

General Purpose PCB Relay, 12A



DESCRIPTION

General Purpose single pole Signal/Power Relays. These general purpose, low profile, single pole, through hole mounting relays are designed for switching control signals within circuits.

DISTINCTIVE FEATURES

- Low Profile
- Fully Sealed Construction
- SPST-NO, SPDT Contact Configuration
- · Contact Form: 1 Form A and 1 Form C
- 3.5 and 5mm pitch
- · Sensitivity: 400mW
- PCB Mounting

APPLICATIONS

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

12A











120V DC





ELECTRICAL SPECIFICATION

Contact Form	1 Form A, 1 Form C (See Part Number Table)			
Contact Rating	Resistive	12A 250VAC/30VDC		
	Inductive	5A 250VAC Cosφ=0.4		
Contact Resistance	Maximum	100mΩ (6VDC 1A)		
Insulation Resistance	Minimum	1000MΩ 500VDC		
Dielectric Strength	Between open contacts	1,000VAC, 1min		
	Between coil and contacts	5,000VAC, 1min		
Load	Maximum Switching Voltage	440VAC/120VDC		
	Maximum Switching Current	12A		
	Maximum Switching Power	3,000VA, 360W		
	Minimum Switching Load	5VDC, 100mA		

Coil Data Ambient Temperature: 23°C

Part number	Nominal Voltage	Coil Resistance	Operate Voltage	Release Voltage	Coil Power
	VDC	Ω+/-10%	≤VDC	≥VDC	mW
61-6292	12	360	8.4	1.2	400



GENERAL SPECIFICATION

Series	General purpose signal/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
UL E164730	A/C	0.4W	5-110VDC	12A 250VAC	Class F insulation Ambient Temperature: 85°C
TUV 50097843	A/C	0.4W	5-48VDC	12A 250VAC	Ambient Temperature: 85°C
CQC09002030014 (GB/T 21711.1-2008)	A/C	0.4W	5, 6, 9,12, 24, 48, 60, 110VDC	12A 250VAC	Ambient Temperature: 85°C
VDE 40043990	A/C	0.4W	5, 6, 9, 12, 18, 24, 36, 48VDC	12A 250VAC	Ambient Temperature: 85°C

Specifications subject to change without notice.



ENVIRONMENTAL/OPERATING SPECIFICATION

Life	Electrical Life	100,000 operations			
		50,000 operations (Inductive: Cosφ=0.4, L/R=7ms)			
	Mechanical Life	20,000,000 operations			
Operate Time	Maximum 10ms				
Release Time	Maximum 5ms	Maximum 5ms			
Operating Temperature	-40°C to +85°C	-40°C to +85°C			
Humidity	35~95%RH, +40°C				
Shock Resistance	Endurance	1,000m/s²			
	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 and 5		





DIMENSIONS/DRAWINGS

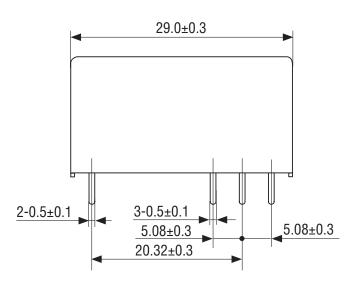
Units	mm - unless stated otherwise
Dimensions (Summary)	29.0 x 12.6 x 15.8mm
Length	29.0mm
Width	12.6mm
Height (Excluding pins)	15.8mm
Weight	13.0g (approx.)

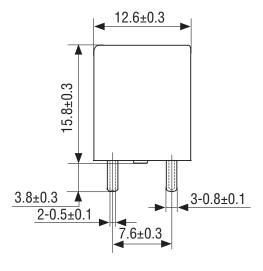


OUTLINE, WIRING DIAGRAM, MOUNTING HOLE LAYOUT (UNIT: mm)

1 Form C

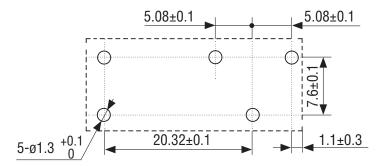
Outline (5mm)

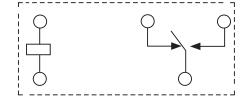




Mounting Hole Layout (Bottom View)

Wiring Diagram (Bottom View)

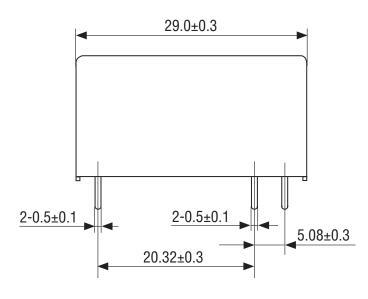


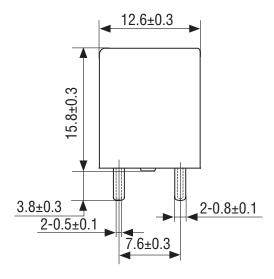




1 Form A

Outline (5mm)





Mounting Hole Layout (Bottom View)

4-ø1.3 +0.1 20.32±0.1 1.1±0.3

Wiring Diagram (Bottom View)

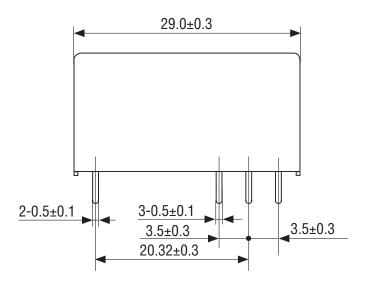


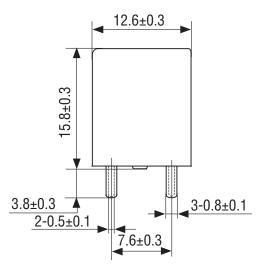


OUTLINE, WIRING DIAGRAM, MOUNTING HOLE LAYOUT (UNIT: mm)

1 Form C

Outline (3.5mm)

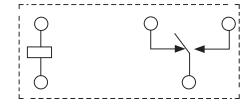




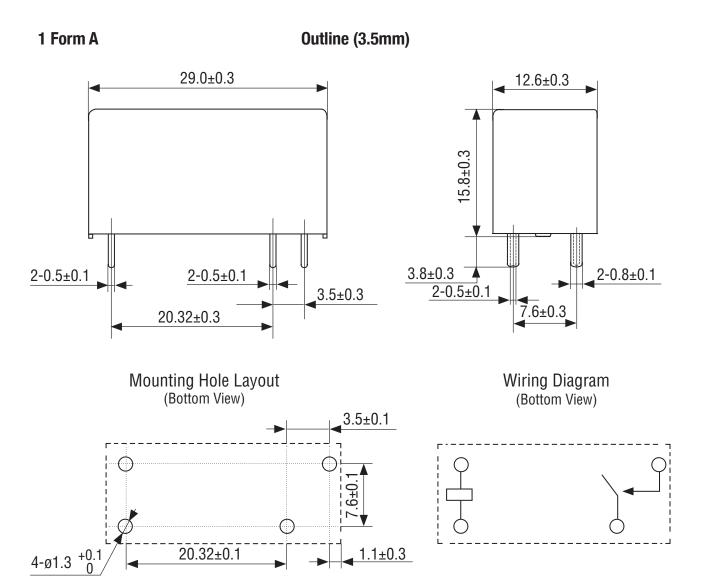
Mounting Hole Layout (Bottom View)

3.5±0.1 3.5±0.1 5-ø1.3 ^{+0.1} 20.32±0.1

Wiring Diagram (Bottom View)



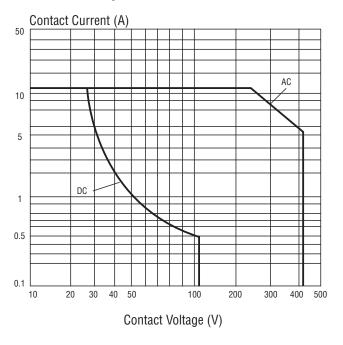




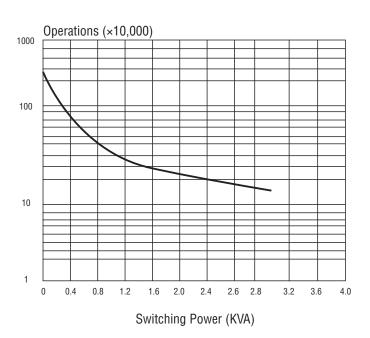


REFERENCE DATA

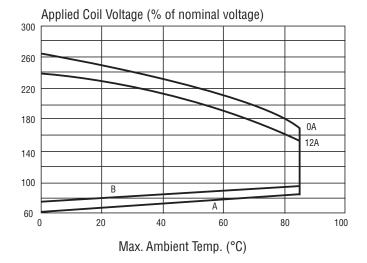
Maximum Switching Power



Life Curves



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
Contact Form	1 Form A
Contact Configuration	SPST-NO
Enclosure	Plastic Sealed Type
Pitch	3.5 and 5mm



PART NUMBER TABLE

Part number	Nominal Coil Voltage	Contact Form	Pitch	Enclosure	UNSPSC	EAN	Country of Origin
61-6292	12 VDC	1 Form C	5mm	Sealed	39122325	5053556018710	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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