

HHOZ-B

High Voltage Fuses Special Purpose

Application Range Types

Fuses for protection of oil insulated transformer mains

SIBA HHOZ-B series of special purpose fuses are current-limiting "Back-Up" class for protection use inside of oil filled transformers. These fuses provide space and cost savings in distribution transformer substations while also fulfilling all requirements regarding oil tightness during the manufacturing phase of the transformer and also during its service operation.

The fuses incorporate M8 threaded holes the ends of the contact caps for easy installation inside the transformer. The fuses are "age resistant" due to specific design of the melting elements and the use of high grade of ceramic and appropriate sealing methods. The fuses are designed for decades of reliable usage and available in voltage ranges of 12kV, 24kV and 36kV. Fuse units are also available with a striker.



Selection Guide

HHOZ-B, Current-Limiting, Back-Up,

Current ratings [A]; 6.3, 10, 16, 20, 25, 31.5, 40, 50, 63, 80, 100, 125

L1=360mm	Page	L1=440mm	Page				
12kV							
3031011.6.3 - 125	156						M8 / M8 -No Striker
3031016.6.3 - 125	156						M8 / G 1/8" w/ Striker
24kV							
3031211.6.3 - 80	158						M8 / M8 -No Striker
3031215.6.3 - 80	158						M8 / - w/ Striker
3031216.6.3 - 80	158						M8 / G 1/8" w/ Striker
36kV							
3032311.10 - 25	160	3032411.31.5 - 40	162				M8 / M8 -No Striker
3032316.10 - 25	160	3032416.31.5 - 40	162				M8 / G 1/8" w/ Striker



HHOZ-B
12kV - Rated Voltage [U_n]

High Voltage Current-Limiting Fuses

with 50N striker for use in
oil-insulated switchgear

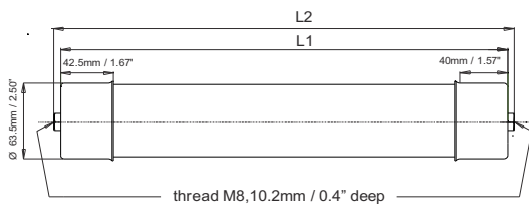
Standard(s)
IEC 60282-1



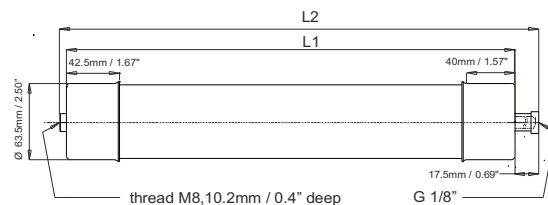
Size L1=360mm
Class
Back-Up

Rated Current I_n [A]	Article Number	Diameter D	Weight [kg/1]	Rated Breaking Current I_1 [kA]	Minimum Breaking Current I_3 [A]	Pre-arcing I^2t [A ² s]	Total I^2t @		Power Loss [W]	Cold Resistance [mΩ]
		[in/mm]					0.87 U_n [A ² s]			
L2=371mm W/O Striker										
6.3	3031011.6.3	2.50 / 63.5	2.6	63	22	45	—	360	16	—
10	3031011.10	2.50 / 63.5	2.6	63	34	75	—	560	28	—
16	3031011.16	2.50 / 63.5	2.6	63	56	250	—	2 000	28	—
20	3031011.20	2.50 / 63.5	2.6	63	70	640	—	4 800	23	—
25	3031011.25	2.50 / 63.5	2.6	63	90	1 050	—	7 500	29	—
31.5	3031011.31.5	2.50 / 63.5	2.6	63	110	1 700	—	12 000	38	—
40	3031011.40	2.50 / 63.5	2.6	63	140	2 900	—	19 000	50	—
50	3031011.50	2.50 / 63.5	2.6	63	170	5 700	—	33 000	56	—
63	3031011.63	2.50 / 63.5	2.6	63	210	10 700	—	66 600	63	—
80	3031011.80	2.50 / 63.5	2.6	63	280	17 500	—	175 000	120	—
100	3031011.100	2.50 / 63.5	2.6	63	350	41 500	—	415 000	136	—
125	3031011.125	2.50 / 63.5	2.6	63	438	56 500	—	565 000	181	—
L2=383mm With 50N Striker										
6.3	3031016.6.3	2.50 / 63.5	2.6	63	22	45	—	360	16	—
10	3031016.10	2.50 / 63.5	2.6	63	34	75	—	560	28	—
16	3031016.16	2.50 / 63.5	2.6	63	56	250	—	2 000	28	—
20	3031016.20	2.50 / 63.5	2.6	63	70	640	—	4 800	23	—
25	3031016.25	2.50 / 63.5	2.6	63	90	1 050	—	7 500	29	—
31.5	3031016.31.5	2.50 / 63.5	2.6	63	110	1 700	—	12 000	38	—
40	3031016.40	2.50 / 63.5	2.6	63	140	2 900	—	19 000	50	—
50	3031016.50	2.50 / 63.5	2.6	63	170	5 700	—	33 000	56	—
63	3031016.63	2.50 / 63.5	2.6	63	210	10 700	—	66 600	63	—
80	3031016.80	2.50 / 63.5	2.6	63	280	17 500	—	175 000	120	—
100	3031016.100	2.50 / 63.5	2.6	63	350	41 500	—	415 000	136	—
125	3031016.125	2.50 / 63.5	2.6	63	438	56 500	—	565 000	181	—

Maximum Torque 132lb•in / 15N•m



3031011



3031016

SIBA LLC

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West Caldwell, New Jersey 07006

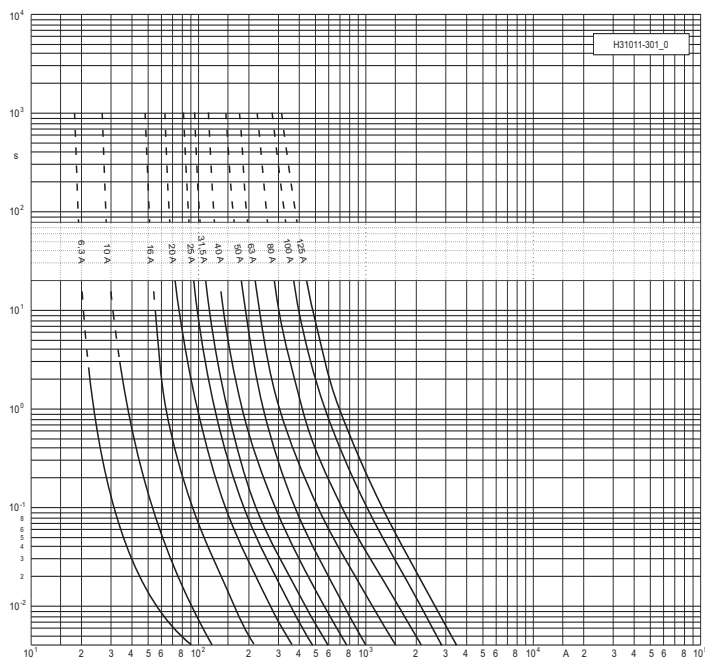
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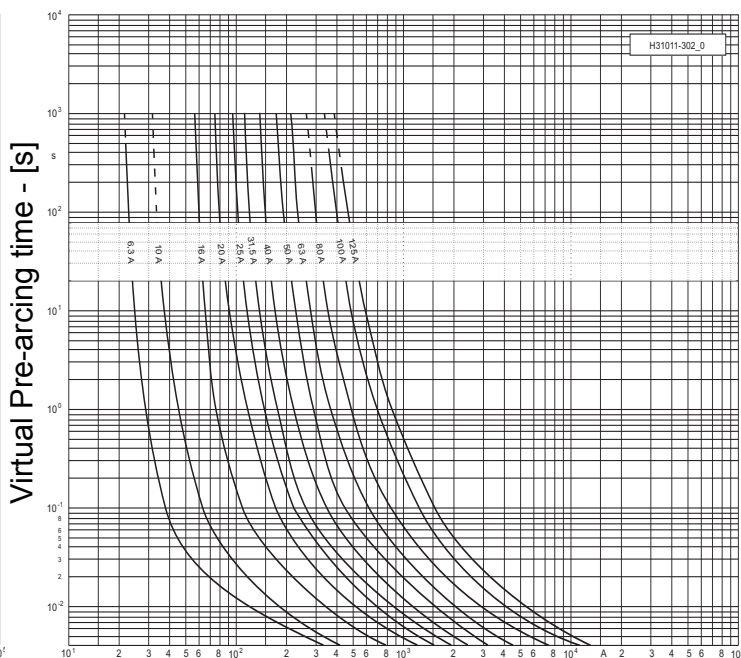
**HHOZ-B Time-Current Characteristics - Minimum Melting and Total Clearing
Cut-Off Current Diagram
Current-Limiting, Back-Up, 12kV, L1 = 360mm (6.3A - 125A)**

3031011.6.3 - 125, 3031016.6.3 - 125

Minimum Melting

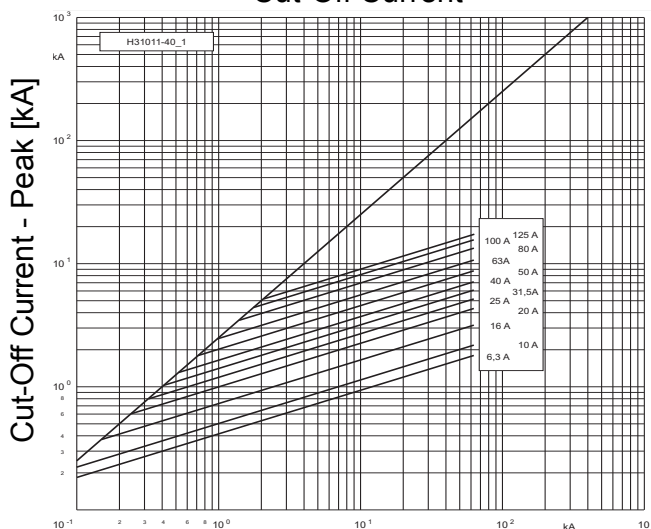


Total Clearing



R.M.S. Prospective Current [A]

Cut-Off Current



Prospective Short Circuit Current [kA] - (Symmetrical r.m.s.)

HHOZ-B
24kV - Rated Voltage[U_n]

High Voltage Current-Limiting Fuses

with 50N striker for use in
oil-insulated switchgear

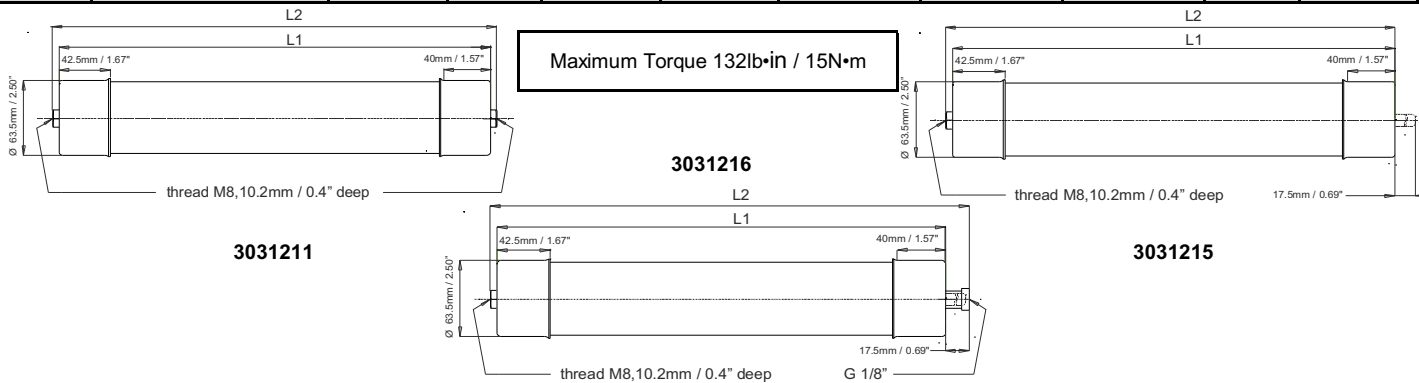
Standard(s)
IEC 60282-1

Class
Back-Up



Size L1=360mm

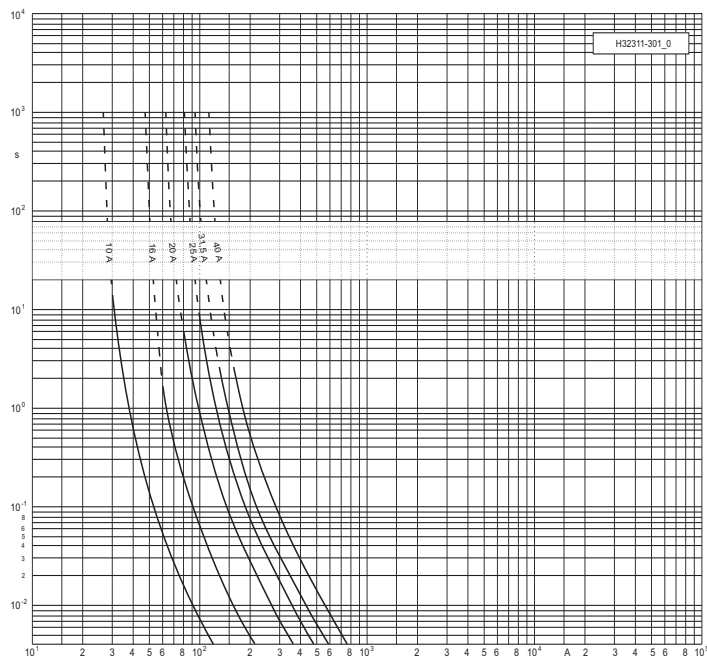
Rated Current I _n [A]	Article Number	Diameter D	Weight [kg/1]	Rated Breaking Current I ₁ [kA]	Minimum Breaking Current I ₃ [A]	Pre-arcing I ² t [A ² s]	Total I ² t @		Power Loss [W]	Cold Resistance [mΩ]
		[in/mm]					[A ² s]	0.87U _n [A ² s]		
L2=371mm W/O Striker										
6.3	3031211.6.3	2.50 / 63.5	2.6	63	25	30	—	160	30	—
10	3031211.10	2.50 / 63.5	2.6	63	35	70	—	400	54	—
16	3031211.16	2.50 / 63.5	2.6	63	56	120	—	1 200	61	—
20	3031211.20	2.50 / 63.5	2.6	63	70	550	—	5 500	28	—
25	3031211.25	2.50 / 63.5	2.6	63	95	920	—	9 200	58	—
31.5	3031211.31.5	2.50 / 63.5	2.6	63	120	1 400	—	14 000	76	—
40	3031211.40	2.50 / 63.5	2.6	63	140	2 200	—	22 000	94	—
50	3031211.50	2.50 / 63.5	2.6	63	180	4 700	—	47 000	108	—
63	3031211.63	2.50 / 63.5	2.6	63	220	8 700	—	87 600	114	—
80	3031211.80	2.50 / 63.5	2.6	63	300	15 500	—	150 000	176	—
L2=365mm With 50N Striker										
6.3	3031215.6.3	2.50 / 63.5	2.6	63	25	30	—	160	30	—
10	3031215.10	2.50 / 63.5	2.6	63	35	70	—	400	54	—
16	3031215.16	2.50 / 63.5	2.6	63	56	120	—	1 200	61	—
20	3031215.20	2.50 / 63.5	2.6	63	70	550	—	5 500	28	—
25	3031215.25	2.50 / 63.5	2.6	63	95	920	—	9 200	58	—
31.5	3031215.31.5	2.50 / 63.5	2.6	63	120	1 400	—	14 000	76	—
40	3031215.40	2.50 / 63.5	2.6	63	140	2 200	—	22 000	94	—
50	3031215.50	2.50 / 63.5	2.6	63	180	4 700	—	47 000	108	—
63	3031215.63	2.50 / 63.5	2.6	63	220	8 700	—	87 600	114	—
80	3031215.80	2.50 / 63.5	2.6	63	300	15 500	—	150 000	176	—
L2=383mm With 50N Striker										
6.3	3031216.6.3	2.50 / 63.5	2.6	63	25	30	—	160	30	—
10	3031216.10	2.50 / 63.5	2.6	63	35	70	—	400	54	—
16	3031216.16	2.50 / 63.5	2.6	63	56	120	—	1 200	61	—
20	3031216.20	2.50 / 63.5	2.6	63	70	550	—	5 500	28	—
25	3031216.25	2.50 / 63.5	2.6	63	95	920	—	9 200	58	—
31.5	3031216.31.5	2.50 / 63.5	2.6	63	120	1 400	—	14 000	76	—
40	3031216.40	2.50 / 63.5	2.6	63	140	2 200	—	22 000	94	—
50	3031216.50	2.50 / 63.5	2.6	63	180	4 700	—	47 000	108	—
63	3031216.63	2.50 / 63.5	2.6	63	220	8 700	—	87 600	114	—
80	3031216.80	2.50 / 63.5	2.6	63	300	15 500	—	150 000	176	—



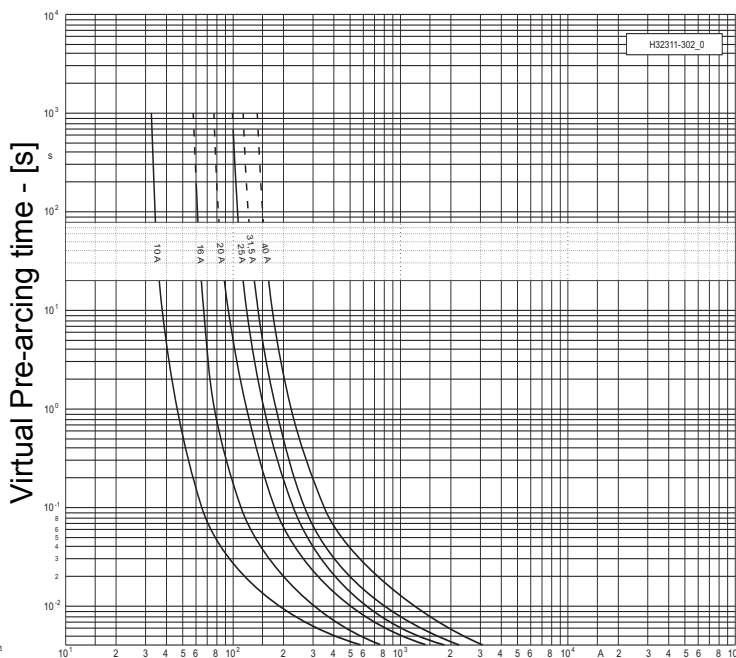
**HHOZ-B Time-Current Characteristics - Minimum Melting and Total Clearing
Cut-Off Current Diagram
Current-Limiting, Back-Up, 17.5kV, L1 = 360mm (10A - 20A)**

3031211.6.3 - 80, 3031215.6.3 - 80, 3031216.6.3 - 80

Minimum Melting

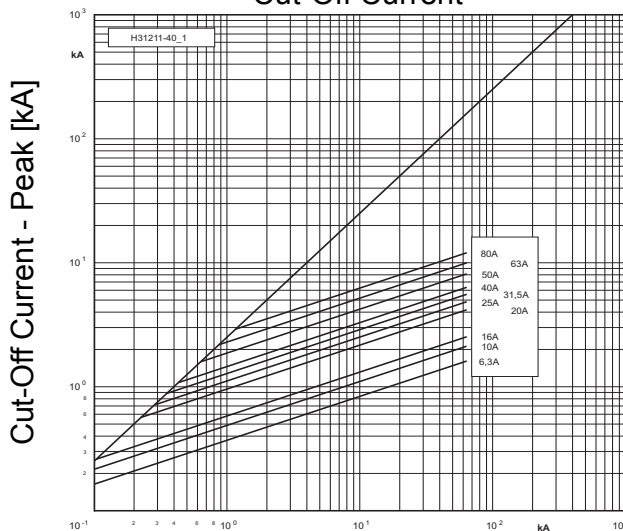


Total Clearing



R.M.S. Prospective Current [A]

Cut-Off Current



Prospective Short Circuit Current [kA] - (Symmetrical r.m.s.)

HHOZ-B
36kV - Rated Voltage [U_n]

High Voltage Current-Limiting Fuses

with 50N striker for use in
oil-insulated switchgear

Standard(s)
IEC 60282-1

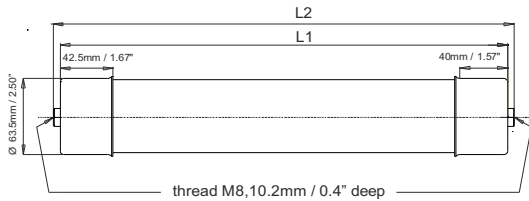


Size L1=360mm

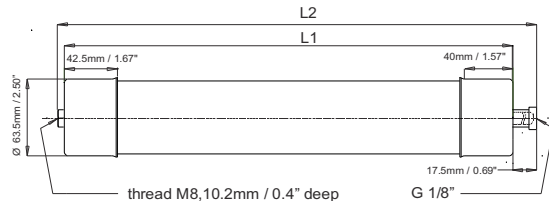
Class
Back-Up

Rated Current I_n [A]	Article Number	Diameter D [in/mm]	Weight [kg/l]	Rated Breaking Current I_1 [kA]	Minimum Breaking Current I_3 [A]	Pre-arcing I^2t [A ² s]	Total I^2t @ $0.87U_n$ [A ² s]	Power Loss [W]	Cold Resistance [mΩ]
L1=360mm/L2=371mm W/O Striker									
10	3032311.10	2.50 / 63.5	2.6	40	30	70	—	1 100	85
16	3032311.16	2.50 / 63.5	2.6	40	60	160	—	1 900	50
20	3032311.20	2.50 / 63.5	2.6	40	80	550	—	6 600	73
25	3032311.25	2.50 / 63.5	2.6	40	100	920	—	11 000	88
L1=440mm/L2=451mm W/O Striker									
31.5	3032411.31.5	2.50 / 63.5	3.6	40	130	1 400	—	16 800	132
40	3032411.40	2.50 / 63.5	3.6	40	160	2 640	—	31 700	155
L1=360mm/L2=383mm With 50N Striker									
10	3032316.10	2.50 / 63.5	2.6	40	30	70	—	1 100	85
16	3032316.16	2.50 / 63.5	2.6	40	60	160	—	1 900	50
20	3032316.20	2.50 / 63.5	2.6	40	80	550	—	6 600	73
25	3032316.25	2.50 / 63.5	2.6	40	100	920	—	11 000	88
L1=440mm/L2=463mm With 50N Striker									
31.5	3032416.31.5	2.50 / 63.5	3.6	40	130	1 400	—	16 800	132
40	3032416.40	2.50 / 63.5	3.6	40	160	2 640	—	31 700	155

Maximum Torque 132lb•in / 15N•m



3032311 / 3032411



3032316 / 3032416

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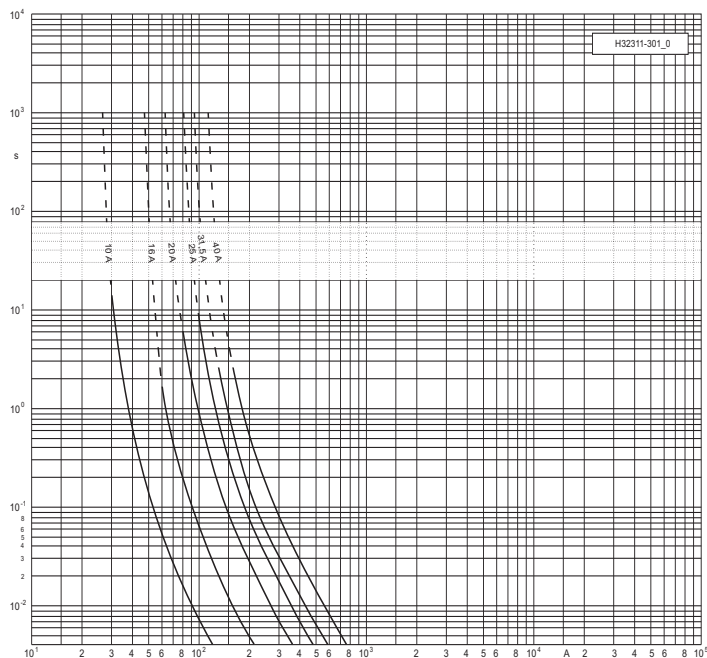
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e-mail: info@sibafuse.com
www.siba-fuses.us

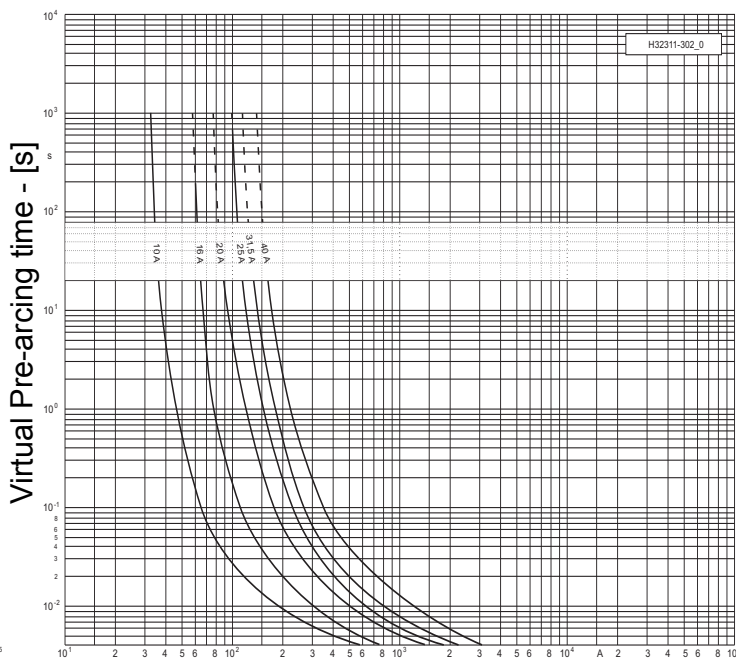
**HHOZ-B Time-Current Characteristics - Minimum Melting and Total Clearing
Cut-Off Current Diagram
Current-Limiting, Back-Up, 36kV, L1 = 360/440mm (10A - 40A)**

3032311.10 - 25, 3032411.31.5 - 40, 3032316.10 - 25, 3032416.31.5 - 40

Minimum Melting

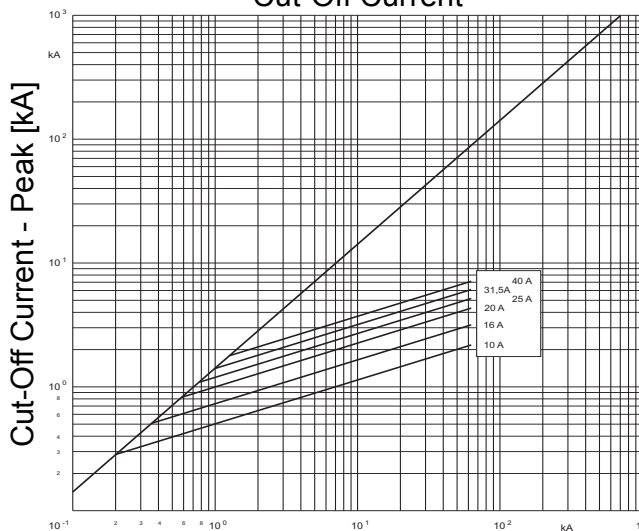


Total Clearing



R.M.S. Prospective Current [A]

Cut-Off Current



Prospective Short Circuit Current [kA] - (Symmetrical r.m.s.)