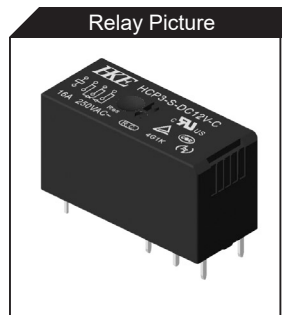




Features
■ Low profile, height 15.8mm ■ Dimensions: 29.0×12.6×15.8(mm) ■ Switching capacity 16A ■ Contact: 1 Form A, 1 Form B, 1 Form C ■ Sensitivity: 400mW, 250mW ■ Insulation: 5KV ■ Creepage: 10mm
Safety Approval
US NO.E164730 NO.CQC09002030014
NO.50097843 NO.40043990



ORDERING INFORMATION

HCP3 [H] - [S] - [DC12V] - [C]				
Model	Coil Sensitivity	Enclosure	Coil Voltage	Contact Form
	H-High Sensitivity (250mW) Blank-Standard (400mW)	S - Plastic Sealed Type	DC5V, DC6V, DC9V DC12V, DC24V, DC48V	A - 1 Form A B - 1 Form B C - 1 Form C

SPECIFICATION

CONTACT DATA

Contact Form	1 Form A, 1 Form B, 1 Form C	
Contact Material	Ag Alloy	
Contact Rating	Resistive: 16A 250VAC/30VDC Inductive: 8A 250VAC Cosφ=0.4	
Contact Resistance	Max. 100mΩ (6VDC 1A)	
Load	Max. Switching Voltage	440VAC/120VDC
	Max. Switching Current	16A
	Max. Switching Power	4,000VA, 480W
	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	250mW, 400mW
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SAFETY APPROVAL

File Number	Contact Form	Power Consumption	Coil Voltage	Contact Rating	Remarks
TUV 50097843	A/C	0.4W	5-48VDC	16A 250VAC	Ambient Temperature: 85°C
CQC09002030014 (GB/T 21711.1-2008)	A/C	0.4W	5,6,9,12,24,48,60,110VDC	16A 250VAC	Ambient Temperature: 85°C
VDE 40043990	A/B/C	0.4W	5,6,9,12,18,24,36,48VDC	16A 250VAC	Ambient Temperature: 85°C
	C	0.4W	5,6,9,12,18,24,36,48VDC	NO/NC: 16A/5A 250VAC	Ambient Temperature: 105°C

ISO9001, IATE16949, ISO14001 Approved

HCP3

POWER RELAY

SAFETY APPROVAL

File Number	Contact Form	Power Consumption	Coil Voltage	Contact Rating	Remarks
UL E164730	A/C	0.4W	5-110VDC	20A 250VAC(NO)	Insulation class:F Ambient Temperature: 85°C
	A/B/C	0.4W/0.25W	5-110VDC	16A 250VAC	Insulation class:F Ambient Temperature: 85°C
	B/C	0.4W/0.25W	5-110VDC	16A 250VAC(NC)	Insulation class:F Ambient Temperature: 85°C
	A/C	0.4W	5-110VDC	TV-5 250VAC(NO)	Insulation class:F Ambient Temperature: 40°C
	B/C	0.4W	5-110VDC	TV-5 250VAC(NC)	Insulation class:F Ambient Temperature: 25°C

Specifications subject to change without notice

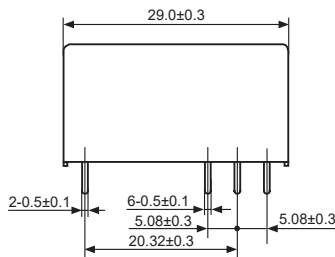
COIL DATA

Ambient Temperature: 23°C

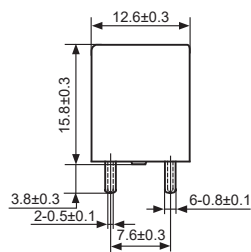
Model	Nominal Voltage VDC	Coil Resistance Ω +/-10%	Operate Voltage $\leq$ VDC	Release Voltage $\geq$ VDC	Coil Power mW
HCP3-S-DC5V	5	62.5	3.5	0.5	400
HCP3-S-DC6V	6	90.0	4.2	0.6	
HCP3-S-DC9V	9	202.5	6.3	0.9	
HCP3-S-DC12V	12	360	8.4	1.2	
HCP3-S-DC24V	24	1440	16.8	2.4	
HCP3-S-DC48V	48	5760	33.6	4.8	
HCP3H-S-DC5V	5	100	3.75	0.5	250
HCP3H-S-DC6V	6	144	4.5	0.6	
HCP3H-S-DC9V	9	324	6.75	0.9	
HCP3H-S-DC12V	12	576	9.0	1.2	
HCP3H-S-DC24V	24	2304	18.0	2.4	
HCP3H-S-DC48V	48	9216	36.0	4.8	

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

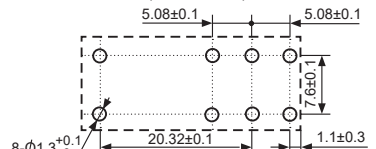
1 Form C



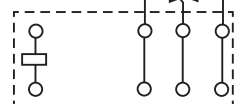
Outline



Mounting Hole Layout
(Bottom View)



Wiring Diagram
(Bottom View)



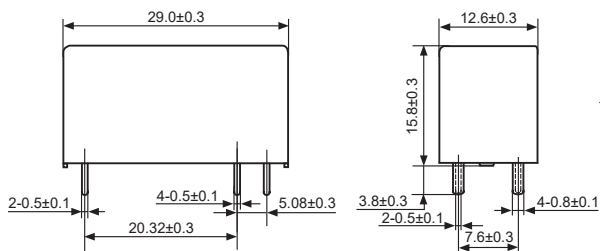
ISO9001, IATF16949, ISO14001 Approved

HCP3

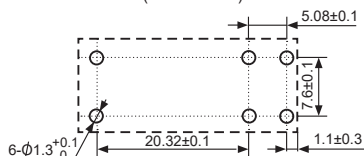
POWER RELAY

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

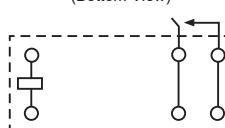
1 Form A



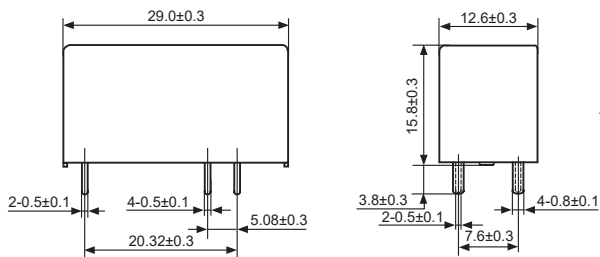
Mounting Hole Layout
(Bottom View)



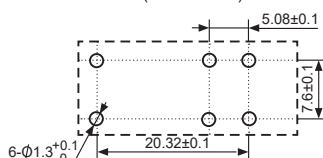
Wiring Diagram
(Bottom View)



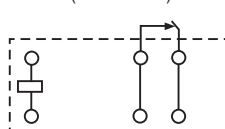
1 Form B



Mounting Hole Layout
(Bottom View)

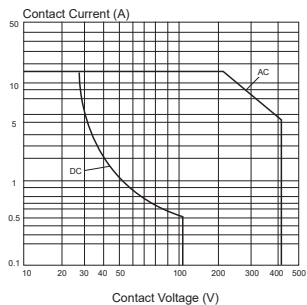


Wiring Diagram
(Bottom View)

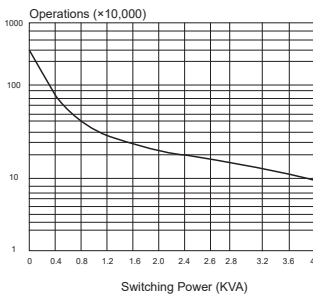


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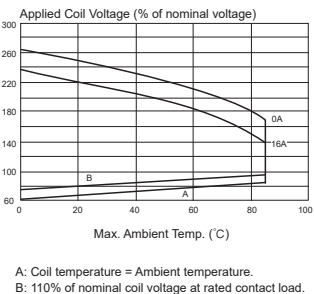
Maximum Switching Power



Life Curve



Max. Ambient Temp. Vs. Coil Voltage



ISO9001, IATE16949, ISO14001 Approved