



Fuse Link



Technical Information

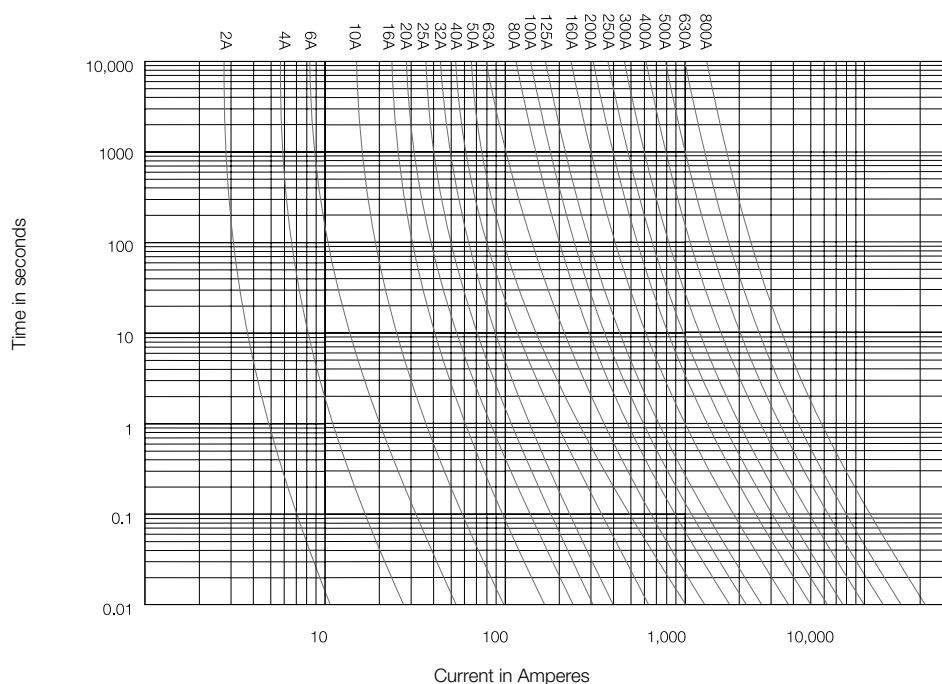


Type	BS (Bolted Connection)	DIN (Blade Contact)	RH (Cylindrical Cap)
Rated Voltage	415 V	415 V	415 V
Rated Current	2 A - 800 A*	6 A - 630 A*	4 A - 63 A*
Rated Frequency	50 Hz	50 Hz	50 Hz
Breaking Capacity	80 kA	80 kA	80 kA
Utilization Category	"gG"	"gG"	"gG"
Non Fusing Current	1.25 In	1.25 In	1.25 In
Fusing Current	1.6 In	1.6 In	1.6 In
Size	F-1, A-2, A-3, A-4 B-1, B2, B-3, B-4 C-1, C-2, C-3	CD-000, CD-00, CD-1, CD-2, CD-3	--
Cut-off Characteristics	As per specification	As per specification	As per specification
Material of Body	Steatite ceramic	Steatite ceramic	Steatite ceramic
Material of Filler	Silica Quartz	Silica Quartz	Silica Quartz
Material of Blade	Brass (6 A - 63 A) Copper (80 A - 630 A)	Brass (6 A - 400 A) Copper (425 A - 630 A)	--
Indication of Blown Fuse	--	Provided	--

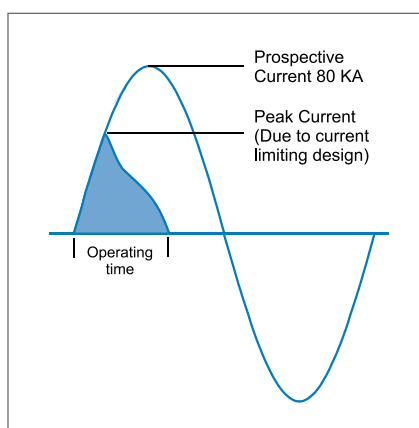
* Current Ratings : 2 A, 4 A, 6 A, 10 A, 16 A, 20 A, 25 A, 32 A, 40 A, 50 A, 63 A, 80 A, 100 A, 125 A, 160 A, 200 A, 250 A, 315 A, 350 A, 400 A, 425 A, 500 A, 630 A, 800 A.



Time Current Characteristic Curve



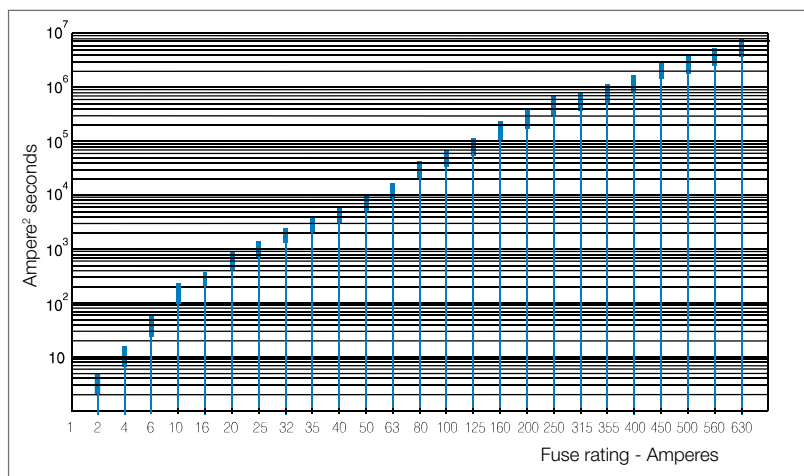
Current Limitation



Fuses are of current limiting design & hence the short circuit currents cannot rise to the full prospective value owing to the very short clearing time. Adverse effects of the short circuit on the switchgear are thus prevented.



Discrimination



Total operating I^2t

Pre-arcing I^2t

Positive discrimination under short-circuit conditions is achieved when the higher rated fuse link is unaffected by the fault current, which can cause the lower rated fuse link to operate. The total operating I^2t let through by the lower rated fuse link must be less than the prearcing I^2t of the higher fuse link.

The I^2t characteristics of fuse links with a prospective current upto 80 kA, 0.15 power factor and at 415 Vac, is shown for quick selection.

Fuse Selection Table for Motors

Direct On Line Starting			Star Delta Starting		
Motor Rating 3 ϕ , 415 V, 50 Hz		Recommended Fuse Link	Motor Rating 3 ϕ , 415 V, 50 Hz		Recommended Fuse Link
kW	HP	(A)	kW	HP	(A)
0.37	0.5	4	2.2	3	6
0.55	0.75	4	3.7	5	10
0.75	1	6	5.5	7.5	16
1.1	1.5	6	7.5	10	20
1.5	2	10	9.3	12.5	25
2.2	3	16	11	15	25
3.7	5	20	15	20	32
5.5	7.5	25	18.5	25	50
7.5	10	25	22	30	50
9.3	12.5	32	30	40	63
11	15	50	37	50	80
15	20	63	45	60	100
18.5	25	80	55	75	100
22	30	100	75	100	160
30	40	125	90	125	160
37	50	125	110	150	200
45	60	160	132	180	250
55	75	160	160	215	315
75	100	200	200	270	400
90	125	250	250	335	400
110	150	315			
132	180	400			
160	215	400			
200	270	500			
250	335	500			



Ordering Information



Bs Type with Bolted Connection

Current Rating (A)	Type	Cat. No.
2, 4, 6, 10, 16, 20, 25, 32	Offset	IHHNS00002-032
2, 4, 6, 10, 16, 20, 25, 32	Offset	IHHTIA0002-032
36, 40, 50, 63	Offset	IHHTSS0036-063
80, 100, 125	Offset	IHHTSD0080-125
80, 100, 125	Central	IHHTSDC080-125
125, 160, 200, 250	Central	IHHTSF0125-250
225, 250, 300, 315	Central	IHHTSK0225-315
400	Central	IHHTSMF400
400	Central	IHHTSMS400
400, 500	Central	IHHTTS0400-500
400, 500	Central	IHHTTM0400-500
630	Central	IHHTLM0630
800	Central	IHHTLM0800



DIN Type with Blade Contact

Current Rating (A)	Type
6, 10, 16, 20, 25, 32, 40 50, 63, 80, 100	IHHCD11006-100
6, 10, 16, 20, 25, 32, 40 50, 63, 80, 100	IHHCD00006-100
125	IHHCD00125
160	IHHCD00160
32, 40, 50, 63, 80, 100, 125	IHHCD01032-125
160, 200	IHHCD01160-200
250	IHHCD01250
200, 250, 315	IHHCD02200-315
350, 400	IHHCD02350-400
425	IHHCD03425
500, 630	IHHCD03500-630

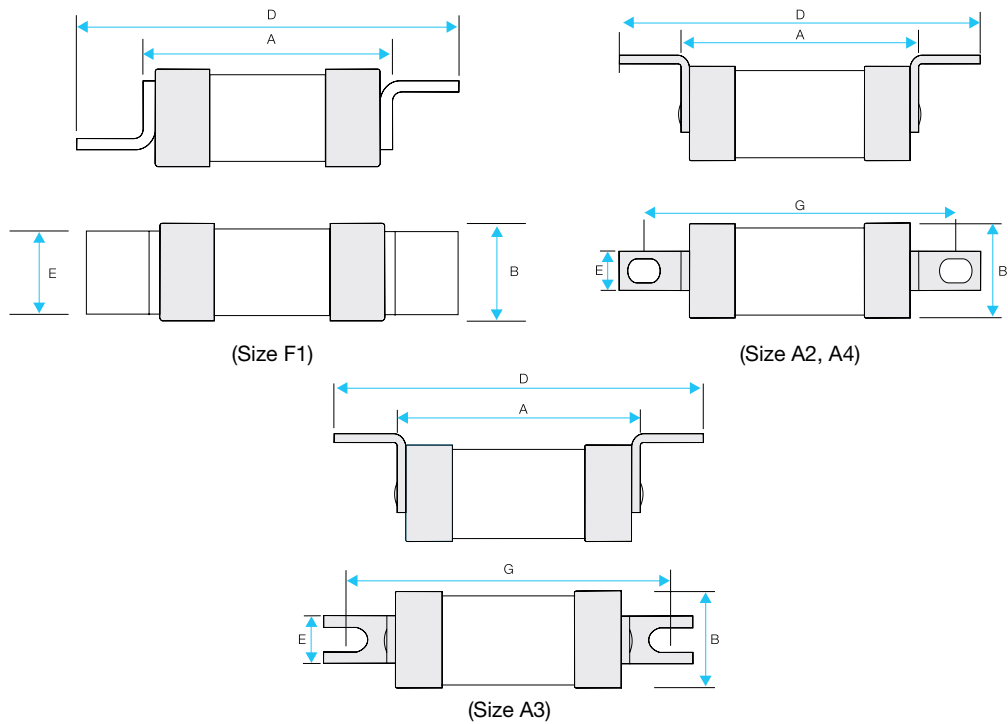


RH Type with Cylindrical Cap

Current Rating (A)	Type
2, 4, 6, 10	IHHRH00002-10
16, 20, 25, 32, 40	IHHRH00016-40
50	IHHRH00050
63	IHHRH00063

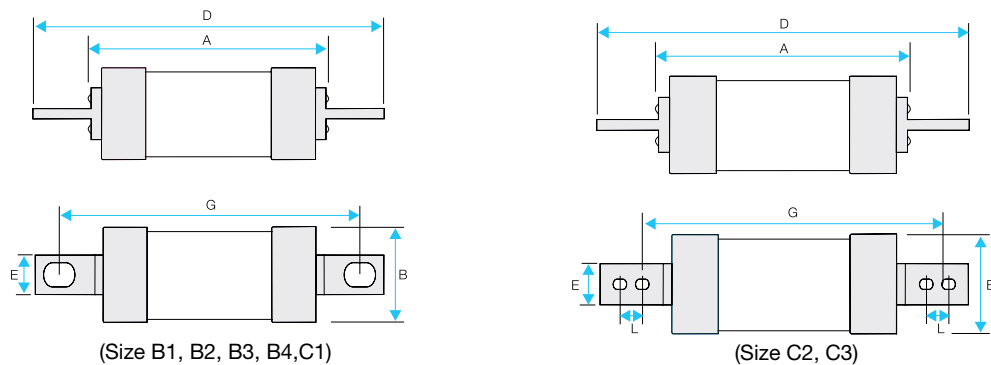


Dimensions (in mm)



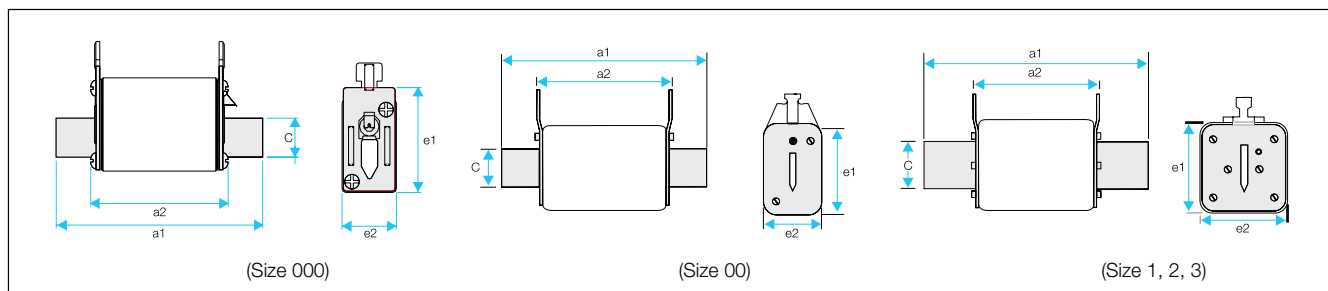
Dimensions (in mm) - BS Type with Bolted Connections

IS Size	Rating (A)	Cat. No.	A	B	D	E	G	L
F-1	2, 4, 6, 10, 16, 20, 25, 32	IHHNS00002-032	33.5	13.4	60	11.5	-	-
A-2	2, 4, 6, 10, 16, 20, 25, 32	IHHTIA0002-32	55	22	84.6	9	73	-
A-3	36, 40, 50, 63	IHHTSS0036-63	55	22	89.6	13	73	-
A-4	80, 100, 125	IHHTSD0080-125	56.5	24	109	19	94	-



Dimensions (in mm) - BS Type with Bolted Connections

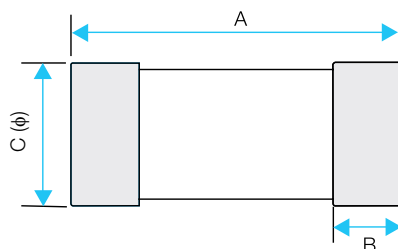
IS Size	Rating (A)	Cat. No.	A	B	D	E	G	L
B-1	80, 100, 125	IHHTSDC080-125	57	24	134	19	111	-
B-2	125, 160, 200, 250	IHHTSF0125-250	64	33	135	19	111	-
B-3	225, 250, 300-315	IHHTSK0225-315	72.6	39.5	134	25.4	111	-
B-4	400	IHHTSMF400	74.5	51.2	134	25.4	111	-
C-1	400	IHHTSMS400	75	51.2	156	25.4	133	-
C-2	400, 500	IHHTTS0400-500	72.5	73	164	25.4	133	-
C-2	400, 500	IHHTTM0400-500	72	73	208	25.4	133	25.4
C-2	630	IHHTLM0630	72	73	208	25.4	133	25.4
C-3	800	IHHTLM0800	72	73	208	25.4	133	25.4



Din Type with Blade Contact

IS Size	Rating (A)	Cat. No.	a ₁	a ₂	C	e ₁	e ₂
000	6,10,16, 20,25,40 32,50,63,80,100	IHHCD11***	78.5	52.6	15	40	20
00	6,10,16, 20,25,40 32,50,63,80,100,125,160	IHHCD00***	78.5	52.6	15	49	29.4
1	32,40,50,63,80,100 125,160,200,250	IHHCD01***	137	72	20	46	46
2	200,250,315,350,400	IHHCD02***	150	72	25	57	57
3	425,500,630	IHHCD03***	150	72	35	72	72

*** Rating



RH Type with Cylindrical Cap

Rating (A)	Cat. No.	A	B	C(φ)
2, 4, 6, 10, 16, 20, 25 32, 40, 50, 63	IHHRH	50.5	9.8	14.3

HiBreak range of low voltage HRC based DIN fuse base have been designed to meet the requirements set for modern industrial installations & electrical power plants. Their breaking capacity is sufficient even for the highest short circuit levels, which are normally reached in practice.

DIN Type Fuse Base - Size 00, 1, 2 & 3 are designed for DIN Type Fuse Links upto 630 A.

The Modular type Fuse Base is available in single pole. Two or more single pole can be connected side by side (straight or diagonally) into 2 pole and 3 pole configuration as per the customer requirement / availability of space.

Features:

- Fibre glass reinforced Thermoplastic / Thermoset material provide excellent mechanical, thermal & electrical properties.
- Ease and Speed of installation - by Screws or on DIN Rail.
- Snap on mounting of phase barriers.

Range :

100 A to 630 A.

Specification :

IEC 60269-1 & 2-1 /
IS 13703-1 & 2-1.

Type:

- Modular
- Fixed





HiBreak DIN Fuse Bases