

:: Class certification

ABS
ABS TECHNICAL OFFICE
Classing Engineering Service

CERTIFICATE NUMBER: 09-883983-PUSA
DATE: 14 October 2006

CERTIFICATE OF Design Assessment

This is to certify that a representative of this Bureau did, at the request of **SB Fuse Co., Ltd**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance of the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate. It will remain valid for five years from the date of issue or until the Rules or specifications used in the assessment are revised (whichever occurs first).

PRODUCT: Fuse Link (Non-Removable Cartridge Type)
MODEL: SB-C1
ABS RULE: 2005 Steel Vessel Rules 4-8.30.3.4
OTHER STANDARD: JIS C811 & C812 (1985)

AMERICAN BUREAU OF SHIPPING
Jeonghyun Kim
Engineering Test Approval Coordinator

MARINE DIVISION
17 Seokcho-ro, Seochon-dong, Yongsu-gu, Seoul 150-740, Korea
Tel. 82-2-41-81-12-61
Fax. 82-2-41-81-12-64
www.kbsa.or.kr

Certificate number: 09716C2197
File number: ACE-03010102
Product code: 2045H
This certificate is valid until the date of expiry of the certificate.

TYPE APPROVAL CERTIFICATE

as per Annex 1000, Classification Rules

This certificate is issued to:
S B CO., LTD.
Gimhae (Gyeongnam) - KOREA (REPUBLIC OF)

for the type of product:
FUSES / FUSES COMBINATION UNITS (LOW VOLTAGE)
FUSE-LINK - Model SB-C1 (NON-REMOVABLE CARTRIDGE TYPE FUSE-LINK)

Regulations and standards:
SBS/C101/101/102 Rules for the Classification of Steel Ships.
JIS C 811 (1985) and JIS C 812-1 (1985).

This certificate is issued in accordance with the approval procedures for the product identified above which have been approved by the relevant requirements of the Regulations and standards mentioned above.

This certificate is valid until: **31 Dec 2009**

At Paris in France, on: 30 May 2006
By the BUREAU VERITAS, By order of the Secretary
Approval office: Local office: 001 FUSION
Inspector: K. Lee

By mail: ACE 500 August 2006

Type Approval Certificate
Germanischer Lloyd

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. 13 784 - 99 H4
Company: SB Co., Ltd.
628 Saengcheol-ri, Saengjin-myun, Gimhae-city, Gyeongnam-province, KOREA

Product Description: Fuse-link
Type: SB-C1
Environmental Category: C
Technical Data / Range of Application: Fuse-link SB-C1, non-removable cartridge type
Rated current in 140 A (fuse link)
Rated current in 70 A (A-Fuse holder)
Rated operational voltage in 100 V AC / 200 V DC
Rated insulation voltage in 1000 V AC / 2000 V DC
Rated frequency in 50/60 Hz

Rated breaking capacity: 100 kA (AC) with IEC 100
Rated breaking capacity: 50 kA (DC) with IEC 50
Fusing factor: 1.25
Characteristics: A
Status indication: optional
Application: Distribution panels for marine and off-shore system

Test Standard: Regulations for the Performance of Type Tests
IEC 60283-1-54
Documents: S-B Fuse-Standard S24025-FL (ver. 05-10-05)
KIMM No. 200728702, dated 2007-12-14

Remarks: For ambient temperature reference is made to IEC 60283-1-999

Valid until: 2013-02-17
Page: 1 of 1
File No.: LL-08
Hamburg, 2006-02-18

Germanischer Lloyd
Wulfsberg 65
Joachim Zepke

KR

TYPE APPROVAL CERTIFICATE

형식 승인 증명서

Certificate No.: GC1804247-EL002
Date of Approval: 8th August, 2006.
Product: Fuse Link
Manufacturer: SB Corporation
628 Saengjin-myeon, Gimhae-si, Gyeongnam, Korea

Product Description: Non-removable Cartridge Type Fuse Link (Type: SB-C1)
- Rated current (In) : 1 - 60 A (Fuses 11kV)
- Rated operational voltage (Uo) : 200 V AC / 200 V DC
- Rated insulation voltage (Uis) : 2000 V AC / 2000 V DC
- Rated frequency (f) : 50/60 Hz
- Rated breaking capacity (Ib) : 50 kA (AC) with IEC 100
- Rated breaking capacity (Ib) : 50 kA (DC) with IEC 50
- Fusing factor (Lf) : 1.25 x 1.1
- Characteristic: A

Approval Condition: 1. This approval is granted on the basis of the test report no. 89032, issued by Korea Electrotechnology Research Institute and 89-01002079, 89-01012728 issued by KES. 2. No product can be used before 19910405.

THIS IS TO CERTIFY that the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and/or of the recognized standards as follows and entered in the "List of Approved Manufacturers and Type Approved Equipment", Pt. A, Ch. 1, Art. 802 of the Rules for Classification, Steel Ships.

This Certificate is valid until 7th August, 2010.
Issued at Daegu, Korea on 13th October, 2005.

한국선급
KOREAN REGISTER OF SHIPPING
Seon-Eung Kim
General Manager of Materials and Equipment Team

Note: 1. The approval will be automatically suspended and the Certificate become invalid from the expiry date of the Certificate or 2. the certificate will be cancelled when the manufacturer or the manufacturer's representative fails to comply with the relevant requirements of the Rules or the significant changes of products and/or manufacturing process render the certificate invalid.

AC-24200402

Lloyd's Register

Type Approval Certificate Extension

This is to certify that Certificate No. 03/0032 for the undernoted product is extended and renumbered as shown.

This certificate is issued to:
PRODUCER: S.B. Co., Ltd.
PLACE OF PRODUCTION: 628 Saengcheol-ri, Saengjin-myeon, Gimhae, Gyeongnam, Korea, Republic of

DESCRIPTION: Non-removable cartridge fuse-link
TYPE: SB-C1
APPLICATION: Marine, offshore and industrial applications.

SPECIFIED STANDARD: JIS C 812-8: General requirements for fuses for the production of low-voltage cables and lines.
JIS C 811-6: Particular requirement for low-voltage fuses.
IEC 60283-1: Low-voltage fuses.

Rated Fuse Link Current (A)	Rated AC Breaking Capacity (kA)	Rated DC Breaking Capacity (kA)	Rated Voltage (kV)	Rated Frequency (Hz)	Fusing Factor (Ib/In)
1, 2, 3, 4, 5, 6, 8, 10, 15, 20, 25, 30, 40, 50, 60, 80	100	50	500/250	50 & 60	1.35

Certificate No.: 03/0032(E)
Issue Date: 11 February 2006
Expiry Date: 17 August 2010
Sheet: 1 of 2
M.H.A. Butler
London (then Approver)
Lloyd's Register (EMBA)
71 Fenchurch Street, London EC3M 4BS

Note: 1. This certificate is issued in accordance with the relevant requirements of the Rules and/or of the recognized standards as follows and entered in the "List of Approved Manufacturers and Type Approved Equipment", Pt. A, Ch. 1, Art. 802 of the Rules for Classification, Steel Ships.

NIPPON KAIJI KYOKAI

Certificate No. T4057014

Certificate of Type Test

MANUFACTURER: S B Co., Ltd. Gyeongnam, Korea
PRODUCT: Non-removable Cartridge Type Current Limiting Fuse Link
TYPE NO.: SB-C1
TYPE TEST NO.: 001010
PARTICULARS: Rated voltage: a.c. 500V, d.c. 250V
Rated current: 1, 2, 3, 4, 5, 6, 8, 10, 15, 20, 25, 30, 40, 50, 60, 80A
Rated frequency: 50/60 Hz
Rated breaking capacity: a.c. 100kA, d.c. 50kA
Minimum fusing factor: 1.35

DOCUMENTATION: S24025-FL

THIS IS TO CERTIFY that the above mentioned product has been approved by the NIPPON KAIJI KYOKAI in accordance with the Society's type test requirements for electrical equipment and cables.

This certificate is valid until the 14th day of November, 2009.
Issued at Tokyo on the 15th day of November, 2005.

S. Ogata
General Manager
Inspection Department

Note: The manufacturer, if desired, is requested to apply to the Society for renewal prior to the expiration date.
CS-2-200216

Certificate of Quality Approval, Issue 2

DAS CERTIFICATION

QUALITY MANAGEMENT SYSTEM Certificate of Approval

This is to certify that the quality management system of **SB CO., LTD.**
#628 Saengcheol-ri, Saengjin-myeon, Gimhae-si, Gyeongnam-prov., Korea
Has been assessed and found to meet the requirements of:
ISO 9001:2000 / KS A 9001:2001

The certificate valid for the following scope of operation:
Design, Development, Manufacture and Service of Cable Fuse, Current Limiting Fuse and Fuse Holder and Fuse Cover

Date of Certificate Issue: 18-October-2006
Certificate Valid until: 18-October-2009
Certificate Number: K01-1321

Authorized: [Signature]
Date: 18-October-2006

DAS CERTIFICATION Ltd.
1, Millbank Court, Millbank, London SW8 5NF, UK
Tel: +44 (0)20 7596 9000
Fax: +44 (0)20 7596 9001
www.dascertification.co.uk

IAF Registered ISO 9001:2000
UKAS Registered

SB CO.,LTD

#703-3 Bugok-ri Jangyu-myun Kim hae-city Kyungnam, Korea
Tel. 82-(0)55-338-3113
Fax. 82-(0)55-336-9105
E-mail. sbfuse@sb21c.com
www.sb21c.com

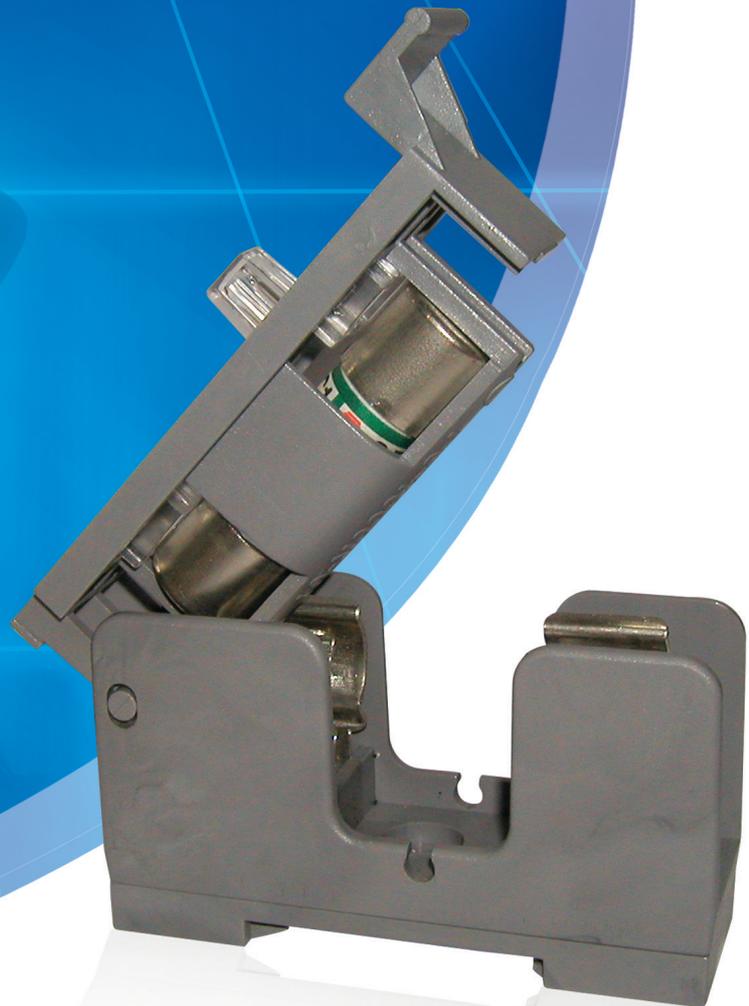




www.sb21c.com

Fuse links for Marine & Off-Shore

**SB-C1 &
FH-1550N
FH-2075N**



“ Patient people who rise to the challenge of product innovation with an industrious mindset ”

"Patient people who rise to the challenge of product innovation with an industrious mindset"

SB Co., Ltd. was established as Sambu Fuse with the management policy of "Let's be patient people who rise to the challenge of product innovation with an industrious mindset" at Youngdo-gu, Busan City in 1990. The company had endeavored to localize fuse-links for ships and had received type approval for AC 500V 10KA fuse-link from the Korean Register of Shipping (KR) in 1992. The company has continuously endeavored to develop fuses for ships since then. Consequently the company has received type approvals for fuse links of the rated voltage of AC 500V DC 250V and rated ampere from 1A to 60A, breaking current of AC 100KA, DC 50KA from ABS, BV, GL, LR, KR, and NK, which is the first in Korea. The company currently supplies the fuses to almost all ships which are built in Korea and offshore. The company is now meeting the challenge to develop innovative products such as electrical parts for ships for its second take off.

We will do our best to become a comprehensive manufacturer of electrical parts for ships with our continuous R&D efforts and provide our customers with our innovative products.

Please continue to encourage us with your constant guidance and assistance in order for us to be a successful company.

Thank you very much.

Park, woon-han, Representative director of SB Co., Ltd.



Company History

- 1990. 06** Sambu Fuse was established at Youngdo-gu, Busan City.
- 1992. 07** Acquired type approval of SC-1 Type Fuse-Links (AC 500V 10KA) from the Korean Register of Shipping (KR).
- 1997. 05** Korea Electric Power Corporation (KEPCO) approved development test of electric wire fuse.
- 1997. 07** The company was qualified as a competitive bidder for electric wire fuse by the Korea Electric Power Corporation.
- 1998. 03** The company started to supply electric wire fuses to the Korea Electric Power Corporation.
- 1998. 04** The company participated in INNO-BIZ which is managed by the Small and Medium Business Administration (SMBA).
- 1999. 09** The company was incorporated and its name was changed to SB Fuse Co.,Ltd Its head office and plant moved to Saha-gu, Busan City.
- 2000. 02** Company research and development certificate. (Sangihyup 20003023)
- 2000. 03** Participated in INNO-BIZ (SMBA).
- 2000.05~10** SB-C1 Type Fuse-Links were approved by ABS, BV, GL, LR, KR, and NK.
- 2000. 06** Registered utility model. (fuse structure)
- 2000. 10** ISO 9001 certificate.
- 2001. 08** INNO-BIZ certificate. (SMBA)
- 2001. 12** Registered utility model. (Tube type holder)
- 2002. 05** Specialized Components and Materials Enterprise.
(the Ministry of Commerce, Industry and Energy)
- 2002. 06** Chinese office was established in Zhejiang province, China.
- 2004. 10** The company name was changed to SB Co., Ltd. and its head office and plant were moved to Saengrim-myeon, Gimhae City, Gyeongnam Province.
- 2008. 03** The company registered utility model (fuse holder).
- 2008. 04** China plant was established. (Wezhonu SB Electric Co., Ltd.)
- 2009. 08** The company head office and plant were moved to Jangyu-myeon, Gimhae City, Gyeongnam Province.

C.o.n.t.e.n.t.s

- 02_ CEO Message
- 03_ Company History / Contents
- 04~07_ Fuse-Links
- 08~11_ Fuse-Holder
- 12~15_ Fuse-Cover & Puller

► Model number SB-C1

(Non-renewable cartridge type current limiting fuse-links)

► Service Conditions

- The ambient temperature is within the range of the maximum 45°C and the minimum -25°C. Provided that the average temperature during 24H shall not exceed 35°C.
- Not affected by shot

► Specifications

- **Rated voltage** AC 500V/DC 250V
- **Rated current** 1A, 2A, 3A, 4A, 5A, 6A, 8A, 10A, 15A, 20A, 25A, 30A, 40A, 50A, 60A
- **Rated frequency** 50Hz, 60Hz
- **Rated breaking capacity (Interrupting capacity).** AC 100,000A/DC 500,000A.
- **Classification class** "A" (Fusing factor 1.35In)

► Marine/Off-Shore Type Approvals for SB-C1 Fuse Links

- American Bureau of Shipping(ABS)
- Bureau Veritas(BV)
- Germanischer Lloyd(GL)
- Lloyd Register of shipping(LR)
- Korea Register of shipping(KR)
- Nippon Kaiji Kyokai(NK)
- KS A 9001/ISO 9001

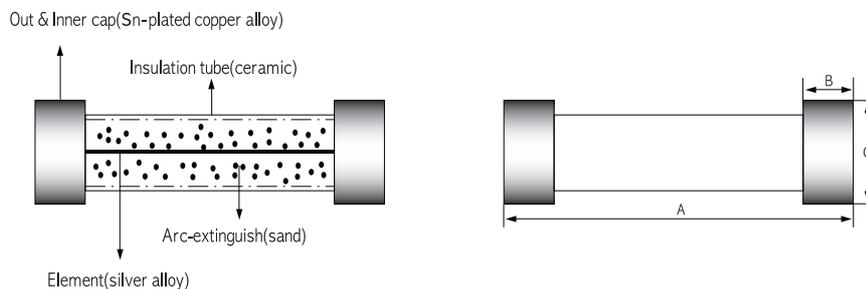


■ Table Standard Ratings

Model Number	Rated voltage(V)	Rated current(A)	Rated frequency(Hz)	Rated breaking capacity(KA)	Fusing factor	Approved number
SB-C1	AC 500 DC 250	1A, 2A, 3A, 4A, 5A, 6A, 8A, 10A, 15A, 20A, 25A, 30A, 40A, 50A, 60A	50-60	AC 100 (ACL 100) DC 50 (DCL 50)	1.35In	ABS 05-BK130633-PDA BV 08716/C0 BV GL 13784-99HH LR 00/00102(E1) KR GCH04247-EL002 NK 00T101 ISO K01-1321

► Construction and Dimensions

- The fuse element is made of silver alloy with special treatment applied.
- The insulating tube is made of special ceramics having high heat-resistance and sand is used as arc-extinguishing filler.
- The materials for current carrying metal fitting is of copper alloy.



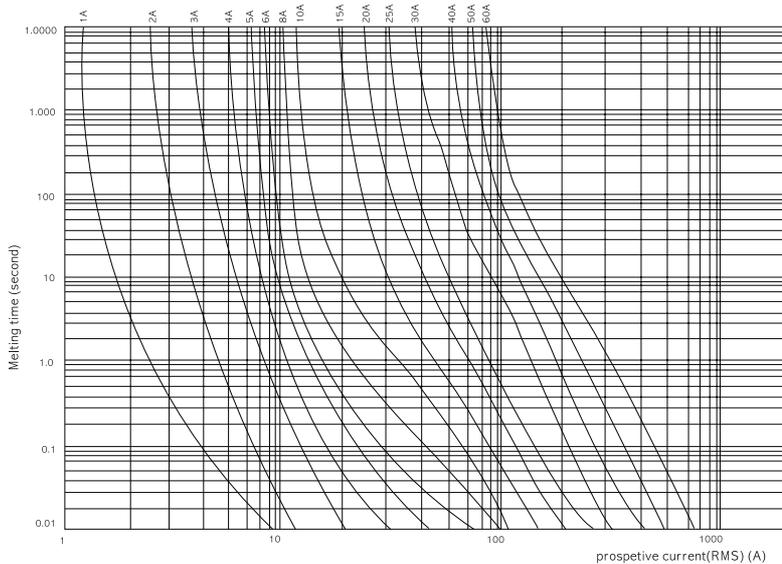
■ Table Dimension

Model Number	Rated current(A)	Dimension(mm)			Weight (g/pc's)
		A	B	C	
SB-C1	1A, 2A, 3A, 4A, 5A, 6A, 8A, 10A, 15A, 20A, 25A, 30A	50	13	15	22
	40A, 50A, 60A	75	16	20	56

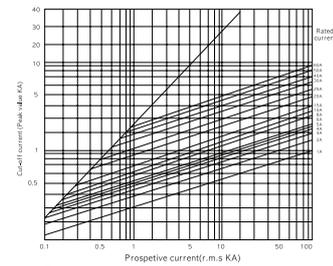


:: PERFORMANCE

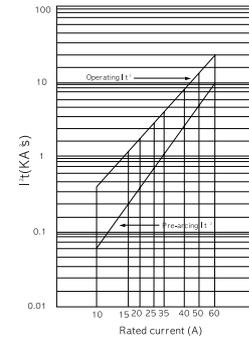
Pre-arcing time/current characteristic
1-60Amperes, 500VAC(Fusing Factor-1.35In)



Cut-off characteristics



I^2t characteristics

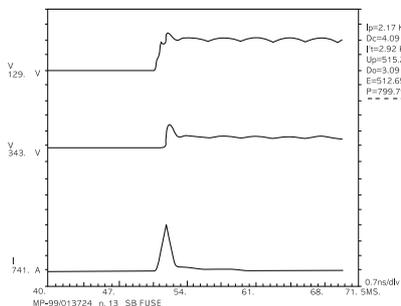


:: Verification of breaking performance I_b at DC

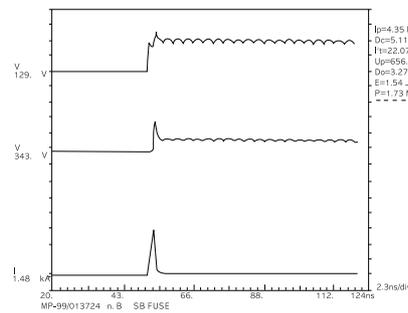
- Applied voltage DC 254V
- Steady-state current 51,980A
- Peak current 52,410A
- Time constant 15.1ms

■ Table

Type	Rated current(A)	Cut-off current(A)	Time(ms)		$I^2t(KA^2s)$		Switching voltage(KV)	Insulation resistance after operation(MΩ)
			pre-arcing	arcing	melting	arcing		
SB-C1	1	142	0.10	0.086	0.00130	0.00080	1.267	>500
	1	144	0.10	0.086	0.00132	0.00028	0.269	>500
	1	144	0.09	0.088	0.00129	0.00032	0.270	>500
	30	2170	1.00	2.690	1.26	1.66	0.515	>500
	30	2180	1.01	2.880	1.32	1.56	0.565	>500
	30	2170	1.01	2.720	1.27	1.60	0.558	>500
	40	2610	1.17	2.430	2.18	2.53	0.571	>500
	40	2530	1.14	2.680	2.08	2.49	0.583	>500
	40	2580	1.16	2.520	2.17	2.64	0.573	>500
	60	4320	1.83	3.280	10.40	10.85	0.646	>500
	60	4350	1.84	3.270	10.72	11.35	0.656	>500
	60	4370	1.89	2.850	10.88	9.73	0.653	>500



Interrupting(I_b) oscillogram of type SB-C1 30A at DC 250V



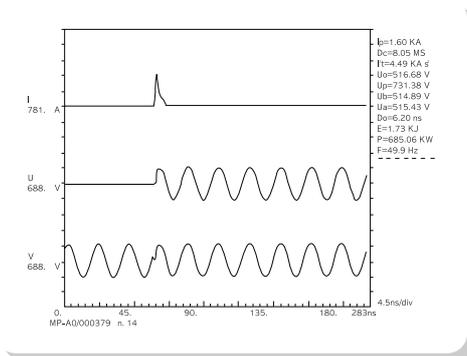
Interrupting(I_b) oscillogram of type SB-C1 60A at DC 250V

:: Verification of breaking performance I_1 at AC

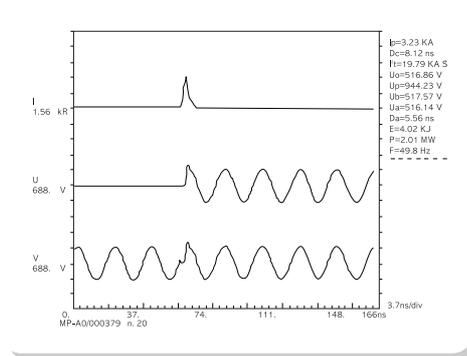
- Applied voltage AC 525V
- Power factor 0.15
- Steady-state current 100,400A
- Peak current 232,170A

■ Table

Type	Rated current(A)	Cut-off current(A)	Time(ms)		$I^2t(KA^2S)$		over voltage(KV)	Insulation resistance after operation(MΩ)
			pre-arcing	arcing	melting	arcing		
SB-C1	30	6420	0.15	4.50	1.15	7.35	1170	>500
	30	6720	0.12	3.58	1.30	7.93	1180	>500
	30	6540	0.13	4.38	1.25	7.95	1160	>500
	60	8640	0.3	1.1	6.97	24.66	891	>500
	60	9010	0.3	1.1	7.46	23.98	892	>500
	60	9280	0.31	0.74	7.87	22.33	932	>500



Interrupting(I_1) oscillogram of type SB-C1 30A at AC 500V

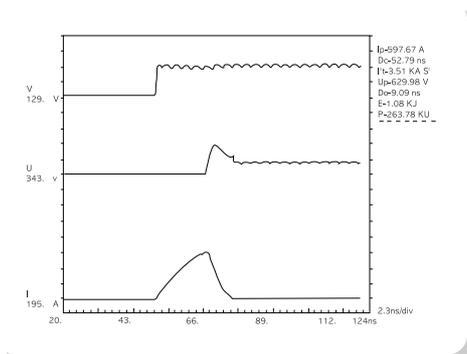


Interrupting(I_1) oscillogram of type SB-C1 60A at AC 500V

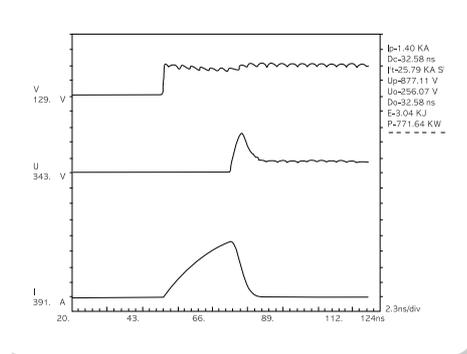
- Applied voltage DC 255V
- Steady-state current 2,000A
- Peak current 2,010A
- Time constant 18.9ms

■ Table

Type	Rated current(A)	Cut-off current(A)	Time(ms)		$I^2t(KA^2S)$		Switching voltage(KV)	Insulation resistance after operation(MΩ)
			pre-arcing	arcing	melting	arcing		
SB-C1	30	601	16.47	8.04	2.46	0.98	0.637	>500
	30	598	16.70	8.09	2.49	1.02	0.630	>500
	30	595	16.30	8.30	2.43	1.03	0.637	>500
	60	1410	23.70	10.1	20.90	5.84	0.868	>500
	60	1400	23.30	9.3	20.16	5.63	0.870	>500
	60	1410	23.70	9.4	20.70	5.92	0.865	>500



Interrupting(I_2) oscillogram of type SB-C1 30A at DC 250V



Interrupting(I_2) oscillogram of type SB-C1 60A at DC 250V

:: Ordering Information



■ Table

Model Number	Rated current(A)	Order Number	Weight(g/pcs)	QT' Y/box(pcs)	Approved
SB-C1	1A	1-SB-01	24	20	      
	2A	1-SB-02			
	3A	1-SB-03			
	4A	1-SB-04			
	5A	1-SB-05			
	6A	1-SB-06			
	8A	1-SB-08			
	10A	1-SB-10			
	15A	1-SB-15			
	20A	1-SB-20			
	25A	1-SB-25			
	30A	1-SB-30			
	40A	1-SB-40			
	50A	1-SB-50			
	60A	1-SB-60			

FH-30C



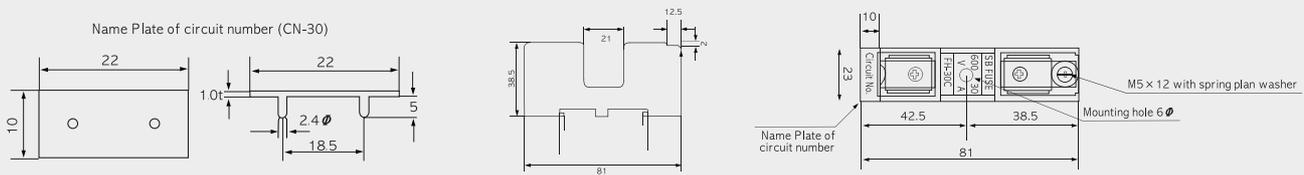
► Specifications

Fixing Method	Bottom Mounting
Application Fuse-Links	SB-C1(15Ø×50L)
Rated Voltage	AC 600V / DC 300V
Rated Current	30A Maximum
Clip	Copper with Sn coated
Base	Poly Carbonate UL94 V0 Flammability Rating
Screws	Steel with Zn coated
Name plate of	ABS
Circuit number	

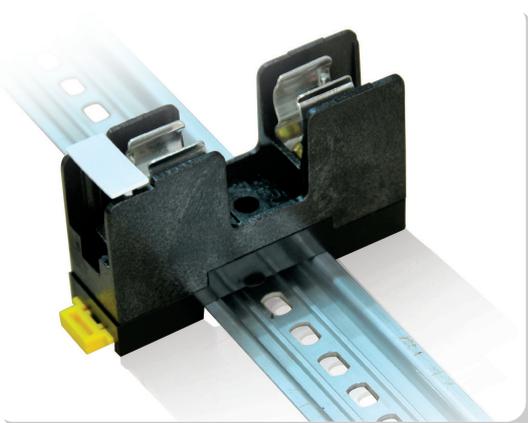
► Ordering Information

Order number	Name	Weight(g)	QTY(box)
1-FH-30C	Fuse-holder	50	30 pcs
1-CN-30	Name Plate of circuit number	0.3	100 pcs

► Drawing



FH-30D



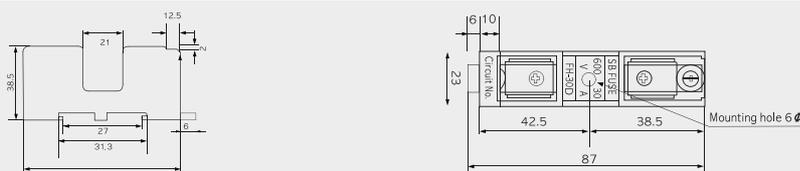
► Specifications

Fixing Method	Rail Mounting
Application Fuse-Links	SB-C1(15Ø×50L)
Rated Voltage	AC 600V / DC 300V
Rated Current	30A Maximum
Clip	Copper with Sn coated
Base	Poly Carbonate UL94 V0 Flammability Rating
Screws	Steel with Zn coated
Name plate of	ABS
Circuit number	

► Ordering Information

Order number	Name	Weight(g)	QTY(box)
1-FH-30D	Fuse-holder	62	—
1-CN-30	Name Plate of circuit number	0.3	100 pcs

► Drawing



FH-2060



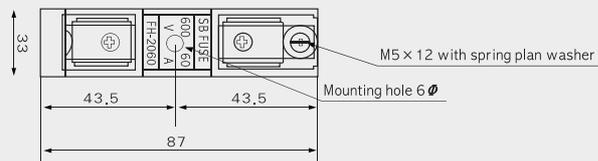
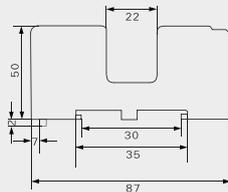
► Specifications

Fixing Method	Bottom & Rail Mounting
Application Fuse-Links	Size 20Ø×58L
Rated Voltage	AC 600V / DC 300V
Rated Current	60A Maximum
Clip	Copper with Sn coated
Terminal	Copper alloy with Sn coated
Base	Poly Carbonate UL94 V0 Flammability Rating
Screws	Steel with Zn coated

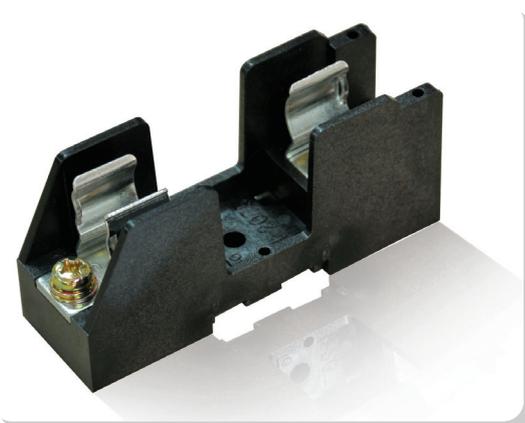
► Ordering Information

Order number	Name	Weight(g)	QTY(box)
1-FH-2060	Fuse-holder	106	—

► Drawing



FH-2075



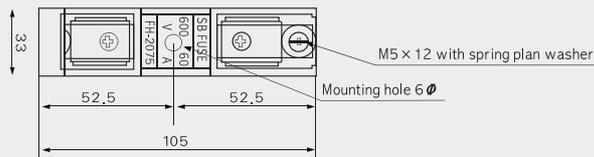
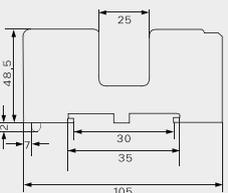
► Specifications

Fixing Method	Bottom & Rail Mounting
Application Fuse-Links	Size 20Ø×75L
Rated Voltage	AC 600V / DC 300V
Rated Current	60A Maximum
Clip	Copper with Sn coated
Terminal	Copper alloy with Sn coated
Base	Poly Carbonate UL94 V0 Flammability Rating
Screws	Steel with Zn coated

► Ordering Information

Order number	Name	Weight(g)	QTY(box)
1-FH-2075	Fuse-holder	112	10 pcs

► Drawing



FH-1550N



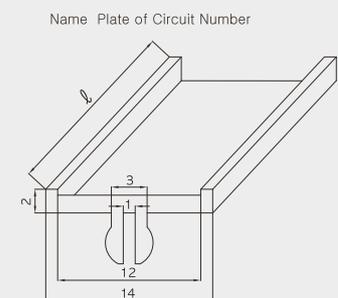
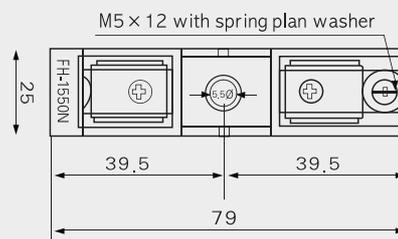
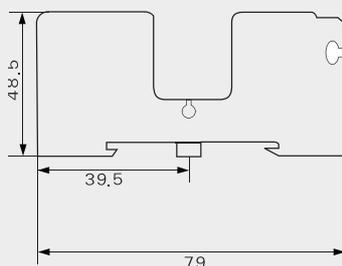
► Specifications

Fixing Method	Rail & Bottom Mounting
Application Fuse-Links	SB-C1(15Ø×50L)
Rated Voltage	AC & DC 690V
Rated Current	30A Maximum
Clip	Copper with Sn coated
Base	Poly Carbonate UL94 V0 Flammability Rating
Screws	Steel with Zn coated
Name plate of	ABS
Circuit number	

► Ordering Information

Order number	Name	Weight(g)	QTY(box)
1-FH-1550N	Fuse-holder	51g	30 pcs
1-CN-30-1P	Name Plate-30-1P		100 pcs
1-CN-30-2P	Name Plate-30-2P		100 pcs
1-CN-30-3P	Name Plate-30-3P		100 pcs

► Drawing



Pole	1P	2P	3P
∅	24.0	49.0	74.0

FH-2075N



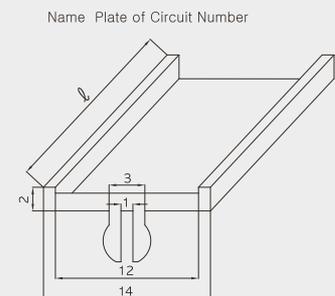
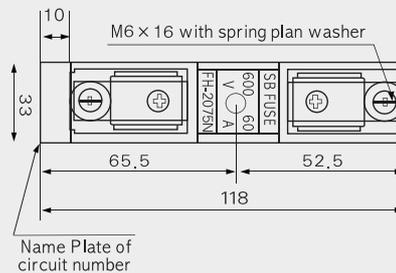
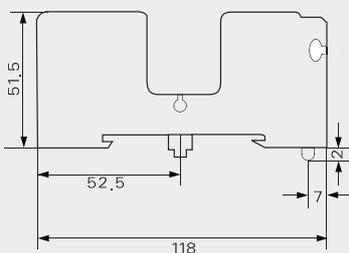
► Specifications

Fixing Method	Rail & Bottom Mounting
Application Fuse-Links	SB-C1(20Ø×75L)
Rated Voltage	AC 690V / DC 300V
Rated Current	60A Maximum
Clip	Copper with Sn coated
Terminal	Copper alloy with Sn coated
Base	Poly Carbonate UL94 V0 Flammability Rating
Screws	Steel with Zn coated
Name plate of Circuit number	ABS

► Ordering Information

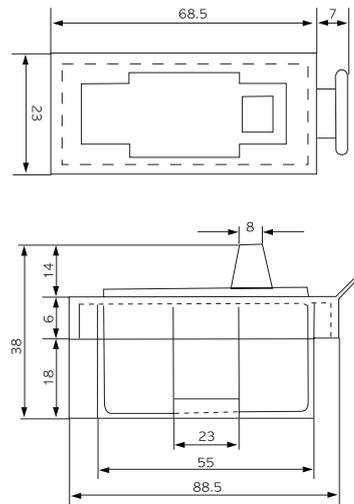
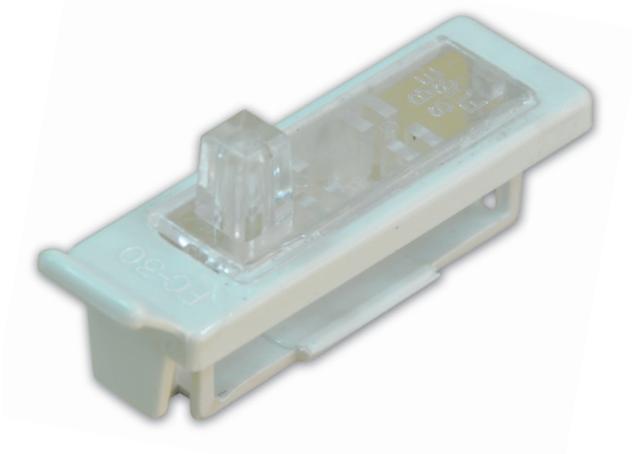
Order number	Name	Weight(g)	QTY(box)
1-FH-2075N	Fuse-holder	126g	10 pcs
1-CN-60-1P	Name Plate-60-1P		100 pcs
1-CN-60-2P	Name Plate-60-2P		100 pcs
1-CN-60-3P	Name Plate-60-3P		100 pcs

► Drawing



Pole	1P	2P	3P
∅	32.0	65.0	97.0

FC-30 (Non Indicating type Fuse-Cover)



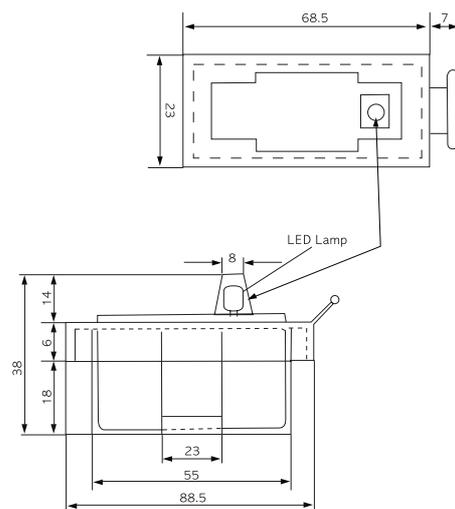
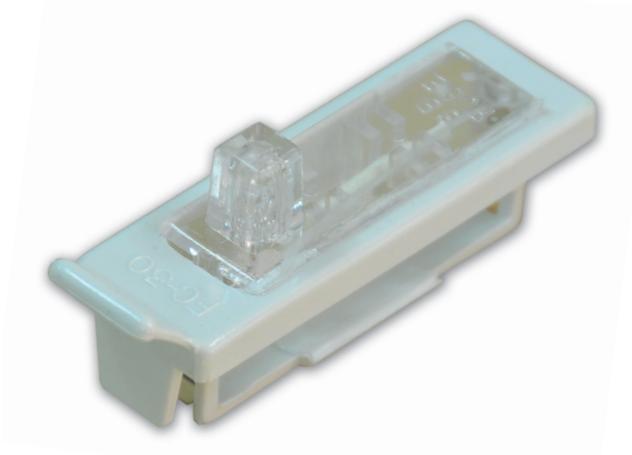
► Specifications

Application Fuse-Links SB-C1(15Ø×50L)

Application Fuse Holder FH30C & 30D

Base Poly Carbonate
UL94 V0 Flammability Rating

FC-30i (Indicating type Fuse-Cover)



► Specifications

Application Fuse-Links SB-C1(15Ø×50L)

Application Fuse Holder FH30C & 30D

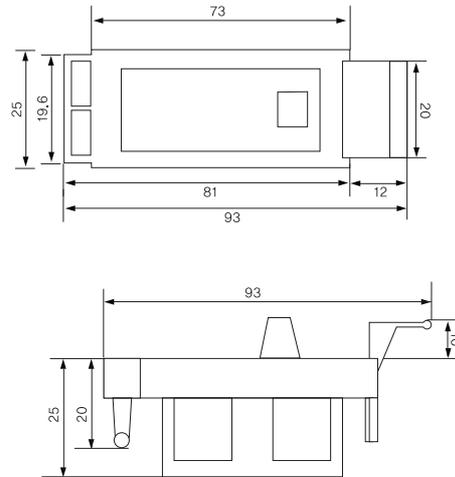
Base Poly Carbonate
UL94 V0 Flammability Rating

Indicator LED Lamp

► Ordering Information

Order number	Name	Weight(g/pc's)	QTY(box)
1-FC-30	Fuse-cover(Non indicator)	10	30 pcs
1-FC-30i	Fuse-cover(With indicator)	11	30 pcs

FC-1550N (Non Indicating type Fuse-Cover)



FH-1550N + FC1550N

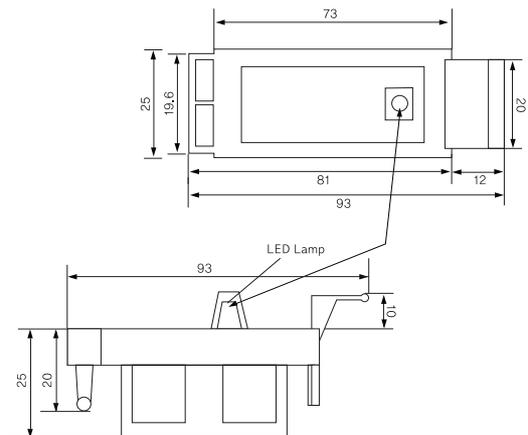
► Specifications

Application Fuse-Links SB-C1(15Ø×50L)

Application Fuse Holder FH1550N

Base Poly Carbonate
UL94 V0 Flammability Rating

FC-1550N i (Indicating type Fuse-Cover)



FH-1550N + FC1550Ni

► Specifications

Application Fuse-Links SB-C1(15Ø×50L)

Application Fuse Holder FH1550N

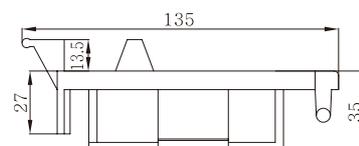
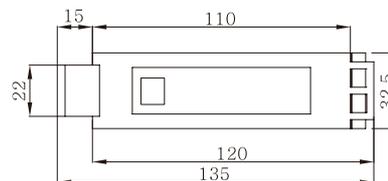
Base Poly Carbonate
UL94 V0 Flammability Rating

Indicator LED Lamp

► Ordering Information

Order number	Name	Weight(g/pc' s)	QTY(box)
1-FC-1550N	Fuse-cover(Non indicator)	13	30 pcs
1-FC-1550N i	Fuse-cover(With indicator)	20	30 pcs

FC-2075N (Non Indicating type Fuse-Cover)



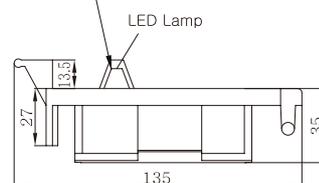
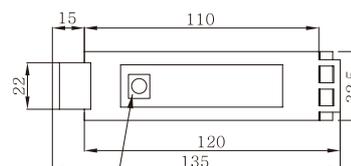
► Specifications

Application Fuse-Links SB-C1(20Ø×35L)

Application Fuse Holder FH2075N

Base Poly Carbonate
UL94 V0 Flammability Rating

FC-2075N i (Indicating type Fuse-Cover)



► Specifications

Application Fuse-Links SB-C1(20Ø×35L)

Application Fuse Holder FH2075N

Base Poly Carbonate
UL94 V0 Flammability Rating

Indicator LED Lamp

► Ordering Information

Order number	Name	Weight(g/pc's)	QTY(box)
1-FC-2075N	Fuse-cover(Non indicator)	38	10 pcs
1-FC-2075N i	Fuse-cover(With indicator)	42	10 pcs

FP-36 (Fuse-Puller)



► Specifications

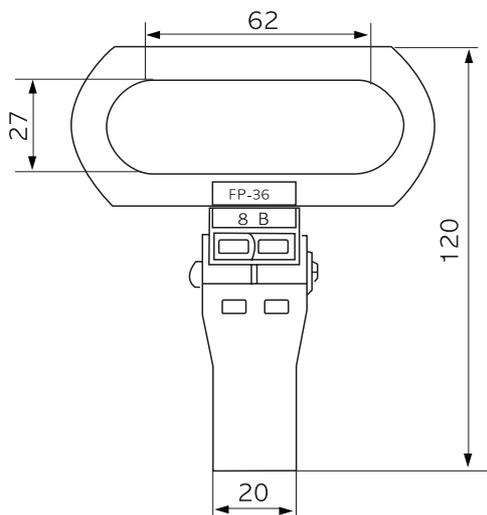
Application Fuse-Links SB-C1(15Ø×50L, 20Ø×75L)

Base ABS
UL 94 V0 Flammability Rating

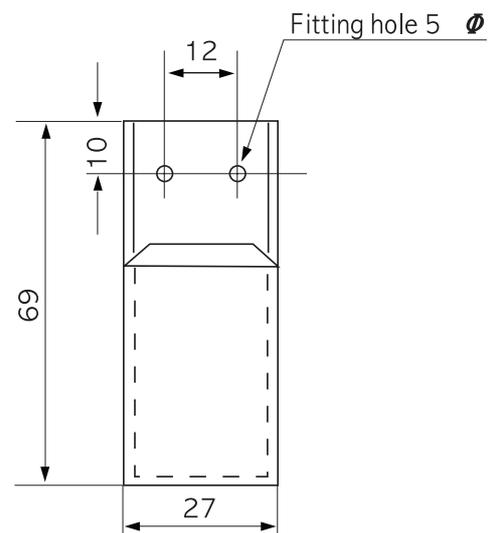
Clip & Screw Steel with Zn Coated

Spring Stainless Steel

► Fuse-puller(FP-36)



► Clip(P-30)



► Ordering Information

Order number	Name	Weight(g/pc' s)	QTY(box)
1-FP-36	Fuse-puller	72	10 pc' s
1-P-30	Clip	59	-