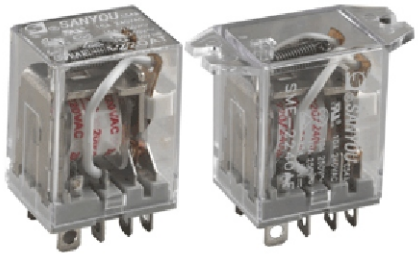
SANYOU RELAYS
Relays for advanced technology

GENERAL-PURPOSE RELAY

SME-RELAY



UL,C-UL File No:E179745
TUV File No:40009320
CQC File No:CQC03001007669

- 1Pole and 2Poles types are prepared with switching current of 15A (1 pole),10A(2 poles).
- PC Board Plug-in&Flange Case mounting type are available.
- Low coil power consumption with high response time.
- High reliability and long life with better vibration and shock resistiveness.

SPECIFICATIONS

Contact

Arrangement		1a ,1c	2a,2c
Contact material		Silver alloy	
Contact resistance (1A 6VDC)		50mΩ Max.	
UL/C-UL rating Resistive load (cos ϕ =1) Inductance load (cos ϕ =0.75~0.8)		15A 240VAC 15A 24VDC 7A 250VAC	10A 240VAC 10A 24VDC 5A 240VAC
VDE rating		15A 250VAC 15A 30VDC	10A 250VAC 10A 30VDC
CQC rating		120A 250VAC	10A/80A 250VAC
Max.switching voltage		30VDC	250VAC
Max.switching current		15A	10A
Max.switching power		3,600VA 360W	2,400VA 240W
Expected Life (min.ope)	Mechanical (at 120 cpm)	$1X10^7$	
	Electrical (at 20 cpm)	$1X10^5$	

Coil

Nominal operating power	0.9W 1.0~1.3W

Characteristics

Operate time		25 msec.Max.
Release time		25 msec.Max.
Operating humidity		45~85%RH
Initial breakdown voltage	Between contact and coil	1,500VAC (50/60Hz) for 1 min.
	Between open contacts	1,000VAC (50/60Hz) for 1 min.
Insulation resistance		100MΩ Min.(500VDC)
Ambient temperature		-25℃~+55℃
Insulation withstand Voltage		5,000V 1.2×50 μs (between coil and contacts)
Shock resistance	Functional	10G Min.
	Destructive	100G Min.
Vibration resistance	Functional	10 TO 55 Hz at double Amplitude of 1.5mm
	Destructive	10 TO 55 Hz at double Amplitude of 1.5mm
Unit weight		Approx. 40g

TYPICAL APPLICATIONS

1.Vending machines 2.Cooking appliances 3.Office machines
4.Domestic apliaces 5.Control equipment, etc.

ORDERING INFORMATION

SME — 1 | 12 | A | M | T

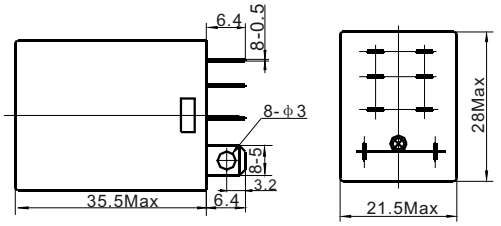
Type	Number of poles	Coil voltage	Coil voltage	Contact form	Terminal
SME	1:1 pole 2:2 pole	DC:06,12,24,48,110 AC:06,12,24,48,110,220	A:AC D:DC	M:Form A Nil: Form C	P: Pc Board T: plug-in F: Flange case&Plug-in

COIL(at 20°C)

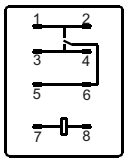
SME

Type	Voltage code	Nominal voltage (VDC)	Nominal current (mA)		Coil resistance (Ω ±10%)	Drop-out voltage (VDC)	Pick-up voltage (VDC)	Nominal operating power (W)	Max allowable voltage (VDC)
			50HZ	60HZ					
AC	06	6	220.0	170.0	11.5	30%Min.	80%Max.	Abt. 1.0 to1.3VA	110% of nominal voltage
	12	12	110.0	8.0	46				
	24	24	60.0	45.0	165				
	48	48	30.0	23.0	735				
	110	120	13.5	11.5	4,430				
	220	220/240	6.0	5.0	14,400				
DC	06	6	150.0		40	10%Min.	75%Max.	Abt.0.9	110% of nominal voltage
	12	12	75.0		160				
	24	24	36.9		650				
	48	48	18.5		2,600				
	110	110	10.0		11,000				

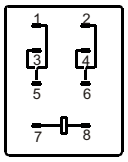
OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT(unit:mm)



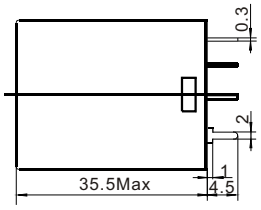
SME-1Pole plug in

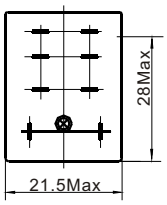


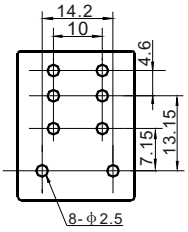
SME-2Pole plug in



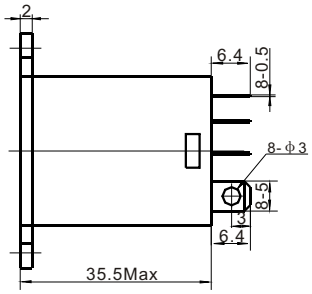
SME-1Pole PCB
SME-2Pole PCB

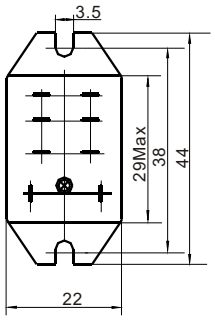






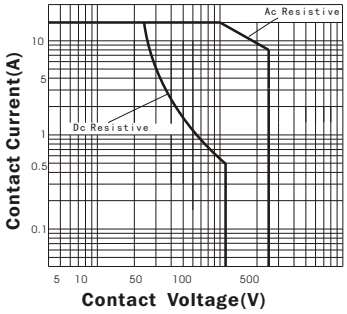
SME-1Pole Flange case
SME-2Pole Flange case





CHARACTERISTICS CURVE

MAXIMUM SWITCHING POWER(1C)



MAXIMUM SWITCHING POWER(2C)