SAVIOR

ASN

Miniature PCB Power Relay

■ Features

- ☐ Small volume Easy installation
- ☐ Get an electric shock load big 1C 12A 2C 8A
- ☐ High sensitivity
- ☐ Point dynamic test and self-locking function
- ☐ Mechanical indicator window

■ Contact Characteristics

Contact material		Ag alloy	
Load	Impedance	8A(2 C/O)	12A(1 C/O)
	The motor	1/6HP, 240VAC (1 C/O)	1/3HP, 240VAC (1 C/O)
Rated voltage		250VAC/30VDC	
And the voltage		DC:≤75%, AC:≤80%(Rated Voltage)	
The release of the voltage		DC:≤10%, AC:≤30%(Rated Voltage)	
Maximum voltage		110%(Rated Voltage)	
Initial Contact resistance		≤50mΩ	
Max. switching power(with resistive load)		3000 VA, 360W	
Electrical endurance		≥ 10^5	
Mechanical endurance		≥ 10^7	

■ General Data

Operating time(at rated voltage)		≤20ms
Release time		≤ 10ms
Ambient temperature(at rated voltage)		- 40℃~+ 55℃
Coil power	DC (W)	0.53
	AC (VA)	1. 0
Environmental humidity		5%~85%RH
The atmospheric pressure		86~106KPa
Installation		P l u g - i n
Weight		20 g ~

■ Insulation

Test voltage (min)	With a contacts	1000 VAC (Leakage Current 1mA)
	Heteropolar contact	3000 VAC (Leakage Current 1mA)
	Contacts coil	5000 VAC (Leakage Current 1mA)
Shock resistance		10G(Half-Sine Pulse : 11ms)
Vibration resistance		
Insulation resistance		≥ 1000MΩ(500VDC)

■ Coil Data(23℃)

Voltage code	(VDC) Rated voltage	Winding resistance (Ω)± 10%	Voltage code	(VAC) Rated voltage	Winding resistance (Ω)± 10%
006	6	68	506	6	16
009	9	150	512	12	63
012	12	270	524	24	240
024	24	1100	548	48	1085
036	36	2440	615	115	6300
048	48	4300	720	220	21000
110	110	22800	730	230	23000
			740	240	

ASN+

SAVIOR

Miniature Intermediate Power Relay

Contact Data

Contact arrangement	3P	4P
Contact resistance (typical)	50mΩ(1A 24VDC)	
Contact materials	$AgSnO_2$, $AgCdO_{12}$	
Contact load (resistance)	10A 250VAC/ 30VDC	5A 250VAC/ 30VDC
Max. switching voltage	250VAC/30VDC	
Max. switching current	10A	5A
Max. switching power	2500VA/ 300W	1250VA/ 150W
Mechanical endurance	1×10^7	
Electrical endurance	1×10^5	

Characteristics

Insulation resistance		1000MΩ(500VDC)
Dielectric Strength	Between coil and contact	1500VAC 1Min
	Between open contacts	1000VAC 1Min
	Between contact sets	1500VAC 1Min
Operate time		25ms
Release time		25ms
Shock resistance	Functional	$100m/s^2$
	Destructive	$1000m/s^2$
Vibration		10~55Hz 1mm
Humidity		98%RH，+40℃
Ambient termperature		-40℃~+70℃
Termination		PCB, plug-in
Weight		~37g
Construction		Dust protected

Coil

Coil power	AC：900mW；DC：1.2VA

Coil Data(23℃)

Rated Voltage(VDC)	Pick-up Voltage(VDC)	Drop-out Voltage(VDC)	Coil Resistance (Ω)
6	≤4.8	≥0.6	40±10%
12	≤9.6	≥1.2	160±10%
24	≤19.2	≥2.4	650±10%
48	≤38.4	≥4.8	2600±10%
110	≤88.0	≥11.0	11000±10%

Rated Voltage(VAC)	Pick-up Voltage(VAC)	Drop-out Voltage(VAC)	Coil Resistance (Ω)
6	≤4.80	≥1.8	12.0±10%
12	≤9.60	≥3.6	46±10%
24	≤19.20	≥7.2	180±10%
36	≤28.8	≥10.8	450±10%
48	≤38.4	≥14.4	780±10%
100/110	≤80.0	≥30.0	3750±10%
200/220	≤160.0	≥60.0	12950±10%
220/240	≤176.0	≥66.0	18790±10%

Features

- ☐ 10A Switching capability (3P type)
- ☐ 2kV dielectric strength
- ☐ 2 & 4 pole configurations
- ☐ Various terminals, test button available
- ☐ Gold plated contact available
- ☐ Sockets available
- ☐ Environmental friendly product (RoHS compliant)

Dimensions: 28.0×21.3×35.2 mm

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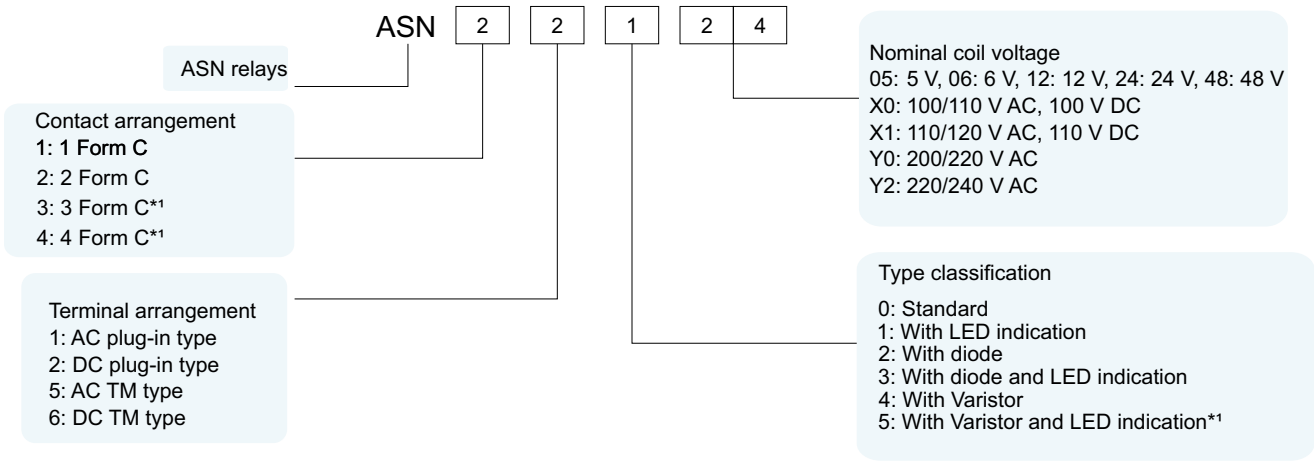
Ordering Information

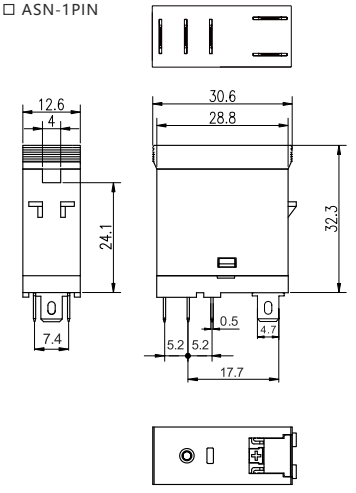


Note 1: This Option can be used at ASN+ Series Relays only

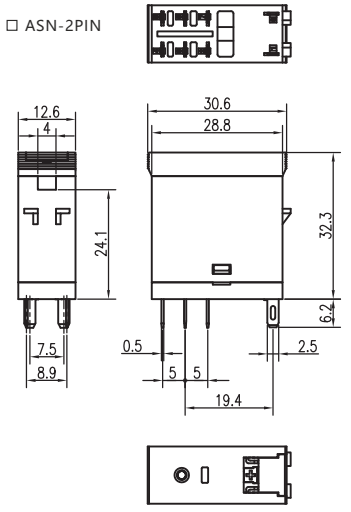
Dimensions

☐ Dimensions

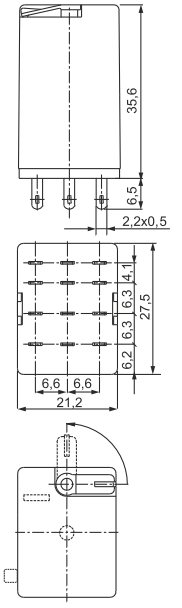
☐ ASN-1PIN



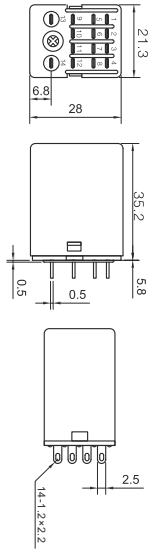
☐ ASN-2PIN



☐ ASN-3PIN

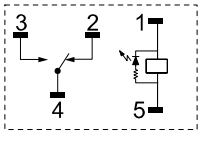


☐ ASN 4PIN

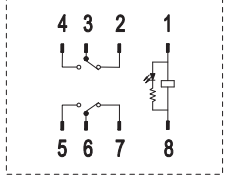


☐ Wiring Diagram

☐ ASN-1PIN

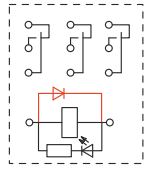


☐ ASN-2PIN



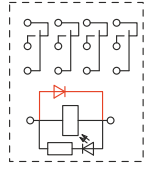
☐ ASN-3PIN

3 Form C(DC)*2



☐ ASN 4PIN

4 Form C(DC)*2



Note 2: Fly-wheel Diode will be ordered as an option. Normally, no rectifier diode was used on circuit.

Remark: For AC parts with diode, the positive and negative pole markings on wiring diagram are not applicable.