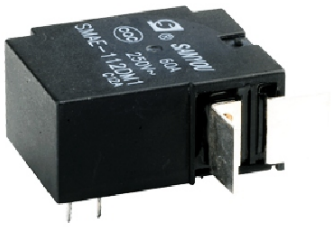
SANYOU RELAYS
Relays for advanced technology

MAGNETIC LATCHING RELAY

SMAE-RELAY



CQC File NO:CQC3001007668

- Hight contact Load.
- The relays are designed and manufactred in accordance with the Standards of DIN IEC 255.part 1-00/VDE 0435 , part 201 ,which are also in accordance with the Low Voltage directive(LVD).
- The polarized latching ralays are signed by a high resistance to shock and vibrations and a low bounce inclination.They are always in a defined switching-position and therefore there is no loss of information in case of power failure.

SPECIFICATIONS

Contact

Arrangement		1a
Contact material		Silver alloy
Contact resistance (1A 6VDC)		2mΩ Max.
Rating Resistance load		60A 250VAC
Max.switching voltage		250VAC
Max.switching current		60A
Max.switching power		15,000VA
Expected life(min.ope)	Mechanical (at 180 cpm)	$1X10^5$
	Electrical (at 20 cpm)	$5X10^3$

Coil

Nominal operating power	Single coil: 1.0W
	Double coil: 2.0W

Characteristics

Operate time		15 msec.Max.
Release time		15 msec.Max.
Operating humidity		40~95%RH
Initial breakdown voltage	Between contact and coil	2,500VAC (50/60Hz) for 1 min.
	Between open contacts	1,200VAC (50/60Hz) for 1 min.
Insulation resistance		100MΩ Min.(500VDC)
Ambient temperature		-30℃~+55℃
Temperature rise(Max.)		65℃
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. 50g

TYPICAL APPLICATIONS

PCB mounting Pin available

ORDERING INFORMATION

SMAE	—	1	12	D	M	1	XX

Type	Number of poles	Coil voltage	Coil sensitivity	Contact form	Number of coil	Customer's code
SMAE	1:1 pole	05,06,09,12, 18,24,48	Single coil:1.0W Double coil:2.0W	M:1 Form A	1: Single coil 2: Double coil	Nil:Standard XX:Special code for customer

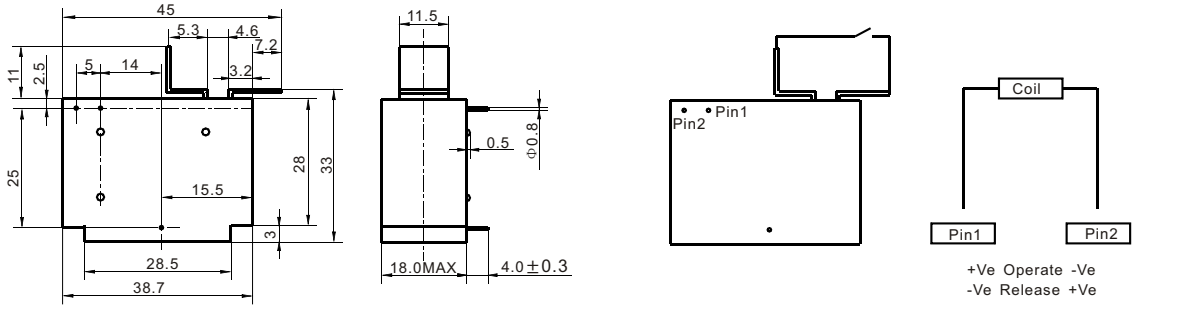
COIL(at 20°C)

SMAE

Voltage code	Nominal voltage (VDC)	Nominal current (mA)	Coil resistance (Ω ±10%)	Double coil (Ω, ±10%)		Drop-out voltage (VDC)	Pick-up voltage (VDC)	Rectangular Pulse width (ms)
				Operate coil	Release coil			
05	5	200.00	25	12.5	12.5	80%Min.	80%Min.	Min.80
06	6	166.67	36	18	18			
09	9	148.15	81	40.5	40.5			
12	12	83.33	144	72	72			
18	18	55.56	324	162	162			
24	24	41.67	576	288	288			
48	48	20.87	2,300	1,150	1,150			

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

Single coil



Double coil