

Selection Guide

HHD-FR, DIN Style Current-Limiting, Full Range

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

E=192mm	Page	E=292mm	Page	E=367mm	Page	E=442mm	Page	E=537mm	Page
6 / 12kV									
		3000403.6.3 - 40	68						
		3001203.50 - 63	68						
		3002003.80 - 125	68						
10 / 24kV									
						3000603.6.3 - 31.5	70		
						3001403.40 - 50	70		
20 / 36kV									
								Contact SIBA	

New Products

The new **Full Range** fuses are tested according to **IEC 60282-1**, at 100% rated voltage in accordance to **ANSI/IEEE C37.41**.

Contact SIBA, 1-973-5757422. e-mail: info@sibafuse.com

E=192mm	Page	E=292mm	Page	E=367mm	Page	E=442mm	Page	E=537mm	Page
7.2kV									
						3011003.71 - 180	72		
12kV									
		3001203.6.3-63	72			3010303.90 - 125	72		
		3052203.80-100	72						



HHD-FR
6/12kV - Rated Voltage

High Voltage Current-Limiting Fuses

For air & gas-insulated switchgear,
indoor and outdoor applications

Class



Standard(s)

DIN 43 625
IEC 60282-1
VDE 0670-4

E=292mm

Full-Range

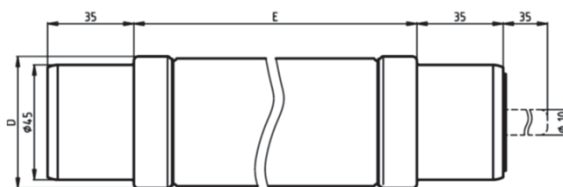
Rated current I_n [A]	Article Number	Diameter D [in/mm]	Weight [kg/1]	Rated breaking current I_1 [kA]	Minimum breaking current I_3 [A]	Pre-arcing I^2t [A ² s]	Total I^2t @ $0.87U_n(\text{Max})$ [A ² s]	Power loss ¹ [W]	Cold resistance [mΩ]
With 80N Striker and Temperature Limiter									
6.3	3000403.6.3	2.09 / 53	1.6	80	6.3	32	—	480	370
10	3000403.10	2.09 / 53	1.6	80	10	130	—	1 700	200
16	3000403.16	2.09 / 53	1.6	80	16	390	—	1 900	70
20	3000403.20	2.09 / 53	1.6	80	20	800	—	3 500	48
25	3000403.25	2.09 / 53	1.6	80	25	1 500	—	6 500	36
31.5	3000403.31.5	2.09 / 53	1.6	80	31.5	2 900	—	12 000	26
40	3000403.40	2.09 / 53	1.6	80	40	5 800	—	26 600	18
50	3001203.50	2.64 / 67	2.6	80	50	9 200	—	41 000	14
63	3001203.63	2.64 / 67	2.6	80	63	15 000	—	61 500	11
80	3002003.80	3.35 / 85	3.9	80	80	31 000	—	145 000	7.7
100	3002003.100	3.35 / 85	3.9	80	100	61 000	—	260 000	5.8
125	3002003.125	3.35 / 85	3.9	80	Contact SIBA				

¹ At rated current per IEC 60282-1

"World's True Full-Range Fuse"



Dimensions [mm]



Accessories

Article Description	≤ 200A	> 200A	Page(s)
Fuse base, indoor	3100302	—	188
Fuse base, outdoor	3100401	—	189
Fuse clips	3100302.20	—	190
Fuse clips w/ connecting bar	3400201	—	
Microswitch assembly, * preferred	250mm - 3100116, 660mm - 3100110 & 3100210*, 900mm - 3100114, 1200mm - 3100117		187

SIBA LLC

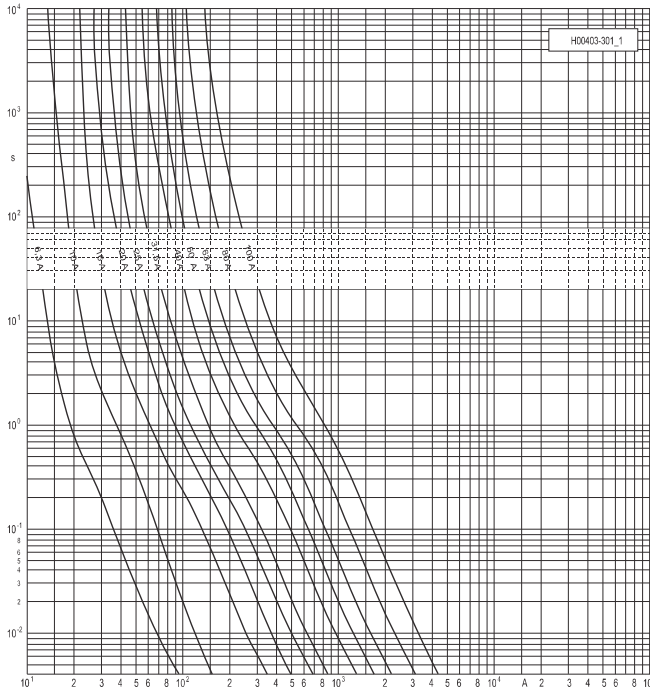
29 Fairfield Place
West Caldwell, New Jersey 07006

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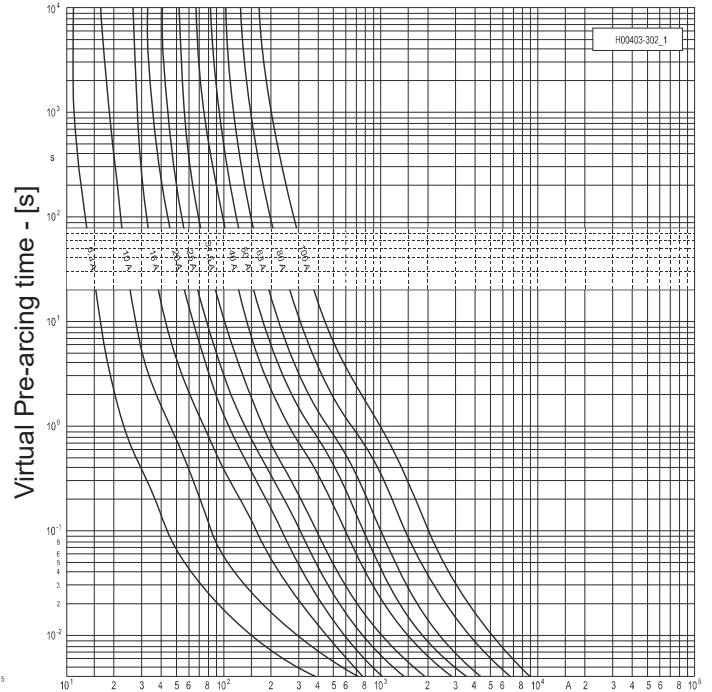
**HHD-FR Time-Current Characteristics - Minimum Melting and Total Clearing
Cut-Off Current Diagram
Current-Limiting, Full-Range, 6/12kV, E = 292mm (6.3A - 100A)**

3000403.6.3 - 40, 3001203.50 - 63, 3002003.80 - 100

Minimum Melting

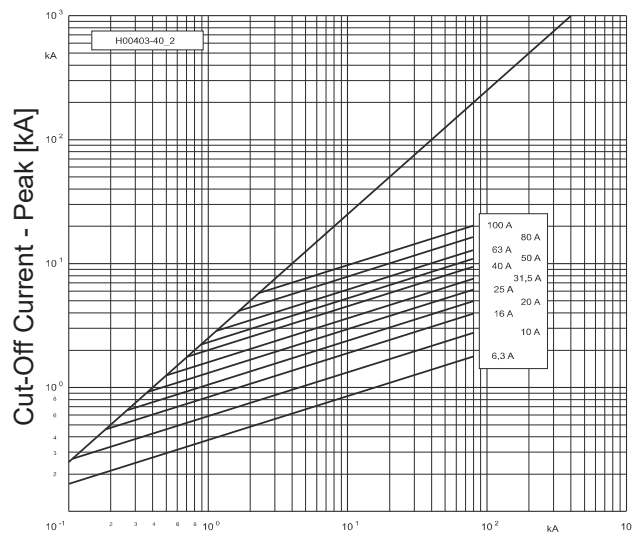


Total Clearing



R.M.S. Prospective Current [A]

Cut-Off Current



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

Full size graphs available upon request.

HHD-FR
10/24kV - Rated Voltage

High Voltage Current-Limiting Fuses

For air & gas-insulated switchgear,
indoor and outdoor applications

Class



Standard(s)

DIN 43 625
IEC 60282-1
VDE 0670-4

E=442mm

Full-Range

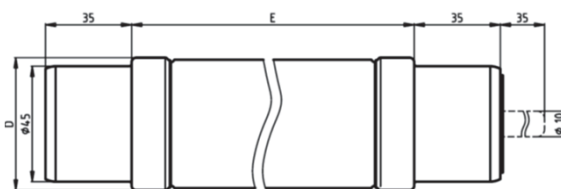
Rated current I_n [A]	Article Number	Diameter D [in/mm]	Weight [kg/l]	Rated breaking current I_1 [kA]	Minimum breaking current I_3 [A]	Pre-arcing I^2t [A ² s]	Total I^2t @ $0.87U_n(\text{Max})$ [A ² s]	Power loss ¹ [W]	Cold resistance [mΩ]
With 80N Striker and Temperature Limiter									
6.3	3000603.6.3	2.09 / 53	2.5	63	6.3	32	—	470	580
10	3000603.10	2.09 / 53	2.5	63	10	85	—	420	280
16	3000603.16	2.09 / 53	2.5	63	16	330	—	1 600	139
20	3000603.20	2.09 / 53	2.5	63	20	800	—	3 700	90
25	3000603.25	2.09 / 53	2.5	63	25	1 600	—	8 000	64
31.5	3000603.31.5	2.09 / 53	2.5	63	31.5	3 200	—	16 000	45
40	3001403.40	2.64 / 67	3.7	63	40	5 800	—	29 500	34
50	3001403.50	2.64 / 67	3.7	63	50	8 700	—	45 000	27

¹ At rated current per IEC 60282-1

"World's True Full-Range Fuse"



Dimensions [mm]



Accessories

Article Description	≤ 200A	> 200A	Page(s)
Fuse base, indoor	3100502	—	188
Fuse base, outdoor	3100601	—	189
Fuse clips	3100302.20	—	190
Fuse clips w/ connecting bar	3400201	—	
Microswitch assembly, * preferred	250mm - 3100116, 660mm - 3100110 & 3100210*, 900mm - 3100114, 1200mm - 3100117		187

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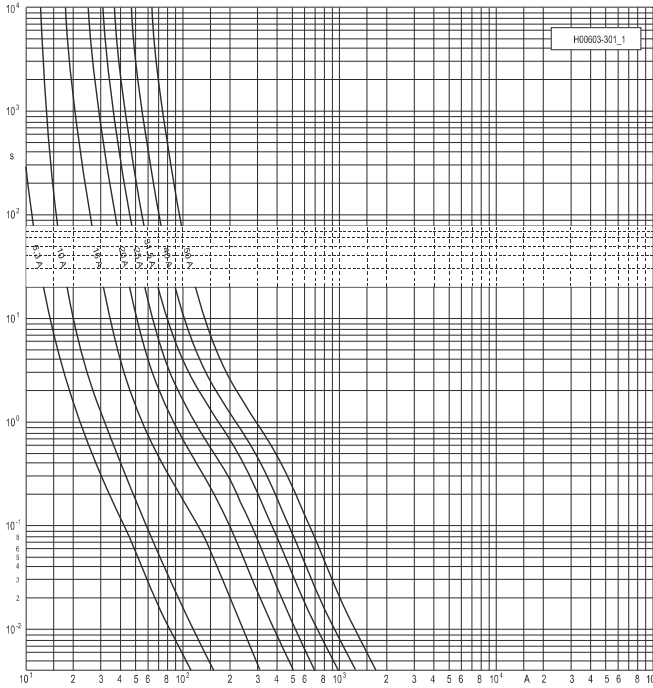
29 Fairfield Place
West Caldwell, New Jersey 07006

portal: www.siballc.net
e-mail: info@sibafuse.com

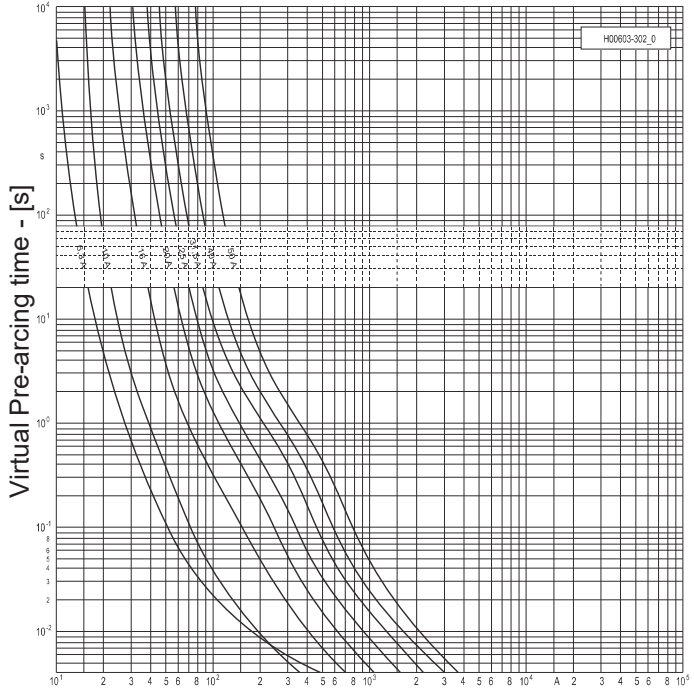
**HHD-FR Time-Current Characteristics - Minimum Melting and Total Clearing
Cut-Off Current Diagram
Current-Limiting, Full-Range, 10/24kV, E = 442mm (6.3A - 50A)**

3000603.6.3 - 31.5, 3001403.40 - 50

Minimum Melting

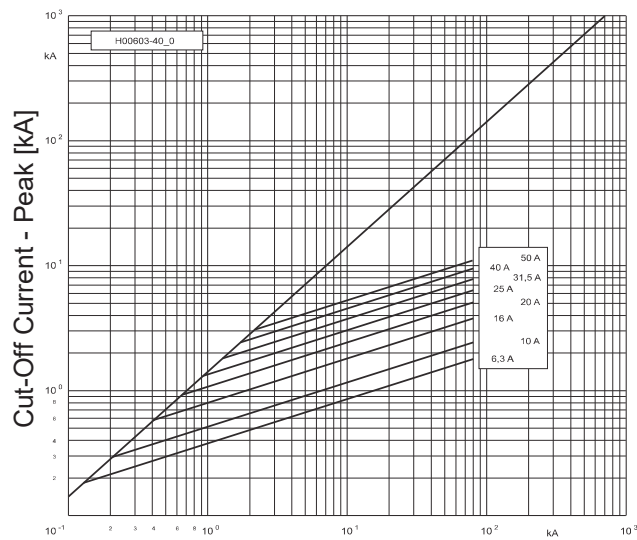


Total Clearing



R.M.S. Prospective Current [A]

Cut-Off Current



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

Full size graphs available upon request.

HHD

High Voltage Current-Limiting Fuses

For air & gas-insulated switchgear,
indoor and outdoor applications

Class
Full-Range



Standard(s)

DIN 43 625
IEC 60282-1
VDE 0670-4

New Products

True Full Range Fuses

The new **Full Range** fuses are tested according to **IEC 60282-1**, but with 100% rated voltage in accordance with **IEEE C37.41**

Contact SIBA, 1-973-5757422. e-mail: info@sibafuse.com

7.2kV			
With 80N Striker and Temperature Limiter			
Rated current I_n [A]	Article Number	DIN E [mm]	Diameter D [mm]
71	3011003.71	442	87
100	3011003.100	442	87
112	3011003.112	442	87
140	3011003.140	442	87
150	3011003.150	442	87
180	3011003.180	442	87

- 7.2kV, Tested
- 100% *Full Range*
- No "RC" deratings
- Certificates available
- Single body design

12kV			
With 80N Striker and Temperature Limiter			
Rated current I_n [A]	Article Number	DIN E [mm]	Diameter D [mm]
6.3	3001203.6.3	292	67
10	3001203.10	292	67
16	3001203.16	292	67
20	3001203.20	292	67
25	3001203.25	292	67
31.5	3001203.31.5	292	67
40	3001203.40	292	67
50	3001203.50	292	67
63	3001203.63	292	67
80	3055203.80*	292	85
100	3055203.100*	292	85
90	3010313.90	442	87
112	3010313.112	442	87
125	3010313.125	442	87

* reinforced double layered body

- 12kV, Tested
- 100% *Full Range*
- No "RC" deratings
- Certificates available
- Single body design