

SCB91L Series Thermal Circuit Breaker

Rating: 5.0~20.0A 125Vac 50Vdc

Interrupting Capacity: 1,000A 125/250Vac 200A 50Vdc

Resettable Overload Capacity: 6 Time Rated Current

Dielectric Strength: 1,500VAC X 1 Minute

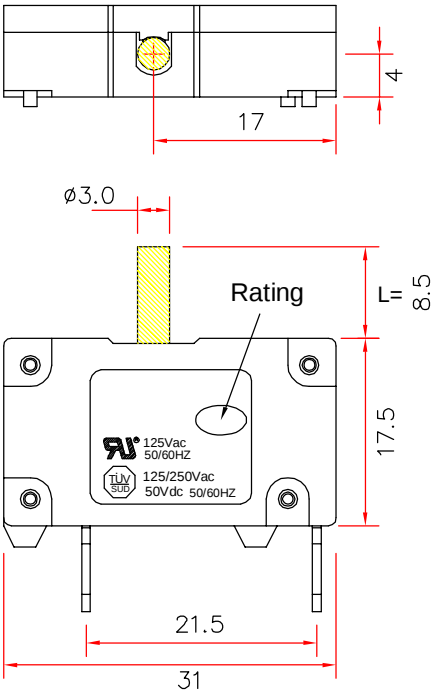
Insulation resistance: >500M ohms

Reset Time: Push to reset (within 60 sec)

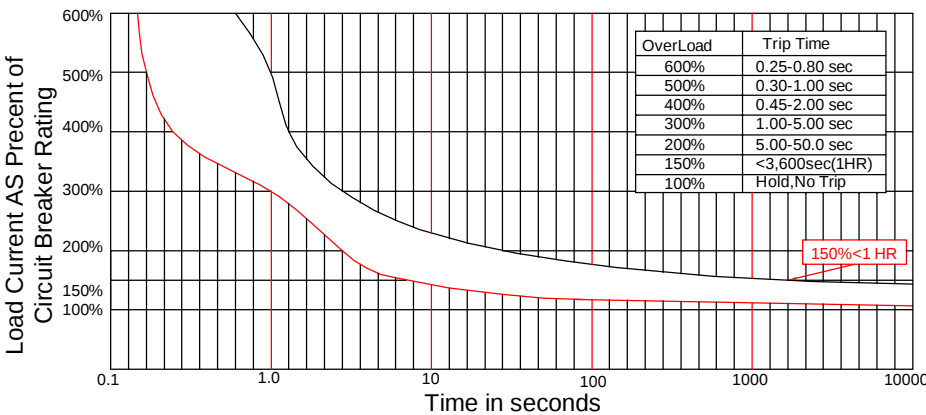
RoHS Compliant: YES

* UL e155159(s) UL1077
5.0~20.0A 125Vac 50Vdc

* TUV R72070120 EN60934
5.0~20.0A 125Vac 50Vdc



SCB91L Series Trip Time Curves



Trip Curves are Specified of 25°C(77°F)

Ambient Temperature Correction Factor

The time/current characteristic curve depends on the ambient temperature prevailing. In order to eliminate nuisance tripping. Please multiply the current breaker current ratings by the derating factor shown below.

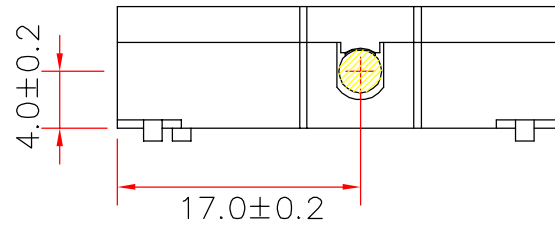
Ambient temperature	-10°C	0°C	10°C	25°C	40°C	50°C	60°C
Multiplication factor	1.30	1.20	1.10	1.00	0.85	0.73	0.60

Max.Internal Resistance

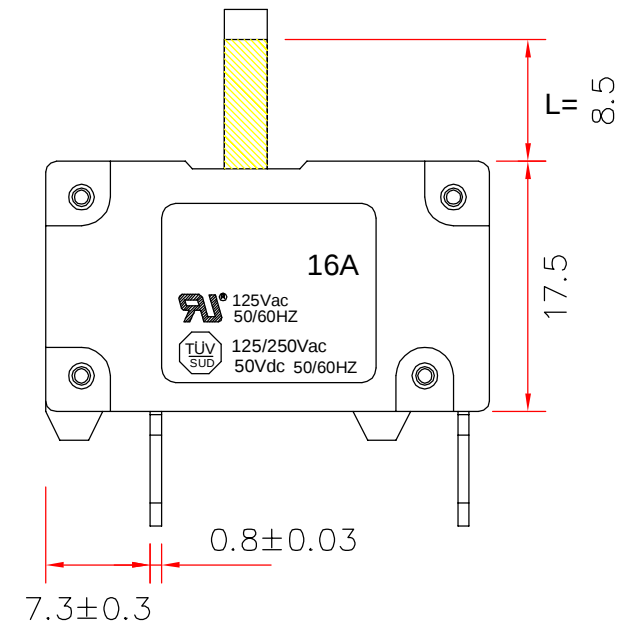
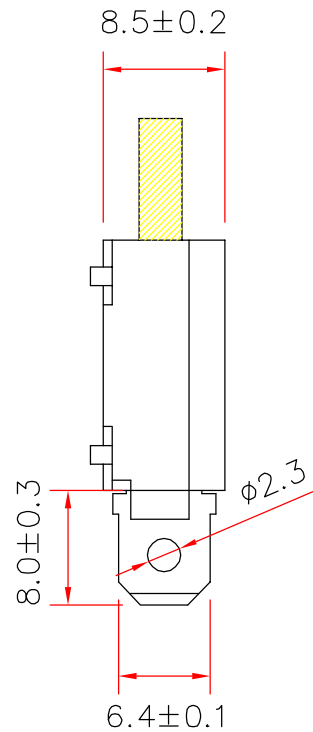
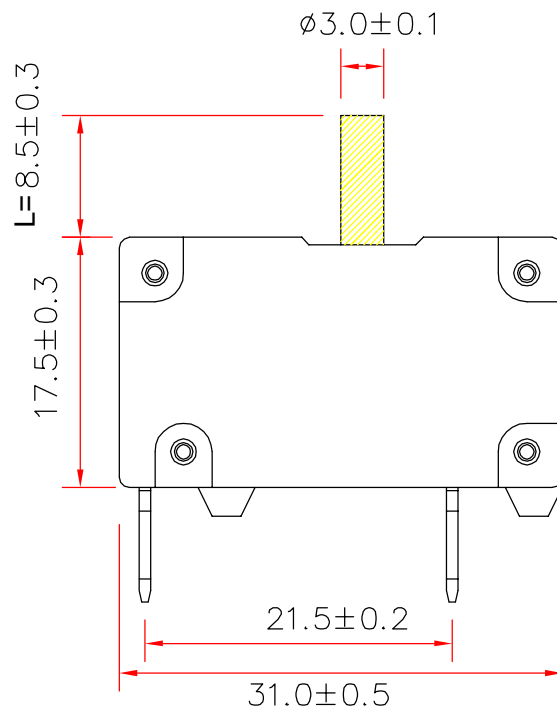
5.1-7.0Amp	<0.150 ohms
7.1-10.0Amp	<0.105 ohms
10.1-12.0Amp	<0.075 ohms
12.1-15.0Amp	<0.055 ohms
15.1-17.0Amp	<0.035 ohms
17.1-20.0Amp	<0.025 ohms

4				TOLERANCE		APPROVED	CHECK	DESING	DRAWER	UNIT	mm			
				DIMENSION	TOLERANCE									
3				XX.XX	±0.05					SCALE	1:1			
2				XX.X	±0.1					REV	DATE		A/O	2005.11.30
				XX	±0.15									
1				ANGLE	TOLERANCE	FILE NO	SCB91L Series Thermal Circuit Breaker			TITLE	Data-1			
NO	DESCRIPTION		DATE	X	±1°	SWEETA PRODUCTS CORPORATION				DRAWING NO				
				X.X	±0.5°									

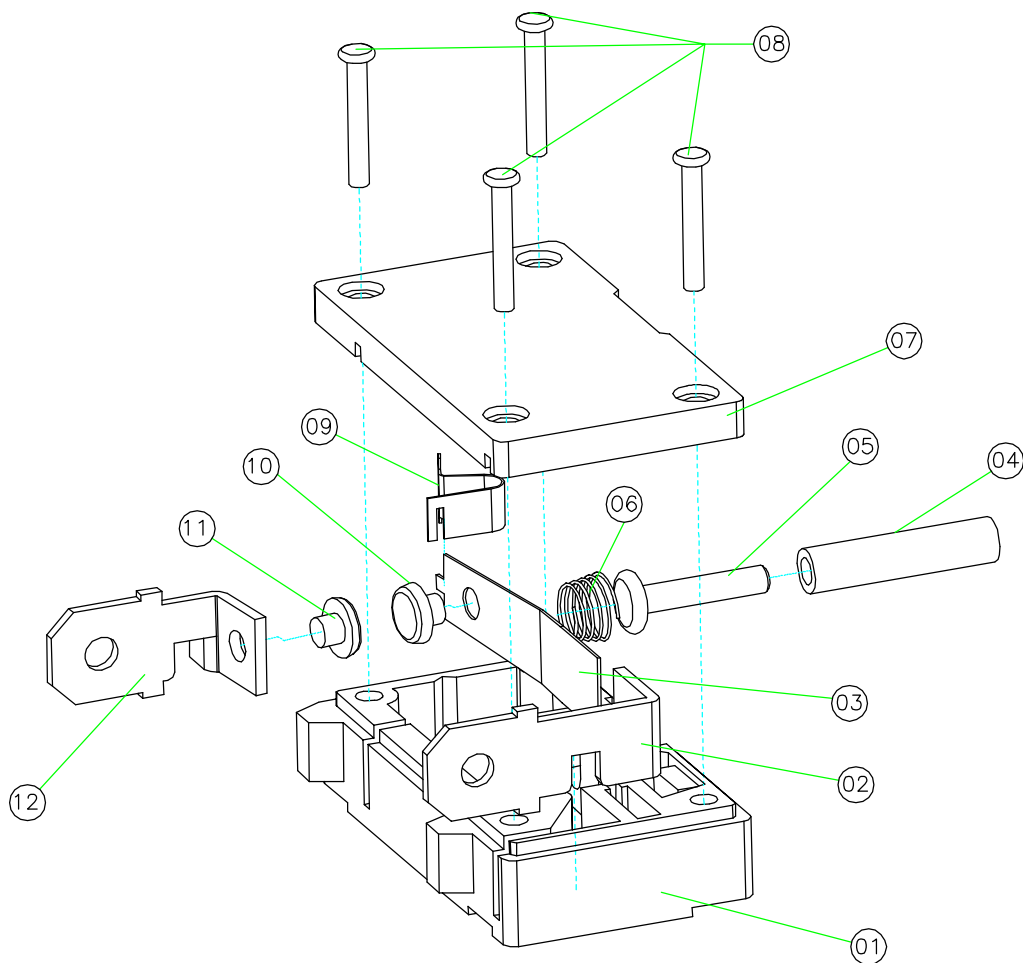
SCB91L-16-DNY60



WHEN OPEN THE BUTTON
TRIP 2.0mm



4			TOLERANCE		APPROVED	CHECK	DESING	DRAWER	UNIT	mm	
			DIMENSION	TOLERANCE							
3			XX.XX	±0.05					SCALE	1:1	
2			XX.X	±0.1					REV	DATE	
			XX	±0.15						A/0	
1			ANGLE	TOLERANCE	FILE NO	SCB91L Series Thermal Circuit Breaker			TITLE	SCB91L-XX-DNY60	
			X	±1°							
NO	DESCRIPTION	DATE	X X	±0.5°	SWEETA PRODUCTS CORPORATION				DRAWING NO	2005.11.30	



NO	Name	Material	Q'ty
1	Basic	Phenolic T373J 94-V0	1
2	Terminal#1	Copper Alloys C2680	1
3	Elastic Sheet	Bimetal (EMS,HOOD)	1
4	Push Rod	ABS PA766 94-V0	1
5	Push Pin	SPCC 50 Pin	1
6	Spring#1	SUS 301	1
7	Enclosure	Phenolic T373J 94-V0	1
8	Rivets	Aluminum Alloys	4
9	Spring#2	SUS 304	1
10	Contact #1	4.0X1.2 Silver Plated Copper	1
11	Contact #2	4.0X1.0 Silver Plated Copper	1
12	Terminal#1	Copper Alloys C2680	1
13			
14			
15			

4				TOLERANCE		APPROVED	CHECK	DESING	DRAWER	UNIT		mm	
				DIMENSION	TOLERANCE					SCALE			
3				XX.XX	±0.05					REV	DATE	1:1	2005.11.30
2				XX.X	±0.1							A/0	
1				XX	±0.15								
1	NO	DESCRIPTION	DATE	ANGLE	TOLERANCE	SWEETA PRODUCTS CORPORATION				TITLE		DRAWING NO	
				X	±1°								
				X.X	±0.5°								

SCB91L-

15

D

N

Y

6

0

Series No.

Rating Amp

Button Length

Fitting Plate

Color of Button

Terminal Type

Terminal Finish

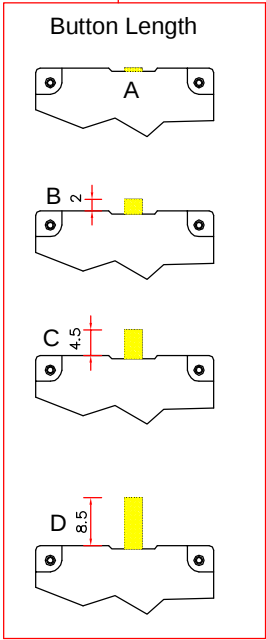
- 05=5A
- 06=6A
- 07=7A
- 08=8A
- 10=10A
- 12=12A
- 13=13A
- 15=15A
- 16=16A
- 18=18A
- 20=20A

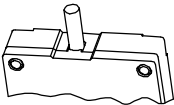
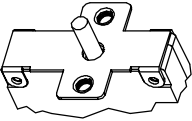
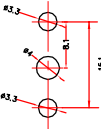
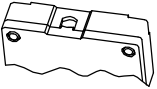
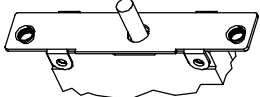
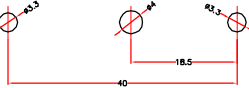
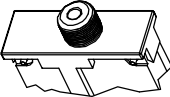
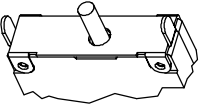
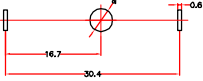
- A=0mm
- B=2mm
- C=4.5mm
- D=8.5mm

- Y=Yellow
- R=Red

- 6=6.3mm*8mm
- A=6.3mm*6mm

- 0=Plate with Tin
- N=Plate with Nickel



N Type	X Type	Panel Cutout	A Type (Auto-Reset)
			
P1 (M11XP1.0) Panel Cutout	Y Type Panel Cutout		
 	 		
P3 (3/8"-27T) Panel Cutout	Z Type Panel Cutout		
 	 		

4			TOLERANCE		APPROVED	CHECK	DESING	DRAWER	UNIT	mm	
			DIMENSION	TOLERANCE					SCALE	1:1	
3			XX.XX	±0.05					REV	DATE	2005.11.30
2			XX.X	±0.1					A/O		
1			XX	±0.15							
1			ANGLE	TOLERANCE	FILE NO	SCB91L Series Thermal Circuit Breaker	TITLE	Data-3			
			X	±1°							
			X.X	±0.5°							
NO	DESCRIPTION		DATE	SWEETA PRODUCTS CORPORATION				DRAWING NO			