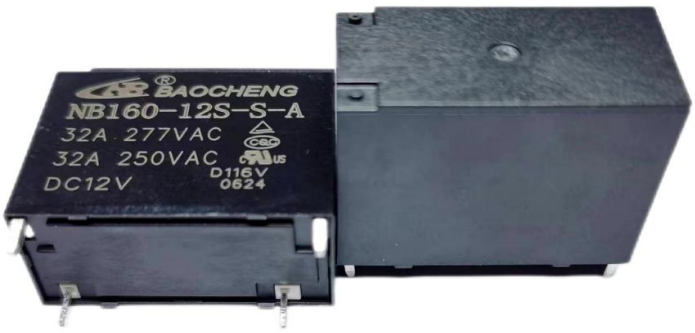


30.6x16.2x24.8mm

NB160

R 50615304
CQC24002419575
E 361440

Product Features

- Contacts switching capability: 32A
- Used in new energy , EV charger, home appliance...etc.
- Pin type: PCB
- Coil insulation grade Class F

Contact Rating

Contact Form	1A
Contact Resistance	≦20mΩ (1A 24VDC)
Contact Material	$AgSnO_2$
Contact Load	Resistive load: 32A 277VAC； 32A 250VAC
Switching Power Max.	8864VA
Switching Voltage Max.	277VAC
Switching Current Max.	Resistive load：32A
Life expectancy	Electrical: 32A: $5x10^4$
	Machanical: $1*10^7$

Life test condition: normal temperature, pure resistant load, 1: 1S on 9S off

Coil Rating

Coil Voltage(VDC)	Coil ResistanceΩ ±10%	Pick up (VDC) Max	Drop out (VDC) Min.	Sustaining voltage(VDC)	Power （w）	Coil Voltage Max(VDC)
5	20.8	3.75	0.5	3.0	1.2	6
9	67.5	6.75	0.9	5.4		10.8
12	120	9	1.2	7.2		14.4
24	480	18	2.4	14.4		28.8
48	1920	36	4.8	28.8		57.6

Technical Rating

Insulation Resistance		1000MΩ(500VDC)	IEC 60255-5
Dielectric Strength	Between Contacts	4500VAC / min	IEC 60255-5
	Between Coil&Contact	3000VAC / min	IEC 60255-5
Operate Time		≤20ms	
Release Time		≤10ms	
Shock Resistance		Functional 196m/s^2 ; Destructive 980m/s^2	IEC 68-2-27 test Ea
Vibration Resistance		10Hz～55Hz double amplitude 1.5mm	IEC 68-2-6 test Fc
Ambient Temperature		- 40℃～85℃	
Construction		Flux proofed	
Weight		Approx.25.0g	

Designation

NB160 - 12S - S - A - X

1 2 3 4 5

1、 **NB160**： Model No.

2、 **12S**： Coil Rated Voltage:5V, 9V,12V, 24V,48V(DC)

3、 **S**： Contact Material: **S:**$AgSnO_2$

4、**A**： Contact Form: A:Normally Open

5、**X**： Customer special code D116V: Load pin size: 1.5mm, contact gap:1.5mm.

Note: (1) Dust-proof type is recommended to clean environment; Sealed type is recommended to polluted environment (containing H_2S、SO_2、NO_2、dust contaminants). Please test & confirm during actual use.

(2) If need to entire wash after installed in the PCB, please notice us before order, so as to provide proper model;

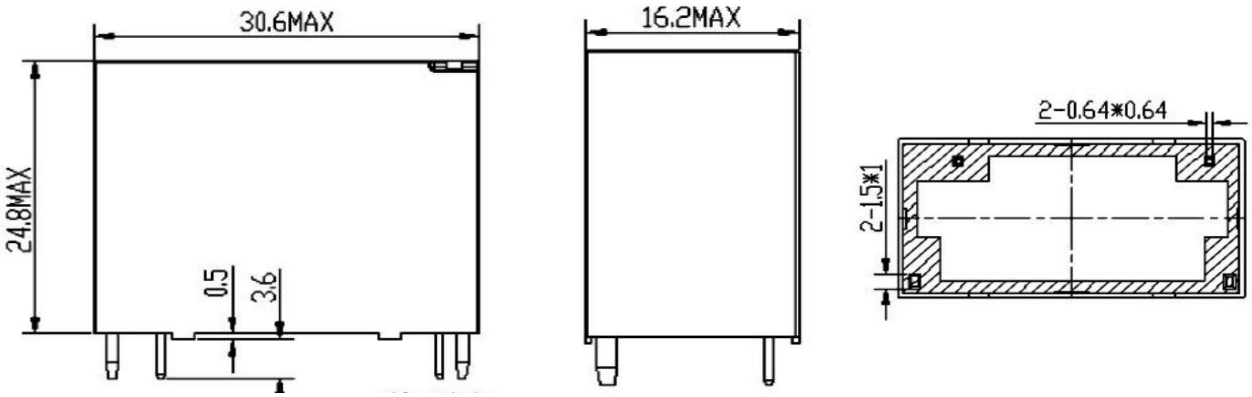
(3) Avoid being used under strong magnetic or shock extremes, or technical data will change.

Safety Certification

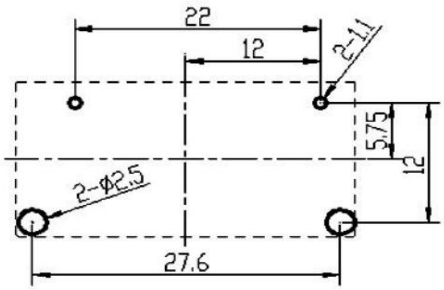
Approval	CQC	TUV	UL
Load	32A 277VAC /250VAC	32A 277VAC /250VAC	32A 277VAC /250VAC

Dimensions

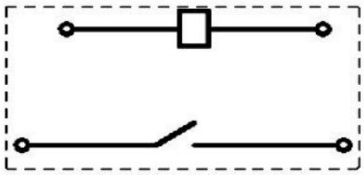
Outline Dimension



Bottom View Layout



Wiring Diagram



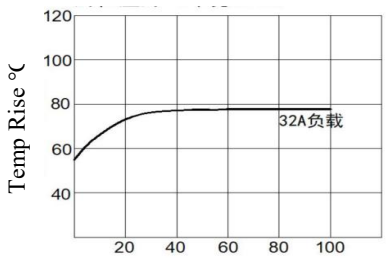
Note: (1) Tolerance is not marked on part of outline dimensions. Dimensions≤1mm,Tolerance±0.2mm; Dimensions(1～5)mm,Tolerance±0.3mm; Dimensions＞5mm,Tolerance±0.4mm;

(2) Tolerance in bottom view layout is ±0.1mm.

Engineering Data

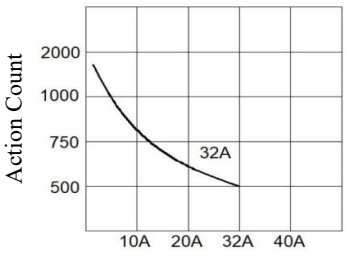
Pin Temperature Rise

(Ambient Temperature 55℃)



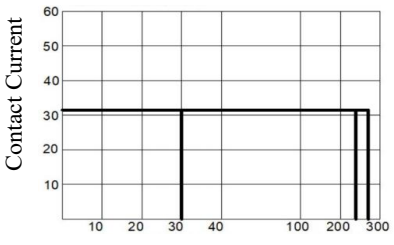
Time(minute)

Life Curve



Contact Current (A)

Contact Switching Ability



DC Load Voltage AC Load Voltage

Load Voltage (V)