

SONGLE RELAY



RELAY ISO9002

SMB



1. MAIN FEATURES

- 5A switching capabilities
- 2 to 4 pole configurations
- 1.5KV dielectric coil to contacts
- various terminals ,test button available · Au-clad contact available

2. APPLICATIONS

- Communications, domestic appliances
- Security equipment
- Office automation machines, etc.

3. ORDERING INFORMATION

SMB	XX VDC/VAC	S	L	2C
Model of relay	Nominal coil voltage	Structure	Coil sensitivity	Contact form
SMB	06、12、24、48、1110VDC 06、12、24、110、220VAC	S:Sealed type	L: DC0.9W L:AC1.20VA	2C:2 form C
		F:Flux free type	D: SPECIAL	3C:3 form C 4C:4 form C

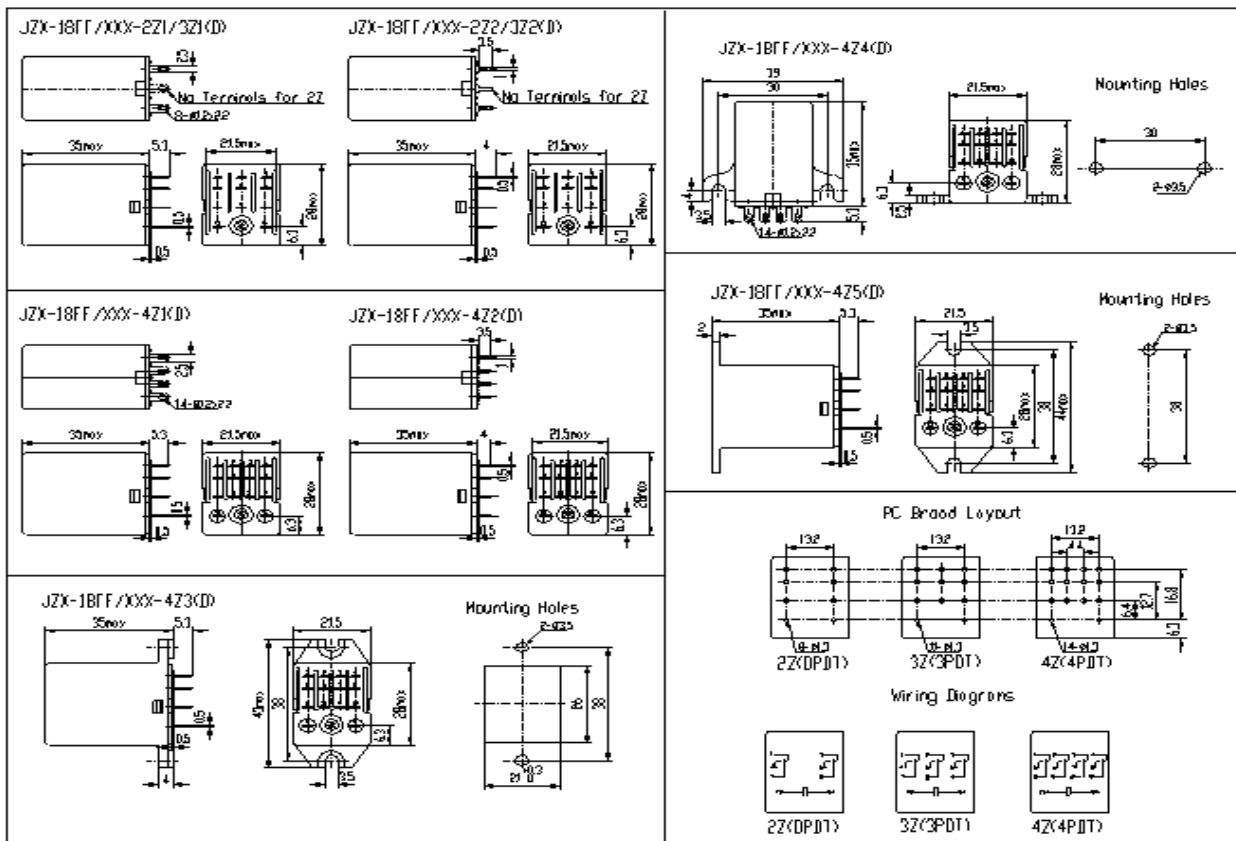
4. RATING

5A/250VAC 28VDCVDC

5. DIMENSION (unit:mm)

DRILLING (unit:mm)

WIRING DIAGRAM



6. COIL DATA CHART (AT20°C)

Nominal voltage	Pick-Up voltage	Drop-out voltage	Nominal current	Coil resistance	Power consumption	Max. allowable voltage
AC Type (at 20°C)						
VAC	VAC(Max.)	VAC(Min.)	mA(+15%,-20%)	Ω (±10%)		(VAC)
6	4.8	1.8	183	11.5	Approx.1.0-1.2VA	110% of nominal voltage
12	9.6	3.6	91	46		
24	19.2	7.2	46	184		
48	40	15	22	735		
120	96	36	9.6	4550±15%	Approx.0.9-1.1VA	
220/240	176	66	5.0	14400±15%		
DC Type (at 20°C)						
VDC	VDC(Max.)	VDC(Min.)	mA(±10%)	Ω (±10%)		(VDC)
6	4.8	0.6	150	40	Approx.0.9W	110% of nominal voltage
12	9.6	1.2	75	160		
24	19.2	2.4	36.9	650		
48	38.4	4.8	18.5	2600±15%		
110	88	11	10	11000±15%		

7. CONTACT RATING

Item	Arrangement	SMB		SMB	
		2C and 3C		4C	
Rated load		Resistive load (cosΦ=1)	Inductive load (cosΦ=0.4)	Resistive load (cosΦ=1)	Inductive load (cosΦ=0.4)
				5A 250VAC 5A 28VDC	3A 250VAC 3A 28VDC
Carrying current		5A		4A	
Max. switching voltage		250VAC, 125VDC		250VAC, 125VDC	
Min. permissible load		5VDC 100mA			
Contact material		Ag Cdo			

8. PERFORMANCE (at initial value)

Contact Resistance	Max. 100mΩ
Operation time (at nominal voltage)	Max. 20msec
Release time (at nominal voltage)	Max. 20msec
Operating frequency	20ops/minute
Insulation resistance	Min. 100MΩ (at 500VDC)
Vibration resistance	Functional : 6G 10 to 55 Hz, at double amplitude of 1mm Destructive : 12G 10 to 55 Hz, at double amplitude of 2mm
Shock resistance	Functional : Min, 20G Destructive : Min, 100G
Dielectric strength	1500VAC. for 1minute between coil and contact. 750VAC. for 1minute between contact sets. 750VAC. for 1minute between open contacts.
Ambient temperature	-40 to +70°C
Humidity	40 to 85% RH
Life expectancy	Mechanical : 1×10 ⁷ operations Electrical : 2×10 ⁵ operations (at rated load)
Weight	abt 35grs.

9. USEFUL CURVES