

SONGLE RELAY

	RELAY ISO9002	SLE
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1. MAIN FEATURES

- Single CONTACT and double CONTACT Types offer switching capacity by 15A in small size for exclusive automobile control relay switching box use.
- PC board terminal.
- Simple magnetic circuit to meet mass production for low cost offer. Standard type is open type without dust cover. If dust cover required, suitable cased relay can be prepared.
- Operating ambient temperature range covers from -40°C by 125°C at no current on relay's CONTACTS.

2. APPLICATIONS

- Car control switching box (alarm system, automatic door locking) wiper motor Reversing, window Lifter, Flashers or turning signals, Air conditioning, Fuel pump control system, etc.

3. ORDERING INFORMATION

SLE	XX VDC/VAC	S	L	C
Model of relay	Nominal coil voltage	Structure	Coil sensitivity	Contact form
SLE	05、06、09、12、18、24VDC	S:Sealed type	L:1.1W	A:1 form A
				B:1 form B
		F:Flux free type	D:Special	U:1 form U
				V:1 form V
W:1 form W				

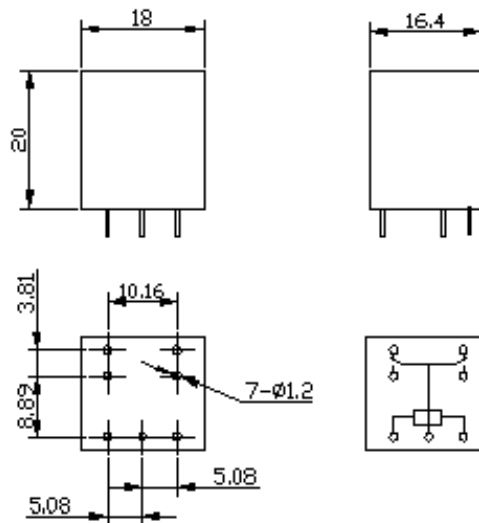
4. RATING

15A/14VDC 125VAC(1 form U,V,W)
 10A/14VDC 125VAC(1 form A,B,C)

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) $\pm 10\%$	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)
SLE1.10W	05	5	227	22	MAX 70%	MIN 10%
	06	6	180	33		
	09	9	121	74		
	12	12	93	130	MAX 70%	MIN 10%
	18	18	61	295	MAX 70%	MIN 10%
	24	24	46	520		

7. CONTACT RATING

Item	Type	SLE			
		1U/1V/1W		1A/1B/1C	
Contact Capacity		15A 120VAC		10A 120VAC	
Resistive Load ($\cos\Phi=1$)		15A 12VDC		10A 12VDC	
Inductive Load ($\cos\Phi=0.4$ L/R=7msec)		2.5A 120VAC 5A 12VDC		1.5A 120VAC 3A 12VDC	
Rated Carrying Current		15A		10A	
Max. Allowable Voltage		120VAC	28VDC	120VAC	28VDC
Max. Allowable Current		15A		10A	
Max. Allowable Power Force		1800VA	180W	1200VA	120W
Referenced Min. Applicable Load		5VDC	10mA	5VDC	10mA
Contact Material		AgSnO2			

8. PERFORMANCE (at initial value)

Item	Type	SLE
Contact Resistance		100m Ω Max.
Operation Time		6msec Max.
Release Time		3msec Max.
Dielectric Strength		
Between coil & contact		1000VAC 50/60HZ (1 minute)
Between contacts		750VAC 50/60HZ (1 minute)
Surge Resistiveness		2000V (between coil & contact 1x40 usec)
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		98% RH at 20°C
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. Min. (no load)
Electrically		10 ⁵ ops. Min. (at rated coil voltage)
Weight		abt. 12grs. (sealed), 8grs. (open Frame)

9. REFERENCE DATA

