

SCB94N Series Breaker Switch



- Technical data

- | | |
|------------------------|---|
| •Current rating range | 3~16A |
| •Input voltage rating | 125/250VAC; 50VDC |
| •Interrupting Capacity | 125/250VAC x 1,000A(UL 1077) |
| •Breaking Capacity | 6 times rated current |
| •Dielectric Strength | > 1.500VAC/min. |
| •Insulation Resistance | >100MOHM (DC 500V) |
| •Degree of protection | Terminal area IP00, operating area IP40 |

- Mechanical/Environmental Data

- Operating Ambient Temperature: -10°C to +60°C
 - Termination: 250"(6.35mm) quick connects or solder terminals
 - Compliance with Rohs
- The product accords with the requirement of ROHS(2011/65/EU)
 Contacts use Exempted item of RoHS Directive 2010/571/EU 8(a)

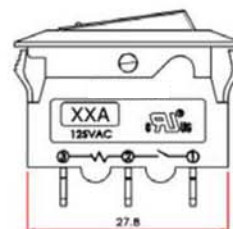
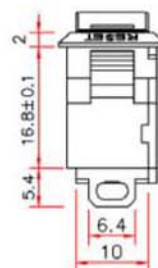
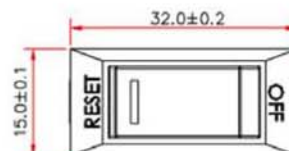
- Compliance with Rohs

The product accords with the requirement of ROHS(2011/65/EU)
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•Compliance with REACH, PAHS, PH1, PH2, PH3

- Typical applications

Transformers, Motors, Battery chargers, Power supplies, appliances, extra low voltage systems, machinery.



- Calibration(at25°C)

- | | |
|-------------------------|---------------------|
| •100% of Rated Current: | Hold , No Trip |
| •150% of Rated Current: | Trip Within 1 Hour. |
| •200% of Rated Current: | 5-30 sec Trip |
| •300% of Rated Current: | 1.5-5.0 sec Trip |

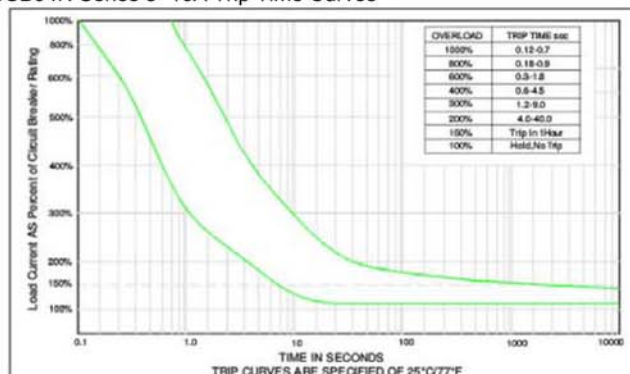
- Approval

- | | | |
|----------------------|---------------|-------------------|
| •Approval & File No. | Rated current | Rated voltage |
| •CUL UL E155159 | 3-16A | 125/250VAC; 50VDC |

- How to Order

SCB	94N Model No.	-15 Rating Amp	1 Illuminated Type	2 Actuator Type	1 Terminal Type	B Base Color	R Actuator Color	S Terminal Finish	1 Lamp Type
94N									
3A.....16A									
A=Yes, 125Vac B=Yes, 250Vac I =None									
1 =0.25" Tab/5.3mm Solder Lug		2 =0.25" Tab/5.0mm Solder Lug		3 =0.25" Tab/5.0mm Solder Lug		4 =0.25" Tab/5.0mm Quick Connects			
B=Black W=White G=Gray									
R=Red(PC) O=Orange(PC) N=Clear(PC) G=Green(PC) L=Blue(PC)									
1 =Black(Nylon) 2 =Gray(Nylon) 3 =Red(Nylon) 4 =White(Nylon)									
S=Plate with Tin N=Plate with Nickel 0=None									
0=None 1=Red Neon Lamp 2=Green Neon Lamp 3=Blue Neon Lamp A=LED Lamp									

•SCB94N Series 3~16A Trip Time Curves



- Ambient Temperature Correction Factor

Ambient temperature	-10°C	0°C	10°C	25°C	35°C	40°C	50°C	60°C
Multiplication factor	*1.30	*1.20	*1.10	1.00	*0.94	*0.85	*0.73	*0.68

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

Example : Normal Continuous Current = 10A
Ambient Temperature = 45°C
Multiplication Factor = 0.85
Recommended Rating = $10A / 0.85 = 11.8A$
Select the Nearest Rating = 12A

- Max.Internal Resistance

Amp rating	Max resistance
3.0 - 5.0Amp	<0.225 Ohms
6.0 - 8.0Amp	<0.175 Ohm
9.0 - 12.0Amp	<0.125 Ohm
13.0 - 16.0Amp	<0.050 Ohm

- Internal connection diagram

