

Main Feature

1. Miniature size (17.2 mm length x 12.1 width x 16.2 height) on SAM-1P for smaller occupying space.
2. Large Switching current (DC15V 20A/DC 24V 15A) available by employing high conductivity movable spring material and smaller internal resistance is reached by distributing stationery contact terminal near to external connection part, and also with connection of common terminal to other place, the heat radiation is suppressed to the minimum.
3. Wide operating temperature as follows; Coil Voltage : 1.2 times against rated coil voltage 80°C....14A, 70°C...16A, 60°C....18A. If terminal-resistance polyurethan magnet wire is used on coil, 20A switching current will be available on coil voltage of 1.2 times against rated coil voltage at 80°C.
4. Easy PC Board design available as the location of contact terminal is separated from each contact.
5. SAM-2P is consisted of 2 pieces of SAM-1P and capsulated by one cover and the location of terminals are distributed for easy pattern design on N.O. and N.C. contact terminal.

Application :

Car Control Switching Box (Alarm System, Automatic Door Locking System.... etc.)

Contact Rating :

- Nominal Load(Resistive Load $\cos \varphi = 1$)
Contact Capacity SAM 1 Pole :
N.O.: 10A at 24VDC
N.C.: 7A at 24VDC
SAM 2 Poles :
N.O.: 15A at 15VDC.
N.C.: 10A at 15VDC.
- Rated Carrying Current15A.
- Max. Allowable Current20A.
- Max. Allowable VoltageDC 30V.
- Max. Allowable Power Force.240 W.
- Min. Switching LoadDC 10V ,10mA.
- Contact MaterialAgSnO₂-Aup.
- Contact Form.....SPDT, SPST, DPDT, DPST.

Performance (at Initial Value)

- Contact Resistance100 mΩ Max.@1A,6VDC
- Operate Time10 mSec. Max.
- Release Time5 mSec. Max.
- Dielectric Strength :
Between Coil & Contact500VAC at 50/60 Hz
for one minute.
- Between Contacts1000VAC at 50/60 Hz
for one minute.
- Surge Resistance2000V (between coil & contact 1.2x50μSec.)

- Insulation Resistance..... 100 MegaΩ Min. at 500VDC.
- Max. On/Off Switching :
Electrical 30 Ops per Minute.
Mechanical 300 Ops per Minute.
- Temperature Range.....-30~80°C
- Humidity Range..... 45~85% RH.
- Coil Temperature Rise 60°C Max.
- Vibration :
Endurance..... 10 to 55 Hz dual
amplitude width 1.5mm.
- Error Operation..... 10 to 55 Hz dual
amplitude width 1.5mm.
- Shock :
Endurance 1,000 m/S² Min.
Error Operation..... 100 m/S² Min.
- Life Expectancy :
Mechanical 10⁷ Operations at No
load condition.
- Electrical 10⁵ Operations at Rated
Resistive Load.
- Weight..... SAM-1P : 7.6 g.
SAM-2P : 15 g.

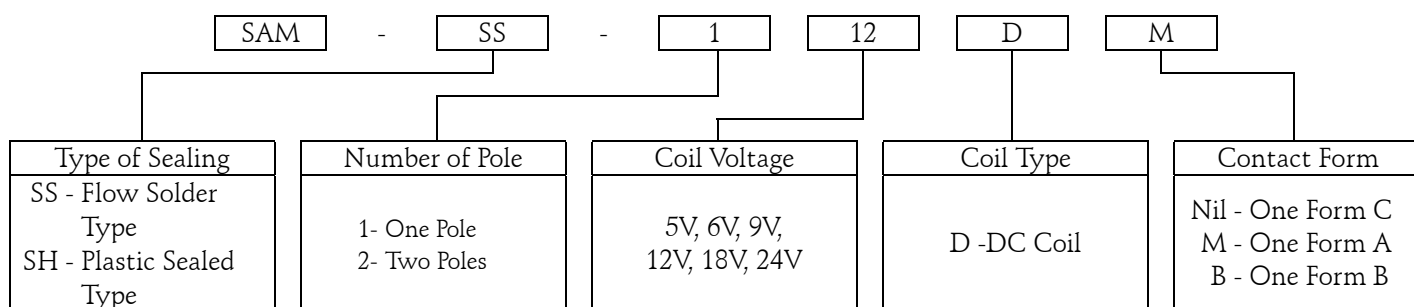
Safety Standard & Its File Number :

- NIL.

Coil Specification (at 20 °C):

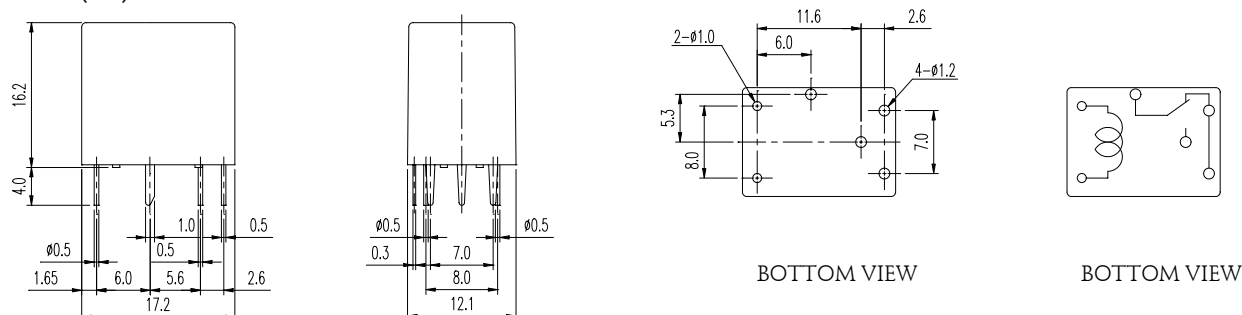
Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ($\Omega \pm 10\%$)	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Maximum Allowable Voltage (VDC)
SAM-1P SAM-2P	5	91	55	Abt. 0.45	75% Maximum	5% Minimum	150% but for short time carrying current
	6	75	80				
	9	50	180				
	12	38	320				
	18	25	720				
	24	19	1,280				

Ordering Information:



Dimension:

SAM-SS/SH(1P)



SAM-SS/SH(2P)

