

DC Relay

SARN-H Series



Features

- •450V 20A Contact switching capability
- ●High working temperature 125°C
- •U type and H type are available
- •Flange and iron bracket type are available
- Satisfy RoHS

Product Parameter

Characteristic	Ite	Items Expla		anation Characteristic		Items		Explanation
Contact Parameter	Contact Type		Single NO Type		Performance	Mechanical Endurance		1,000,000 cycles
	Nominal Load		20A (@450V)			Initial Dielectric Strength	IP/OP	2500VAC 1min.
	Max. Persistent Current		40A (@80V)					2500VAC 1min.
	Dropping Voltage Of Contacts		≤200mV(@10A)			Initial Insulation Resistance		100MΩ (500VDC)
	Min.Applicable Load		1A 12VDC			Pick-up Time (Nominal Voltage)		≤10ms
	Terminal Type		Plug Type Terminal(ISO)			Drop-out Time		≤10ms
Eletrical Parameter (1)			U Type	Н Туре	Parameter	Shock	Stability Test	294m/s² (30G)
	Max.Switching Voltage		80VDC	450VDC			Strength Test	490m/s² (50G)
	Max.Breaking Current		20A (80VDC,more than once)	40A (450VDC,more than once)		Vibration		22.3~500Hz 49m/s² (5G)
	Electric Endurance	Res. Load	100,000 cycles (80VDC 10A)	100,000 cycles (450VDC 10A)		Ambient Temperature		-40°C~85°C
				20,000 cycles		Ambient Humidity		20%~85%RH
				(450VDC 20A)		Weight		39g
				8,000 cycles (80VDC 40A)		Length×Width×Height(mm)		43×32.6×37.3

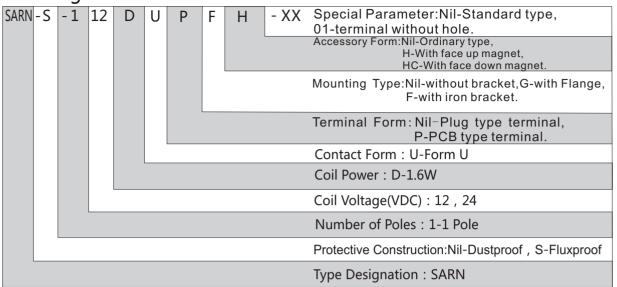
Coil Parameter (at 23°C)

(== = ,							
Nominal Voltage (VDC)	12	24					
Operating Voltage (VDC)	12	24					
Max. Voltage (VDC)	16	36					
Pick-up Voltage (VDC)	≤7.2	≤14.4					
Drop-out Voltage (VDC)	≥1.2	≥2.4					
Coil Resistance (±10%) (Ω)	90	360					
Initial Power (W)	1.6	1.6					
Steady Power (W)	1.6	1.6					

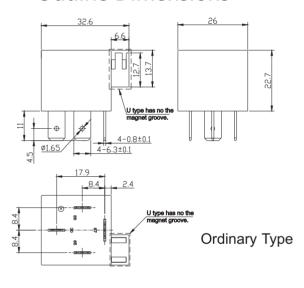
Notes:

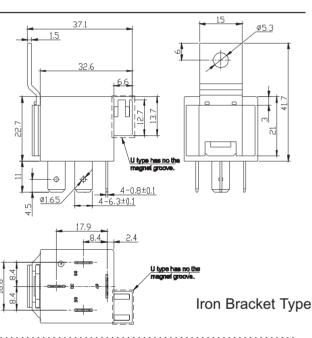
(1)Unless specified otherwise in the individual methods, the ambient temperature of the electric endurance test is 23° C, duty factor is 2s:2s.

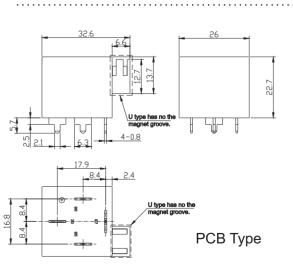
Ordering Information

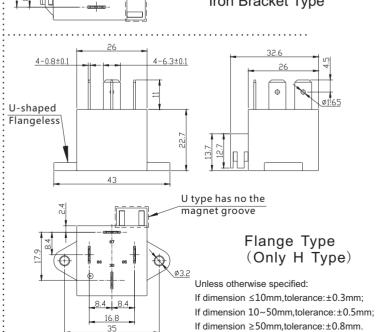


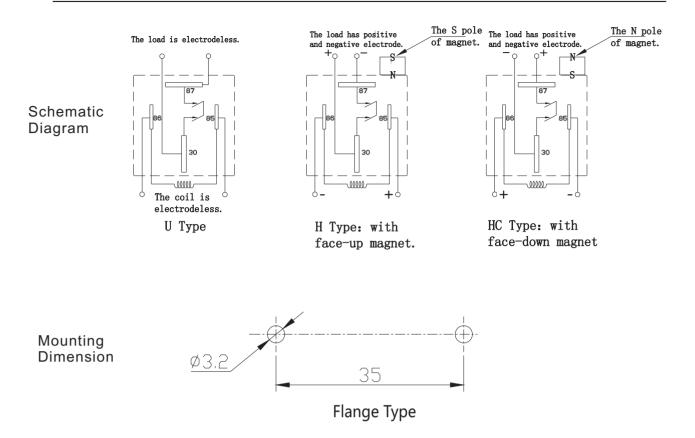
Outline Dimensions











Instruction

- 1.Use and transport conditions.
- 1) Temperature : -40°C~+85°C
- 2) Humidity: 20~85%RH
- 2.Please regard the relay as a product within a service life. Don't exceed its capacity of the switch and service life. Please change in time as necessary.
- 3. The load output of the relay has positive and negative electrode, please refer the Wiring Diagram to connect it.
- 4.Be careful and don't stain the connection part of contact with foreign bodies and oil, it may lead to abnormal heat dissipation. Please use the connecting bus with nominal sectional area ($100\,\text{mm}^2$ min).
- 5.Please avoid applying to the terminal with excessive load, if the load of nominal range is exceeded, it will affect the function of switch.

Disclaimer:

This datasheet is the customers' reference. All the specification are subject to change without notice.

We could not evaluate all the performance and parameters for every possible application. Thus the users should be in a right position to choose the suitable product for their own application. If there is any query, please contact Sanyou for technical service. However it is the users' responsibility to determine which product should be used only.

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