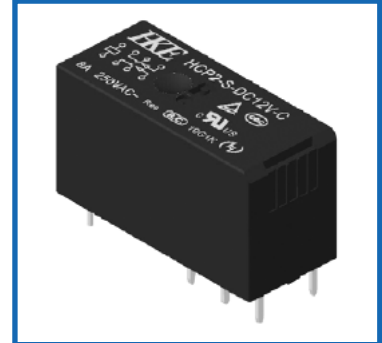


## Low Profile PCB Power Relay



### DESCRIPTION

A range of Low Profile SPST/SPDT PCB Power Relays. These low profile, through hole mounting relays are designed for switching control signals within circuits.

### DISTINCTIVE 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 distance: 10mm
- Enclosure: S - Plastic Sealed Type
- Contact Material: Ag Alloy
- Electrical Life: 100,000 operations

### APPLICATIONS

These relays are suitable for a wide variety of applications, including automation control, automotive electronics, control and audio visual equipment.

16A

TUV

CQC

VDE

UL

SPDT

SPST



## ELECTRICAL SPECIFICATION

Contact Form		1 Form A, 1 Form C
Contact Rating		Resistive: 16A 250VAC/30VDC Inductive: 8A 250VAC Cosφ=0.4
Contact Resistance		Max. 100mΩ (6VDC 1A)
Insulation Resistance		Min. 1000MΩ 500VDC
Load	Max Switching Voltage	440VAC/120VDC
	Max Switching Current	16A
	Max Switching Power	4,000VA, 480W
	Min Switching Load	5VDC, 100mA
Dialectric Strength	Between Open Contacts	1,000VAC, 1min
	Between Coil & Contacts	5,000VAC, 1min
Nominal Coil Power		400mW



## ENVIRONMENTAL/OPERATING SPECIFICATION

Operating Temperature		-40°C to +85°C
Humidity		35~95%RH, +40°C
Shock Resistance	Endurance	1,000m/s <sup>2</sup>
	Misoperation	100m/s <sup>2</sup>
Vibration Resistance	Endurance	10~55Hz, 1.5mm double amplitude
	Misoperation	10~55Hz, 1.5mm double amplitude



## CERTIFICATION AND STANDARDS

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, 110 VDC	16A 250VAC	Ambient Temperature: 85°C
VDE 40043990	A/B/C	0.4W	5, 6, 9, 12, 18, 24, 36, 48 VDC	16A 250VAC	Ambient Temperature: 85°C
	C	0.4W	5, 6, 9, 12, 18, 24, 36, 48 VDC	NO/NC:16A/5A 250VAC	Ambient Temperature: 85°C



## CERTIFICATION AND STANDARDS

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



## TERMINALS

Terminal Type	Solder pins
Terminal Dimensions	See Drawings



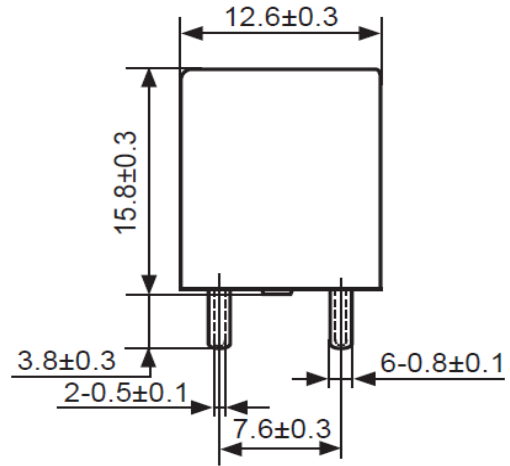
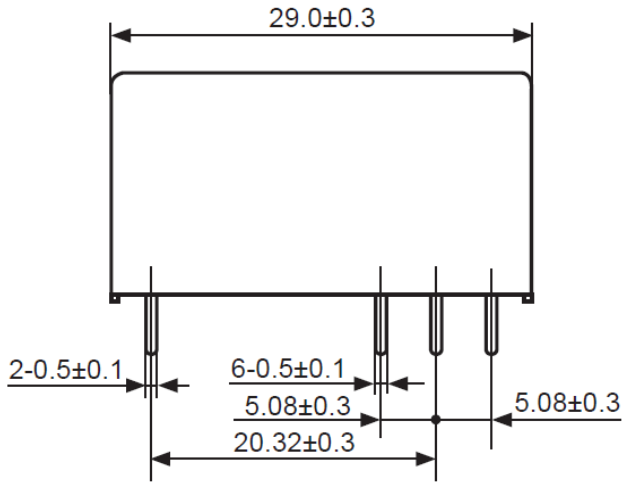
## DIMENSIONS/DRAWINGS

Units	mm – unless stated otherwise
Height (excluding pins)	15.8
Width/diameter	12.6
Length/depth	29.0
Weight	Approximately 13.0g

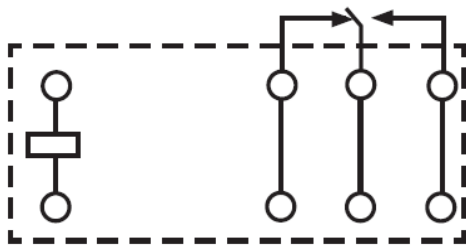


**DIMENSIONS/DRAWINGS**

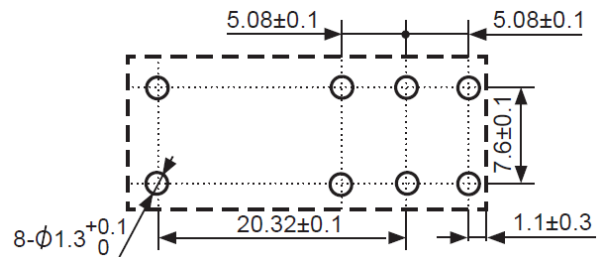
Dimensions 1 Form C



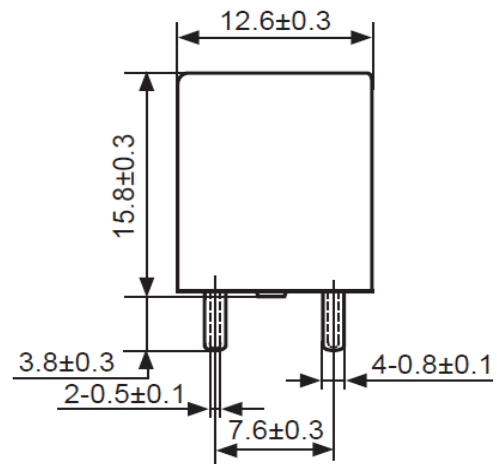
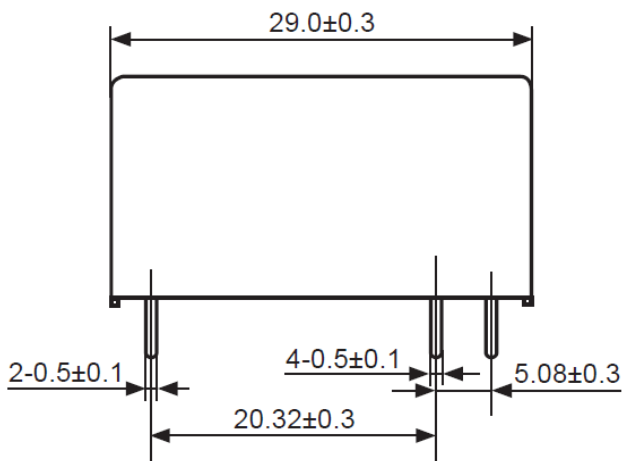
Wiring Diagram 1 Form C



Mounting hole layout 1 Form C



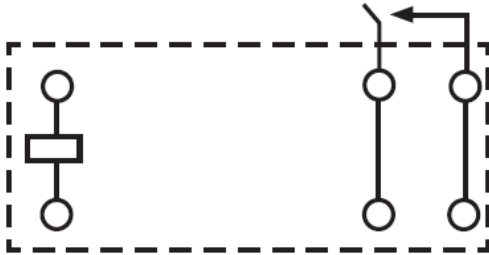
Dimensions 1 Form A



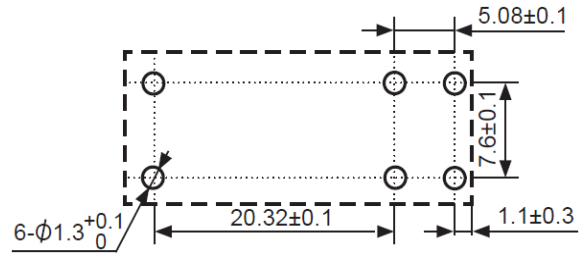


## DIMENSIONS/DRAWINGS

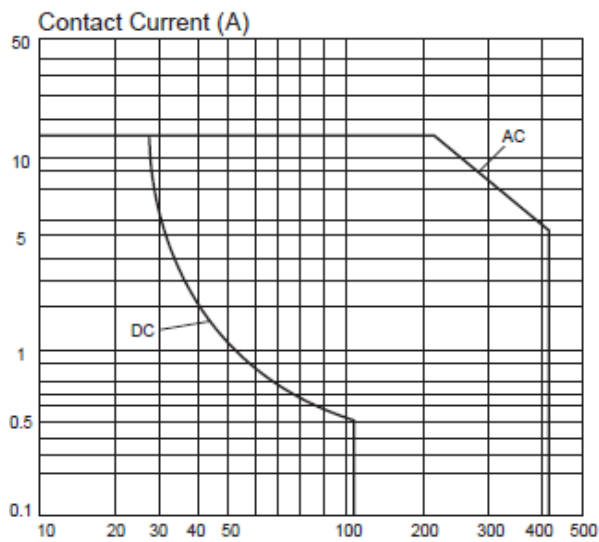
Wiring Diagram 1 Form A



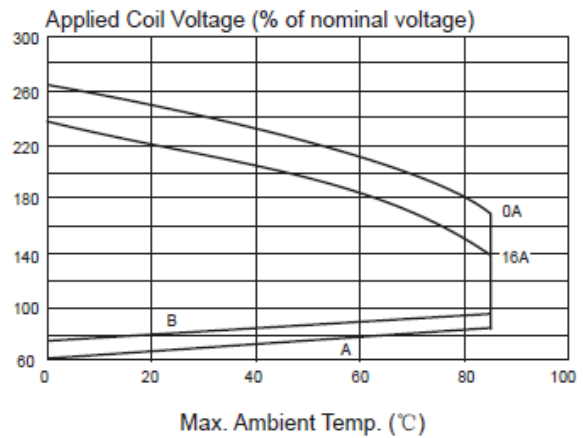
Mounting hole layout 1 Form A



Maximum Switching Power

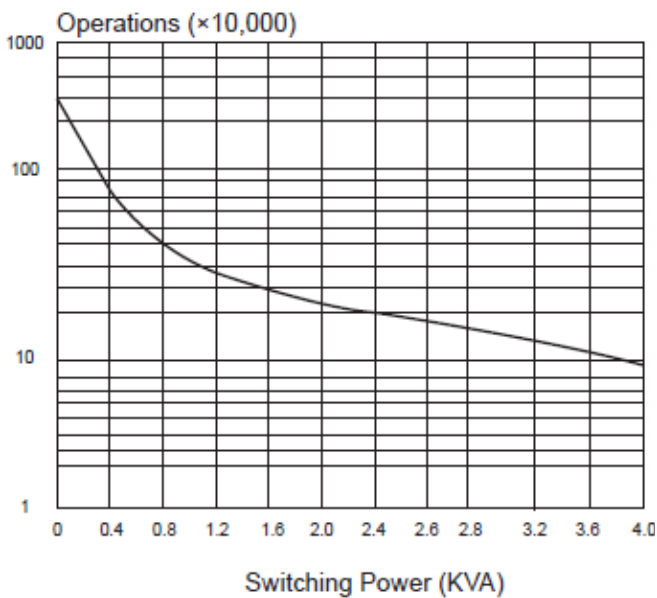


Max. Ambient Temp. Vs. Coil Voltage



A: Coil temperature = Ambient temperature.  
B: 110% of nominal coil voltage at rated contact load.

Life Curves





## PART NUMBER TABLE

Part number	Coil Power mW	Nominal Voltage VDC	Coil Resistance $\Omega$ +/-10%	Operating Voltage $\leq$ VDC	Release Voltage $\geq$ VDC	UNSPSC	EAN
<b>61-6411</b>	400	24	1440	16.8	2.4	39122325	5053556032914
<b>61-6412</b>	400	12	360	8.4	1.2	39122325	5053556032921
<b>61-6413</b>	400	24	1440	16.8	2.4	39122325	5053556032938



## OPTIONS (MOQ MAY APPLY)

Also available with a coil voltage of	12, 24 VDC
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For further information on pricing, delivery, and long-term stock agreements please get in touch with your local business development contact, telephone our main office on **01206 838000** or email **Sales@Rapidonline.com**.



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