

Introduction

Innovation and product development through inhouse Research & Development is a continuous process at Standard. Standard, an ISO 9001 : 2000 company presents Industrial HBC Fuselinks.

Standard Fuselinks are capable of interrupting a very high short circuit current upto 80kA and conforms to IS : 13703-1&2 /IEC : 269.

Applications

1. Resistive Load - Current rating of Fuselinks should not be less than the full load current of the circuit.
2. Inductive Load (Motors/Transformers) - Fuselinks should be selected by considering starting transients. For selection, the table below can be referred.

Fuse Selection Table For Motors

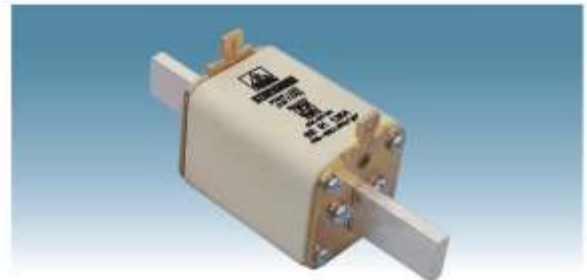
Direct on Line Start		Star Delta Start	
Motor Rating kW/HP, 415V, 3ph, 50Hz	Recommended STANDARD's Fuse Link (A)	Motor Rating kW/HP, 415V, 3ph, 50Hz	Recommended STANDARD's Fuse Link (A)
0.36/0.5	4	1.5/2	4
0.55/0.75	4	2.2/3	6
0.75/1	6	3.7/5	10
1.1/1.5	6	5.5/7.5	16
1.5/2	10	7.5/10	20
2.2/3	16	9.3/12.5	25
3.7/5	20	11/15	25
5.5/7.5	25	15/20	32
7.5/10	25	18.5/25	50
9.3/12.5	32	22/30	50
11/15	50	30/40	63
15/20	63	37/50	80
18.5/25	80	45/60	100
22/30	100	55/75	100
30/40	125	75/100	160
37/50	125	90/125	160
45/60	160	110/150	200
55/75	160	132/180	250
75/100	200	160/215	315
90/125	250	200/270	400
110/150	315	250/335	400
132/180	400	-	-
160/215	400	-	-
200/270	500	-	-
250/335	500	-	-

Salient Features

- ✎ **Range :**
2A-630A in Bolted Type.
6A-630A in DIN Type.
4A-63A in Cylindrical Type.
- ✎ Rated Breaking Capacity 80 KA of the fuse links at 415V.
- ✎ Reduced electromagnetic stress as a result of low cut off current to protect device adequately.
- ✎ Reduced thermal stress because of lower let through fault energy to eliminate mechanical damages.
- ✎ Reduced power consumption because of low watt losses.
- ✎ Suitable for motor starting and switching ON power transformer due to superior surge withstand capability.
- ✎ Tamper proof characteristic.
- ✎ Good discrimination between major and minor fuse rating.
- ✎ There is no emission of gas or flames in operation.
- ✎ Very economical protection device.
- ✎ Breaking range & Utilization category-gG.
- ✎ Interchangeability with all the compatible brands.

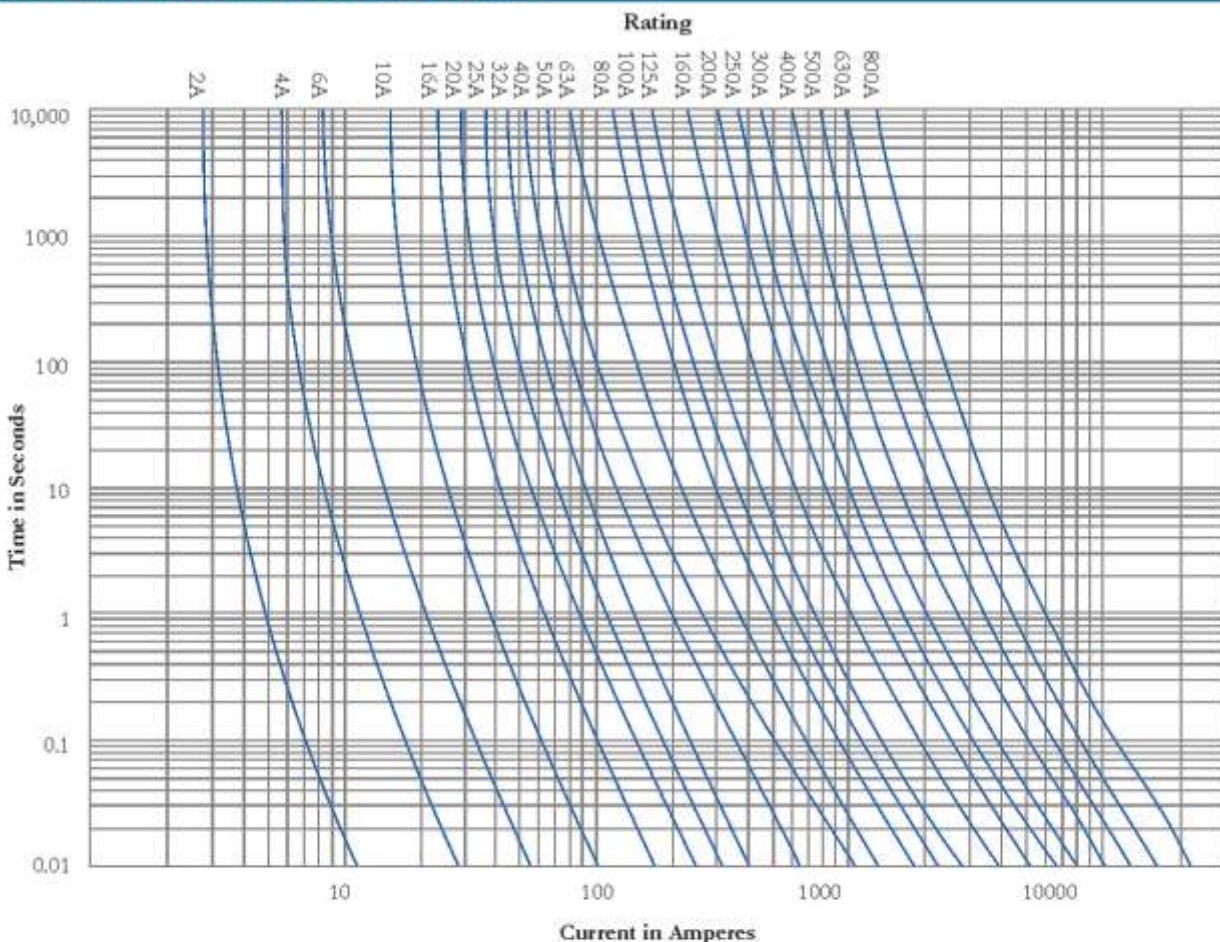


HBC Fuselinks Bolted Type



HBC Fuselinks DIN Type

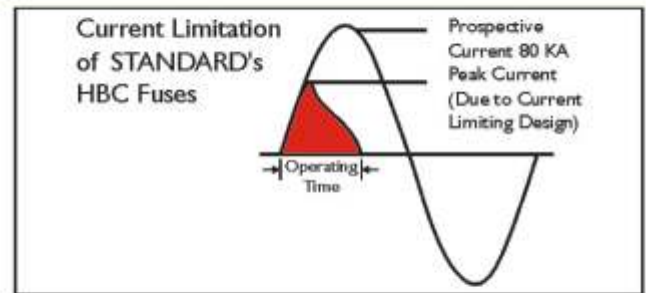
Time Current Characteristic Curve



Graph Explanation : If a 10 Amp. HRC fuse is used, it will cut off the current according to level of over current which passes through it e.g. for 100 Amp. current -0.01 second and as current decrease cut off time will increase.

Current Limitation

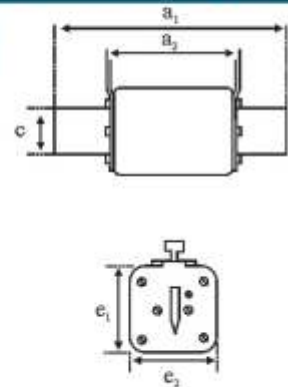
Standard Fuselinks are current limiting type resulting in reduced electromagnetic stress to protect device adequately. A current limiting protective device cuts off a short circuit current in less than one half cycle and that too before it reaches its total peak prospective current. Thus unfavourable effects of the short circuit on the switchgear are prevented.



DIN/KNIFE Knife Type Fuse Links

Dimensional Details (in mm)

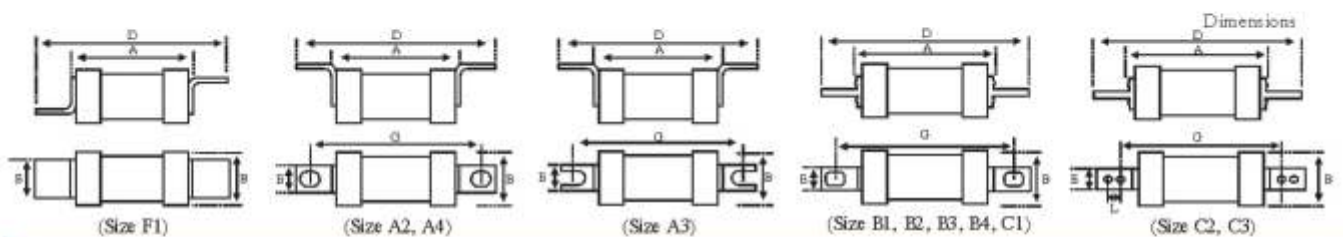
IS Size	Rating (Amp.)	Type	a ₁	a ₂	c	e ₁	e ₂
00	6, 10, 16, 20, 25, 32, 50, 63, 80, 100, 125, 160	CD00 6 to 160A	79	49.3	15	43	28.5
01	32, 50, 63, 80, 100, 125, 160, 200, 250, 315	CD01 32 to 315A	137	67	20.1	44	44
02	250, 315, 350, 400	CD02 250 to 400A	150	66.5	25	54.5	54.5
03	315, 425, 500, 630	CD03 315 to 630A	152	68.2	32	69.5	69.5



Bolted Type Fuse Links

Dimensional Details (in mm)

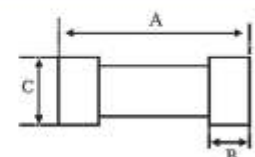
IS Size	Rating (Amp.)	Type	A	B	D	E	G	L
F-1	2,4,6,10, 16,20,25,32	SNS 2 to 32A	33.5	14	55	11	-	-
A-2	6,10,16, 20,25,32	STIA 6 to 32A	56	22	84.5	9	73	-
A-3	36,50,63	STIS 36 to 63A	55	22	90	13	73	-
A-4	80,100,125	STCP 80 to 125A	60	24	109	19	94	-
B-1	80,100,125A	STC 80 to 125A	57	24	134	19	111	-
B-2	125,160,200	STF 125 to 200A	64	33	135	19	111	-
B-3	250, 300-315	STKF 250 to 315A	72.6	39.5	135	25.4	111	-
B-4	400	STMF 400A	75.5	51.2	134	25.4	111	-
C-1	400	STTS 400A	75.5	51.2	157	25.4	133	-
C-2	500, 630	STTS 500 to 630A	72	73	165	25.4	133	-
C-2	400, 500, 630	STTM 400 to 630A	72	73	208	25.4	133	25.4



Cylindrical Type Fuse Links

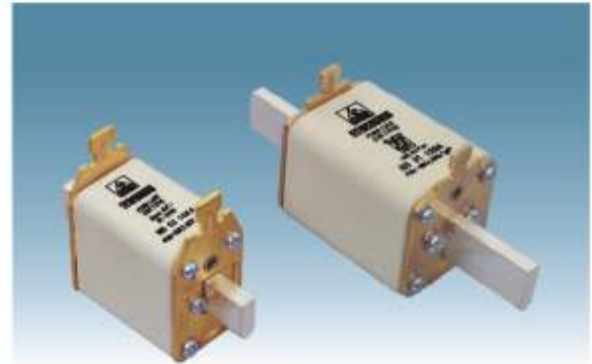
Dimensional Details (in mm)

Rating (A)	Type	A	B	C(φ)
4,6,10,16,20, 25,32,40,50,63	SRH4-63	50.5	9.8	14.3



KNIFE (DIN) TYPE

Rating	Type	Cat No.
6, 10, 16, 20, 25, 32, 50, 63, 80, 100, 125, 160	CD 00	HSCD00006-160
32, 50, 63, 80, 100, 125, 160, 200, 250	CD 01	HSCD01032-250
200, 250, 315, 400	CD 02	HSCD02200-400
425, 500, 630	CD 03	HSCD03425-630



BOLTED TYPE

Rating	Type	Cat No.
2, 4, 6, 10, 16, 20, 25, 32	SNS	HSNS00002-32
6, 10, 16, 20, 25, 32	STIA	HSTIA00006-32
35, 50, 63	STIS	HSTIS0035-63
80, 100, 125	STC	HSTC00080-125
80, 100, 125	STCP	HSTCP0080-125
125, 160, 200	STF	HSTF00125-200
250, 300, 315	STKF	HSTKF0250-315
400	STMF	HSTMF0400
400, 500, 630	STTS	HSTTS0400-630
400, 500, 630	STTM	HSTTM0400-630
630	STLM	HSTLM0630



CYLINDRICAL TYPE

Rating	Type	Cat No.
4, 6, 10, 16, 20, 32, 40, 50, 63	SRH	HSRH00004-63



Feature

1. Range : OFCB/OBCB 20, 32, 63 & 100A, SHFB 6-63A. Conforms to IS : 13703 & IEC : 269 & having short circuit withstanding capacity upto 80kA.
2. Front/Busbar Type Fuse Holders are suitable for bolted design HBC Fuse Links from 2A to 100A. SHFB type fuse holders are suitable for cylindrical cap HBC fuse links of size 14x51 upto 63A.
3. Carrier contract spin-riveted and fitted in the moulding to ensure perfect alignment with the base contacts.
4. Brass base contact block with adequate cable hole to accommodate aluminum conductors.
5. Advisable to use crimping type socket or soldering socket when connecting aluminum cable.
6. Aluminum conductors can also be directly pinched in the terminal bore of the fuse holder by adopting the following procedure:-
 - a) The individual stand of the cable should be spared-out and cleaned with wirewool or emery paper. The cleaned surface should be coated with a thin layer of suitable oxide inhibiting grease.
 - b) The cables may be terminated using the right size of screw driver for the grub screws and tightened fully.
 - c) Over tightening or use of bigger screw driver should be avoided.
 - d) At regular intervals tightness may be checked with the right screw driver.
 - e) Should the conductors be disturbed from the terminal bore, it is desirable to remake the connections.



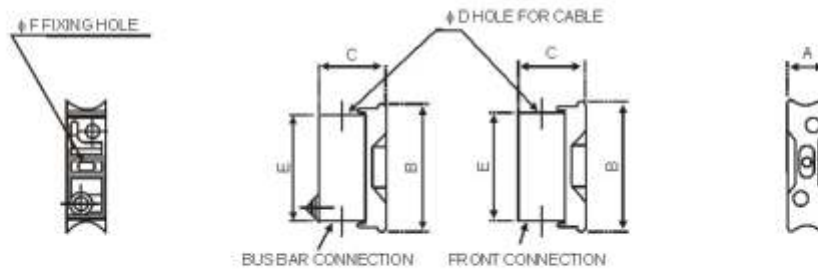
Features

Rating Amps.	Execution	Type	Fuse Link as per IS : 13703	A	B	C	D	E	F	G	H	J
16	Front Connection/ Bus Bar Type	OFCB/OBCB 16	A1 (Offset) SNS Type	25	82.5	42	5	67	5	-	-	-
32	Front Connection/ Bus Bar Type	OFCB/OBCB 32	A2	32	98.5	73	6.3	66	5.5	46	12.5	6.5
63	Front Connection/ Bus Bar Type	OFCB/OBCB 63	A3	35	105	73	8	70.5	5.5	47	12.5	6.5
100	Front Connection/ Bus Bar Type	OFCB/OBCB 100	A4	48	130	94	12	92.0	7.5	54	19	22
6-63	Front Connection	SHFB 6-63	'14x51' (Size)	25.5	83	45	10	67.0	4.5	-	-	-

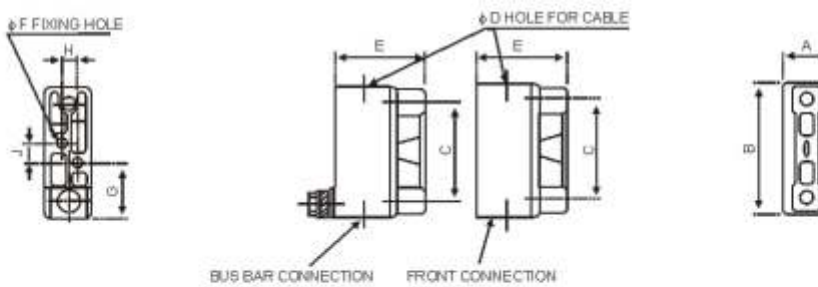
General Tolerance ± 1.5

Dimensions (in mm)

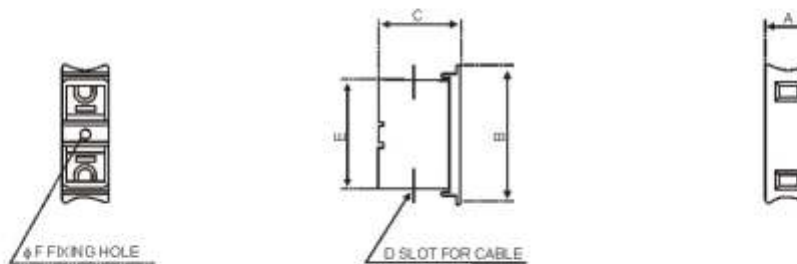
OFCB/OBCB 20A



OFCB/OBCB 32, 63, 100A



SHFB 6-63A



OFCB/OBCB Type

Rating	Cat No.
20	BSONS*020
32	BSTIA*032
63	BSTIS*063
100	BSTCP*100

* H for Front Connection
B for Bus Bar Connection








SHFB Type

Rating	Cat No.
32	BSTCP0032
63	BSTCP0063



Features

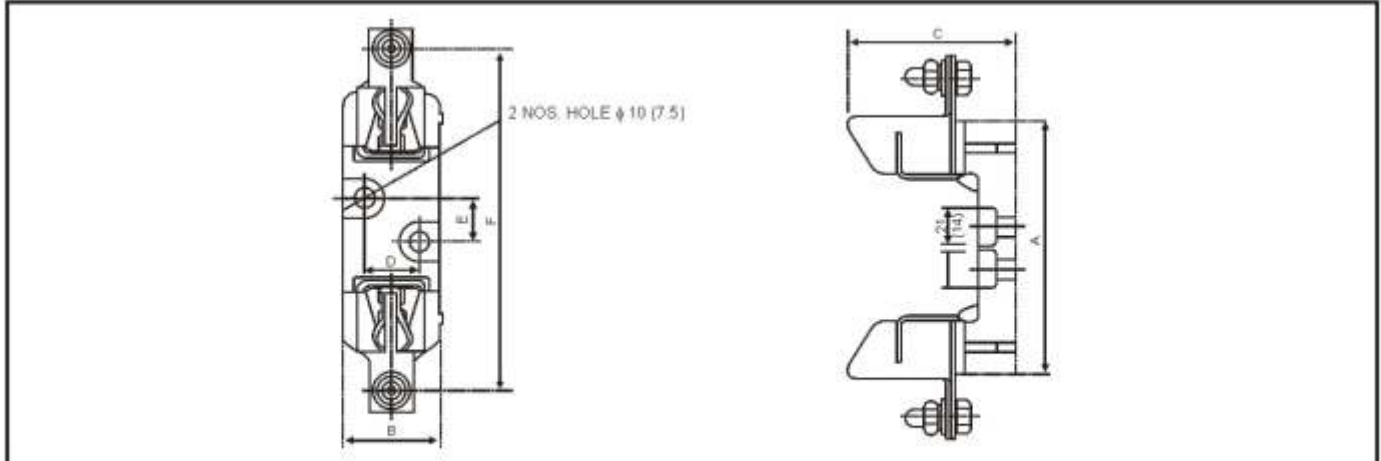
-  Size : 00, 01, 02 and 03.
Rating : 125, 250, 400 and 630A.
-  Conforms to IS : 13703 & IEC : 269 & having short circuit withstanding capacity upto 80kA.
-  Insulated DMC bases having high impact strength, anti-tracking properties, non-inflammable and non-hygroscopic.
-  Silver plated copper contacts for better conductivity and low temperature rise.
-  Special steel springs for better grip and uniform contact pressure.



Dimensions (in mm)

Rating Amps.	Cat. No.	A	B	C	D	E	F	Bolt
125	SFB 00-125	130	33.5	61	-	25	105	M 8
250	SFB 01-250	150	56	83	30	25	172	M 10
400	SFB 02-400	150	56	94	30	25	197	M 10
630	SFB 03-630	150	56	104	30	25	208	M 12

General Tolerance $\pm 1.5\text{mm}$



SHFB Type

Rating	Cat No.
6-125	BSC00O125
32-250	BSC01O250
250-400	BSC02O400
315-630	BSC03O630

