



IOEC

In&Out Electronic Corp.

AL

► FEATURES

- Small size / Light weight.
- Heavy contact load (30A ~ 80A).
- Available for PC board mounting & direct insert mounting.
- Plastic Bracket & Mantel Bracket Available.
- 1 Form A & 1 Form C contact arrangement.
- Suitable for automobile and lamp accessories application



28.0*28.0*25.0 (41.0)

► APPLICATION

Light Control / Headlight Control / Window Defogger / Air Conditioning System / Fuel Pump Control / Cooling Fan Control / Battery Disconnection Devices

► CONTACT DATA

Contact Arrangement	1A、1B、1C、1U			
Contact Material	Ag alloy			
Contact Rating (resistive)	1A、1B、1U		1C	
	40A,60A,80A/14VDC 1U:2×20A/14VDC	NO:40A/14VDC NC:30A/14VDC	NO:60A/14VDC NC:40A/14VDC	NO:80A/14VDC NC:60A/14VDC
Max. Switching Power	560W,840W,1120W			
Max. Switching Voltage	30VDC Max. Switching Current:80A			
Contact Resistance or Voltage drop	≤100mΩ / 20mV, Max.250mV			
Operation life	Electrical	10 ⁵		
	Mechanical	10 ⁷		

► COIL PARAMETER

Coil voltage (VDC)	Operating Voltage Range VDC	Coil resistance (Ω±10%)	Pickup voltage(max) (VDC) (n% of rated voltage)	release voltage(min) (VDC) (10% of rated voltage)	Coil power consumption (W)	Operate Time (ms)	Release Time (ms)
Rated	MAX				1.6	≤10	≤5
12	18.0	90	8.4	1.2			
24	36.0	360	16.8	2.4			

- CAUTION:** 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2. Pickup and release voltage are for test purposes only and are not to be used as design criteria.

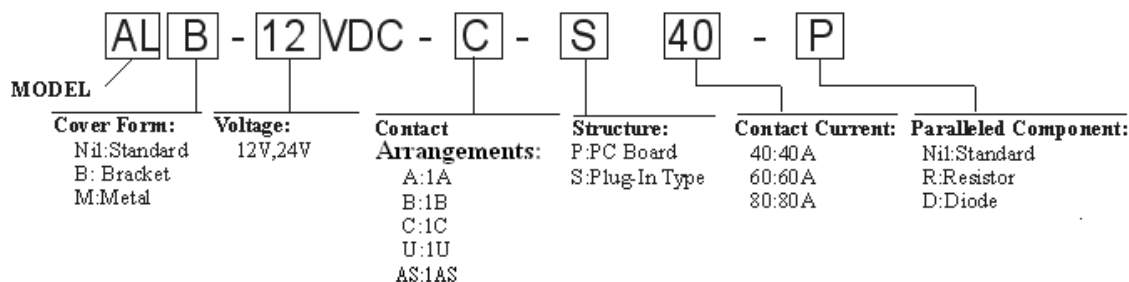
► OPERATION CONDITION

Insulation Resistance	100MΩ min (at 500VDC)
Dielectric Strength Between contacts Between contact and coil	50Hz 500V 50Hz 500V
Shock resistance	Operating extremes 10G Damage limits 100G
Vibration resistance	10~55Hz double amplitude 1.5mm
Terminals strength	8N 4N (PC type)

▶ OPERATION CONDITION

Solder ability	250°C ±2°C 3 ±0.5s
Ambient Temperature	-40~125°C operating
Relative Humidity	85% (at 40°C)
Weight	32.5g

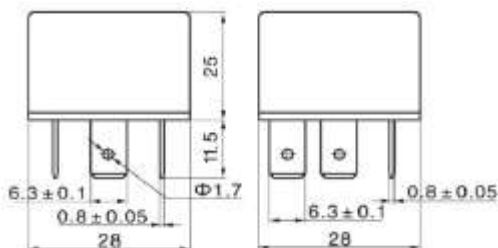
▶ ORDERING INFORMATION



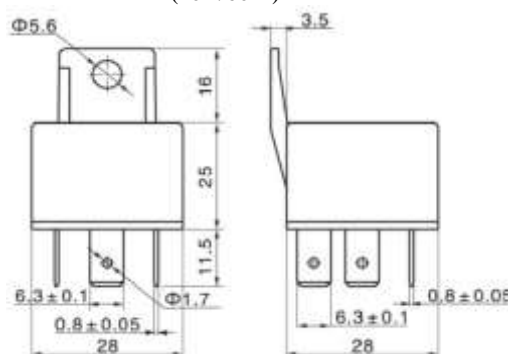
▶ DIMENSIONS (UNIT: mm)

Dimensions

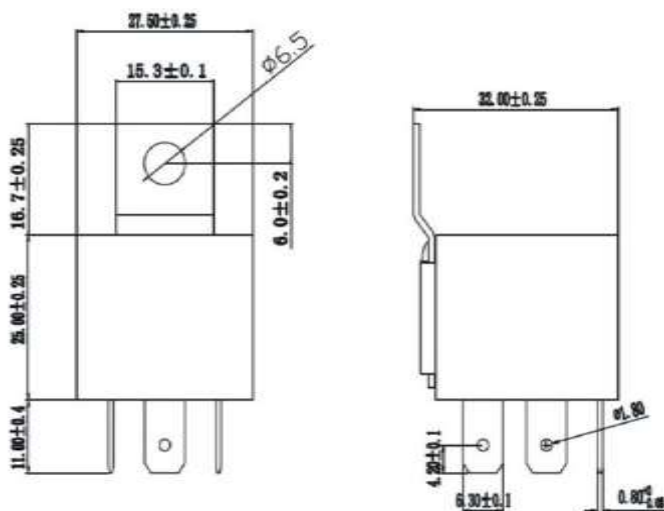
(40A/60A) AL



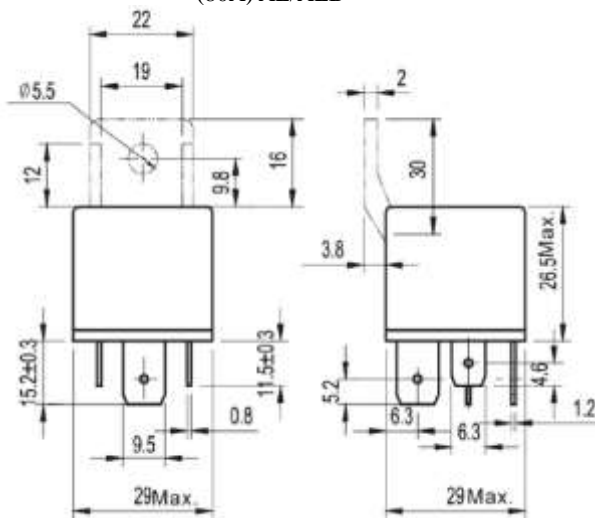
(40A/60A) ALB



(40A/60A) ALM

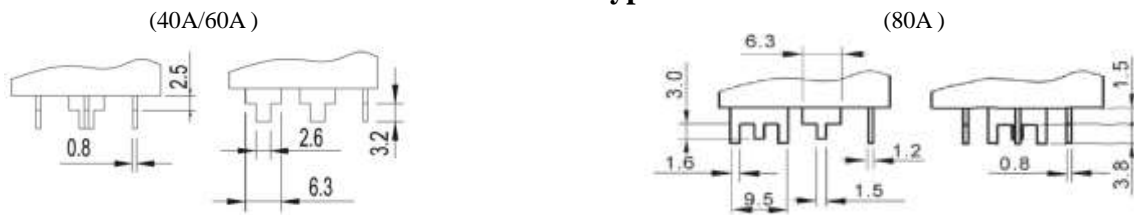


(80A) AL/ALB



► DIMENSIONS (UNIT: mm)

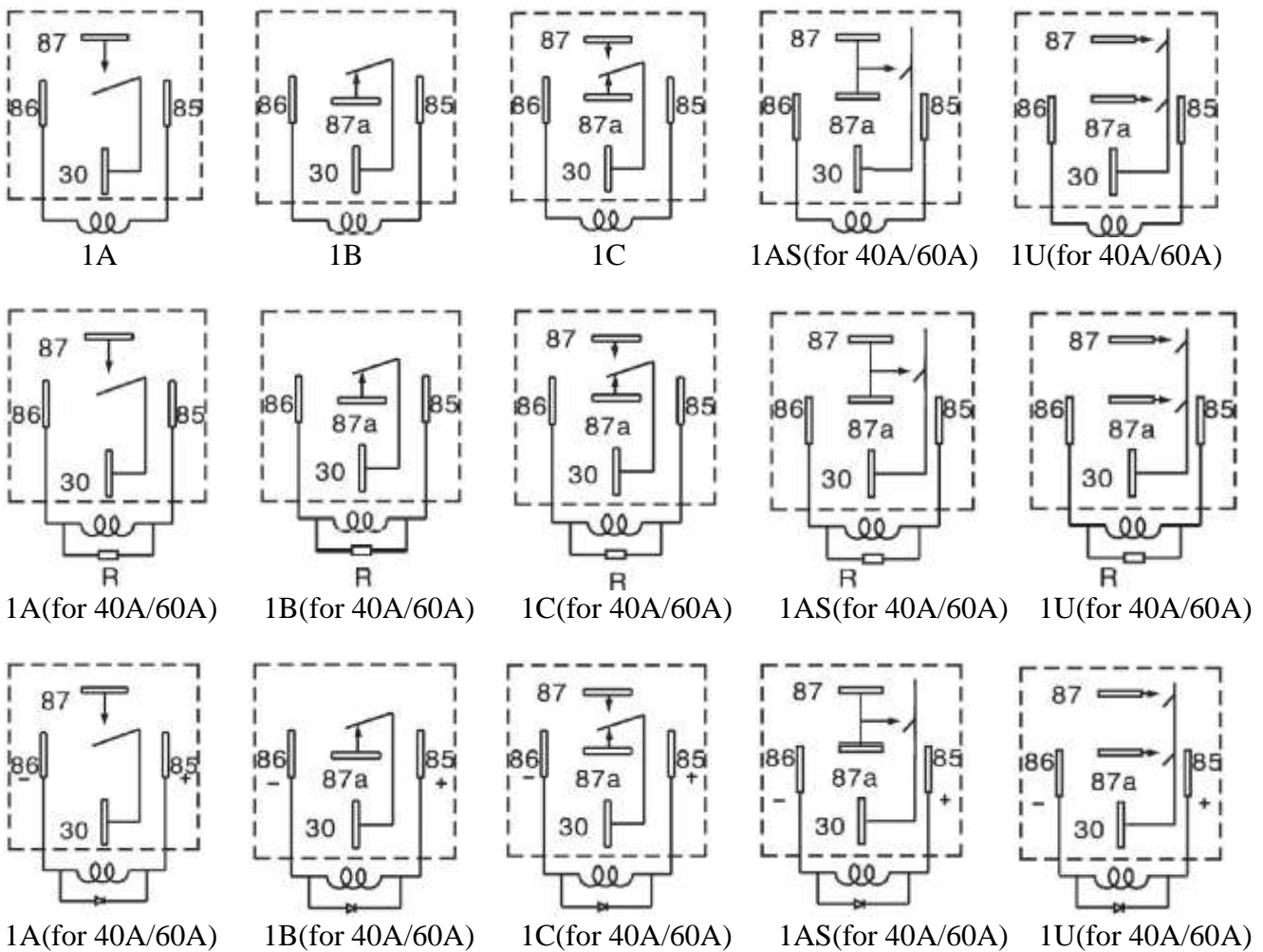
PCB Type



Mounting (Bottom views)



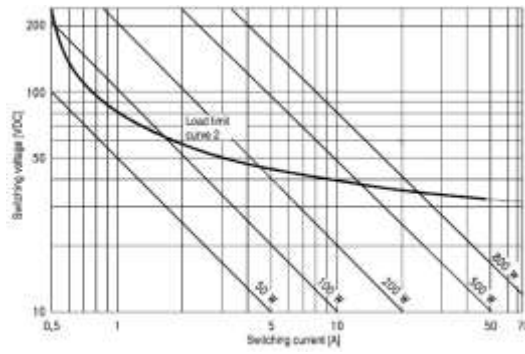
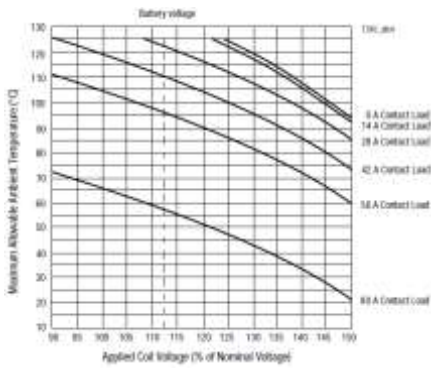
Wiring diagram(Bottom views)



NOTES 1).Dimensions are in millimeter.

2).Inch equivalents are given for general information only.

► REFERENCE DATA



Load limit curve 2 $\hat{=}$ safe shutdown, no stationary arc (make contact)