



## TECHNICAL DATA

Category of protection according to IEC 61810-1		RT II
Flammability class according to UL94		V-0
Insulation material group		IIIa
Pollution degree		2
Insulation between open contacts	Type of disconnection	Full-disconnection
	Overvoltage category	II
	Rated impulse voltage	2.5kV (1.2/50 $\mu$ s)
	Creepage distance	11 mm
	Clearance distance	3 mm
Insulation between coil and contact	Type of insulation	Reinforced
	Overvoltage category	III
	Rated impulse voltage	6kV (1.2/50 $\mu$ s)
	Creepage distance	18.6 mm
	Clearance distance	15 mm

## SAFETY APPROVAL RATINGS

	Load Type	Voltage AC/DC		Current	Surrounding air Temp.	Operations
UL&CUL	Resistive load AC	120/220/250/277/288/305/320/400/600	AC	80A	85°C	100,000 ops
	Resistive/General load AC	120/220/250/277/288/305	AC	120A	65°C	10,000 ops
	Resistive load DC	30	DC	100A	80°C	100,000 ops
	Motor	250	AC	5HP	85°C	100,000 ops
	TV load	120/240	AC	TV-20	85°C	100,000 ops
TüV	Resistive load AC	120/220/250/277/288/305/320/400/600	AC	80A	85°C	30,000 ops
		120/220/250/277/288/305	AC	120A	65°C	10,000 ops
	Resistive load DC	30	DC	100A	85°C	100,000 ops
		60	DC	120A	65°C	3,000 ops

**NOTES:**

1. All values without specified temperature are at 25°C.
2. The above lists the typical loads only. Other loads may be available upon request.

This datasheet is for customers' reference. All the specifications are subject to change without notice.



# RELAYS

\* SINCE 1976 \*

TEL:(516) 328-9292 FAX:(516)326-9125 www.hascorelays.com email:info@hascorelays.com

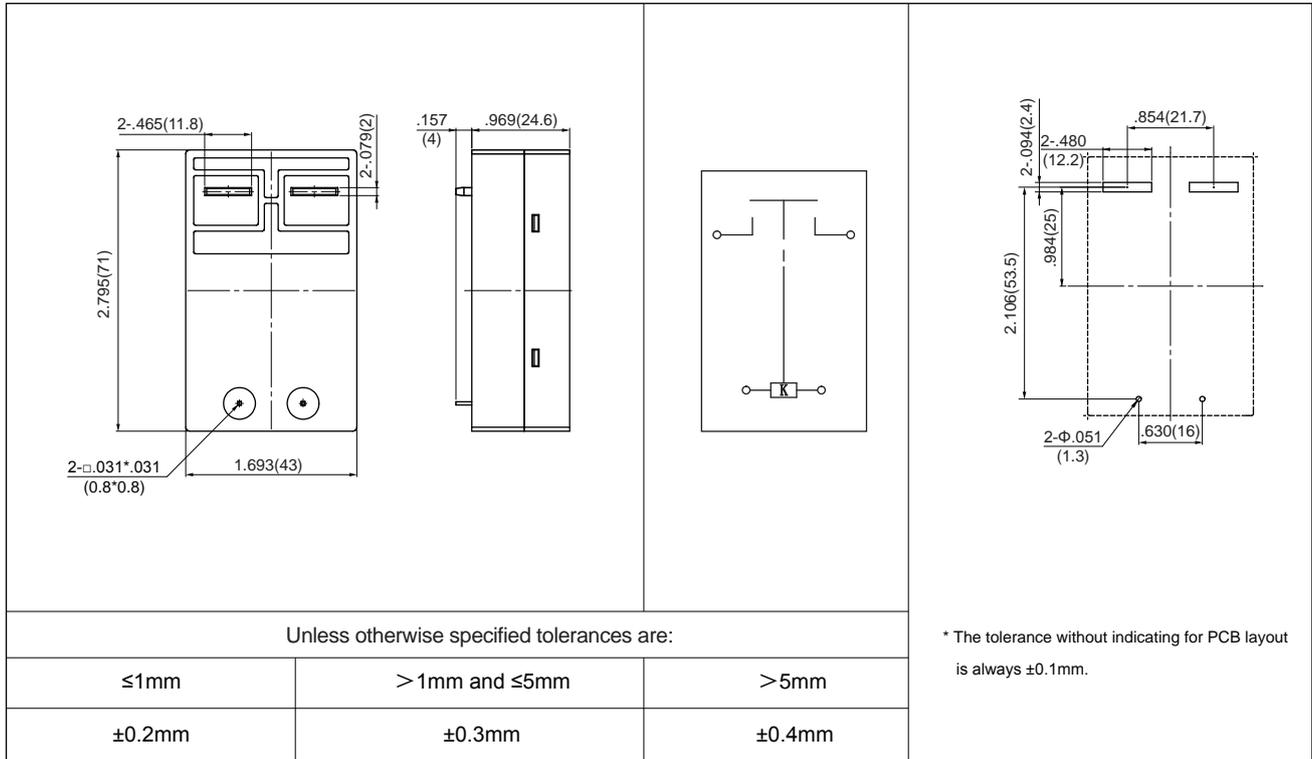
## OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT.

Unit: inch(mm)

Outline Dimensions

Wiring Diagram  
(Bottom view)

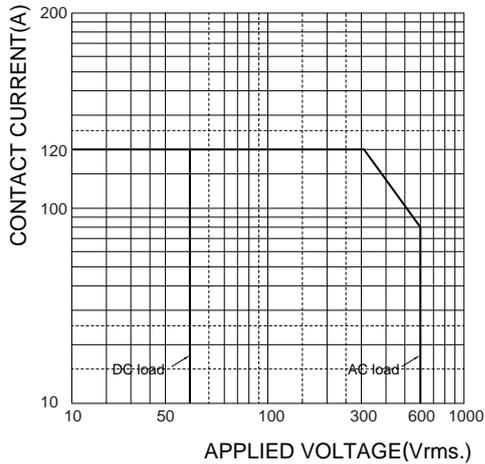
PCB Layout  
(Bottom view)



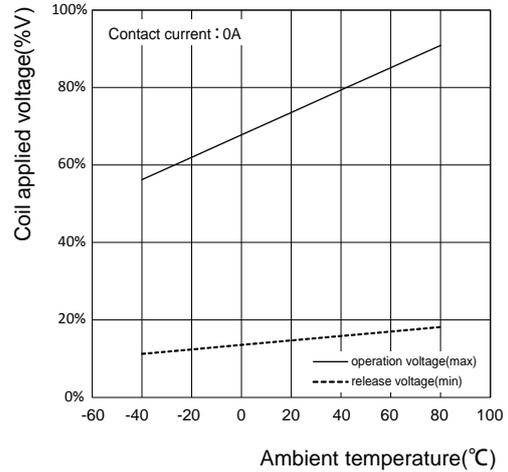
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## CHARACTERISTIC CURVES

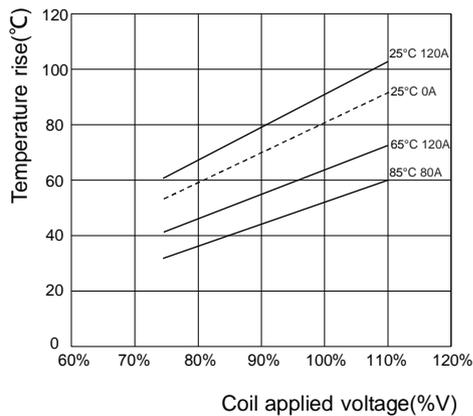
**MAXIMUM SWITCHING CURRENT OF RELAY**



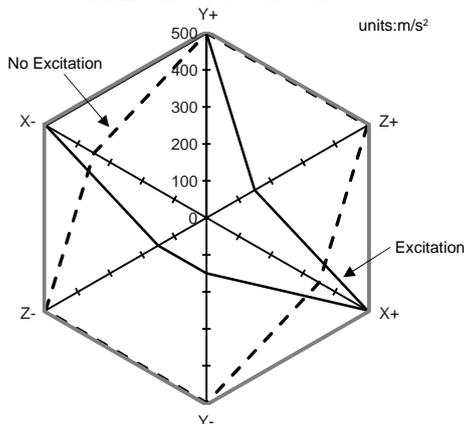
**AMBIENT TEMPERATURE CHARACTERISTICS AND COIL APPLIED**



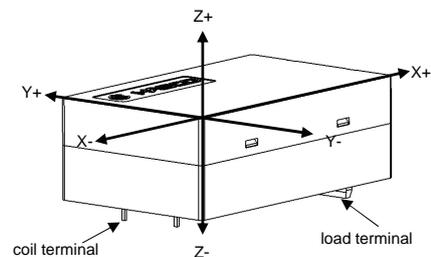
**COIL TEMPERATURE RISE**



**MALFUNCTION SHOCK**



**Shock direction**



Measure the value of contact malfunction happening by applying 3 axes with 6 direction 3 times each.

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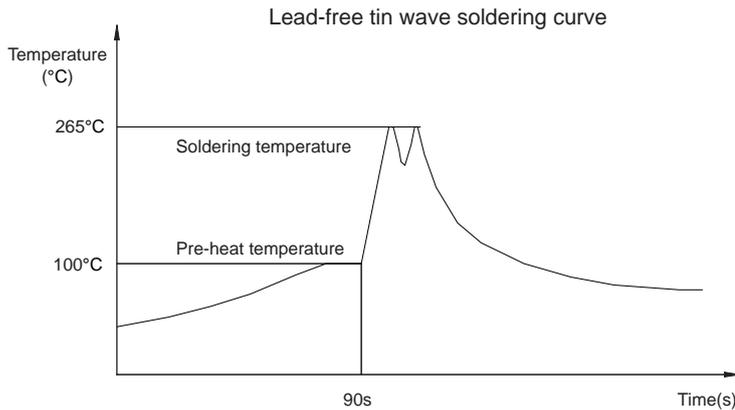
## PACKAGING SPECIFICATION

BLISTER BOX	OUTER CARTON	OUTER CARTON SIZE
8PCS	48PCS	L455mm*W220mm*H185mm

## APPLICATION GUIDELINES

### Automatic Wave Soldering

- \* Wave solder is the optimum method for soldering.
- \* Adjust the level of solder so that it does not overflow onto the top of the PC board.
- \* Unless otherwise specified, solder under the following conditions depending on the type of relay.



Preheat time 20°C-100°C	Rising slope 20°C-120°C	Decreasing slope Peak-150°C	Soldering temperature 255°C-265°C
90±5 seconds	< 3°C/s	< 4°C/s	3-5s

### Hand Soldering

- \* Keep the tip of the soldering iron clean.

Solder Iron	30W or 60W
Iron Tip Temperature	Approx. 350°C 662°F
Solder Time	Within approx. 3 seconds

- \* Immediate air cooling is recommended to prevent deterioration of the relay and surrounding parts due to soldering heat.
- \* Although the sealed type relay can be cleaned, avoid immersing the relay into cold liquid (such as washing solvent) immediately after soldering. Doing so may deteriorate the sealing performance.

Discard the dropped product

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