

# SCB<sub>(M)</sub> SERIES

**ORDER CODE**  
**SCB-1-M-12-40-D**

D: DIODE  
 D1: DIODE INVERSE  
 R1: RESISTOR  
 R2: RESISTOR

40: 40A  
 70: 70A

COIL VOLTAGE  
 12: DC12V  
 24: DC24V

□: QUICK CONNECT TERMINALS  
 M: QUICK CONNECT TERMINALS (BRACKET COVER)  
 MM: QUICK CONNECT TERMINALS (STEEL BRACKET)

1: 1c  
 2: 1a  
 3: 1b  
 4: 2au

TYPE

680Ω(DC12V)  
 2700Ω(DC24V)  
 820Ω(DC12V)  
 3200Ω(DC24V)



**Main Features:**

- TUV safety approval.
- Optional mounting bracket with plastic & steel.
- Contact rating 40 amps, 70amps.
- Epoxy seal type.

## COIL RATING (at 20°C)

|     | NOMINAL VOLTAGE (VDC) | COIL RESISTANCE (Ω)(±10%) | POWER CONSUMPT -ION(W) | NOMINAL CURRENT (mA)(±10%) | PULL IN VOLTAGE (VDC) | DROP OUT VOLTAGE (VDC) | MAX. ALLOWABLE VOLTAGE (VDC) |
|-----|-----------------------|---------------------------|------------------------|----------------------------|-----------------------|------------------------|------------------------------|
| 40A | DC12V                 | 103Ω                      | 1.4W                   | 117mA                      | 65% MAX.              | 10% MIN.               | 130%                         |
|     | DC24V                 | 320Ω                      | 1.8W                   | 75mA                       |                       |                        |                              |

|     | NOMINAL VOLTAGE (VDC) | COIL RESISTANCE (Ω)(±10%) | POWER CONSUMPT -ION(W) | NOMINAL CURRENT (mA)(±10%) | PULL IN VOLTAGE (VDC) | DROP OUT VOLTAGE (VDC) | MAX. ALLOWABLE VOLTAGE (VDC) |
|-----|-----------------------|---------------------------|------------------------|----------------------------|-----------------------|------------------------|------------------------------|
| 70A | DC12V                 | 72Ω                       | 2.0W                   | 167mA                      | 65% MAX.              | 10% MIN.               | 130%                         |
|     | DC24V                 | 288Ω                      |                        | 83mA                       |                       |                        |                              |

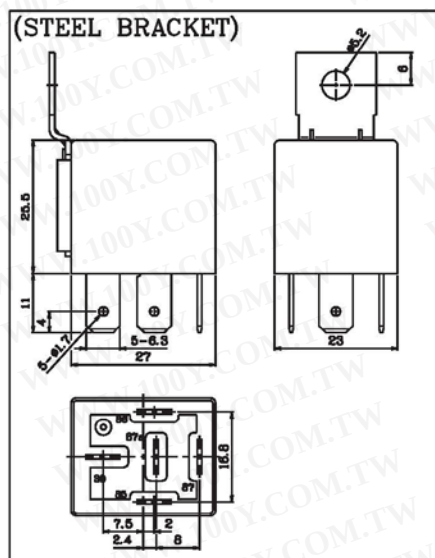
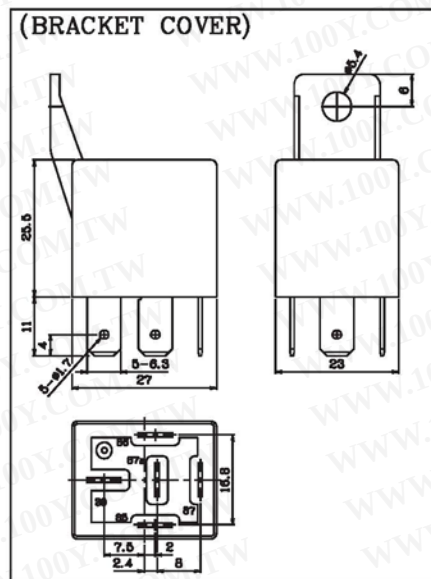
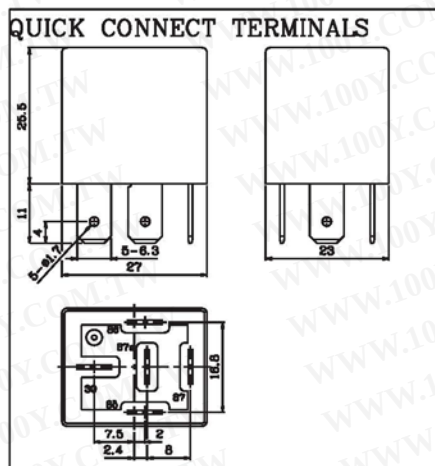
## PERFORMANCE (at initial value)

| Item                                       | Type | 40A                                | 70A |
|--------------------------------------------|------|------------------------------------|-----|
| Contact Resistance                         |      | 50mΩ Max. (initial value)          |     |
| Operate Time                               |      | 15msec Max.                        |     |
| Release Time                               |      | 15msec Max.                        |     |
| Dielectric Strength between coil & contact |      | AC1000V (1min)                     |     |
| Dielectric Strength between contact        |      | AC500V (1min)                      |     |
| Insulation Resistance                      |      | 50MΩ Min.(DC500V)                  |     |
| Operating Ambient Temperature              |      | -40°C ~ +75°C                      |     |
| Humidity                                   |      | 35 to 85% RH                       |     |
| Vibration Resistance                       |      | 10G (10~55Hz)(Dual amplitude: 2mm) |     |
| Shock Resistance                           |      | 10G                                |     |
| Life Expectancy Mechanically               |      | 1,000,000 ops. Min.(1800 ops./h)   |     |
| Life Expectancy Electrically               |      | 100,000 ops. Min.(1200 ops./h)     |     |
| Weight                                     |      | 33g(about)                         |     |

## CONTACT RATING

| Item \ Type              | 40A       | 70A       |
|--------------------------|-----------|-----------|
| Rated Carrying Current   | DC12V 40A | DC14V 70A |
| Max. Allowable Current   | 50A       | 80A       |
| Max. Allowable Voltage   | 32V       | 32V       |
| Max. Current (continual) | 40A       | 70A       |
| Contact Material         | Ag alloy  |           |

## DIMENSIONS(Unit: mm)



勝特力材料 886-3-5753170  
勝特力电子(上海) 86-21-34970699  
勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

## WIRING DIAGRAMS(Bottom View)

