

SONGLE RELAY



RELAY ISO9002

SLD



1. MAIN FEATURES

- 30A/40A switching use relay at ambient temperature of 80°C.
- Compatible Fasten Terminal arrangement with this kind of power relay.
- Simple magnetic circuit to meet mass production for low cost offer.
- Operating ambient temperature range covers from -30°C to 80°C.

2. APPLICATIONS

- For direct connection with Cell Motors, Transmission, etc. and Anti-Locking Brake System.

3. ORDERING INFORMATION

SLD	XX VDC	S	L	C
Model of relay	Nominal coil voltage	Structure	Coil sensitivity	Contact form
SLD	05,06,09,12,18,24VDC	S:Sealed type	L:1.6W	A:1 form A
		F:Flux free type	D:Special	B:1 form B
				C:1 form C

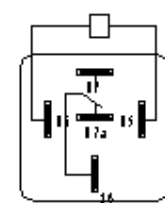
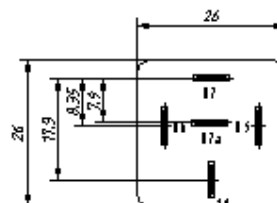
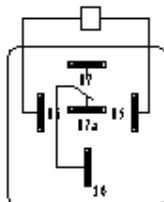
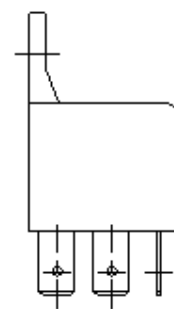
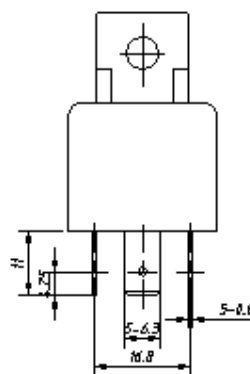
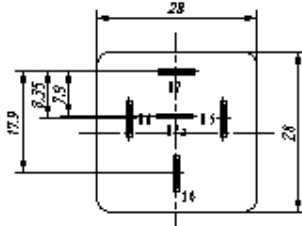
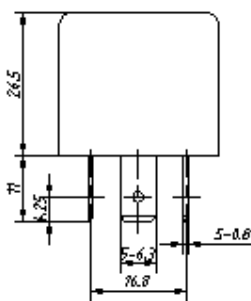
4. RATING

30A/14VDC 40A/14VDC

5. DIMENSION(unit:mm)

DRILLING(unit:mm)

WIRING DIAGRAM



6. COIL DATA CHART (AT20°C)

Coil Sensitivity	Coil Voltage Code	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω) $\pm 10\%$	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Max-Allowable Voltage (VDC)
SLD	05	5	312	16	abt. 1.6	70%Max.	10% Min.	150% but for short time carrying current
	06	6	260	23				
	09	9	180	50				
	12	12	133	90				
	24	24	67	360				

7. CONTACT RATING

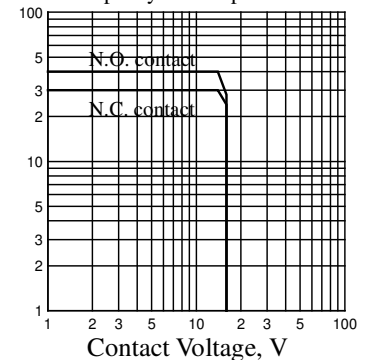
Item \ Type	CONTACT FORM		
	FORM A	FORM C	
		N/O	N/C
Contact Capacity Resistive Load $\cos\Phi=1$	N/C 30A 12VDC N/O 40A		
Max. Carrying Current	40A	40A	30A
Max. Make Current	60A	60A	40A
Max. Break Current	40A	40A	30A
Nominal Switching Capacity	N/C : 30A 14VDC N/O : 40A 14VDC		
Max. Allowable Power Force	N/C 420W N/O 560W		
Max. Allowable Voltage	130%		
Contact Material	AgSnO ₂		

8. PERFORMANCE (at initial value)

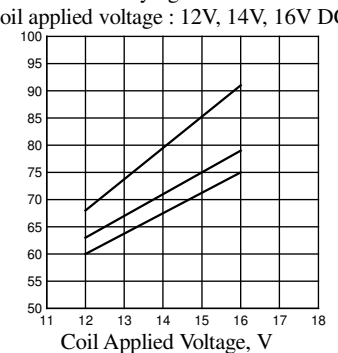
Item \ Type	SLD
Contact Resistance	100m Ω Max.
Operation Time	15msec Max.
Release Time	15msec Max.
Dielectric Strength	
Between coil & contact	1000VAC 50/60Hz (1 minute)
Between contacts	750VAC 50/60Hz (1 minute)
Insulation Resistance	100 M Ω Min. (500VDC)
Max. ON/OFF Switching	
Mechanically	300 operation/min
Electrically	30 operation/min
Operating Ambient Temperature	-40°C to +125°C
Operating Humidity	45 to 80% RH
Coil Temperature Rise	60 deg. Max. (at rated coil voltage)
Vibration	
Endurance	10 to 55Hz Double Amplitude 1.5mm
Error Operation	10 to 55Hz Double Amplitude 1.5mm
Shock	
Endurance	100G Min.
Error Operation	10G Min.
Life Expectancy	
Mechanically	10 ⁷ ops.
Electrically	10 ⁵ ops.
Weight	abt. 40grs.

9. REFERENCE DATA

1. Maximum value for switching capacity No. of operations : 10⁵



2-(1) Coil temperature rise (resistive)
Ambient temperature: 20°C, 85°C,
125°C; 68°F, 185°F, 257°F
Contact carrying current : 40A
Coil applied voltage : 12V, 14V, 16V DC



2-(1). Coil temperature rise (resistive)
Ambient temperature : 20°C, 68°C
Contact carrying current :
20A, 30A, 35A, 40A
Coil applied voltage : 12V, 14V, 16V DC

