

## Selection Guide

### HHD-BM & HHD-BMR, DIN Style Current-Limiting, Back-Up, Motor Protection

Current ratings [A]; 50, 63, 80, 100, 125, 160, 200, 250, 315, 355, 400, 450

E=192mm	Page	E=292mm	Page	E=367mm	Page	E=442mm	Page	E=537mm	Page
<b>3 / 3.6kV</b>									
		3020153.50 - 100	64						
		3020253.125 - 160	64						
		3020054.200 - 315	64						
		3020554.355 - 450	64						
<b>3 / 7.2kV</b>									
						3010853.50 - 100	66		
						3010953.125 - 160	66		
						3011054.200 - 315	66		
						3011154.355 - 450	66		
<b>6 / 12kV</b>									
						3010153.50 - 63	68		
						3010253.80 - 125	68		
						3010353.160	68		
						3010354.200	68		

### HHD-BMR, DIN Style Current-Limiting, Back-Up, R - Rated

Current ratings [A]; 2R(70A), 3R(100A), 4R(130A), 5R(150A), 6R(170A), 9R(200A), 12R(230A), 18R(390A), 24R(450A), 36R(650A), 48R[700A]

<b>2.4 / 7.3kV</b>									
						3010855.2R - 3R	70		
						3010955.4R - 6R	70		
						3011055.9R - 48R	70		

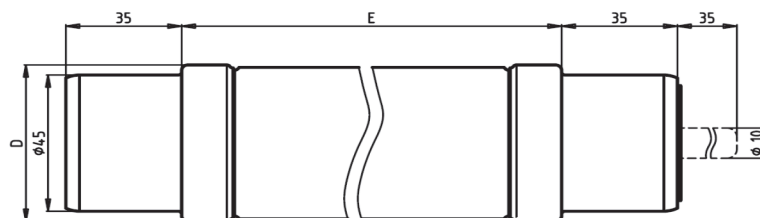
<b>HHD-BM</b> 3/3.6kV - Rated Voltage	<b>High Voltage Current-Limiting Fuses</b> Motor Applications	Standard(s) DIN 43 625 IEC 60282-1 IEC 606644 VDE 0670 - 4
Size E=292mm	<b>Class Back-Up</b>	

Rated Current $I_n$ [A]	Article Number	Diameter <b>D</b>	Weight [kg/1]	Rated Breaking Current $I_1$ [kA]	Minimum Breaking Current $I_3$ [A]	Pre-arcing $I^2t$ [A <sup>2</sup> s]	Total $I^2t$ @ 0.87U <sub>n</sub> (Max)		Power Loss [W]	Cold Resistance [mΩ]
		[in/mm]					[A <sup>2</sup> s]	[A <sup>2</sup> s]		
<b>Single Barrel - With 80N Striker and Thermal Sensor</b>										
50	3020153.50	2.09 / 53	1.7	50	140	3 400	—	11 000	27	13
63	3020153.63	2.09 / 53	1.7	50	165	5 400	—	17 000	38	10
80	3020153.80	2.09 / 53	1.7	50	200	6 110	—	20 000	44	8.5
100	3020153.100	2.09 / 53	1.7	50	285	14 000	—	44 000	47	5.6
125	3020253.125	2.64 / 67	2.6	50	375	25 000	—	78 000	51	4.3
160	3020253.160	2.64 / 67	2.6	50	490	64 000	—	199 000	53	2.7
<b>Single Barrel - With 120N</b>										
200	3020054.200	3.35 / 85	3.9	50	690	121 000	—	376 000	58	1.9
224	3020054.224	3.35 / 85	3.9	50	790	144 000	—	448 000	61	1.7
250	3020054.250	3.35 / 85	3.9	50	1 050	307 000	—	952 000	64	1.2
315	3020054.315	3.35 / 85	3.9	50	1 260	615 000	—	1 500 000	75	0.84
<b>Double Barrel - With 120N Striker</b>										
355	3020554.355	3.35 / 85	8.4	50	2 130	760 000	—	2 360 000	82	0.75
400	3020554.400	3.35 / 85	8.4	50	2 400	1 060 000	—	3 290 000	87	0.69
450	3020554.450	3.35 / 85	8.4	50	2 700	1 230 000	—	3 800 000	92	0.59

### Accessories

Article Description	≤ 200A	>200A	Page(s)
Fuse Base, Indoor	3100302	3100306	98
Fuse Base, Outdoor	3100401	3100406	99
Clips	3100302.20	3400101.20	100
Clips w/Connecting Bar	3400201	3400102	100
Microswitch fittings	250mm - 3100116, 660mm - 3100110, 900mm - 3100114, 1200mm - 3100117		97

### Dimensions [mm]



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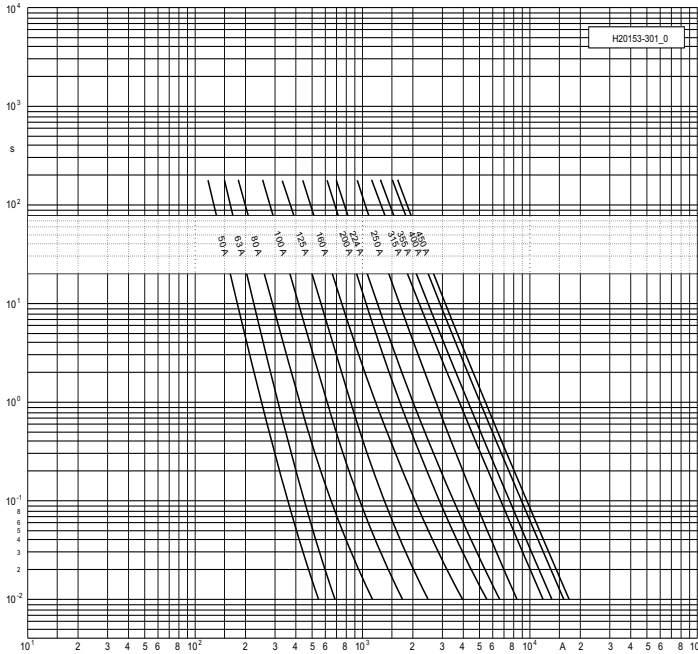
29 Fairfield Place  
West Caldwell, New Jersey 07006

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

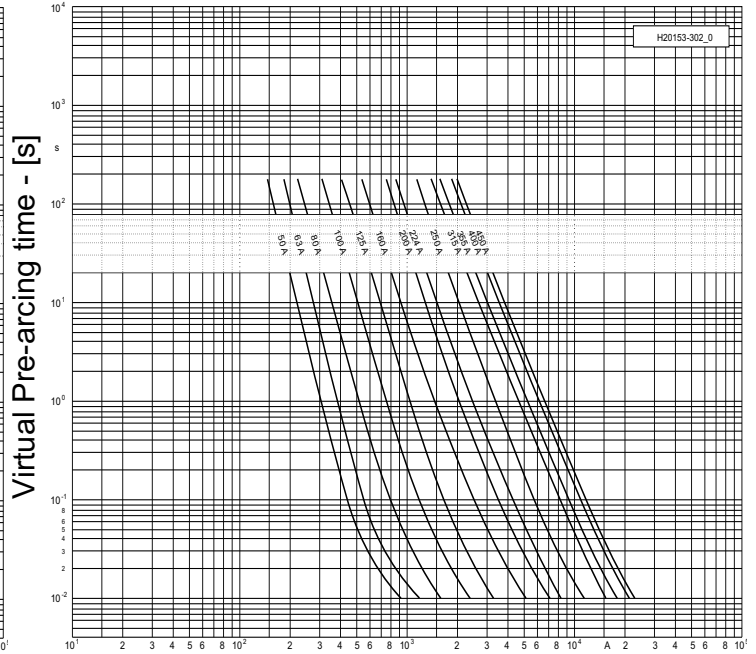
**HHD-BM Time-Current Characteristics - Minimum Melting and Total Clearing  
Cut-Off Current Diagram  
Current-Limiting, Back-Up, 3/3.6kV, E = 292mm (50A - 450A)**

3020153.50 - 100, 3020253.125 - 160, 3020054.200 - 315, 3020354.355 - 450

Minimum Melting

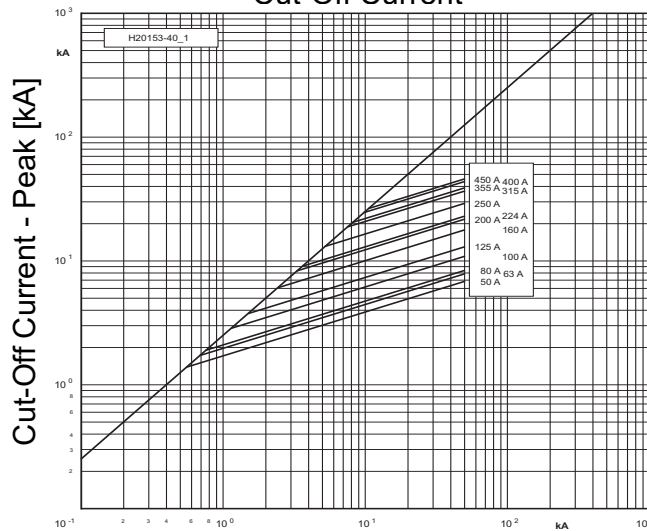


Total Clearing



R.M.S. Prospective Current [A]

Cut-Off Current



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

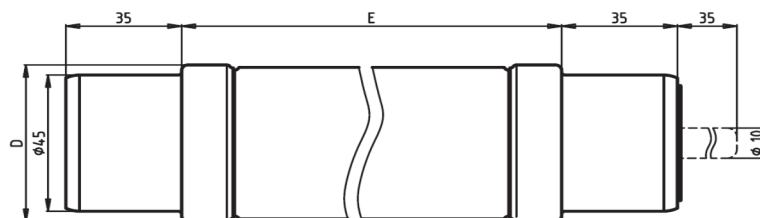
<b>HHD-BM</b> 3/7.2kV - Rated Voltage	<b>High Voltage Current-Limiting Fuses</b> Motor Applications	Standard(s) DIN 43 625 IEC 60282-1 IEC 606644 VDE 0670 - 4
Size E=442mm	<b>Class Back-Up</b>	

Rated Current $I_n$ [A]	Article Number	Diameter <b>D</b>	Weight [kg/1]	Rated Breaking Current $I_1$ [kA]	Minimum Breaking Current $I_3$ [A]	Pre-arcing $I^2t$ [A <sup>2</sup> s]	Total $I^2t$ @ 0.87U <sub>n</sub> (Max)		Power Loss [W]	Cold Resistance [mΩ]
		[in/mm]					[A <sup>2</sup> s]	[A <sup>2</sup> s]		
<b>Single Barrel - With 80N Striker and Thermal Sensor</b>										
50	3010853.50	2.09 / 53	2.5	50	140	3 400	—	16 000	23	13
63	3010853.63	2.09 / 53	2.5	50	165	5 400	—	25 000	49	10
80	3010853.80	2.09 / 53	2.5	50	200	6 110	—	29 000	72	8.5
100	3010853.100	2.09 / 53	2.5	50	280	14 000	—	65 000	74	5.6
125	3010953.125	2.64 / 67	3.7	50	375	25 000	—	115 000	81	4.3
160	3010953.160	2.64 / 67	3.7	50	490	64 000	—	295 000	91	2.7
<b>Single Barrel - With 120N</b>										
200	3011054.200	3.35 / 85	5.7	50	690	121 000	—	559 000	89	1.9
224	3011054.224	3.35 / 85	5.7	50	790	144 000	—	694 000	103	1.7
250	3011054.250	3.35 / 85	5.7	50	1 050	307 000	—	1 480 000	98	1.2
315	3011054.315	3.35 / 85	5.7	50	1 260	627 000	—	3 000 000	120	0.84
<b>Double Barrel - With 120N Striker</b>										
355	3011154.355	3.35 / 85	11.4	50	2 130	759 000	—	3 700 000	131	0.75
400	3011154.400	3.35 / 85	11.4	50	2 400	903 000	—	4 400 000	150	0.69
450	3011154.450	3.35 / 85	11.4	50	2 700	1 230 000	—	5 950 000	163	0.59

### Accessories

Article Description	≤ 200A	>200A	Page(s)
Fuse Base, Indoor	3110102	3110106	98
Fuse Base, Outdoor	—	—	99
Clips	3100302.20	3400101.20	100
Clips w/Connecting Bar	3400201	3400102	100
Microswitch fittings	250mm - 3100116, 660mm - 3100110, 900mm - 3100114, 1200mm - 3100117		97

### Dimensions [mm]



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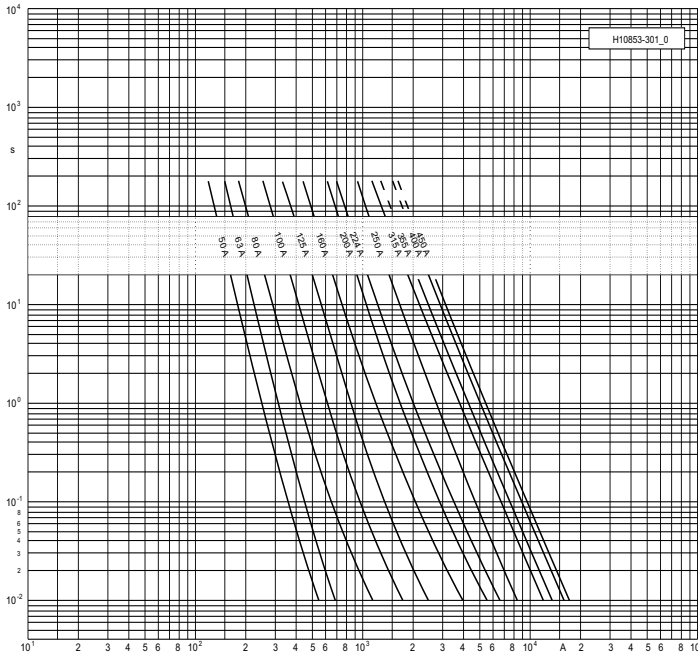
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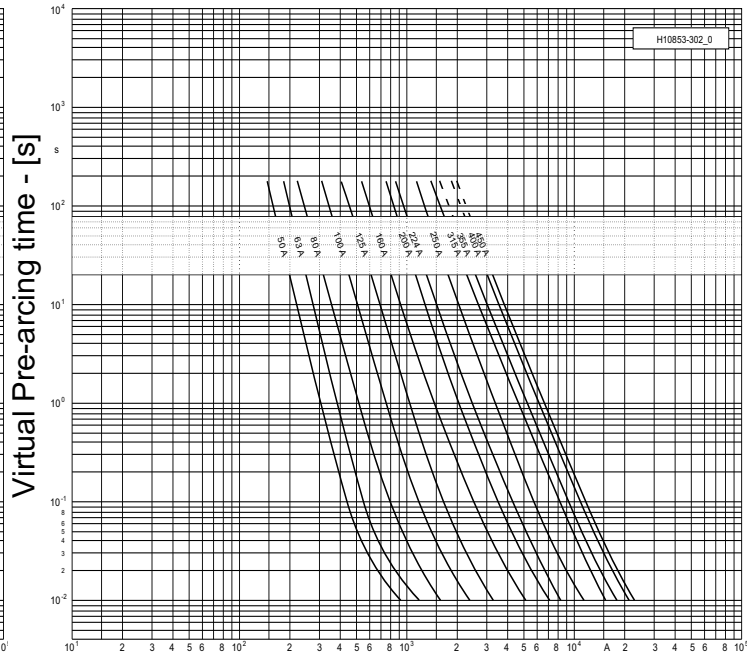
**HHD-BM Time-Current Characteristics - Minimum Melting and Total Clearing  
Cut-Off Current Diagram  
Current-Limiting, Back-Up, 3/7.2kV, E = 442mm (50A - 450A)**

3010853.50 - 100, 3010953.125 - 160, 3011054.200 - 315, 3011154.355 - 450

Minimum Melting

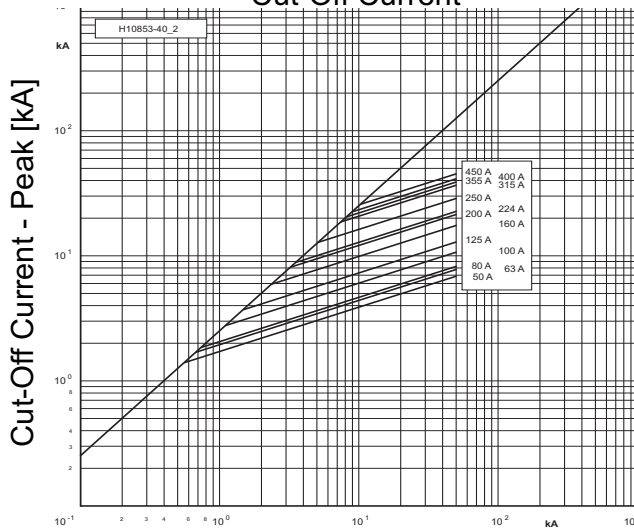


Total Clearing



R.M.S. Prospective Current [A]

Cut-Off Current



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

**HHD-BM**  
6/12kV - Rated Voltage

**High Voltage Current-Limiting Fuses**  
Motor Applications

Standard(s)  
DIN 43 625  
IEC 60282-1  
IEC 606644  
VDE 0670 - 4

Size E=442mm

**Class  
Back-Up**

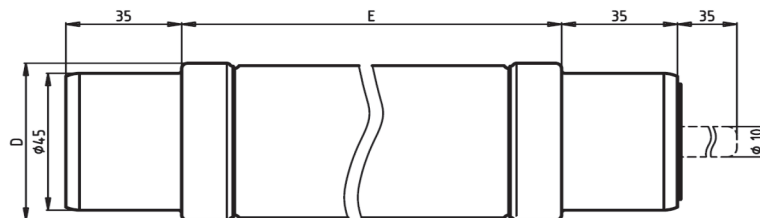


Rated Current $I_n$ [A]	Article Number	Diameter <b>D</b> [in/mm]	Weight [kg/1]	Rated Breaking Current $I_1$ [kA]	Minimum Breaking Current $I_3$ [A]	Pre-arcing $I^2t$ [A <sup>2</sup> s]	Total $I^2t$ @ $0.87U_n(\text{Max})$ [A <sup>2</sup> s]	Power Loss [W]	Cold Resistance [mΩ]
<b>Single Barrel - With 80N Striker and Thermal Sensor</b>									
50	3010153.50	2.09 / 53	2.6	50	140	3 400	—	16 000	18
63	3010153.63	2.09 / 53	2.6	50	165	5 400	—	25 000	15
80	3010253.80	2.64 / 67	3.7	50	200	6 200	—	29 000	13
100	3010253.100	2.64 / 67	3.7	50	280	14 000	—	65 000	8.5
125	3010253.125	2.64 / 67	3.7	50	375	25 000	—	115 000	6.3
160	3010353.160	3.35 / 85	5.7	50	490	64 000	—	295 000	4
<b>With 120N Striker</b>									
200	3010354.200	3.35 / 85	5.7	50	690	121 000	—	559 000	3

### Accessories

Article Description	≤ 200A	>200A	Page(s)
Fuse Base, Indoor	3110102	3110106	98
Fuse Base, Outdoor	—	—	99
Clips	3100302.20	3400101.20	100
Clips w/Connecting Bar	3400201	3400102	100
Microswitch fittings	250mm - 3100116, 660mm - 3100110, 900mm - 3100114, 1200mm - 3100117		97

### Dimensions [mm]



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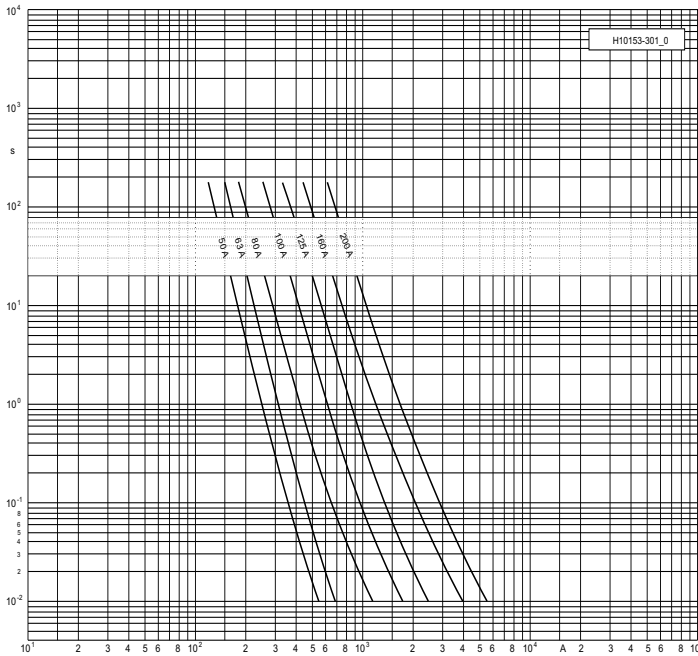
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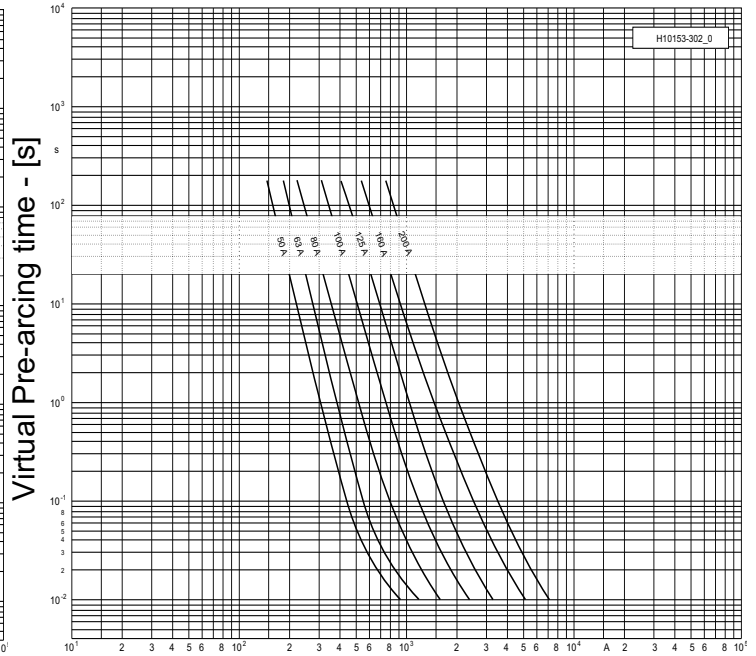
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Cut-Off Current Diagram  
Current-Limiting, Back-Up, 6/12kV, E = 442mm (50A - 200A)**

3010153.50 - 63, 3010253.80 - 125, 3010353.160, 3010354.200

Minimum Melting

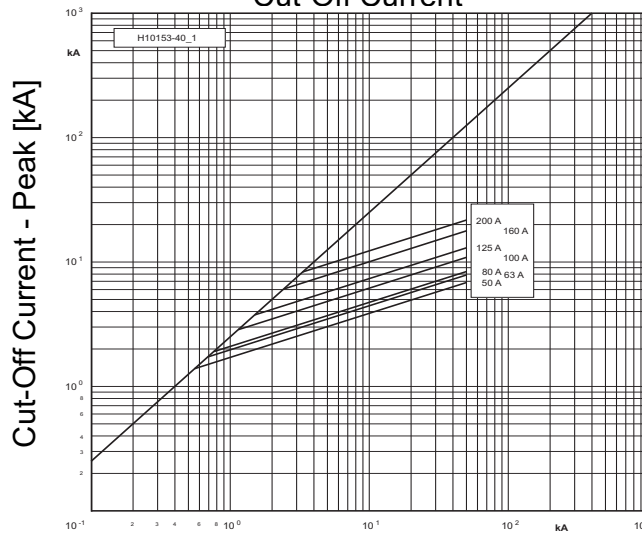


Total Clearing



R.M.S. Prospective Current [A]

Cut-Off Current



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

**HHD-BMR**  
2.4/7.2kV - Rated Voltage

**High Voltage Current-Limiting Fuses**  
Motor Applications

Standard(s)  
DIN 43 625  
IEC 60282-1  
IEC 606644  
VDE 0670 - 4

Size E=442mm

**Class  
Back-Up**

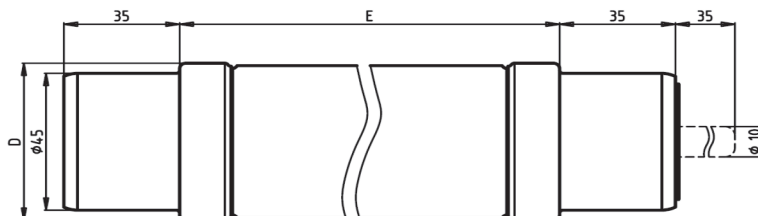


Rated Current $I_n$ [A]	Article Number	Diameter <b>D</b> [in/mm]	Weight [kg/l]	Rated Breaking Current $I_1$ [kA]	Minimum Breaking Current $I_3$ [A]	Pre-arcing $I^2t$ [A <sup>2</sup> s]	Total $I^2t$ @ $0.87U_n(\text{Max})$ [A <sup>2</sup> s]	Power Loss [W]	Cold Resistance [mΩ]	
<b>Single Barrel - With 80N Striker</b>										
70	3010855.2R	2.09 / 53	2.5	50	160	5 400	—	24 400	63	10
100	3010855.3R	2.09 / 53	2.5	50	220	9 000	—	41 400	106	7
130	3010955.4R	2.64 / 67	3.7	50	320	20 400	—	91 500	112	5
150	3010955.5R	2.64 / 67	3.7	50	400	37 600	—	169 400	119	3.7
170	3010955.6R	2.64 / 67	3.7	50	480	62 200	—	280 100	125	2.8
<b>Single Barrel - With 120N Striker</b>										
200	3011055.9R	3.35 / 85	5.7	50	690	100 400	—	462 000	123	2.1
230	3011055.12R	3.35 / 85	5.7	50	900	170 000	—	764 000	118	1.6
<b>Double Barrel - With 120N Striker</b>										
390	3011055.18R	3.35 / 85	11.4	50	1 400	402 000	—	1 850 000	246	1.1
450	3011055.24R	3.35 / 85	11.4	50	1 800	678 000	—	3 053 000	236	0.8
<b>Triple Barrel - With 120N Striker</b>										
650	3011055.36R	3.35 / 85	17.1	50	2 600	1 527 000	—	6 869 000	354	0.55
700	3011055.48R*	3.35 / 85	17.1	50	3 000	2 766 000	—	12 447 000	476	0.45
	* 2.4kV - 4.8kV									

### Accessories

Article Description	≤ 200A	>200A		Page(s)
Fuse Base, Indoor	3110102	3110106	Single Barrel Application Only	98
Fuse Base, Outdoor	—	—		99
Clips	3100302.20	3400101.20		100
Clips w/Connecting Bar	3400201	3400102		100
Microswitch fittings	250mm - 3100116, 660mm - 3100110, 900mm - 3100114, 1200mm - 3100117			97

### Dimensions [mm]



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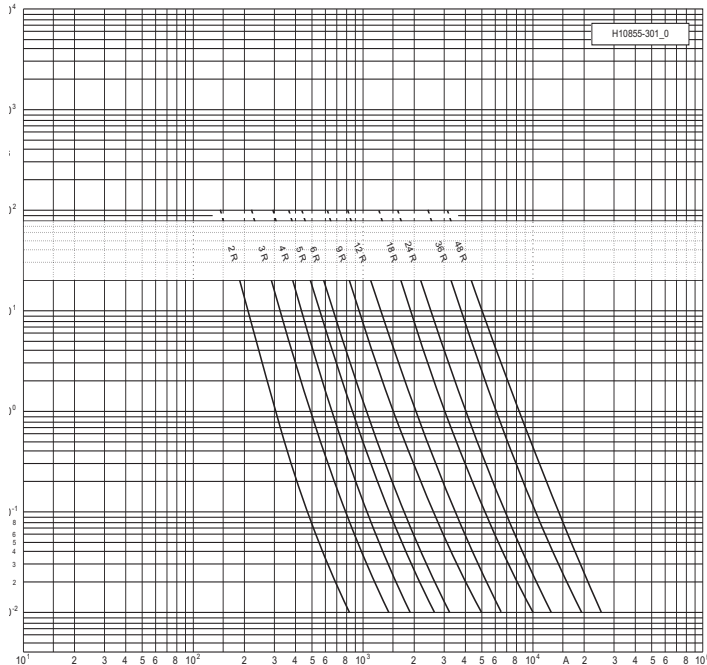
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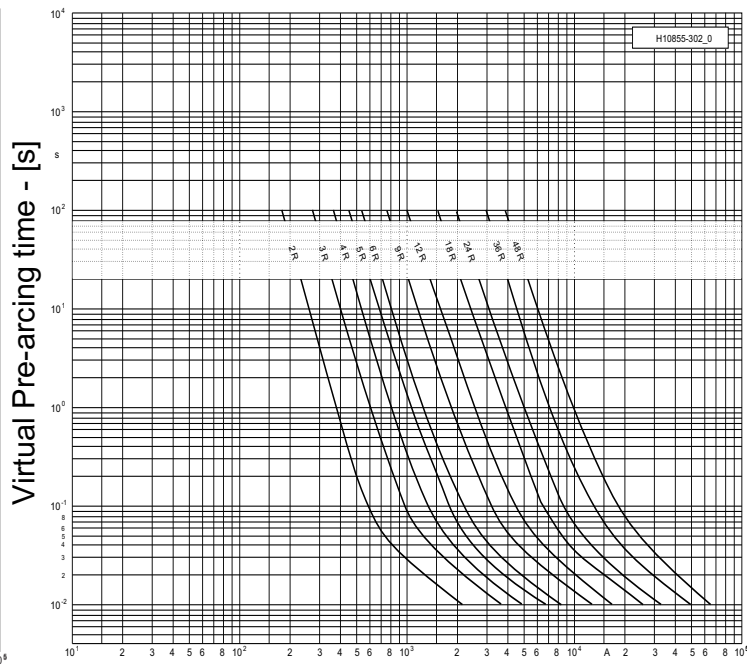
**HHD-BMR Time-Current Characteristics - Minimum Melting and Total Clearing  
Cut-Off Current Diagram  
Current-Limiting, Back-Up, 2.4/7.2kV, E = 442mm (2R - 48R)**

3010855.2R - 3R, 3010955.4R - 6R, 3011055.9R - 48R

Minimum Melting

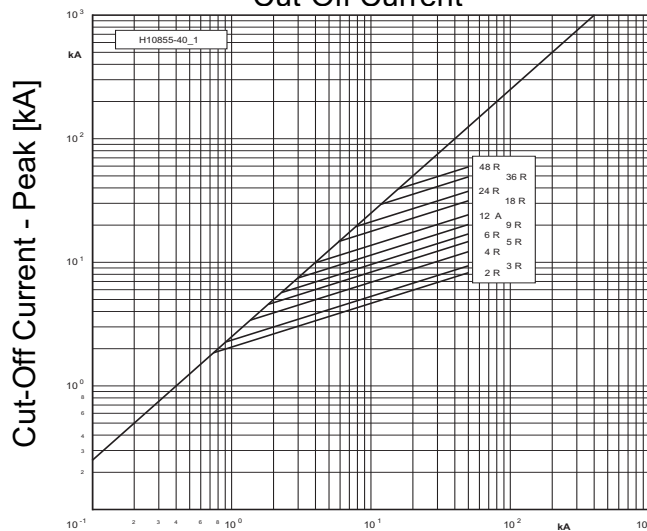


Total Clearing



R.M.S. Prospective Current [A]

Cut-Off Current



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