Low Profile PCB Power Relay, 16A

DESCRIPTION

Low Profile single pole Power Relays. These low profile, single pole, through hole mounting relays are designed for switching control signals within circuits.

DISTINCTIVE FEATURES

- Low Profile
- Fully Sealed Construction
- Contact Form: 1 Form A,1 Form B,1 Form C
- SPDT, SPST-NO, SPST-NC Contact Configuration
- PCB Mounting

APPLICATIONS

These relays are suitable for a wide range of applications including automotive electronics, automation control, audio amplification, and industrial equipment.

16A

1 Form A

1 Form B

1 Form C

440V AC

120V DC

ELECTRICAL SPECIFICATION

Contact Form	1 Form A,1 Form B,1 Form C (See Part Number Table)	
Contact Rating	Resistive	16A 250VAC/30VDC
	Inductive	8A 250VAC Cosφ=0.4
Contact Resistance	Maximum	100mΩ (6VDC 1A)
Insulation Resistance	Minimum	1000MΩ 500VDC
Load	Maximum Switching Voltage	440VAC/120VDC
	Maximum Switching Current	16A
	Maximum Switching Power	4,000VA, 480W
	Minimum Switching Load	5VDC, 100mA
Dielectric Strength	Between open contacts	1,000VAC, 1min
	Between coil and contacts	5,000VAC, 1min

Coil Data

Ambient Temperature: 23°C

Part number	Nominal Voltage VDC	Coil Resistance Ω+/-10%	Operate Voltage ≤VDC	Release Voltage ≥VDC	Coil Power mW
61-6304	12	360	8.4	1.2	400

GENERAL SPECIFICATION

Series	Low Profile Power Relays
Mounting Type	PCB mounting
RoHS	Yes

MATERIALS

Contact Material	Ag Alloy
Outer Case Material	PBT Plastic sealed

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, 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, ISO/TS16949, ISO14001 Approved

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.

ENVIRONMENTAL/OPERATING SPECIFICATION

Life	Electrical	100,000 operations
		50,000 operations (Inductive: Cosφ=0.4, L/R=7ms)
	Mechanical	20,000,000 operations
Operate Time	Maximum 10ms	
Release Time	Maximum 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

TERMINALS

Terminal Type	Solder pins
Terminal Dimensions	See drawing on page 4

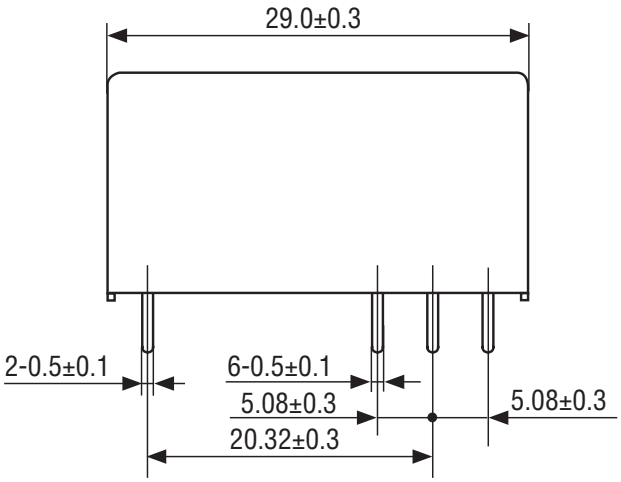
DIMENSIONS/DRAWINGS

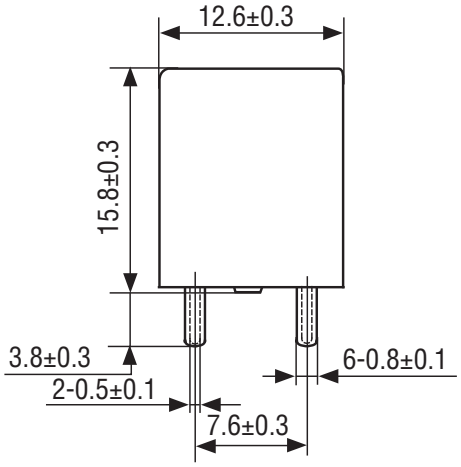
Units	mm - unless stated otherwise
Dimensions (Summary)	29.0 x 12.6 x 15.8
Length	29.0
Width	12.6
Height (Excluding pins)	15.8
Weight	13g (approx.)

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

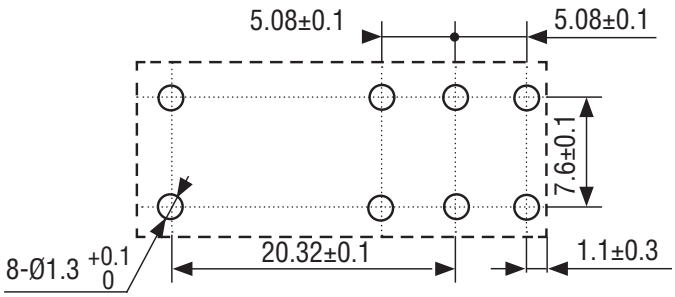
1 Form C

Outline

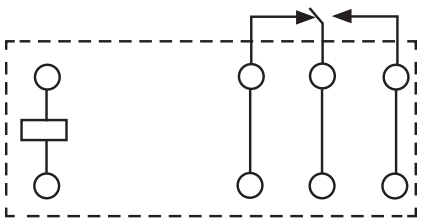




Mounting Hole Layout
(Bottom View)

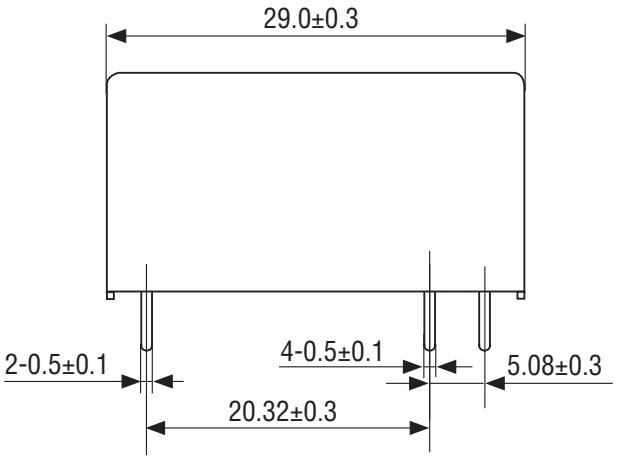


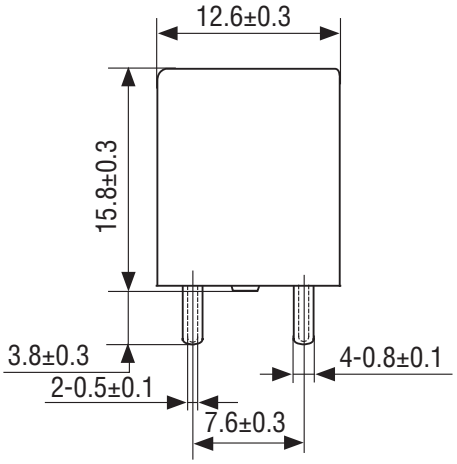
Wiring Diagram
(Bottom View)



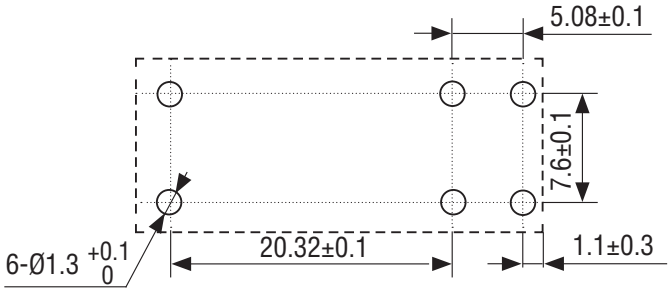
1 Form A

Outline

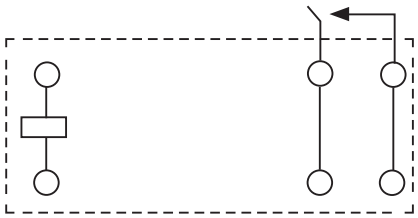




Mounting Hole Layout
(Bottom View)

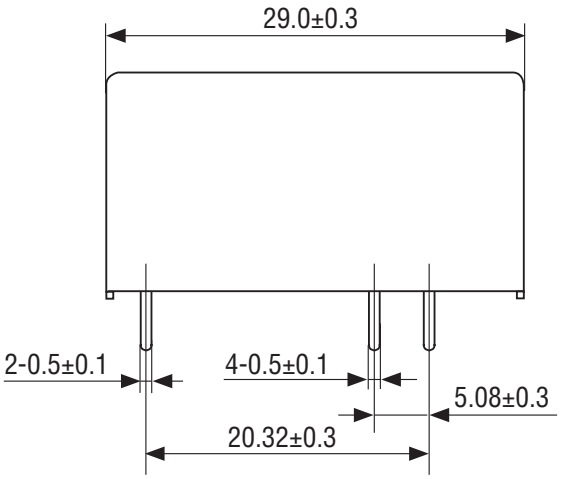


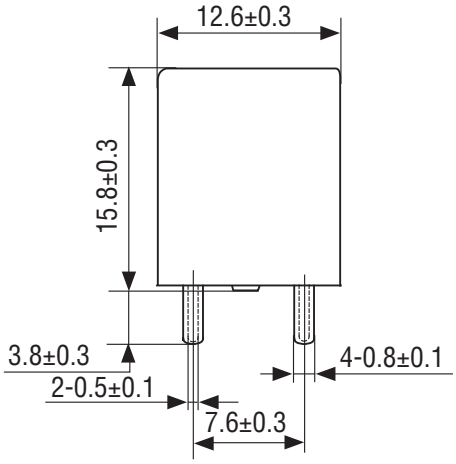
Wiring Diagram
(Bottom View)



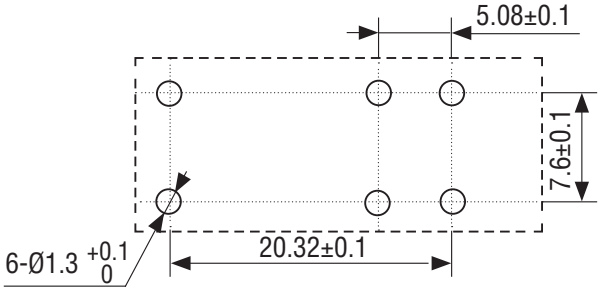
1 Form B

Outline

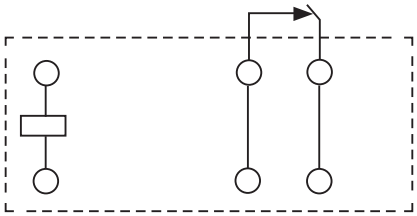




Mounting Hole Layout
(Bottom View)

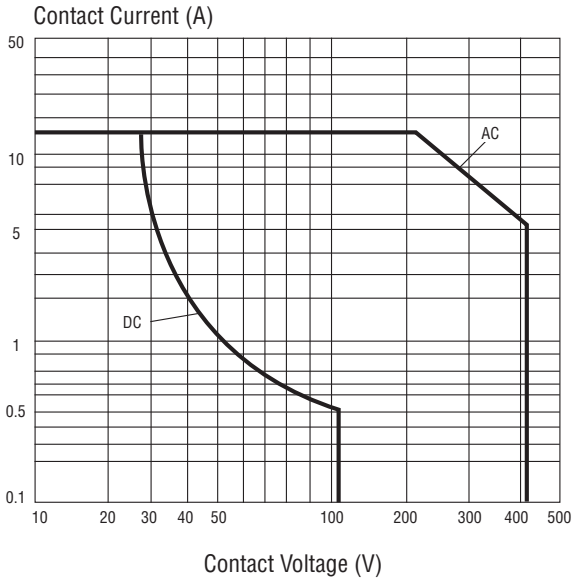


Wiring Diagram
(Bottom View)

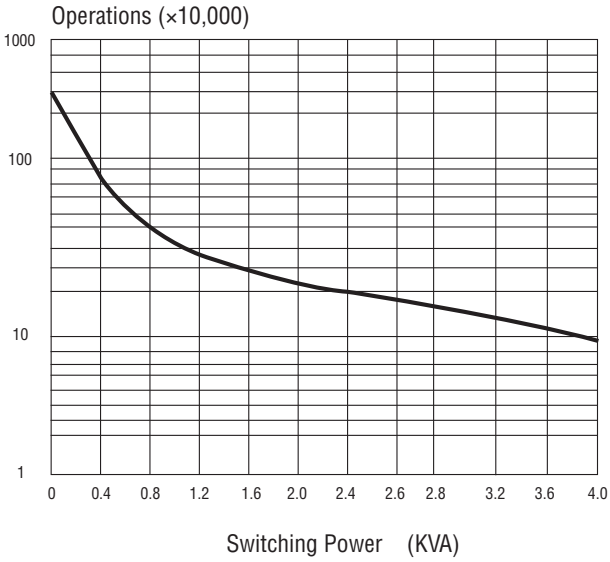


REFERENCE DATA

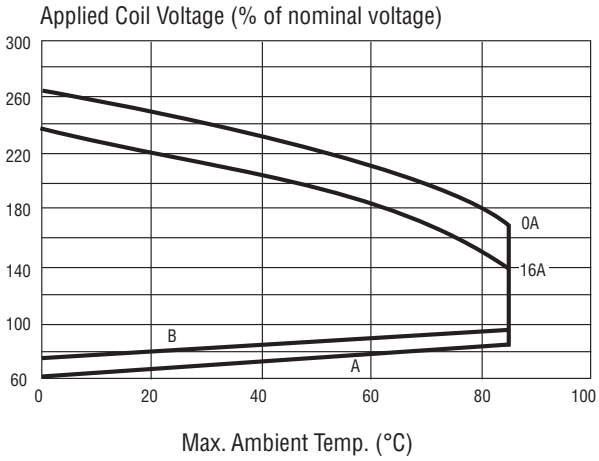
Maximum Switching Power



Life Curve



Max. Ambient Temp. Vs. Coil Voltage



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

OPTIONS (MOQ may apply)

Coil Voltage	5, 6, 9 12, 24 & 48V
Coil Sensitivity	High Sensitivity (250mW)
Contact Form	1 Form A, 1 Form B
Contact Configuration	SPST normally open and normally closed versions are also available

PART NUMBER TABLE

Part number	Nominal Coil Voltage	Contact Form	Contact Configuration	Enclosure	Coil Sensitivity	UNSPSC	EAN	Country of Origin
61-6304	12 VDC	1 Form C	SPDT	Sealed	Standard (400mW)	39122325	5053556018833	China

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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