

## General Purpose PCB Power Relay, 16A



### DESCRIPTION

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

### DISTINCTIVE FEATURES

- Fully Sealed Construction
- SPST-NO, SPDT Contact Configuration
- Contact Form: 1 Form A, 1 Form C
- 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 C

250V AC

30V DC



## ELECTRICAL SPECIFICATION

Contact Form	1 Form A, 1 Form C (See Part Number Table)	
Contact Rating	1 Form A 1 Form C	Resistive: 16A 250VAC/30VDC TV Rating: TV-8 125VAC Inductive: 8A 250VAC/30VDC (COSΦ=0.4,L/R=7ms)
Contact Resistance	Maximum	100mΩ (6VDC 1A)
Insulation Resistance	Minimum	1000MΩ 500VDC
Load	Maximum Switching Voltage	250VAC/30VDC
	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	4,000VAC, 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
<b>61-6299</b>	12	200	9.0	1.2	720



## GENERAL SPECIFICATION

Series	Power Relays
Mounting Type	PCB mounting
RoHS	Yes



## MATERIALS

Contact Material	Ag Alloy
Outer Case Material	Plastic Sealed Type



## CERTIFICATION AND STANDARDS

File Number	Contact Form	Power Consumption	Coil Voltage	Contact rating	Remarks
CSA 1063015 (LR 106040)	A/C	0.72W/0.54W	3-48VDC	16A 120VAC	Ambient Temperature: 40°C
TUV 50116140-001	A	0.72W/0.54W	3-48VDC	16A 120VAC	Ambient Temperature: 85°C
	C	0.72W/0.54W	3-48VDC	NO/NC: 16A/10A 250VAC	Ambient Temperature: 85°C
UL E164730	A/C	0.72W/0.54W	3-48VDC	16A 120VAC	Ambient Temperature: 40°C
CQC09002035018 (GB/T 21711.1-2008)	A	0.72W/0.54W	3-48VDC	16A 120VAC	Ambient Temperature: 85°C
	C	0.72W/0.54W	3-48VDC	NO/NC: 16A/10A 250VAC	Ambient Temperature: 85°C

Specifications subject to change without notice.

ISO9001, IATF16949, ISO14001 Approved



## ENVIRONMENTAL/OPERATING SPECIFICATION

Life	Electrical Life	100,000 operations
	Mechanical Life	10,000,000 operations
Operate Time	Maximum 15ms	
Release Time	Maximum 8ms	
Operating Temperature	-30~+55°C (720mW)	
	-30~+70°C (540mW)	
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



## TERMINALS

Terminal Type	Solder pins
Terminal Dimensions	See drawing on page 4 and 5



## DIMENSIONS/DRAWINGS

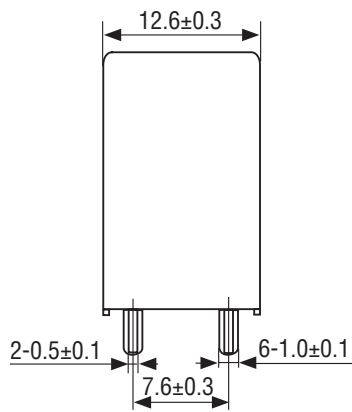
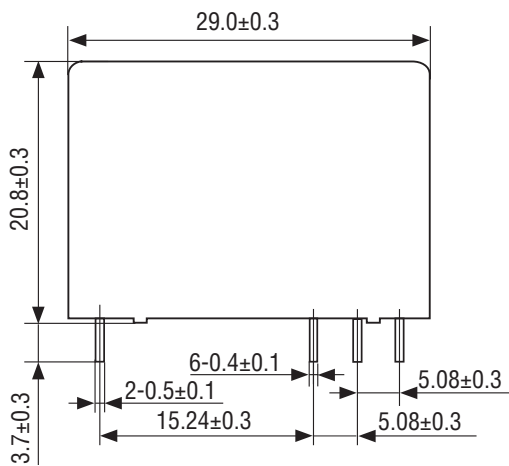
Units	mm - unless stated otherwise
Dimensions (Summary)	29.0 × 12.6 × 20.8
Length	29.0
Width	12.6
Height (Excluding pins)	20.8
Weight	13g (approx.)



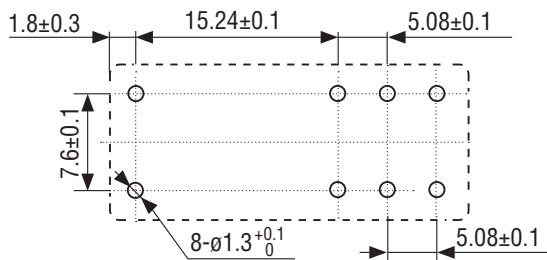
### OUTLINE, WIRING DIAGRAM, MOUNTING HOLE LAYOUT (UNIT: mm)

#### 1 Form C

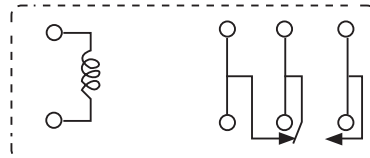
#### Outline



#### Mounting Hole Layout (Bottom View)



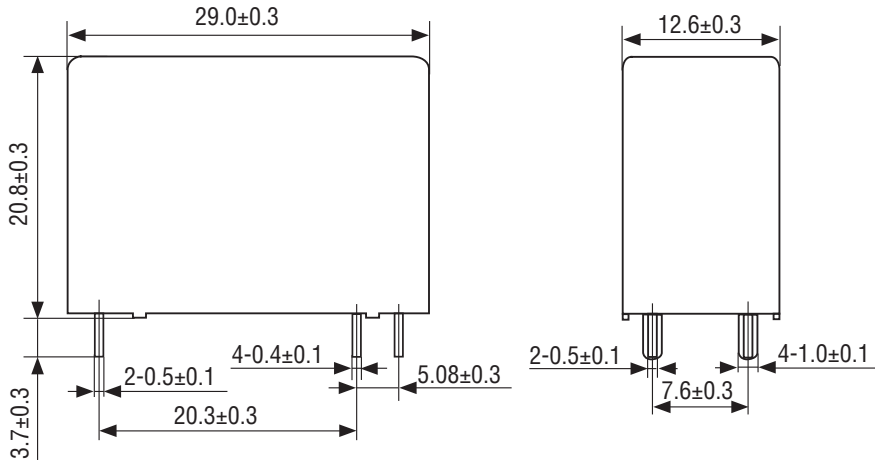
#### Wiring Diagram (Bottom View)



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

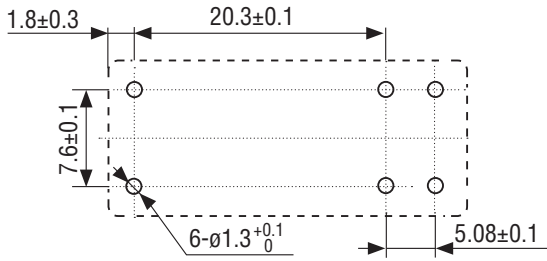
1 Form A

Outline



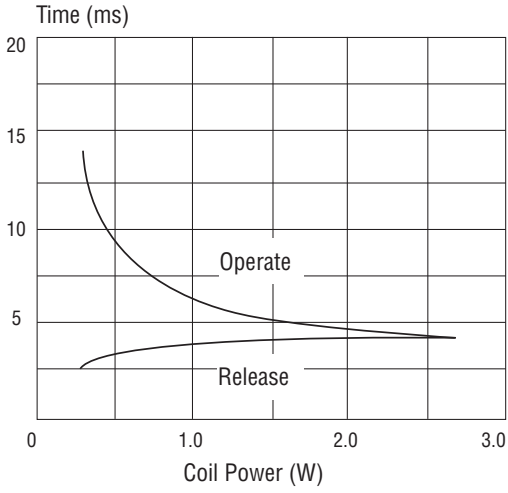
Mounting Hole Layout  
(Bottom View)

Wiring Diagram  
(Bottom View)

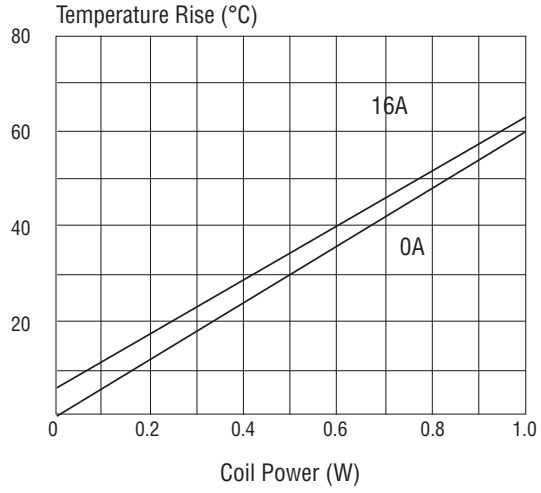


## REFERENCE DATA

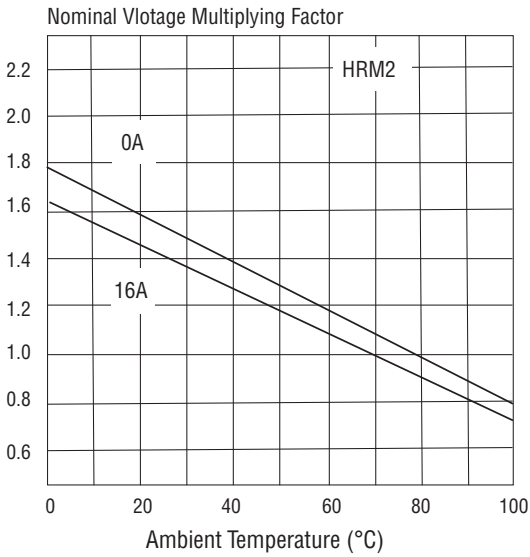
### Time Curve



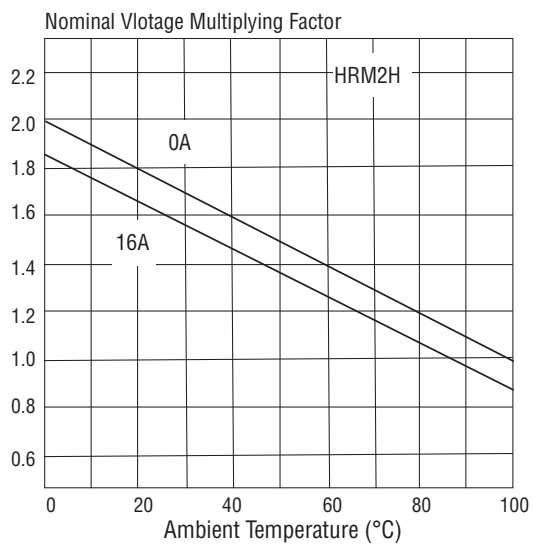
### Coil Temperature Rise



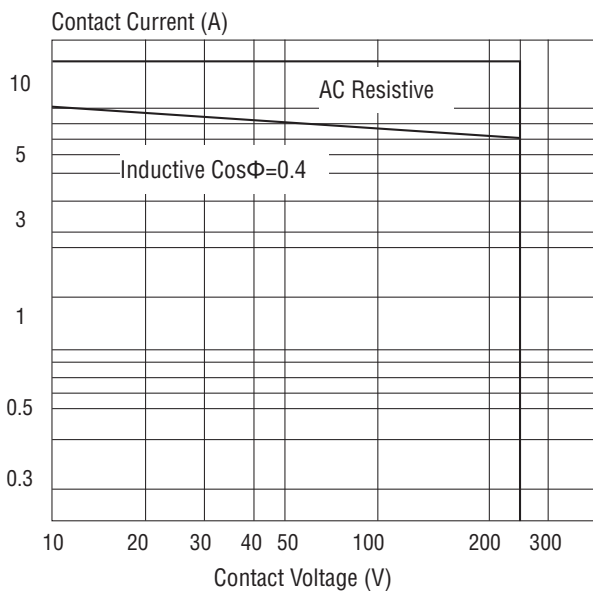
### Operating Range



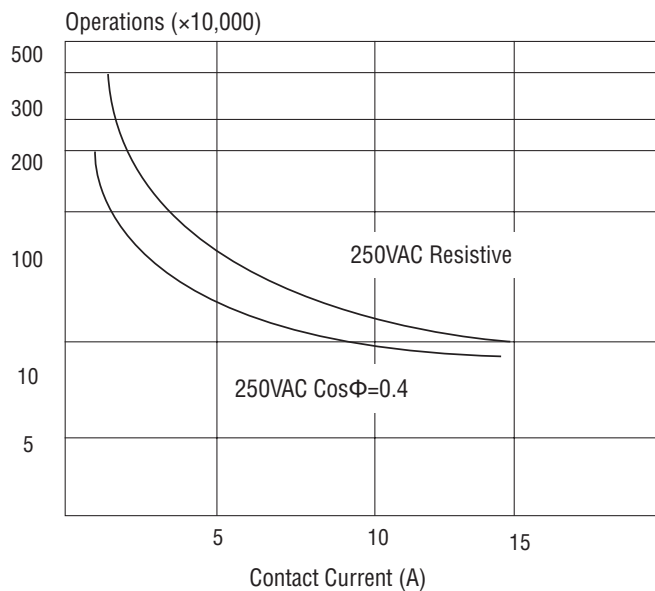
### Operating Range



### Maximum Switching Power



### Life Curves





## OPTIONS (MOQ may apply)

Coil Voltage	5, 6, 9, 12 & 48V with sealed or open type enclosures are available
Contact Form	1 Form A
Contact Configuration	SPST-NO
Coil Sensitivity	High Sensitivity (540mW)



## PART NUMBER TABLE

Part number	Nominal Coil Voltage	Contact Form	Enclosure	Coil Sensitivity	UNSPSC	EAN	Country of Origin
<b>61-6299</b>	12VDC	1 Form C	Sealed	Standard (720mW)	39122325	5053556018789	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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