

SONGLE RELAY



RELAY ISO9002

SLDS



1. MAIN FEATURES

- 20A/30A 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

SLDS	XX VDC	S	L	C
Model of relay	Nominal coil voltage	Structure	Coil sensitivity	Contact form
SLDS	05,08,09,12,18,24VDC	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

20A/14VDC 30A/14VDC

5. DIMENSION (unit:mm)

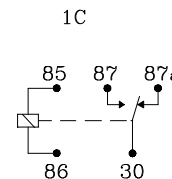
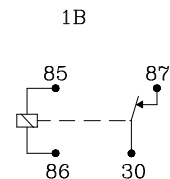
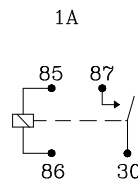
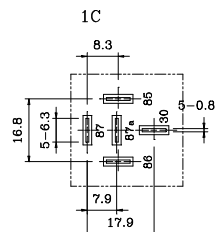
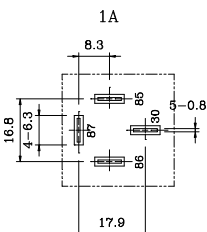
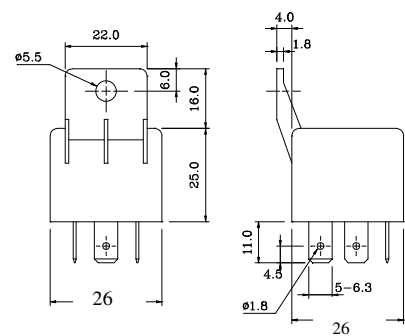
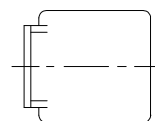
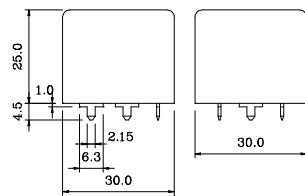
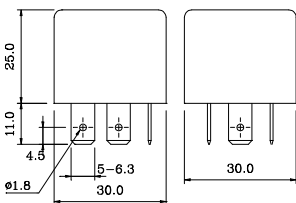
DRILLING (unit:mm)

WIRING DIAGRAM

Standard Cover Type

P.C.B. Terminal Type

Bracketed Cover Type



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)
SLDS	05	5		16	abt. 1.8	65%Max.	10% Min.	150% but for short time carrying current
	06	6		50				
	09	9		90				
	12	12	150	80				
	24	24	75	320				

7. CONTACT RATING

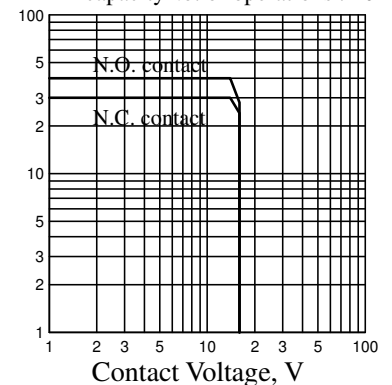
Item \ Type	12V Coil Voltage			24V Coil Voltage		
	FORM A	FORM C		FORM A	FORM C	
		N/O	N/C		N/O	N/C
Contact Capacity	N/C 30A 12VDC			N/C 10A 24VDC		
Resistive Load $\cos\Phi=1$	N/O 40A			N/O 20A		
Max. Carrying Current	40A	40A	30A	20A	20A	10A
Max. Make Current	100A	100A	60A	50A	50A	20A
Max. Break Current	40A	40A	30A	20A	20A	10A
Nominal Switching Capacity	N/C : 30A 14VDC N/O : 40A 14VDC			N/C : 10A 28VDC N/O : 20A 28VDC		
Max. Allowable Power Force	N/C : 420W N/O : 560W					
Max. Allowable Voltage	16VDC			32VDC		
Contact Material	Ag Sno2					

8. PERFORMANCE (at initial value)

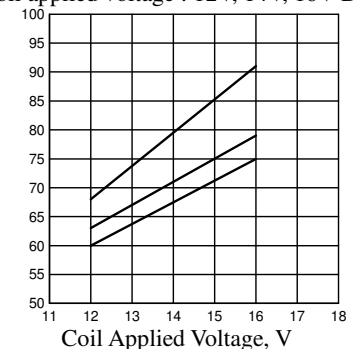
Item \ Type	SLDS
Contact Resistance	100m Ω Max.
Operation Time	15msec Max.
Release Time	15msec Max.
Dielectric Strength	
Between coil & contact	1000VAC 50/60Hz (1 minute)
Between contacts	750VAC 50/60Hz (1 minute)
Insulation Resistance	100 M Ω Min. (500VDC)
Max. ON/OFF Switching	
Mechanically	300 operation/min
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

