

## **General Purpose PCB Relay, 10A**



#### **DESCRIPTION**

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

#### **DISTINCTIVE FEATURES**

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

#### **APPLICATIONS**

The small dimensions of these miniature relays make them suitable for a wide range of applications including automotive electronics, automation control, measurement, and industrial equipment.

10A









28V DC





## **ELECTRICAL SPECIFICATION**

Contact Form	1 Form A, 1 Form B, 1 Form C (See Part Number Table)				
Contact Rating	10A 250VAC/24VDC				
Contact Resistance	Maximum 100mΩ (6VDC 1A)				
Insulation Resistance	Minimum	1000MΩ 500VDC			
Load	Maximum Switching Voltage	250VAC/28VDC			
	Maximum Switching Current	15A			
	Maximum Switching Power	2,500VA, 280W			
	Minimum Switching Load	5VDC, 100mA			
Dielectric Strength	Between open contacts	1,000VAC, 1 min			
	Between coil and contacts	1,500VAC, 1 min			

Coil Data Ambient Temperature: 23°C

Part number		Coil Resistance Ω+/-10%	Operate Voltage ≤VDC	Release Voltage ≥VDC	Coil Power mW
61-6295	12	320	8.4	1.2	450
61-6296	24	1280	16.8	2.4	450



## **GENERAL SPECIFICATION**

Series	Miniature 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	
CQC 08002027614 (GB/T 21711.1-2008)	А	0.36W/0.45W	3 - 48VDC	10A 250VAC		
	В	0.36W/0.45W	3 - 48VDC	6A 250VAC	Ambient Temperature: 85°C	
	С	0.36W/0.45W	3 - 48VDC	NO/NC: 10A/6A 250VAC		
UL E164730	A/C	0.36W/0.45W	3 - 48VDC	10A 250VAC/30VDC	Class F Insulation Ambient Temperature: 85°C	
TUV 50116136	A/B/C	0.26/4/0.45/4/	2 40\/DC	10A 250VAC/24VDC	Ambient Temperature: 85°C	
TUV50116136 (EN 60730-1)	A/B/C	0.36W/0.45W	3 - 48VDC	10(2)A 250VAC	Ambient Temperature: 85°C	

Specifications subject to change without notice.



## **ENVIRONMENTAL/OPERATING SPECIFICATION**

Life	Electrical Life	100,000 operations (NO contact )			
	Mechanical Life	10,000,000 operations			
Operate Time	Maximum 10ms	·			
Release Time	Maximum 5ms				
Operating Temperature	-40°C to +85°C	-40°C to +85°C			
Humidity	35~95%RH, +40°C	35~95%RH, +40°C			
Shock Resistance	Endurance	1,000m/s <sup>2</sup>			
	Misoperation	100m/s²			
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		



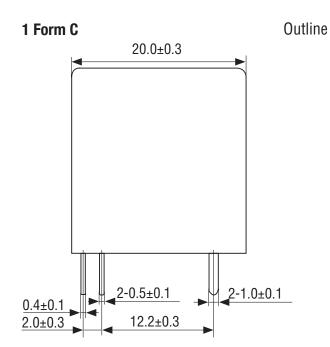


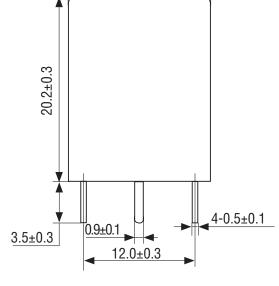
## **DIMENSIONS/DRAWINGS**

Units	mm - unless stated otherwise
Dimensions (Summary)	20.0 × 16.3 × 20.2
Length	20.0
Width	16.3
Height (Excluding pins)	20.2
Weight	12g (approx.)



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



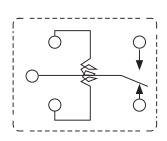


16.3±0.3

Mounting Hole Layout (Bottom View)

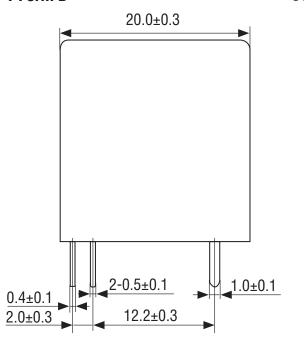
1.75±0.3 5-ø1.3 <sup>+0.1</sup> 0 1.75±0.3 5-ø1.3 <sup>+0.1</sup> 2.0±0.1 12.2±0.1 3.5±0.3

Wiring Diagram (Bottom View)

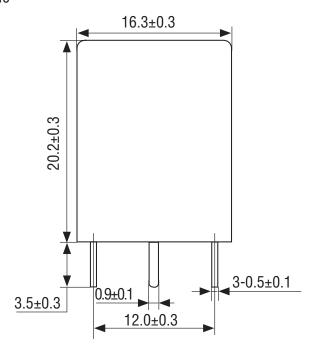




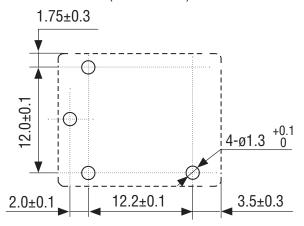
## 1 Form B



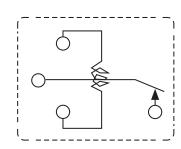
Outline



Mounting Hole Layout (Bottom View)

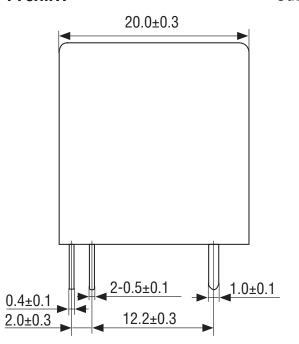


Wiring Diagram (Bottom View)

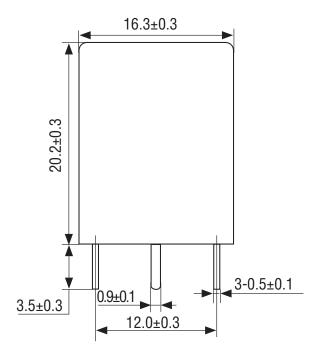




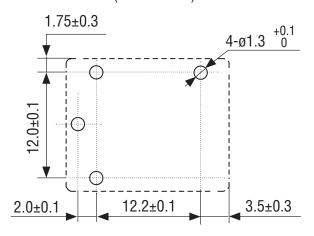
## 1 Form A



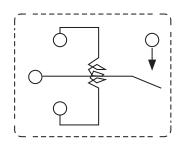
Outline



# Mounting Hole Layout (Bottom View)



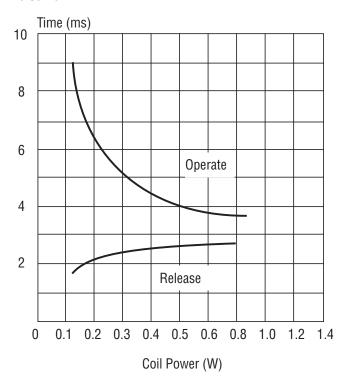
Wiring Diagram (Bottom View)



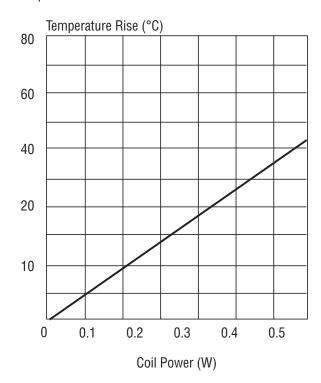


## REFERENCE DATA

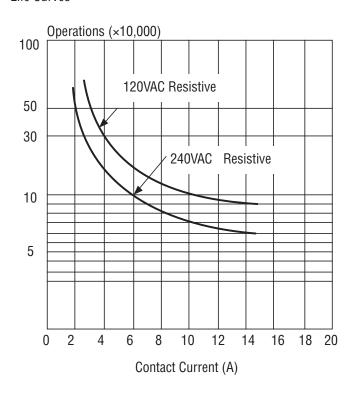
#### Time Curve



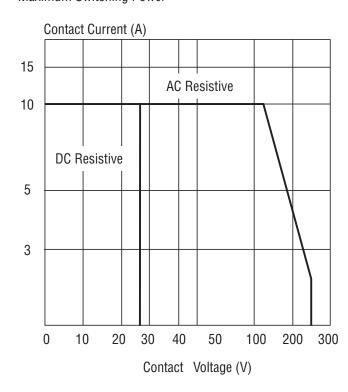
#### Coil Temperature Rise



#### Life Curves



## Maximum Switching Power





## **OPTIONS** (MOQ may apply)

Coil Voltage	3, 5, 6, 9, 12, 24 & 48V
Coil Sensitivity	High Sensitivity (360mW)
Contact Form	1 Form A and 1 Form B
Contact Configuration	SPST-NO, SPST-NC



#### **PART NUMBER TABLE**

Part number	Nominal Coil Voltage	Contact Form	Enclosure	Coil Sensitivity	UNSPSC	EAN	Country of Origin
61-6295	12VDC	1 Form C	Sealed	Standard (450mW)	39122325	5053556018741	China
61-6296	24VDC	1 Form C	Sealed	Standard (450mW)	39122325	5053556018758	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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