

HCP2

POWER RELAY

Features

- Low profile, height 15.8mm
Dimensions: 29.0×12.6×15.8(mm)
- Switching capacity 8A
- Contact: 2 Form A, 2 Form C
- Sensitivity 400mW
- Insulation: 5KV
- Creepage:10mm

Safety Approval

US NO.E164730



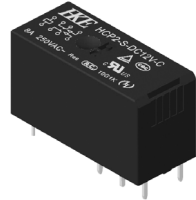
NO.CQC09002030014



NO.50062453



NO.40043990

Relay Picture**ORDERING INFORMATION****HCP2** - [S] - [DC12V] - [C]

| Model | Enclosure | Coil Voltage | Contact Form |
|-------|-------------------------|--|------------------------------|
| | S - Plastic Sealed Type | DC5V, DC6V, DC9V, DC12V, DC24V, DC48V | A - 2 Form A C - 2 Form C |

SPECIFICATION**CONTACT DATA**

| | | |
|--------------------|---|---|
| Contact Form | 2 Form A, 2 Form C | |
| Contact Material | Ag Alloy | |
| Contact Rating | Resistive: 8A 250VAC/30VDC Inductive: 4A 250VAC Cosφ=0.4 | |
| Contact Resistance | Max. 100mΩ (6VDC 1A) | |
| Load | Max. Switching Voltage | 440VAC/120VDC |
| | Max. Switching Current | 8A |
| | Max. Switching Power | 2,000VA, 240W |
| | Min. Switching Load | 5VDC, 100mA |
| Life | Electrical | 100,000 operations |
| | | 50,000 operations (Inductive: Cosφ=0.4, L/R=7ms) |
| | Mechanical | 20,000,000 operations |

GENERAL DATA

| | | |
|-----------------------|---------------------------|---------------------------------|
| Insulation Resistance | | Min. 1000MΩ 500VDC |
| Dielectric Strength | Between open contacts | 1,000VAC, 1min |
| | Between coil and contacts | 5,000VAC, 1min |
| 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 13.00g |

Note:Data shown are of initial value

COIL DATA

| | |
|--------------------|-------|
| Nominal Coil Power | 400mW |
|--------------------|-------|

SAFETY APPROVAL

| File Number | Contact Form | Power Consumption | Coil Voltage | Contact Rating | Remarks |
|---------------------------------------|--------------|-------------------|--------------------------|----------------|--|
| UL E164730 | A/C | 0.4W | 5-110VDC | 8A 250VAC | Insulation class: F Ambient Temperature: 85°C |
| TUV 50062453-0002 | A/C | 0.4W | 5,6,9,12,24,48,60,110VDC | 8A 250VAC | Ambient Temperature: 85°C |
| CQC09002030014 (GB/T 21711.1-2008) | A/C | 0.4W | 5,6,9,12,24,48,60,110VDC | 8A 250VAC | Ambient Temperature: 85°C |
| VDE 40043990 | A | 0.4W | 5,6,9,12,18,24,36,48VDC | 8A 250VAC | Ambient Temperature: 85°C |

Specifications subject to change without notice

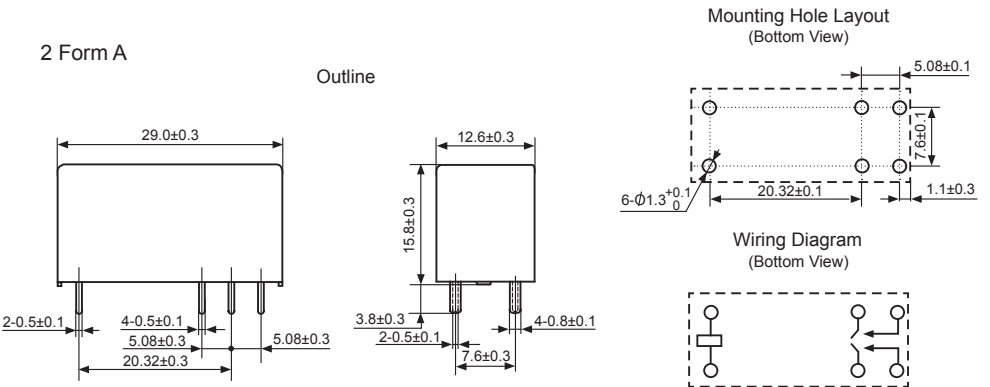
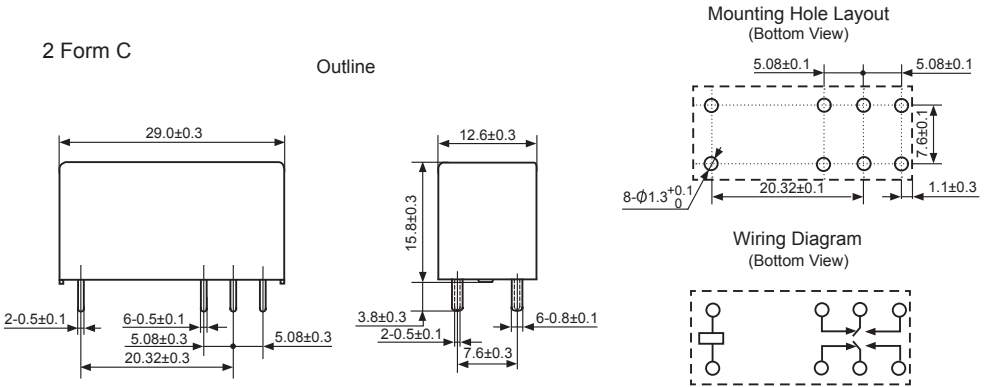
ISO9001、ISO/TS16949、ISO14001 Approved

COIL DATA

Ambient Temperature: 23°C

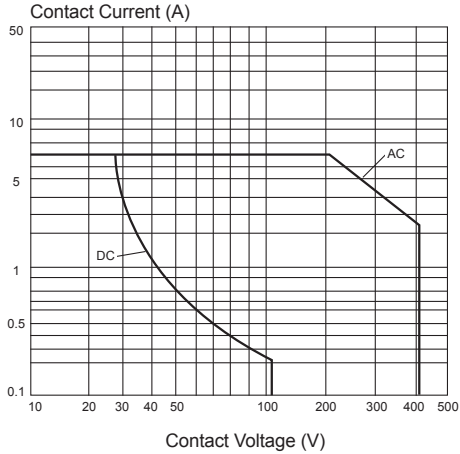
| Model | Nominal Voltage VDC | Coil Resistance $\Omega \pm 10\%$ | Operate Voltage \leq VDC | Release Voltage \geq VDC | Coil Power mW |
|--------------|---------------------|-----------------------------------|----------------------------|----------------------------|---------------|
| HCP2-S-DC5V | 5 | 62.5 | 3.5 | 0.5 | 400 |
| HCP2-S-DC6V | 6 | 90.0 | 4.2 | 0.6 | |
| HCP2-S-DC9V | 9 | 202.5 | 6.3 | 0.9 | |
| HCP2-S-DC12V | 12 | 360 | 8.4 | 1.2 | |
| HCP2-S-DC24V | 24 | 1440 | 16.8 | 2.4 | |
| HCP2-S-DC48V | 48 | 5760 | 33.6 | 4.8 | |

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

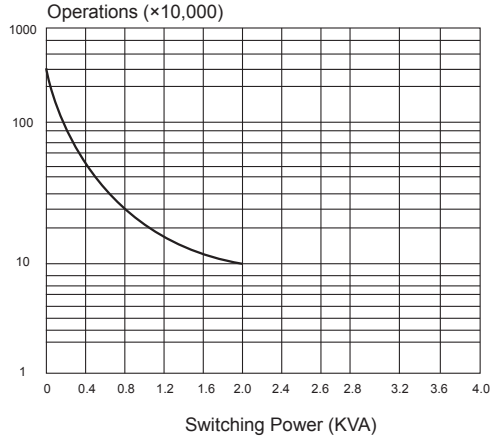


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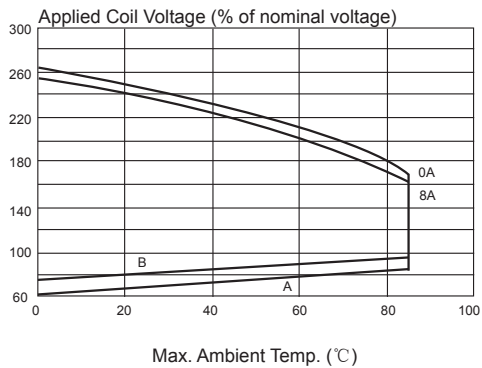
Maximum Switching Power



Life Curve



Max. Ambient Temp. Vs. Coil Voltage



A: Coil temperature = Ambient temperature.

B: 110% of nominal coil voltage at rated contact load.

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