

HHM

HH*_M-B_*

High Voltage Fuses for Motor Applications

Application Range Types

Fuses for protection motor circuits

This series type of fuses are current limiting "Back-Up" to British or DIN standard for motor protection, and are designed and constructed to well proven concepts developed by SIBA to deal with cyclic loads typical for motor circuits with lower power losses compared to commonly used HV fuses.

The fuses are designed for decades of reliable usage and available in voltage ranges of 3.6kV, 7.2kV and 12kV.

SIBA HHM series of fuses are current-limiting "Back-Up" class for protection of motor circuits and comply with the following standards;

New DIN style 7.2kV tested at 7.65kV, 80kAIR symmetrical.

- IEEE C37.40
- IEEE C37.41
- IEEE C37.46
- IEEE C37.53.1

* British, HHBM-BM & HHBM-BR

- IEC 60282-1
- BS 2692-1
- ESI 12-8

* DIN, HHD-BM & HHD-BR

- IEC 60282-1
- IEC 60644
- DIN 43 625
- VDE 0670-4



SIBA LLC

29 Fairfield Place
West Caldwell, New Jersey 07006

Selection Guide

HHBM-BM, British Style, Current-Limiting, Back-Up

Current ratings [A]; 25, 31.5, 40, 50, 63, 80, 100, 125, 160, 200, 224, 250, 315, 355, 400, 450

A=254mm	Page	A=403mm	Page	A=587mm	Page	
3.6kV						
3026956.50 - 315	115					Bracket
3027056.355 - 500	115					
7.2kV						
		3027156.25 - 315	117			Bracket
		3027256.355 - 500	117			
12kV						
				3027456.50 - 200	119	Bracket
				3027556.224 - 400	119	

HHBM-BR, British 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)

3.6kV						
3045655.2R - 48R			121			3" Clip mount
7.2kV						
		3045955.2R - 12R	123			3" Clip mount
		3046055.18R - 24R	123			3" Clip mount
		3046155.36R - 48R	123			3" Clip mount

HHDM-BM, 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
3 / 3.6kV									
		3020153.50 - 100	125						
		3020253.125 - 160	125						
		3020054.200 - 315	125						
		3020554.355 - 450	125						
3/ 7.2kV									
						3010853.50 - 100	127		
						3010953.125 - 160	127		
						3011054.200 - 315	127		
						3011154.355 - 450	127		
6 / 12kV									
						3010153.50 - 63	129		
						3010253.80 - 125	129		
						3010353.160	129		
						3010354.200 - 250	129		

Selection Guide

HHDM*-BR, DIN Style Current-Limiting, Back-Up, R - Rated, 7.2kV with 80kAIR symmetriza

- IEEE C37.40
- IEEE C37.41
- IEE C37.46
- IEE C37.53.1
- Tested @ $1.06U_n$ - 7.65kV

Current ratings [A]: 2R(70A), 3R(100A), 4R(130A), 5R(150A), 6R(170A), 9R(200A), 12R(230A), for higher ratings please contact SIBA: info@sibafuse.com, 973-575-7422

E=192mm	Page	E=292mm	Page	E=367mm	Page	E=442mm	Page	E=537mm	Page
Single Barrel - With 80N Stirker and Temperature Limiter									
						3010855.2R - 3R	131		
						3010955.4R - 6R	131		
						3011055.9R - 12R	131		
Double Barrel									
						18R Contact SIBA			
						24R Contact SIBA			
Triple Barrel									
						36R Contact SIBA			
						48R Contact SIBA			



HHBM-BM
3.6kV- Rated Voltage[U_n]

High Voltage Current-Limiting Fuses
Motor Applications

Standard(s)
DIN 43 625
IEC 60282-1
IEC 60664
BS 2692-1

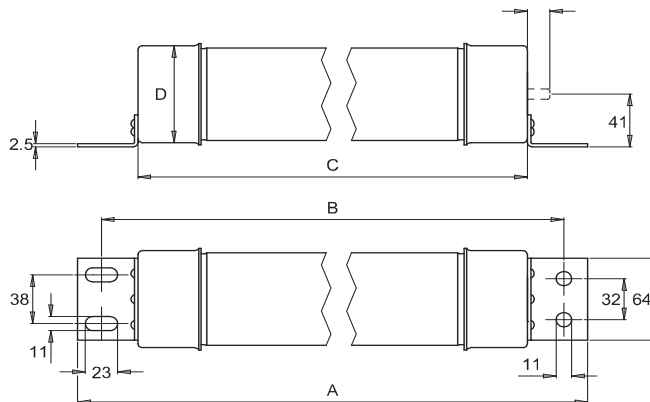


"A"=254mm, Double L Bracket (T2A)

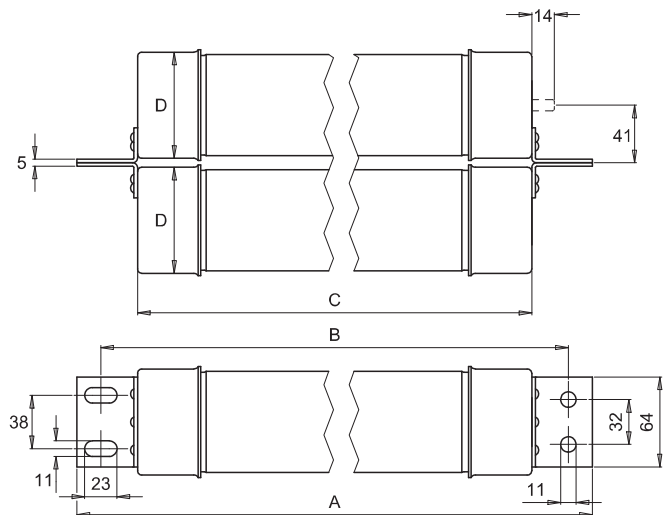
Class
Back-Up

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 ² t [A ² s]	Total I ² t @ 0.87U _n [A ² s]	Power loss ¹ [W]	Cold resistance [mΩ]
Single Barrel - With 50N Striker and Temperature Limiter									
50	3026956.50	3.00 / 76	3.9	50	140	3 400	—	16 000	7
63	3026956.63	3.00 / 76	3.9	50	165	5 400	—	25 000	5.7
80	3026956.80	3.00 / 76	3.9	50	200	6 200	—	29 000	4
100	3026956.100	3.00 / 76	3.9	50	285	14 000	—	65 000	3
125	3026956.125	3.00 / 76	3.9	50	375	25 000	—	115 000	2.5
160	3026956.160	3.00 / 76	3.9	50	490	64 000	—	295 000	1.5
200	3026956.200	3.00 / 76	3.9	50	690	121 000	—	559 000	1.1
224	3026956.224	3.00 / 76	3.9	50	790	144 000	—	665 000	1
250	3026956.250	3.00 / 76	3.9	50	1 050	307 000	—	1 414 000	0.7
315	3026956.315	3.00 / 76	3.9	50	1 500	627 000	—	2 880 000	0.6
Double Barrel - With 50N Striker and Temperature Limiter									
355	3027056.355	3.00 / 76	7.8	50	2 130	760 000	—	3 700 000	1
400	3027056.400	3.00 / 76	7.8	50	2 400	900 000	—	4 400 000	0.9
450	3027056.450	3.00 / 76	7.8	50	2 700	1 230 000	—	6 000 000	0.8
500	3027056.500	3.00 / 76	7.8	50	2 700	1 230 000	—	6 000 000	0.7

¹ At rated current per IEC 60282-1



3026956.50 - 315



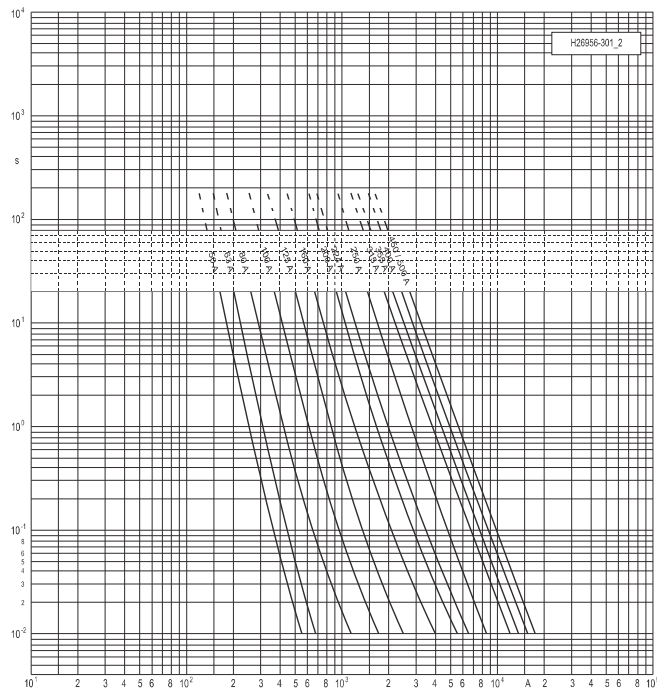
3027056.355 - 500

Dimensions [mm]		
340	A	340
306	B	306
254	C	254
76	D	76

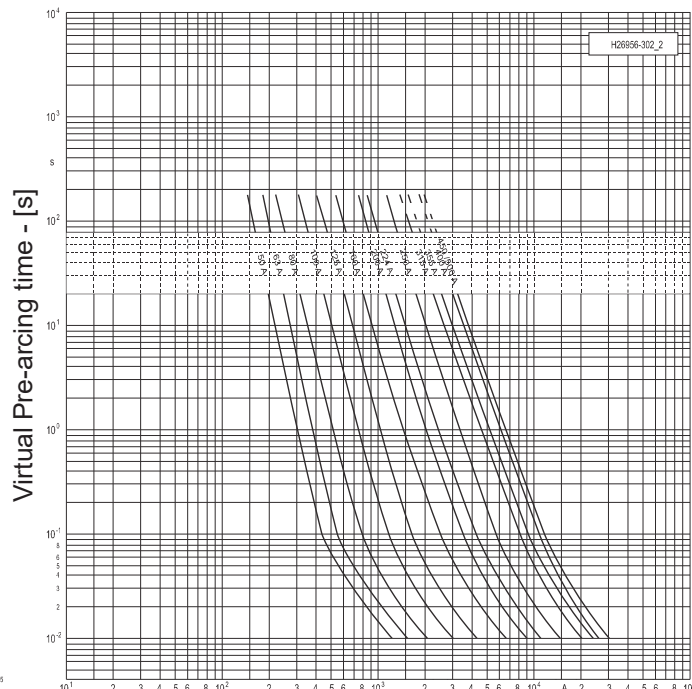
HHBM-BM Time-Current Characteristics - Minimum Melting and Total Clearing
Cut-Off Current Diagram
Current-Limiting, Back-Up, 3.6kV, "A" = 254mm (50A - 450A)

3026956.50 - 315, 3027056.350 - 500

Minimum Melting

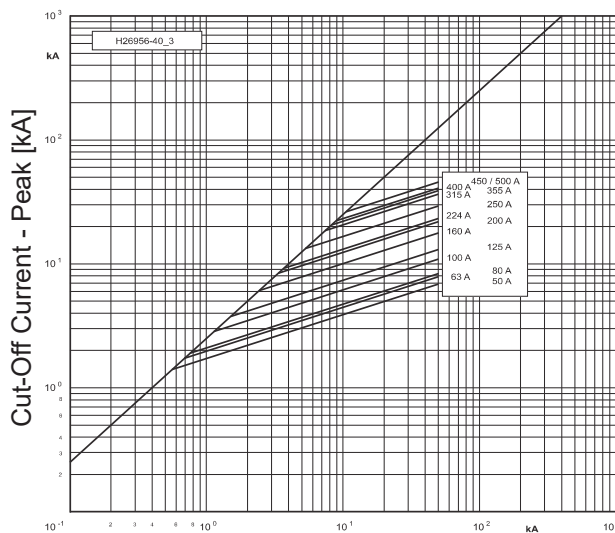


Total Clearing



R.M.S. Prospective Current [A]

Cut-Off Current



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

Full size graphs available upon request.

HHBM-BM
7.2kV- Rated Voltage[U_n]

High Voltage Current-Limiting Fuses
Motor Applications

Standard(s)
DIN 43 625
IEC 60282-1
IEC 60664
BS 2692-1

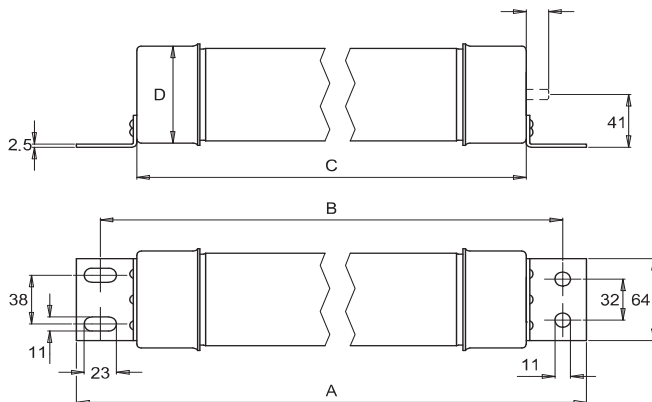


"A"=403mm, Double L Bracket (T4A)

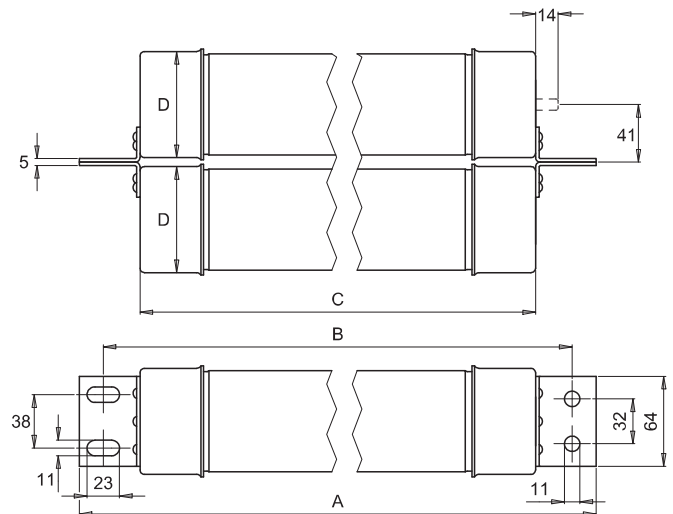
Class
Back-Up

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 $I^2 t$ [A ² s]	Total $I^2 t$ @ 0.87 U_n [A ² s]	Power loss ¹ [W]	Cold resistance [mΩ]
Single Barrel - With 50N Striker and Temperature Limiter									
25	3027156.25	3.00 / 76	4.4	50	80	730	—	4 200	24
31.5	3027156.31.5	3.00 / 76	4.4	50	100	1 100	—	6 600	19
40	3027156.40	3.00 / 76	4.4	50	120	2 050	—	11 600	15
50	3027156.50	3.00 / 76	4.4	50	140	3 400	—	20 000	11.2
63	3027156.63	3.00 / 76	4.4	50	165	5 400	—	31 000	9
80	3027156.80	3.00 / 76	4.4	50	200	6 110	—	36 000	7
100	3027156.100	3.00 / 76	4.4	50	285	14 000	—	80 000	5
125	3027156.125	3.00 / 76	4.4	50	375	25 000	—	143 000	3.7
160	3027156.160	3.00 / 76	4.4	50	490	64 000	—	366 000	2.4
200	3027156.200	3.00 / 76	4.4	50	690	121 000	—	690 000	1.7
224	3027156.224	3.00 / 76	4.4	50	790	144 000	—	824 000	1.6
250	3027156.250	3.00 / 76	4.4	50	1 050	307 000	—	1 750 000	1.1
315	3027156.315	3.00 / 76	4.4	50	1 260	627 000	—	3 200 000	0.9
Double Barrel - With 50N Striker and Temperature Limiter									
355	3027256.355	3.00 / 76	8.8	50	1 450	760 000	—	4 500 000	0.7
400	3027256.400	3.00 / 76	8.8	50	1 600	1 060 000	—	5 100 000	0.6
450	3027256.450	3.00 / 76	8.8	50	2 000	1 230 000	—	6 500 000	0.55
500	3027256.500	3.00 / 76	8.8	50	2 000	1 230 000	—	6 500 000	0.53

¹ At rated current per IEC 60282-1



3027156.50 - 315



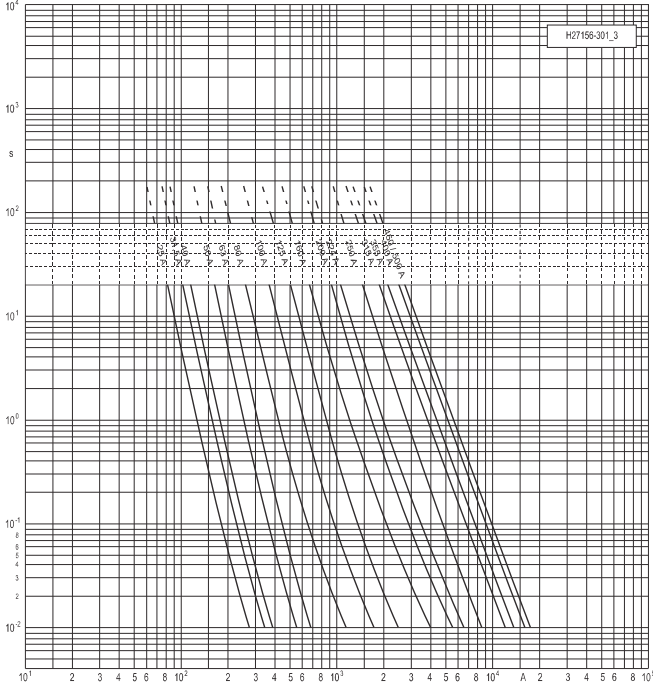
3027256.355 - 500

Dimensions [mm]		
489	A	489
455	B	455
403	C	403
76	D	76

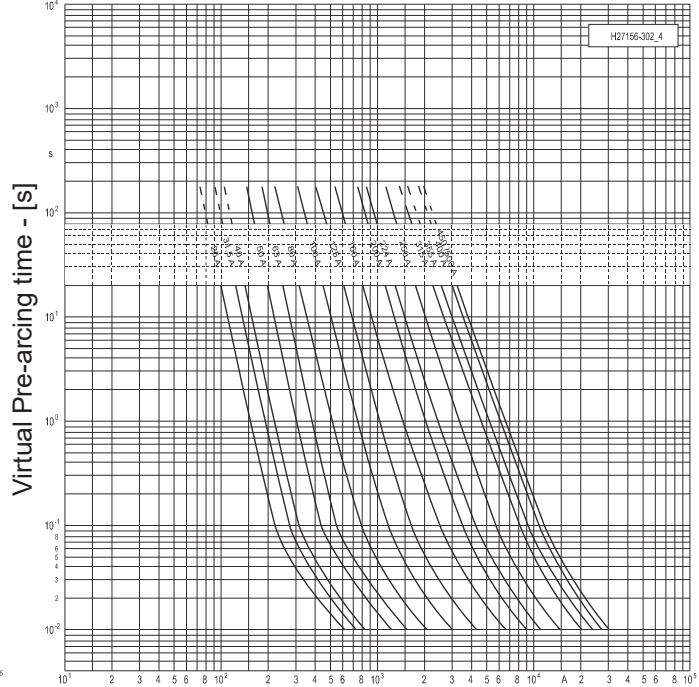
HHBM-BM Time-Current Characteristics - Minimum Melting and Total Clearing
Cut-Off Current Diagram
 Current-Limiting, Back-Up, 7.2kV, "A" = 403mm (25A - 500A)

3027156.50 - 315, 3027256.355 - 500

Minimum Melting

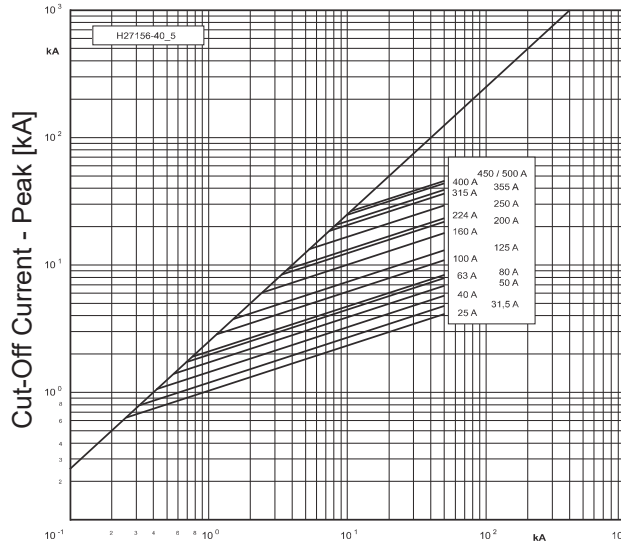


Total Clearing



R.M.S. Prospective Current [A]

Cut-Off Current



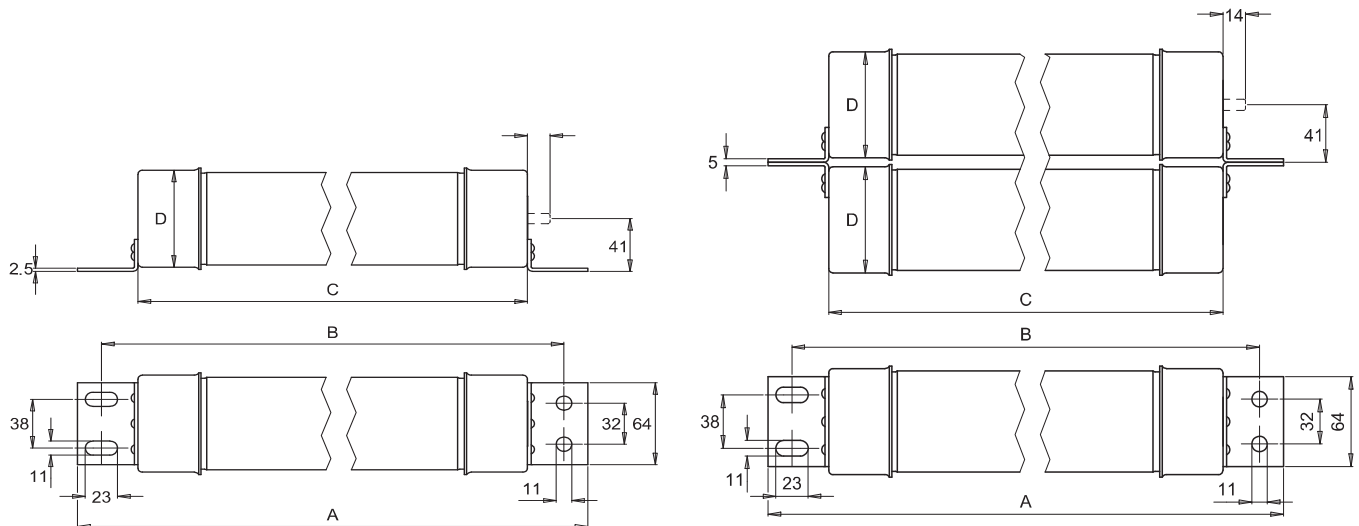
Prospective Short Circuit Current [kA] - (Symmetrical r.m.s.)

Full size graphs available upon request.

HHBM-BM
12kV- Rated Voltage[U_n]
High Voltage Current-Limiting Fuses
Motor Applications
Standard(s)
BS 2692-1
IEC 60282-1

"A"=587mm, Double L Bracket
Class
Back-Up

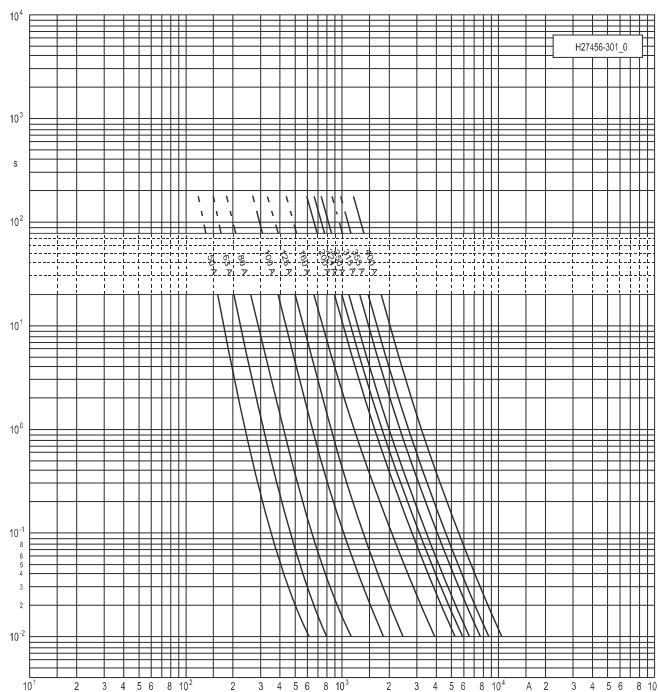
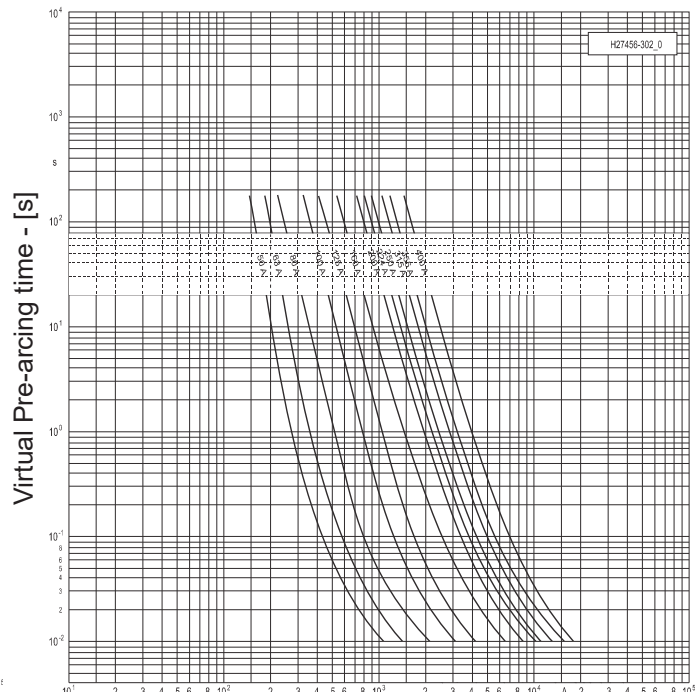
Rated current I_n [A]	Article Number	Diameter D [in/mm]	Weight [kg/l]	Rated breaking current I_1 [kA]	Minimum breaking current I_3 [A]	Pre-arcing I^2t [A ² s]	Total I^2t @ 0.87U _n [A ² s]	Power loss ¹ [W]	Cold resistance [mΩ]
Single Barrel - With 50N Striker									
50	3027456.50	3.00 / 76		50	140	3 400	—	23 000	17
63	3027456.63	3.00 / 76		50	165	5 400	—	35 000	14
80	3027456.80	3.00 / 76		50	200	6 200	—	36 500	11
100	3027456.100	3.00 / 76		50	285	14 000	—	79 000	7.5
125	3027456.125	3.00 / 76		50	375	25 000	—	141 000	5.6
160	3027456.160	3.00 / 76		50	480	64 000	—	362 000	3.5
200	3027456.200	3.00 / 76		50	600	121 000	—	685 000	2.6
Double Barrel - With 50N Striker									
224	3027556.224	3.00 / 76		50	675	127 000	—	717 000	2.5
250	3027556.250	3.00 / 76		50	750	189 000	—	1 100 000	2.0
315	3027556.315	3.00 / 76		50	960	257 000	—	1 450 000	1.8
355	3027556.355	3.00 / 76		50	1 050	325 000	—	1 840 000	1.6
400	3027556.400	3.00 / 76		50	1 200	486 000	—	2 740 000	1.3

¹ At rated current per IEC 60282-1

3027456.50 - 200
3027556.224 - 400

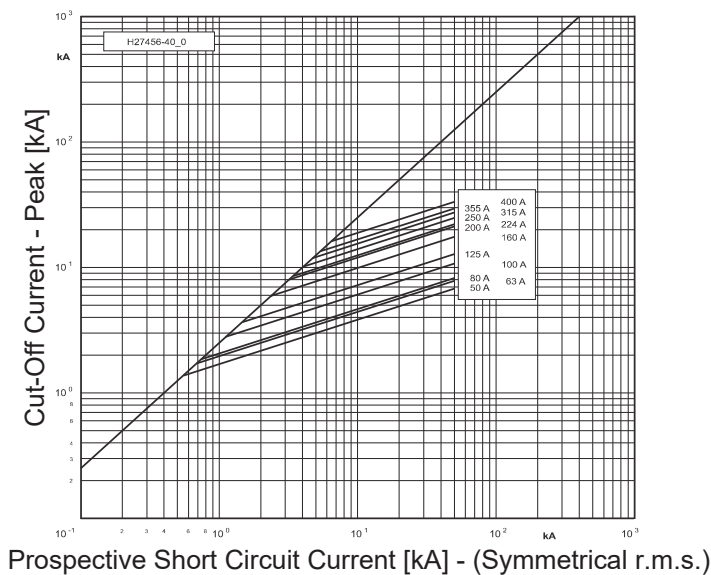
Dimensions [mm]		
587	A	587
553	B	553
501	C	501
76	D	76

HHBM-BM Time-Current Characteristics - Minimum Melting and Total Clearing
Cut-Off Current Diagram
Current-Limiting, Back-Up, 12kV, "A" = 587mm (50A - 400A)

3027456.50 - 200, 3027556.224 - 400

Minimum Melting**Total Clearing**

R.M.S. Prospective Current [A]

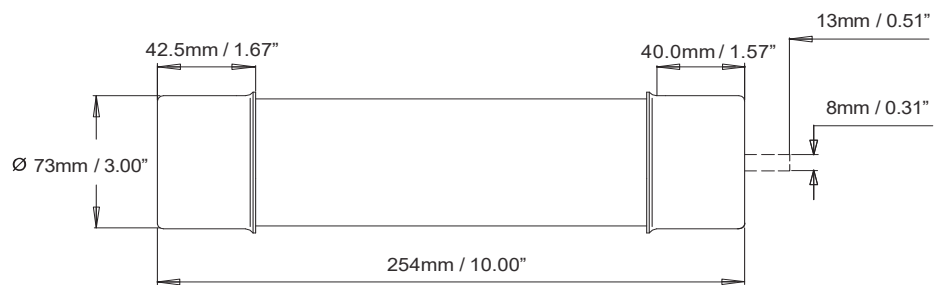
Cut-Off Current

Full size graphs available upon request.

HHBM-BR		High Voltage Current-Limiting Fuses						Standard(s)		
3.6kV- Rated Voltage[U _n]		Motor Applications						DIN 43 625		
		Class						IEC 60282-1		
		Back-Up						IEC 60664		
"L"=254mm								BS 2692-1		
Rated current I _n [A]	Article Number	Diameter	Weight [kg/l]	Rated breaking current I ₁ [kA]	Minimum breaking current I ₃ [A]	Pre-arcing I ² t [A ² s]	Total I ² t @ 0.87U _n		Power loss [W]	Cold resistance [mΩ]
		D								
		[in/mm]					[A ² s]	[A ² s]		
Single Barrel - With 80N Striker										
70	3045655.2R	3.00 / 76	3.1	50		5 400	—	24 000	63	
100	3045655.3R	3.00 / 76	3.1	50		9 000	—	41 400	106	
130	3045655.4R	3.00 / 76	3.1	50		20 400	—	91 500	112	
150	3045655.5R	3.00 / 76	3.1	50		37 600	—	169 000	119	
170	3045655.6R	3.00 / 76	3.1	50		62 200	—	280 000	125	
200	3045655.9R	3.00 / 76	3.1	50		100 000	—	462 000	123	
230	3045655.12R	3.00 / 76	3.1	50		170 000	—	764 000	118	
Double Barrel - With 80N Striker										
390	3045755.18R	3.00 / 76	6.2	50		402 000	—	1 850 000	246	
450	3045755.24R	3.00 / 76	6.2	50		678 000	—	3 053 000	236	
Triple Barrel - With 80N Striker										
650	3045855.36R	3.00 / 76	9.3	50		1 527 000	—	6 869 000	354	
700	3045855.48R	3.00 / 76	9.3	50		2 776 000	—	12 477 000	476	

Contact SIBA

Available for large quantities only





FUSES

**HHBM-BR Time-Current Characteristics - Minimum Melting and Total Clearing
Cut-Off Current Diagram
Current-Limiting, Back-Up, 3.6kV, "L" = 254mm (2R - 48R)**

3045655.2R - 48R

Minimum Melting

Total Clearing

Contact SIBA

Available for large quantities only

Virtual Pre-arcing time - [s]

R.M.S. Prospective Current [A]

Cut-Off Current

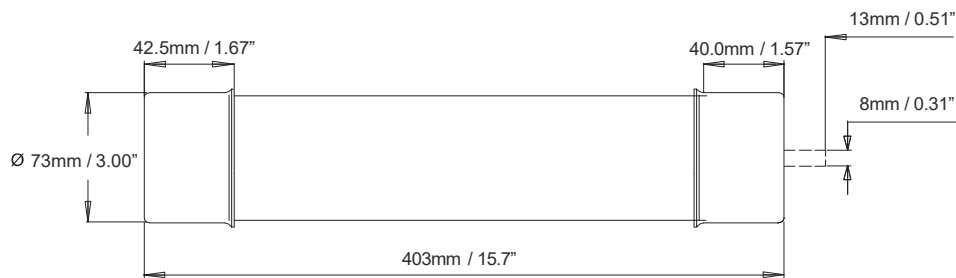
Cut-Off Current - Peak [kA]

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

Full size graphs available upon request.

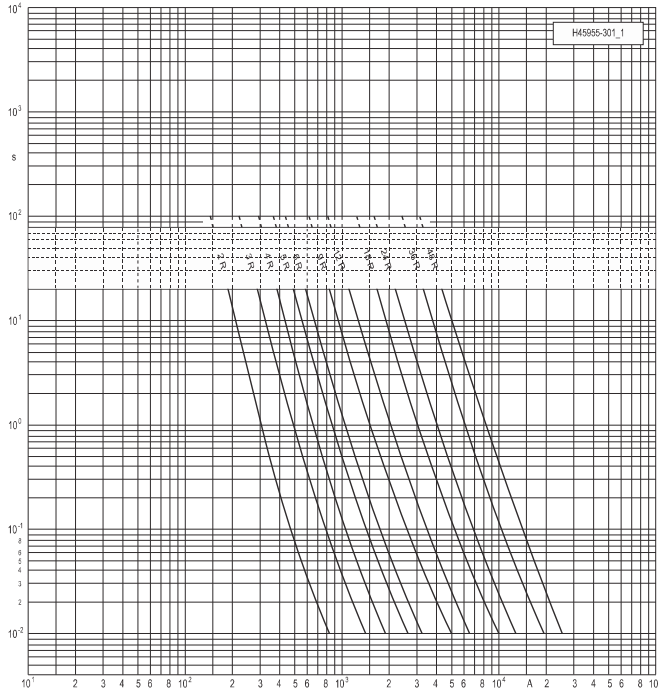
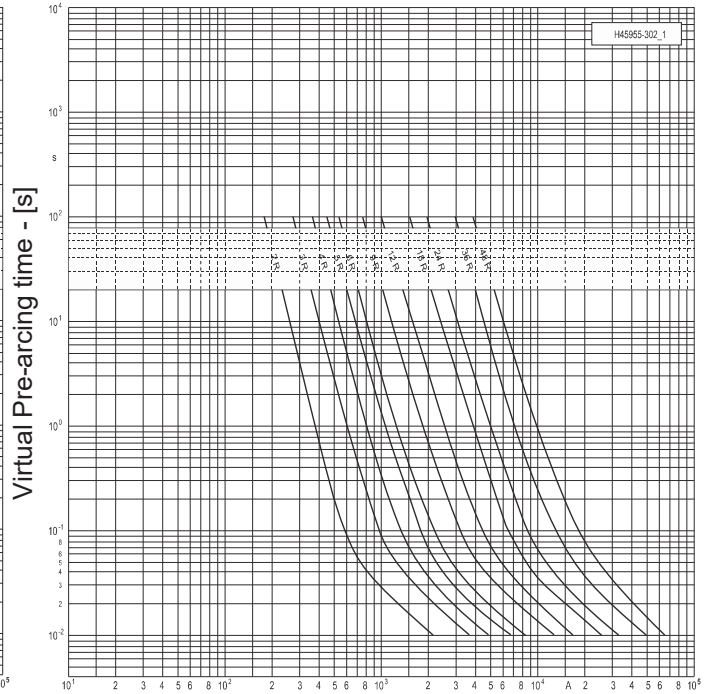
HHBM-BR High Voltage Current-Limiting Fuses							Standard(s)		
5.5kV - according to IEEE C37.41			Motor Applications				IEEE C37.41/46		
7.2kV- Rated Voltage[Un] - according to IEC69282-1			Class				IEC 60282-1		
"L"=403mm			Back-Up				IEC 60644		
Rated current I_n [A]	Article Number	Diameter D [in/mm]	Weight [kg/l]	Rated breaking current I_1 [kA]	Minimum breaking current I_3 [A]	Pre-arcing $I^2 t$ [A ² s]	Total $I^2 t$ @ 0.87U _n [A ² s]	Power loss [W]	Cold resistance [mΩ]
Single Barrel - With 50N Striker									
70	3045955.2R	3.00 / 76	3.1	50		5 400	—	24 000	63
100	3045955.3R	3.00 / 76	3.1	50		9 000	—	41 400	106
130	3045955.4R	3.00 / 76	3.1	50		0 400	—	91 500	112
150	3045955.5R	3.00 / 76	3.1	50		37 600	—	169 000	119
170	3045955.6R	3.00 / 76	3.1	50		62 200	—	280 000	125
200	3045955.9R	3.00 / 76	3.1	50		100 000	—	462 000	123
230	3045955.12R	3.00 / 76	3.1	50		170 000	—	764 000	118
Double Barrel - With 50N Striker									
390	3046055.18R	3.00 / 76	6.2	50		402 000	—	1 850 000	246
450	3046055.24R	3.00 / 76	6.2	50		678 000	—	3 053 000	236
Triple Barrel - With 50N Striker									
650	3046155.36R	3.00 / 76	9.3	50		1 527 000	—	6 869 000	354
700	3046155.48R	3.00 / 76	9.3	50		2 776 000	—	12 477 000	476

Contact SIBA

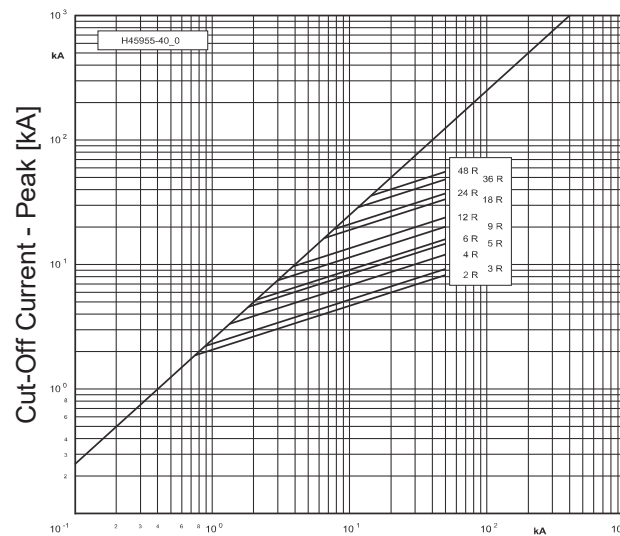


**HHBM-BR Time-Current Characteristics - Minimum Melting and Total Clearing
Cut-Off Current Diagram**
Current-Limiting, Back-Up, 3.6kV, "L" = 254mm (2R - 48R)

3045955.2R - 12R, 3046055.18R - 24R, 3046155.36R - 48R

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.

SIBA LLC

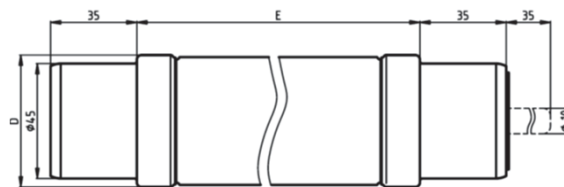
29 Fairfield Place
West Caldwell, New Jersey 07006

Phone 1-973-575-7422
Fax 1-973-575-5858

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

HHDM-BM**3/3.6kV - Rated Voltage****High Voltage Current-Limiting Fuses****Motor Applications****Standard(s)****DIN 43 625****IEC 60282-1****IEC 60644****VDE 0670-4****E=292mm****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 (Max) [A ² s]	Power loss ¹ [W]	Cold resistance [mΩ]
Single Barrel - With 80N Striker and Temperature Limiter									
50	3020153.50	2.09 / 53	1.7	50	140	3 400	—	11 000	13
63	3020153.63	2.09 / 53	1.7	50	165	5 400	—	17 000	10
80	3020153.80	2.09 / 53	1.7	50	200	6 110	—	20 000	8.5
100	3020153.100	2.09 / 53	1.7	50	285	14 000	—	44 000	5.6
125	3020253.125	2.64 / 67	2.6	50	375	25 000	—	78 000	4.3
160	3020253.160	2.64 / 67	2.6	50	490	64 000	—	199 000	2.7
Single Barrel - With 120N Striker									
200	3020054.200	3.35 / 85	3.9	50	690	121 000	—	376 000	1.9
224	3020054.224	3.35 / 85	3.9	50	790	144 000	—	448 000	1.7
250	3020054.250	3.35 / 85	3.9	50	1 050	307 000	—	952 000	1.2
315	3020054.315	3.35 / 85	3.9	50	1 260	615 000	—	1 500 000	0.84
Double Barrel - With 120N Striker									
355	3020554.355	3.35 / 85	8.4	50	2 130	760 000	—	2 360 000	0.75
400	3020554.400	3.35 / 85	8.4	50	2 400	1 060 000	—	3 290 000	0.69
450	3020554.450	3.35 / 85	8.4	50	2 700	1 230 000	—	3 800 000	0.59

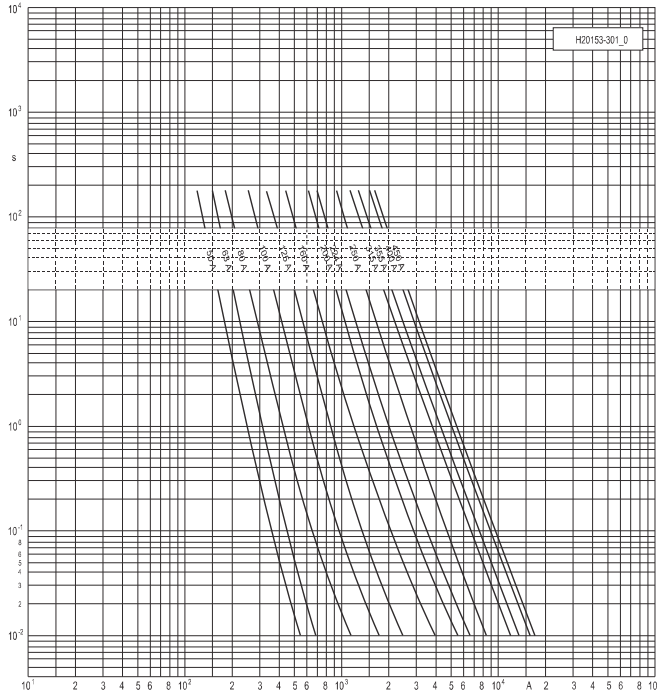
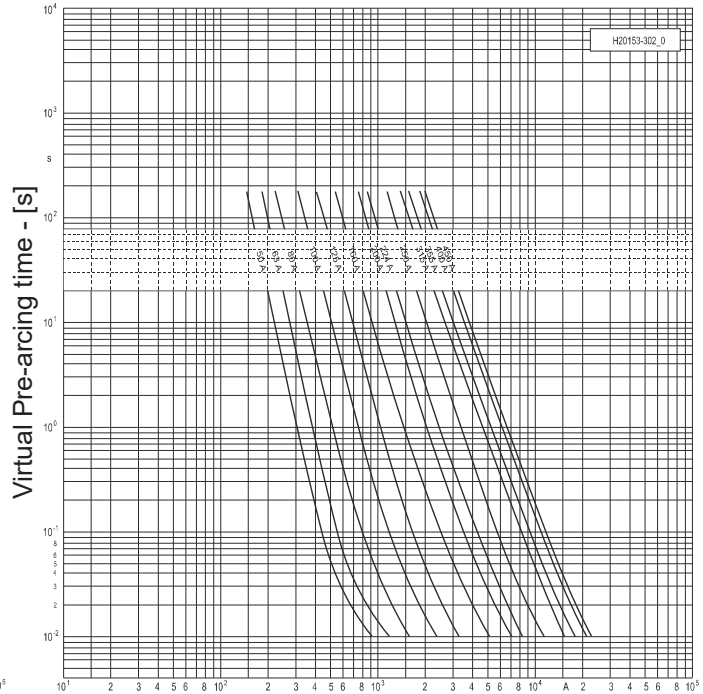
¹ At rated current per IEC 60282-1**Dimensions [mm]****Accessories**

Article Description	≤ 200A	> 200A	Page(s)
Fuse base, indoor	3100302	3100306	188
Fuse base, outdoor	3100401	3100406	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

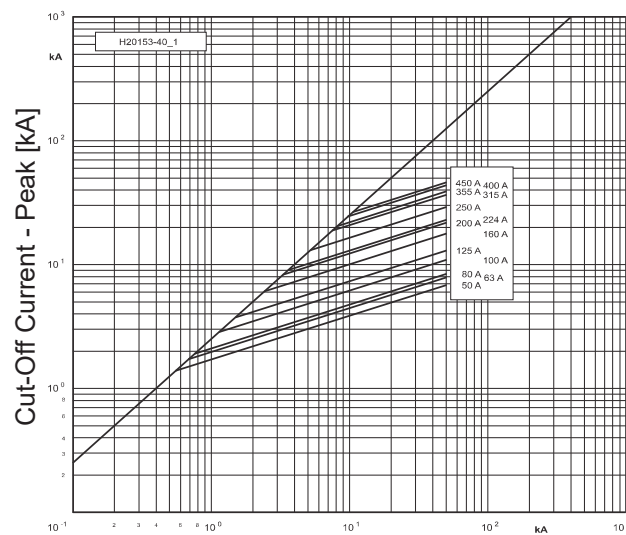
SIBA LLCPhone 1-973-575-7422
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West Caldwell, New Jersey 07006portal: www.siballc.net
e-mail: info@sibafuse.com

HHDM-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, 3020554.355 - 450

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.

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HHDM-BM

3/7.2kV - Rated Voltage

High Voltage Current-Limiting Fuses

Motor Applications

Standard(s)

DIN 43 625

IEC 60282-1

IEC 60644

VDE 0670-4

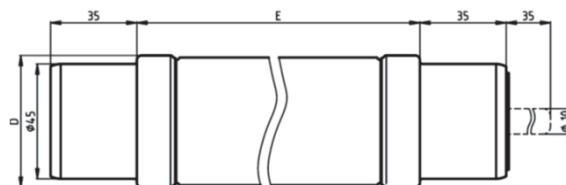
E=442mm

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 $I^2 t$ [A ² s]	Total $I^2 t$ @ 0.87 _n (Max) [A ² s]	Power loss ¹ [W]	Cold resistance [mΩ]
Single Barrel - With 80N Striker and Temperature Limiter									
50	3010853.50	2.09 / 53	2.5	50	140	3 400	—	16 000	23
63	3010853.63	2.09 / 53	2.5	50	165	5 400	—	25 000	49
80	3010853.80	2.09 / 53	2.5	50	200	6 110	—	29 000	72
100	3010853.100	2.09 / 53	2.5	50	280	14 000	—	65 000	74
125	3010953.125	2.64 / 67	3.7	50	375	25 000	—	115 000	81
160	3010953.160	2.64 / 67	3.7	50	490	64 000	—	295 000	91
Single Barrel - With 120N									
200	3011054.200	3.35 / 85	5.7	50	690	121 000	—	559 000	89
224	3011054.224	3.35 / 85	5.7	50	790	144 000	—	694 000	103
250	3011054.250	3.35 / 85	5.7	50	1 050	307 000	—	1 480 000	98
315	3011054.315	3.35 / 85	5.7	50	1 260	627 000	—	3 000 000	120
Double Barrel - With 120N Striker									
355	3011154.355	3.35 / 85	11.4	50	2 130	759 000	—	3 700 000	131
400	3011154.400	3.35 / 85	11.4	50	2 400	903 000	—	4 400 000	150
450	3011154.450	3.35 / 85	11.4	50	2 700	1 230 000	—	5 950 000	163

¹ At rated current per IEC 60282-1

Dimensions [mm]



Accessories

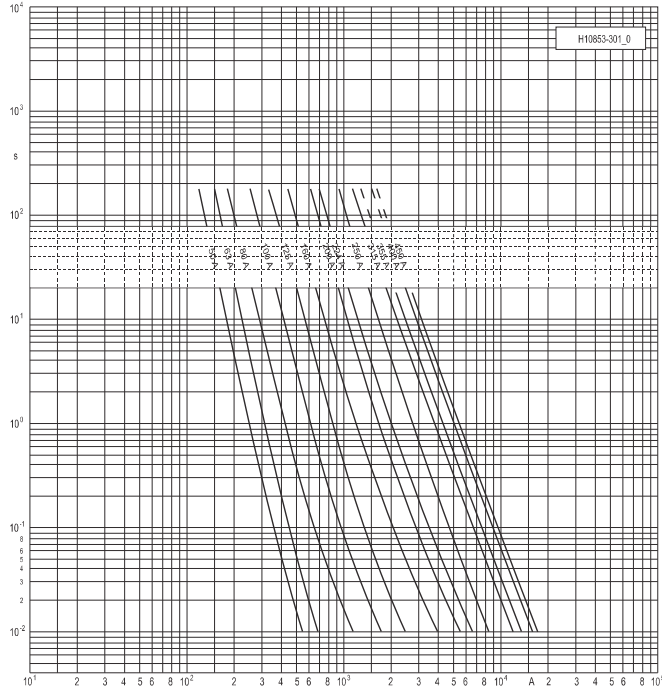
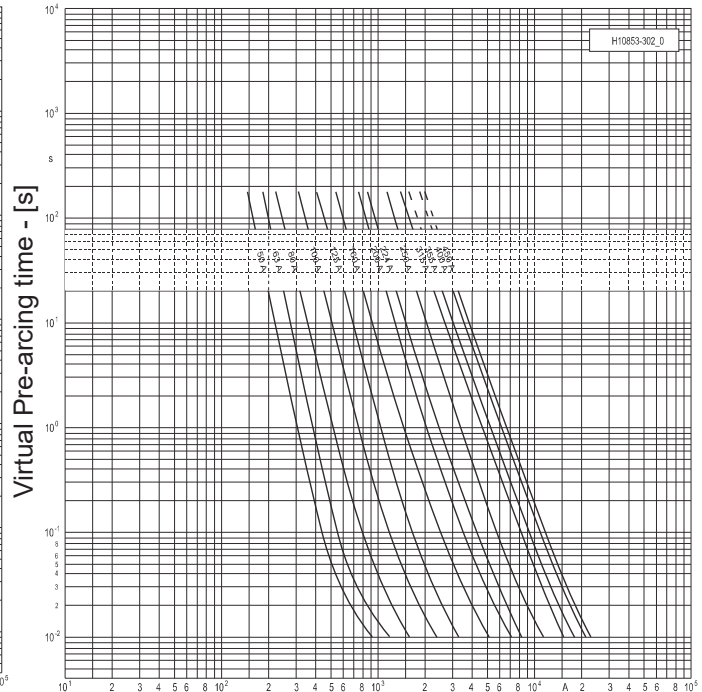
Article Description	≤ 200A	> 200A	Page(s)
Fuse base, indoor	3110102	3110106	188
Fuse base, outdoor	—	—	—
Fuse clips	3100302.20	—	190
Fuse clips w/connecting bar	3400201	—	
Microswitch assembly, * preferred	250mm - 3100116, 660mm - 3100110 & 3100210*, 900mm - 3100114, 1200mm - 3100117		187

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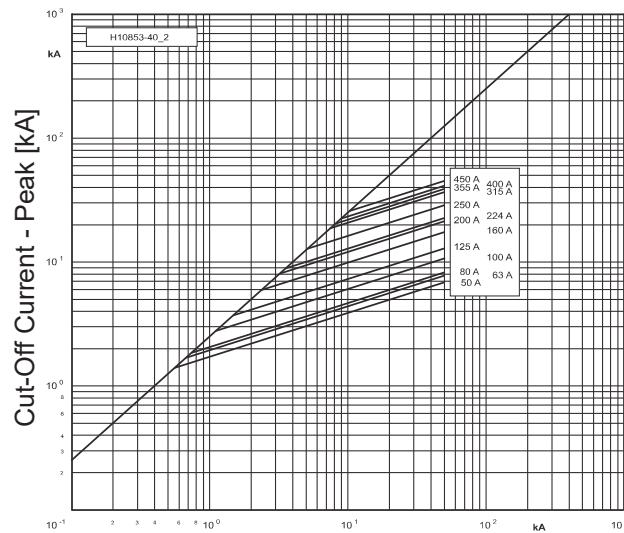
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West Caldwell, New Jersey 07006portal: www.siballc.net
e-mail: info@sibafuse.com

**HHDM-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.)

Full size graphs available upon request.

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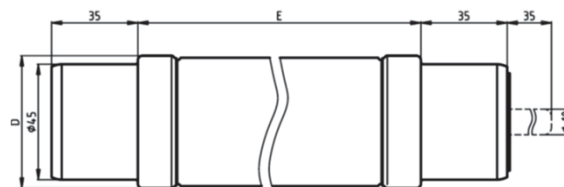
HHDM-BM
6/12kV - Rated Voltage
High Voltage Current-Limiting Fuses
Motor Applications
Standard(s)
 DIN 43 625
 IEC 60282-1
 IEC 60644
 VDE 0670-4

E=442mm
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 $I^2 t$ [A ² s]	Total $I^2 t$ @ 0.87U _n (Max) [A ² s]	Power loss ¹ [W]	Cold resistance [mΩ]
Single Barrel - With 80N Striker and Temperature Limiter									
50	3010153.50	2.09 / 53	2.6	50	140	3 400	—	22 000	18
63	3010153.63	2.09 / 53	2.6	50	165	5 400	—	35 000	15
80	3010253.80	2.64 / 67	3.7	50	200	6 200	—	41 000	12
100	3010253.100	2.64 / 67	3.7	50	285	14 000	—	92 000	8.0
125	3010253.125	2.64 / 67	3.7	50	375	25 000	—	163 000	6.0
160	3010353.160	3.35 / 85	5.7	50	490	64 000	—	417 000	3.8
With 120N Striker									
200	3010354.200	3.35 / 85	5.7	50	690	121 000	—	789 000	2.7
RC224*	3010354.250	3.43 / 87	5.7	63	900	307 000	—	1 900 000	1.6

*Rated current per IEC 60282-1
RC = Please see page 11

¹ At rated current per IEC 60282-1

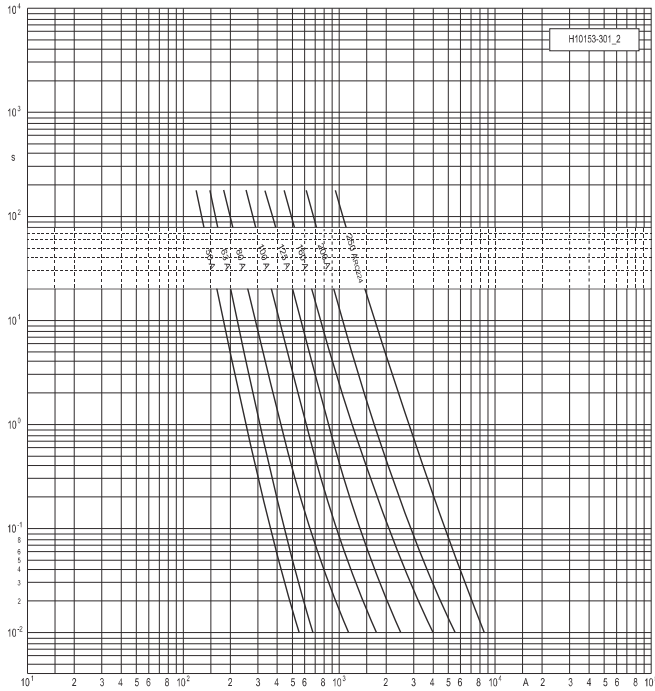

Dimensions [mm]

Accessories

Article Description	≤ 200A	> 200A	Page(s)
Fuse base, indoor	3110102	3110106	188
Fuse base, outdoor	—	—	—
Fuse clips	3100302.20	—	190
Fuse clips w/connecting bar	3400201	—	
Microswitch assembly, * preferred	250mm - 3100116, 660mm - 3100110 & 3100210*, 900mm - 3100114, 1200mm - 3100117		187

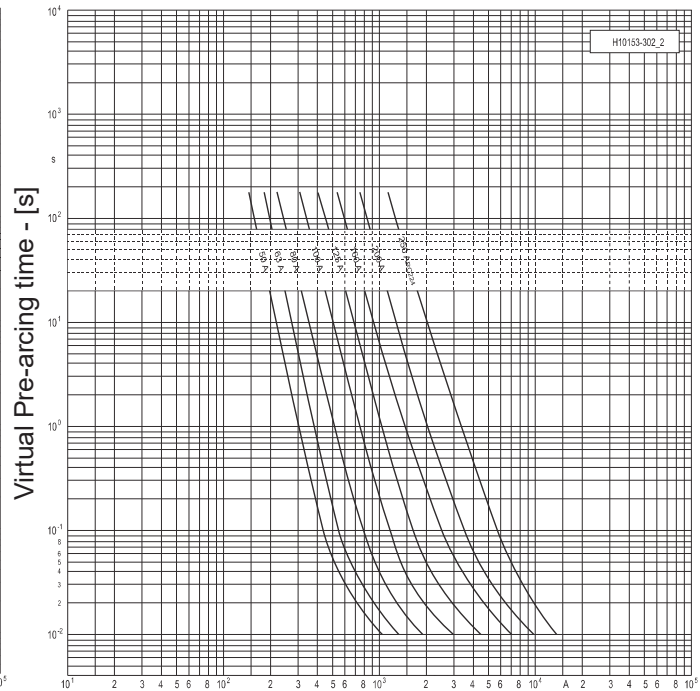
HHDM-BM Time-Current Characteristics - Minimum Melting and Total Clearing
Cut-Off Current Diagram
Current-Limiting, Back-Up, 6/12kV, E = 442mm (50A - 200A)

3010153.50 - 63, 3010253.80 - 125, 3010353.160, 3010354.200

Minimum Melting

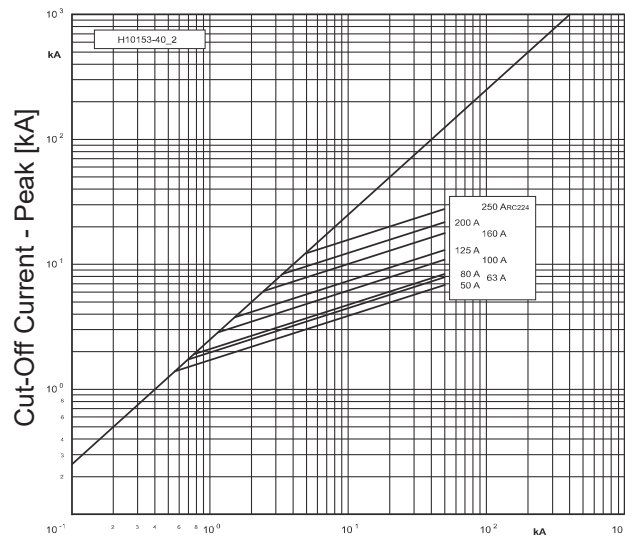


Total Clearing



R.M.S. Prospective Current [A]

Cut-Off Current



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

Full size graphs available upon request.

HHDM-BR

7.2kV - Rated Voltage
Tested @ 1.06U_n(7.65kV)

High Voltage Current-Limiting Fuses**Motor Applications****R - Rated****Class****Back-Up****Standard(s)**

IEEE C37.40

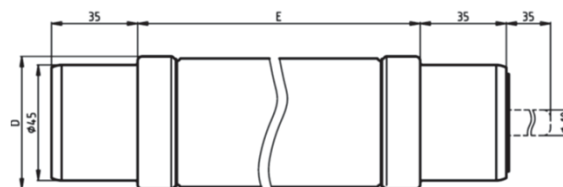
IEEE C37.41

IEEE C37.46

IEEE C37.53.1

E=442mm

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 @ 7.65kV [A ² s]	Power loss [W]	Cold resistance [mΩ]
Single Barrel - With 80N Striker and Temperature Limiter									
70	3010855.2R	2.09 / 53	2.5	80	200	6 200	—	40 000	9.2
100	3010855.3R	2.09 / 53	2.5	80	300	11 400	—	85 000	6.7
130	3010955.4R	2.64 / 67	3.7	80	400	25 000	—	158 000	4.2
150	3010955.5R	2.64 / 67	3.7	80	500	39 000	—	246 400	3.4
170	3010955.6R	2.64 / 67	3.7	80	600	68 000	—	430 000	2.6
200	3011055.9R	3.35 / 85	5.7	80	700	144 000	—	940 000	1.7
230	3011055.12R	3.35 / 85	5.7	80	800	256 000	—	1 700 000	1.3
Double Barrel									
390	18R							Contact SIBA	
450	24R							Contact SIBA	
Triple Barrel									
650	36R							Contact SIBA	
700	48R							Contact SIBA	

**Dimensions [mm]****Accessories**

Article Description	≤ 200A	> 200A	Page(s)
Fuse base, indoor	3110102	3110106	188
Fuse base, outdoor	Contact SIBA	—	—
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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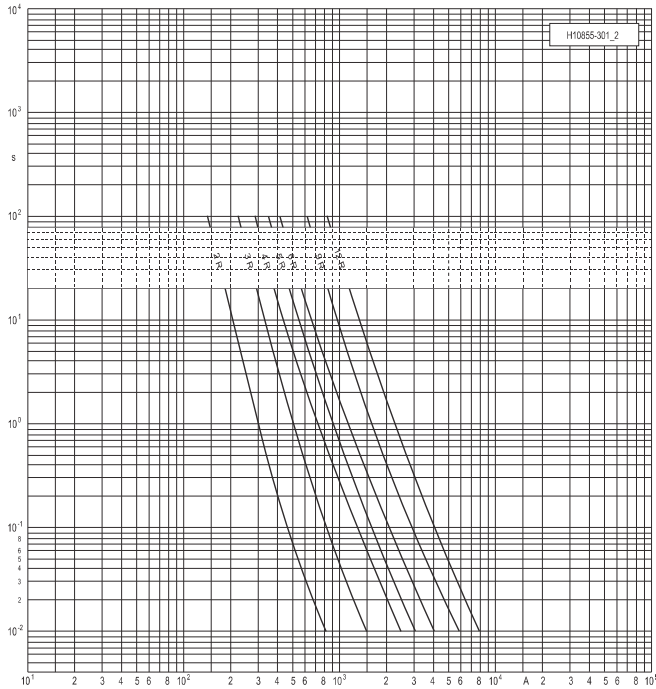
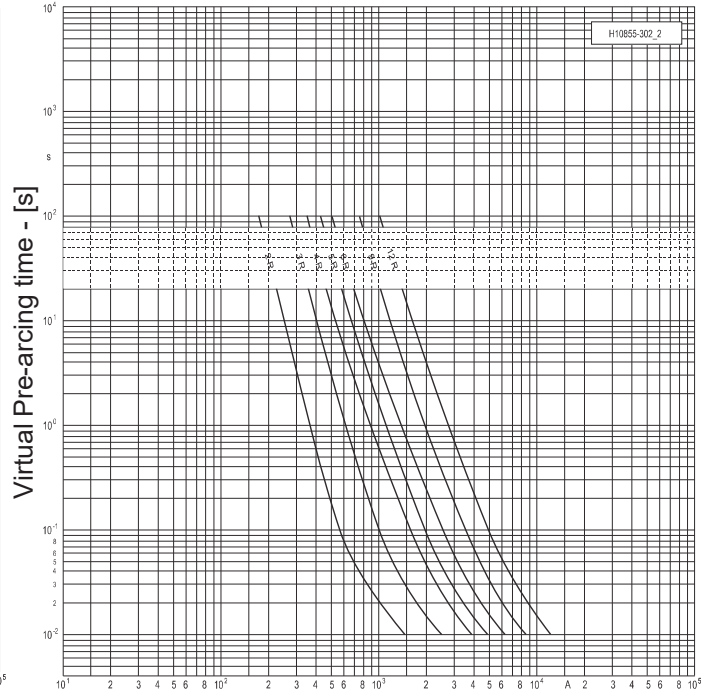
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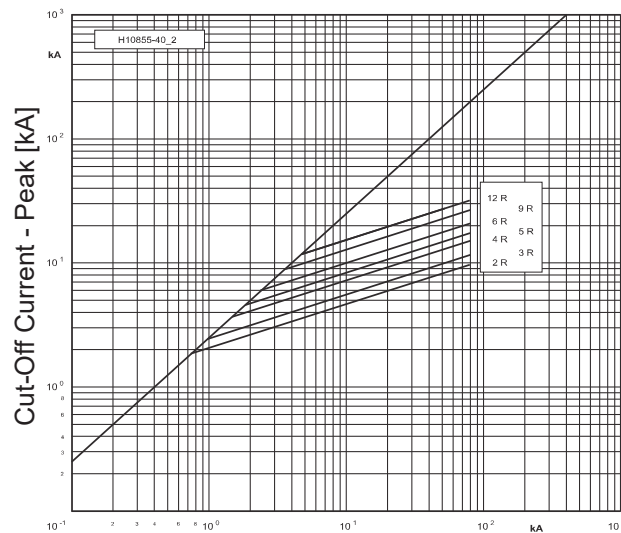
portal: www.siballc.net
 e-mail: info@sibafuse.com

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

3010855.2R - 3R, 3010955.4R - 6R, 3011055.9R - 12R

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.

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