

SONGLE RELAY



RELAY ISO9002

SLDH



1. MAIN FEATURES

- Plug-in terminals, easy to handle worldwide changeable, with ISO socket.
- 1 Form A.
- Optional mounting bracket.
- Small size, high capacity, rated load 60A.
- Usage of relay in car Compressor Light Starter Horn

2. APPLICATIONS

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

3. ORDERING INFORMATION

| SLDH | XX VDC | S | L | C |
|----------------|----------------------|------------------|------------------|--------------|
| Model of relay | Nominal coil voltage | Structure | Coil sensitivity | Contact form |
| SLDH | 05,06,09,12,18,24VDC | S:Sealed type | L:1.60W | A:1 form A |
| | | F:Flux free type | D:Special | B:1 form B |
| | | | | C:1 form C |

4. RATING

60A/14VDC

5. DIMENSION (unit:mm)

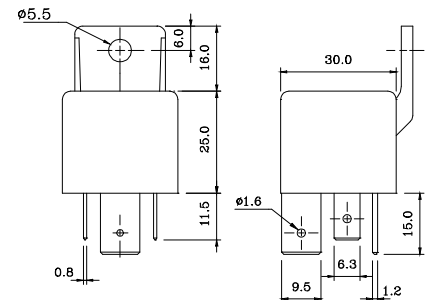
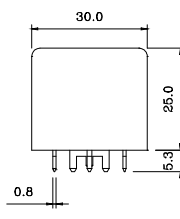
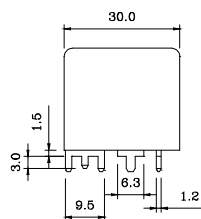
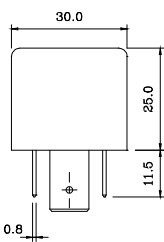
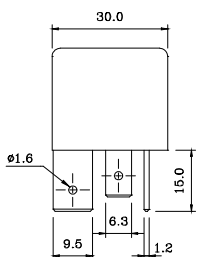
Standard Cover Type

DRILLING (unit:mm)

P.C.B. Terminal Type

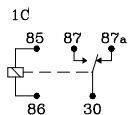
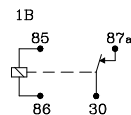
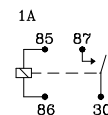
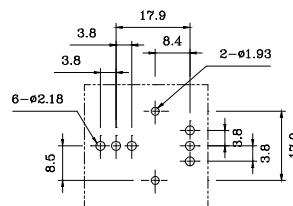
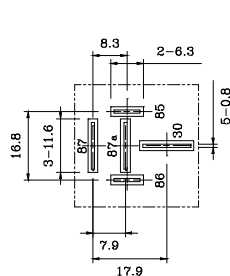
WIRING DIAGRAM

Bracketed Cover Type



Suggest PC Board Layout

(Bottom View)



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) |
|------------------|-------------------|-----------------------|----------------------|---|-----------------------|-----------------------|------------------------|--|
| SLDH | 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

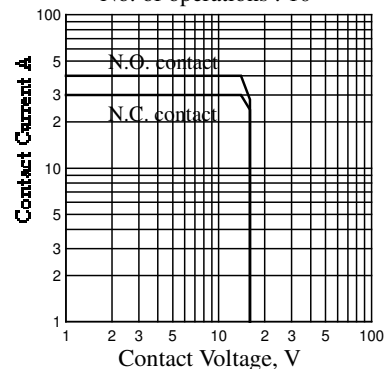
| | |
|------------------------|-----------------|
| Contact Form | 1 Form C |
| Contact Rating | 60A 14VDC |
| Max. Carrying Current | 60A |
| Max. Make Current | 120A |
| Max. Break Current | 60A |
| Initial Voltage Drop | 200 mV (at 60A) |
| Max. Switching Voltage | 75VDC |
| Max. Switching Power | 60-800Watts DC |
| Contact Material | Silver Alloy |

8. PERFORMANCE (at initial value)

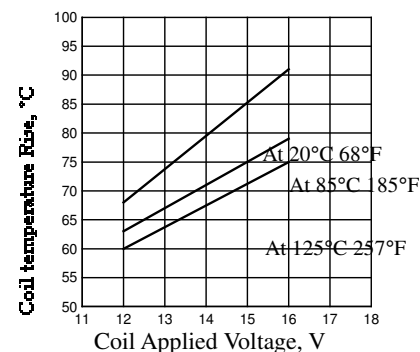
| Item | Type | SLDH |
|-------------------------------|------------------------|---|
| Contact Resistance | | 100m Ω Max. |
| Operation Time | | 15msec Max. |
| Release Time | | 15msec Max. |
| Dielectric Strength | Between coil & contact | 1000VAC 50/60Hz (1 minute) |
| | Between contacts | 750VAC 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 (No water drop condensation) |
| 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. 42grs. |

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 : 70A
Coil applied voltage : 12V, 14V, 16V DC



-(1). Coil temperature rise (resistive)
Ambient temperature : 20°C, 68°C
Contact carrying current :
50A, 60A, 70A, 80A
Coil applied voltage : 12V, 14V, 16V DC

