



32*27.2*28.5
mm

NB901



Product Features

- ◆ Contacts switching capability: 40A
- ◆ 2500VAC&4000VAC is available for dielectric strength between contact and coil
- ◆ Coil insulation grade Class F
- ◆ Contacts forms NO,NC&SPDT
- ◆ Dust-proof&Sealed type
- ◆ Complies with RoHS-Directive

Contact Rating

Contact Form	1A、1B、1C		
Contact Material	AgCdO AgSnO ₂		
Contact Load Capacity	1A	1B	1C
	NO: 40A/240VAC,30VDC 40A 277VAC,1.5HP 240VAC TV-15	40A/240VAC,30VDC 40A 277VAC,1.5HP 240VAC TV-15	40A 240VAC,30VDC 40A 277VAC,1.5HP 240VAC TV-15
	NC:		40A 240VAC,30VDC
Switching Power Max.	1200W 9600VA		
Switching Voltage Max.	30VDC/277VAC		
Switching Current Max.	1A: 40A ; 1B: 30A ; 1C: 40A		
Contact Resistance Max.	50mΩ (1A , 24VDC)		
Life expectancy	Electrical	10 ⁵	
	Machanical	10 ⁷	

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

Coil Rating

900mw						2VA					
No.	Coil Voltage		Coil Resistance Ω ±10%	Pick up (VDC) Max. (75% of Rated Voltage)	Drop out (VDC) Min.(10% of Rated Voltage)	No.	Coil Voltage		Coil Resistance Ω ±10%	Pick up (VDC) Max. (75% of Rated Voltage)	Drop out (VDC) Min.(10% of Rated Voltage)
	Rated	Max.					Rated	Max.			
005	5	6.5	28	3.75	0.5	024	24	28.80	120	19.20	2.4
006	6	7.8	40	4.50	0.6	120	120	144	3040	96.00	12
009	9	11.7	90	6.75	0.9	220	220	264	13490	176.00	22
012	12	15.6	160	9.00	1.2	240	240	288	13490	192.00	24
015	15	19.5	250	10.25	1.5	277	277	332	15000	220.00	27.7
018	18	23.4	360	13.50	1.8						
024	24	31.2	640	18.00	2.4						
048	48	62.4	2560	36.00	4.8						
110	110	143	13445	82.50	11						

Technical Rating

Insulation Resistance		Min.1000MΩ(500VDC)	IEC 60255-5
Dielectric STR	Between Contacts	1500VAC	IEC 60255-5
	Between Coil&Contact	2500VAC Min; (4000VAC Min without Pin #6,when required)	IEC 60255-5
Operate Time		≤15ms	
Release Time		≤10ms	
Shock Resistance		Operation extremes 10G Damage limits 100G	IEC 68-2-27 test Ea
Vibration Resistance		10Hz~55Hz double amplitude 1.5mm	IEC 68-2-6 test Fc
Ambient Temperature		- 40℃~85℃; - 40℃~105℃	
Relative Humidity		85% RH , 40℃	IEC 68-2-3 test Ca
Weight		Approx.29.0g	
Package		Sealed;Dust-proof type	

Designation
NB901 E - 12S - S - A W 4KV T-105°C X
1 2 3 4 5 6 7 8 9 10

- 1、 **NB90**: Model No.(Max. contact load capacity 40A)
- 2、 **E**: NO max 30 amper none: NO max 40 ampere
- 3、 **12**: Coil Rated Voltage:5V,6V,9V,12V,15V,18V,24V,48V,110V(DC) AC type: AC24 AC120 AC220V AC240 AC277V
- 4、 **S**: Package: S:Sealed D:Dust proof
- 5、 **S**: Contact Material: **S**:AgSnO₂ **C**:AgCdO
- 6、 **A**: Contact Form: A:Normally Open B:Normally Close C:SPDT(NO&NC)
- 7、 **W**: white **None**: black
- 8、 **4KV**: Between contact and coil pressure-proof 4KV **None**: 2500V
- 9、 **T-105°C**: ambient temperature 105°C. **None**: normal temperature resistant
- 10、 **X**: Customer code

Note:(1) Applying under clean environment(excluding H₂S、 SO₂、 NO₂、 dust contaminants), dust-proof type is recommended;

Applying under polluted environment(containing H₂S、 SO₂、 NO₂、 dust contaminants), sealed type is recommended, and please confirm during practical applying;

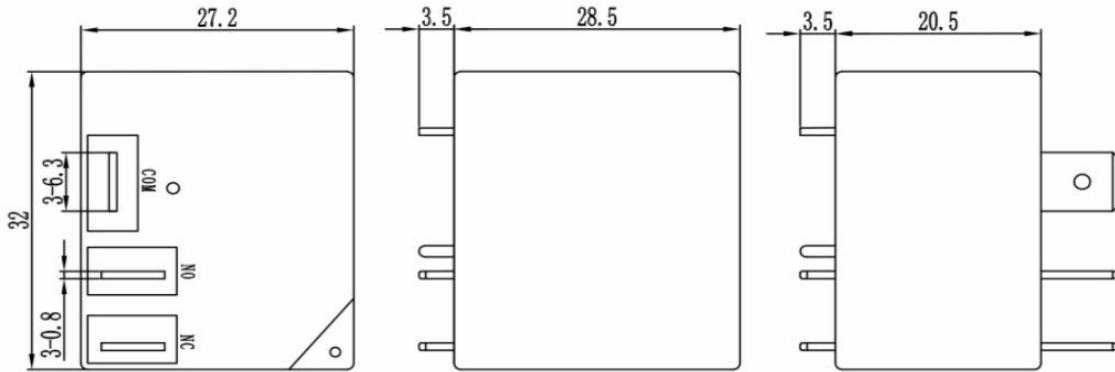
- (2) When installed on PCB, and entire washing is needed, please notice us before order, so as to provide proper items;
- (3) If dielectric strength between coil&contacts have to be over 2500VAC, please notice us before order, so as to provide proper items;
- (4) Avoid applying under strong magnetic or shock extremes, or technical rating will change.

Safety Certification

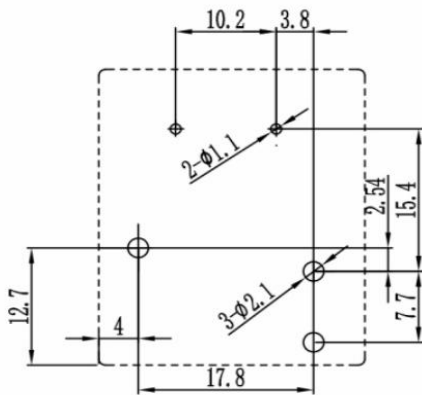
Approval	CQC	TUV	UL
Load	NO:40A 240VAC 30VDC NC:30A 240VAC 30VDC	40A 240VAC 30VDC	NO:40A 277VAC 1.5HP 125VAC 240 VAC TV-15 NC:30A 277VAC 1/2HP 240VAC

Dimensions

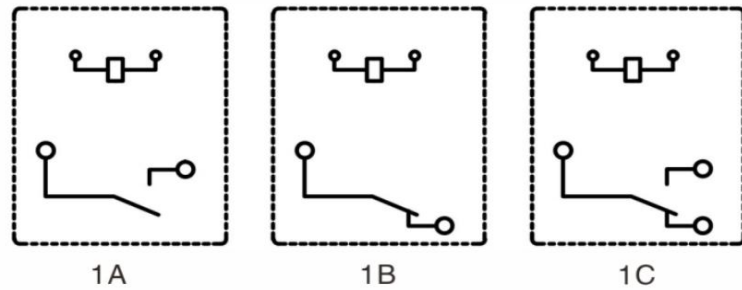
Outline Dimension



Bottom View Layout



Wiring Diagram



Note (1) Tolerance is not marked on part of outline dimensions. Dimensions $\leq 1\text{mm}$, Tolerance $\pm 0.2\text{mm}$;
 Dimensions (1~5)mm, Tolerance $\pm 0.3\text{mm}$; Dimensions $> 5\text{mm}$, Tolerance $\pm 0.4\text{mm}$;
 (2) Tolerance in bottom view layout is $\pm 0.1\text{mm}$.

Engineering Data

