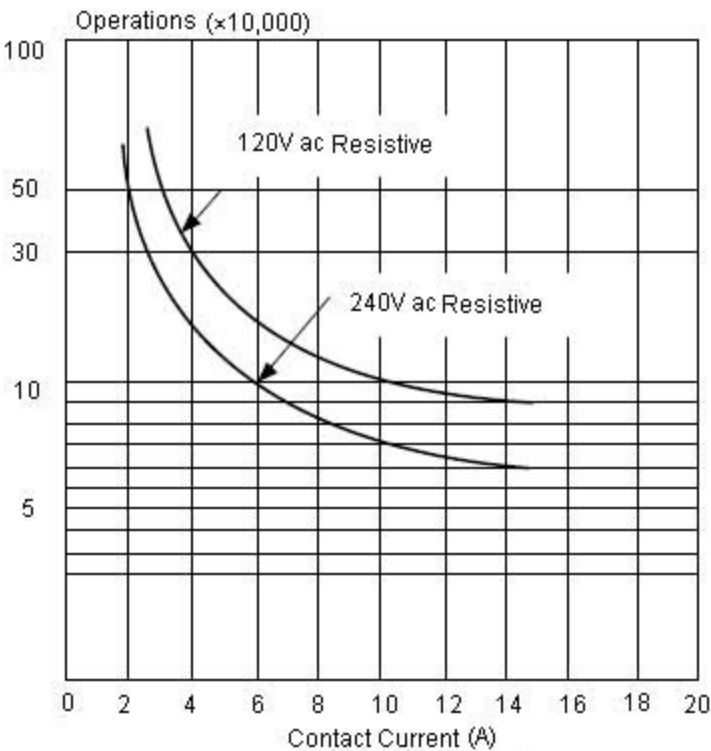
Coil Temperature Rise



Power Relays

Characteristic Chart Data

Life Curves



Maximum Switching Power

