

Fuses for Semiconductor Protection

Knife Blade Contacts - German Standard



SIBA Ultra-Rapid NH knife blade contact type fuses are available in various sizes and four voltage ratings. They follow DIN/VDE-IEC standards and can be fitted in an open fuse base. Usage in the fuse bases requires comparison between the power loss of the fuse and the power acceptance of the fuse base or switch. All SIBA type NH fuses are available with either integral blown fuse indicator or a separately fitted trip indicator microswitch operation.

Class: gR/aR

Voltage Ratings 500V_{AC}, 690V_{AC}, 1000V_{AC} & 2000V_{AC}

Sizes: 000, 00, 0, 1, 2 and 3

Current Ratings 16A - 800A

Standards: UL248-13 - New
 DIN 43620
 DIN 43653

Features and Benefits

- ▶ High current interrupt ratings up to 120kA
- ▶ Class gR to DIN VDE 0636-40
- ▶ Class aR to IEC 60269-4 and DIN VDE 0636-40
- ▶ Fuse bases, fuse switches, microswitches and other accessories are available

URM

Fuses for Semiconductor Protection - German Standard

Article Number	Description		Selection Guide	Technical Data
NH000/00,NH0, NH1, NH2, & NH3				
500V _{AC}				
2000004	NH000 knife blade contacts	With fitting for microswitch	405	405 - 406
2000104	NH00 knife blade contacts	With fitting for microswitch		
2000704	NH00 knife blade contacts	With integrated striker		
2000204	NH0 knife blade contacts	With fitting for microswitch	407	407 - 408
2000804	NH0 knife blade contacts	With integrated striker		
2000304	NH1 knife blade contacts	With fitting for microswitch	409	409 - 410
2000904	NH1 knife blade contacts	With integrated striker		
2000404	NH2 knife blade contacts	With fitting for microswitch	411	411 - 412
2001004	NH2 knife blade contacts	With integrated striker		
2000504	NH3 knife blade contacts	With fitting for microswitch	413	413 - 414
2001104	NH3 knife blade contacts	With integrated striker		
690V _{AC}				
2047720	NH000 knife blade contacts	With fitting for microswitch	415	415 - 416
2020920	NH00 knife blade contacts	With fitting for microswitch		
2021120	NH1 knife blade contacts	With fitting for microswitch	417	417 - 418
2021220	NH2 knife blade contacts	With fitting for microswitch	419	419 - 420
2021320	NH3 knife blade contacts	With fitting for microswitch	421	421 - 422
700V _{AC} - UL				
2021132	NH1 knife blade contacts	With fitting for microswitch	423	423 - 424
2021232	NH2 knife blade contacts	With fitting for microswitch	427	427 - 428
2021332	NH3 knife blade contacts	With fitting for microswitch	427	427 - 428
1000V _{AC}				
2038404	NH0 knife blade contacts	With fitting for microswitch	429	429 - 430
660V _{AC}				
2037304	NH3 bolted blade contacts 107mm	With fitting for microswitch	431	431 - 432
1000V _{AC}				
2040704	NH3 bolted blade contacts 127mm	With fitting for microswitch	433	433 - 434
2000V _{AC}				
2040404	NH3 bolted blade contacts 208mm	With fitting for microswitch	435	435 - 436

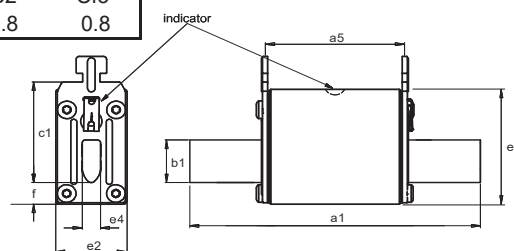
URM - NH000/00	Rated Voltage [U _n] 500V _{AC}	Rated Breaking Test Capacity 120kA	Class gR≤100A aR≥125A	Standard(s) IEC 60269-4 VDE 0636-4
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Rated current I _n [A]	W/ Combi-Indicator and fitting for microswitch Article Number	With integrated signal indicator Article Number	Pre-arcing I ² t [A ² s]	Total I ² t* @ 500V _{AC} [A ² s]	Power loss [W]
6	2000004.6	2000704.6	0.72	10	2.7
10	2000004.10	2000704.10	3	42	2.6
16	2000004.16	2000704.16	10	140	4.8
20	2000004.20	2000704.20	17	185	5.7
25	2000004.25	2000704.25	20	305	6.7
32	2000004.32	2000704.32	67	460	8.1
35	2000004.35	2000704.35	82	650	9
40	2000004.40	2000704.40	90	800	10
50	2000004.50	2000704.50	190	1 400	12
63	2000004.63	2000704.63	330	2 600	14
80	2000004.80	2000704.80	510	4 200	19
100	2000104.100	2000704.100	920	7 600	21
125	2000104.125	2000704.125	1 660	12 300	25
160	2000104.160	2000704.160	2 800	19 500	30
200	2000104.200		4 800	33 500	36
Weight[kg / 1]					
0.11/ 0.15		0.19			

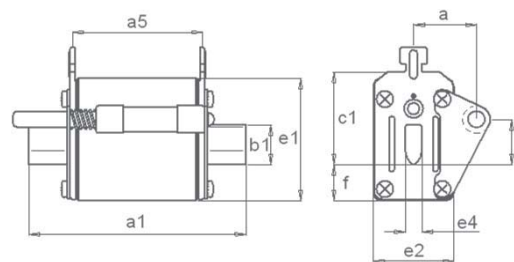
Coefficients for Heavy Duty Applications

a	A2	B1 _{max}	B2	Cf3
130	0.6	1.25	0.8	0.8

	Dimensions [in / mm]		
	2000004	2000104	2000704
a5	1.85 / 47	1.85 / 47	1.85 / 47
a1	3.07 / 78	3.07 / 78	3.07 / 78
b1	0.60 / 15	0.60 / 15	0.60 / 15
e4	0.24 / 6	0.24 / 6	0.24 / 6
e1	1.60 / 40.5	1.80 / 46	1.80 / 46
e2	0.81 / 20.5	1.16 / 29.5	1.16 / 29.5
f	0.28 / 7	0.51 / 13	0.51 / 13
c1	1.38 / 35	1.38 / 35	1.38 / 35
a	-	-	0.91 / 23
b	-	-	0.67 / 17



2000004 / 2000104



2000704

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
2000004 / 2000104			2000704		
Fuse Base, 1-Pole	2100101	549	Fuse base, 1-Pole	2100701	553
Fuse Base, 3-Pole	2100103				
Microswitch (black hammer)	2800201	540			
(UL File E309038)	2800203				

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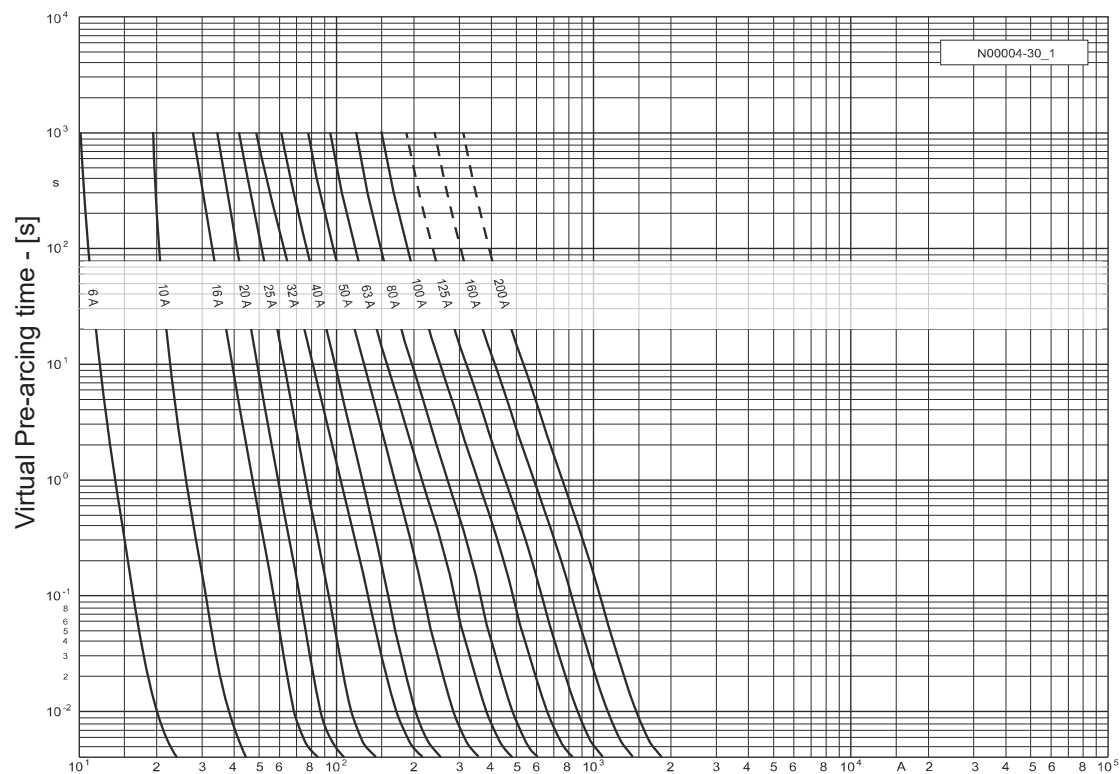
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URM - NH000/00	Rated Voltage	Rated Breaking Test Class		Standard(s)	
	[U _n] 500V _{AC}	Capacity 120kA	Voltage 500V _{AC}	gR≤100A aR≥125A	IEC 60269-4 VDE 0636-4

Time-Current Characteristics

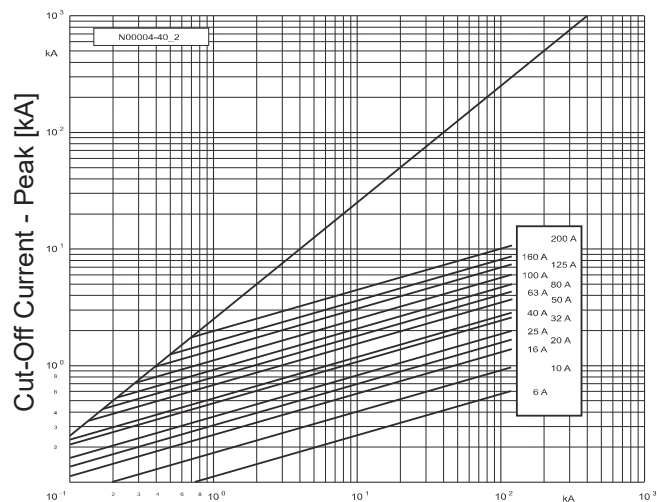


R.M.S. Prospective Current [A]

Full size graphs available upon request

Cut-Off Current Characteristics

Correction Curves



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



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URM - NH0	Rated Voltage [U _n] 500V _{AC}	Rated Breaking Test Capacity 120kA	Class gR≤100A aR≥125A	Standard(s) IEC 60269-4 VDE 0636-4
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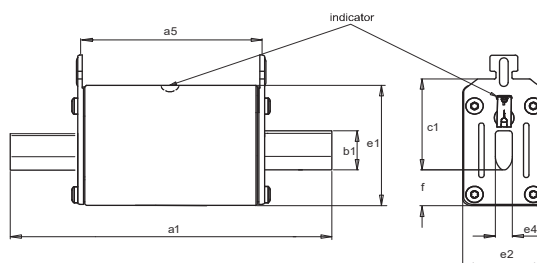
Rated current I _n [A]	W/ Combi-Indicator and fitting for microswitch Article Number	With integrated signal indicator Article Number	Pre-arcing I ² t [A ² s]	Total I ² t* @ 500V _{AC} [A ² s]	Power loss [W]
16	2000204.16	2000804.16	10	140	6.1
20	2000204.20	2000804.20	17	185	7.2
25	2000204.25	2000804.25	20	305	8.6
32	2000204.32	2000804.32	67	460	10
35	2000204.35	2000804.35	82	650	11
40	2000204.40	2000804.40	90	800	12
50	2000204.50	2000804.50	190	1 400	15
63	2000204.63	2000804.63	330	2 600	18
80	2000204.80	2000804.80	510	4 200	21
100	2000204.100	2000804.100	920	7 600	25
125	2000204.125	2000804.125	1 660	12 300	30
160	2000204.160	2000804.160	2 800	19 500	36
Weight [kg / 1]					
0.24		—			



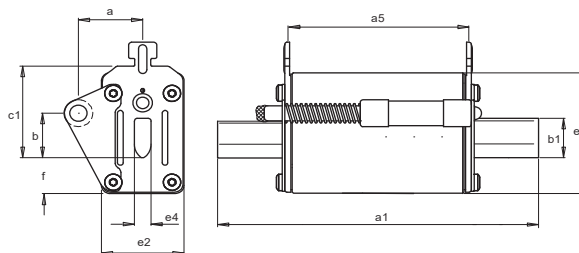
Coefficients for Heavy Duty Applications				
a	A2	B1 _{max}	B2	Cf3
130	0.6	1.25	0.6	0.8

Dimensions [in / mm]		
	2000204	2000804
a5	2.56 / 65	2.56 / 65
a1	4.92 / 125	4.92 / 125
b1	0.60 / 15	0.60 / 15
e4	0.24 / 6	0.24 / 6
e1	1.80 / 46	1.80 / 46
e2	1.16 / 29.5	1.16 / 29.5
f	0.51 / 13	0.51 / 13
c1	1.38 / 35	1.38 / 35
a	-	0.91 / 23
b	-	0.67 / 17

Microswitch (black hammer)	Standard
(UL File E309038)	Low Level



2000204



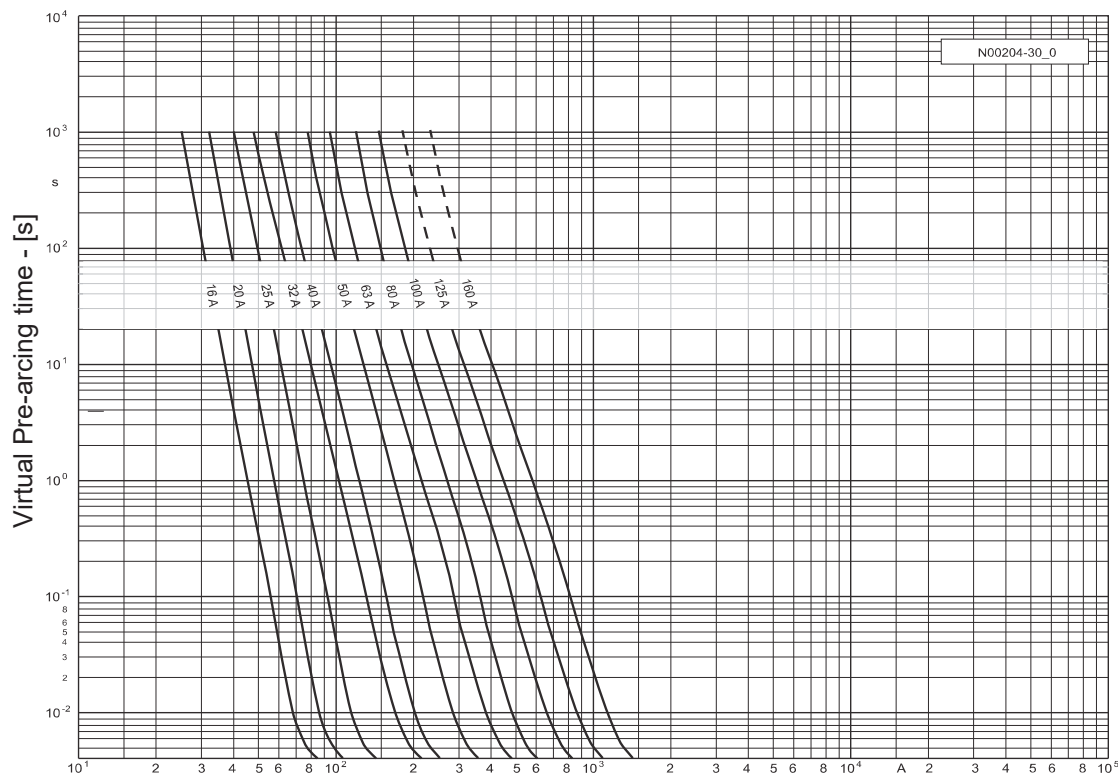
2000804

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
2000204			2000804		
Fuse base, 1-Pole	2100204	550	Fuse base, 1-Pole	2100801	553
Microswitch (black hammer)	2800201	540			
(UL File E309038)	2800203				

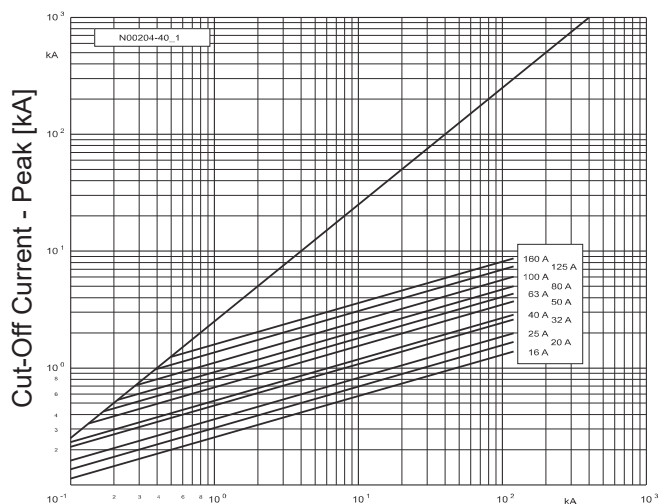
URM - NH0	Rated Voltage [U _n] 500V _{AC}	Rated Breaking Test Capacity 120kA	Class gR≤100A aR≥125A	Standard(s) IEC 60269-4 VDE 0636-4
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Time-Current Characteristics



R.M.S. Prospective Current [A]
Full size graphs available upon request

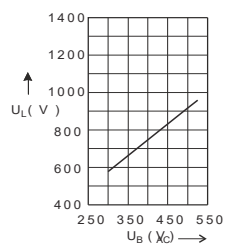
Cut-Off Current Characteristics



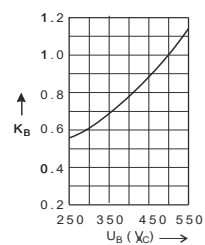
Prospective Short Circuit Current [kA]
(Symmetrical r.m.s.)

Correction Curves

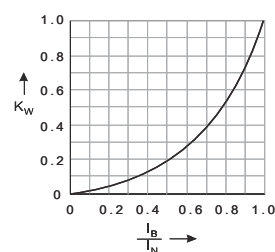
Arc Voltage-Diagram



Reduction factor for total i²t-value



Reduction factor for power Loss



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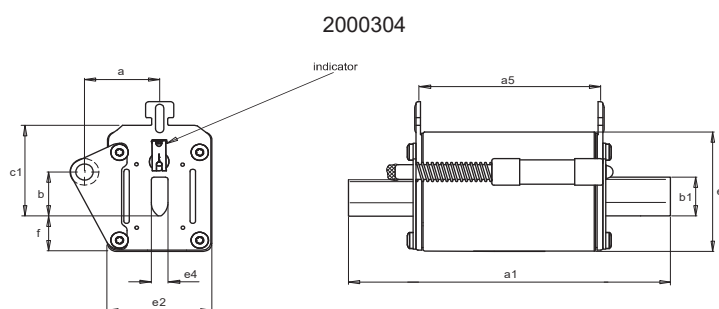
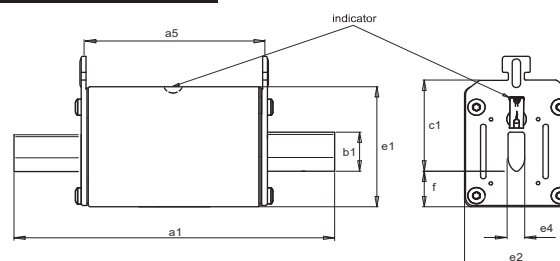
URM - NH1	Rated Voltage [U _n] 500V _{AC}	Rated Breaking Test Capacity 120kA	Class gR≤100A aR≥125A	Standard(s) IEC 60269-4 VDE 0636-4
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Rated current I _n [A]	W/ Combi-Indicator and fitting for microswitch Article Number	With integrated signal indicator Article Number	Pre-arcing I ² t [A ² s]	Total I ² t* @ 500V _{AC} [A ² s]	Power loss [W]
63	2000304.63	2000904.63	330	2 600	18
80	2000304.80	2000904.80	510	4 200	22
100	2000304.100	2000904.100	920	7 600	27
125	2000304.125	2000904.125	1 160	12 300	33
160	2000304.160	2000904.160	2 400	19 500	40
200	2000304.200	2000904.200	5 800	37 000	40
224	2000304.224	2000904.224	7 600	42 000	53
250	2000304.250	2000904.250	9 600	55 000	62
315	2000304.315	2000904.315	14 000	90 000	79
Weight [kg / 1]					
0.37		0.40			



Coefficients for Heavy Duty Applications				
a	A2	B1 _{max}	B2	Cf3
130	0.6	1.25	0.6	0.8

	Dimensions [in / mm]		
	2000304	≥200A	2000904
a5	2.56 / 65	2.56 / 65	2.56 / 65
a1	5.30 / 135	5.30 / 135	5.30 / 135
b1	0.79 / 20	0.79 / 20	0.79 / 20
e4	0.24 / 6	0.24 / 6	0.24 / 6
e1	1.80 / 46	2.03 / 51.5	2.03 / 51.5
e2	1.16 / 29.5	1.65 / 42	1.65 / 42
f	0.30 / 8	0.55 / 14	0.55 / 14
c1	1.57 / 40	1.57 / 40	1.57 / 40
a	-	-	1.57 / 30.5
b	-	-	0.94 / 24

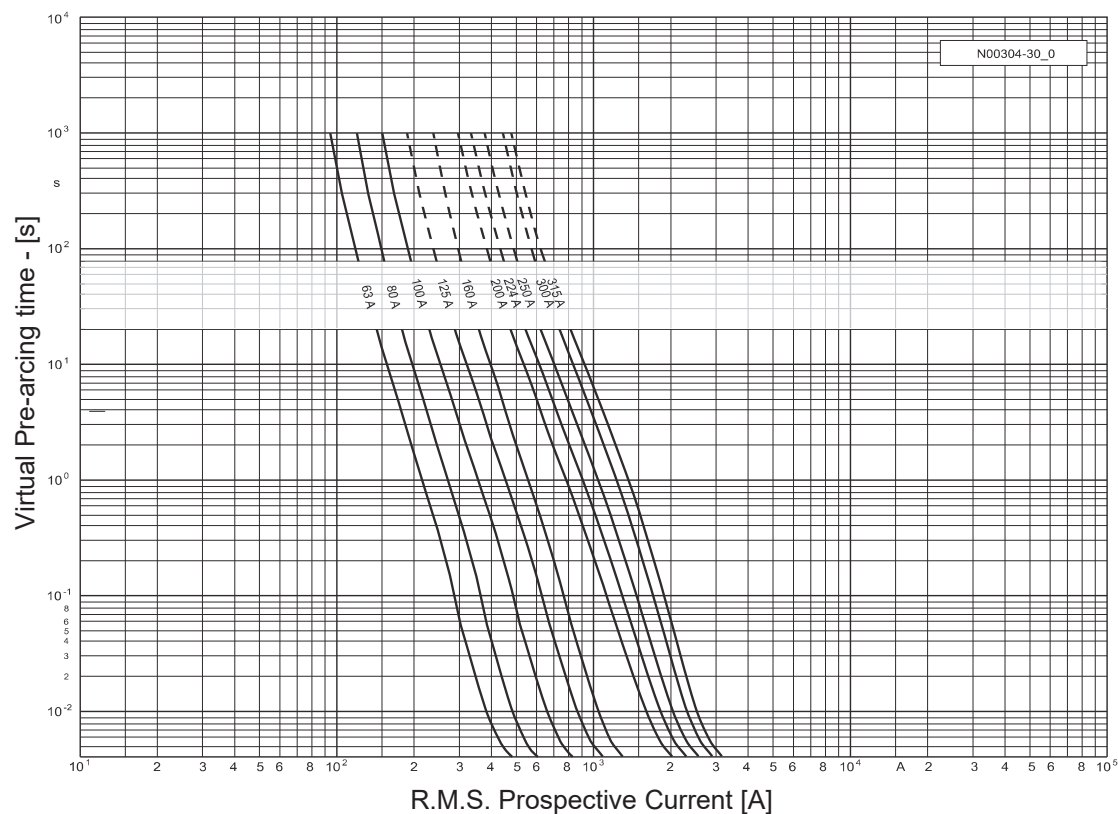


Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
2000304			2000904		
Fuse base, 1-Pole	2100301	551	Fuse base, 1-Pole	2100901	554
Fuse base, 3-Pole	2100303				
Microswitch (red hammer)	2800202	540			
(UL File E309038)	2800204				

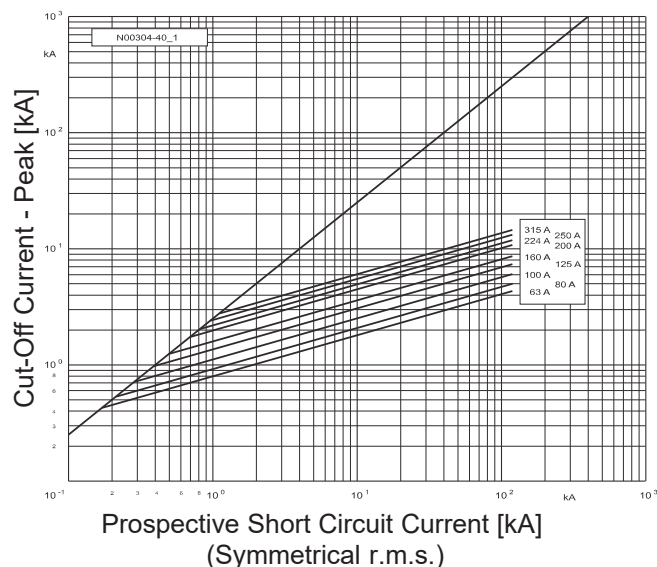
URM - NH1	Rated Voltage [U _n] 500V _{AC}	Rated Breaking Test Capacity 120kA	Class gR≤100A aR≥125A	Standard(s) IEC 60269-4 VDE 0636-4
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Time-Current Characteristics

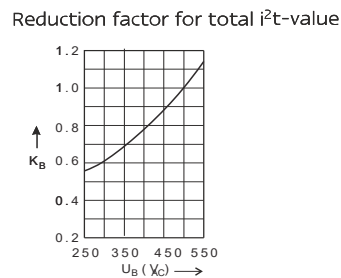
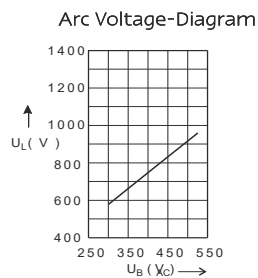


Full size graphs available upon request

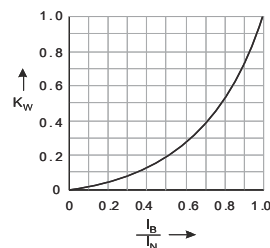
Cut-Off Current Characteristics



Correction Curves



Reduction factor for power Loss



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URM - NH2	Rated Voltage [U _n] 500V _{AC}	Rated Breaking Test Capacity 120kA	Class gR≤100A aR≥125A	Standard(s) IEC 60269-4 VDE 0636-4 UL 248-13
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Rated current I _n [A]	W/ Combi-Indicator and fitting for microswitch Article Number	With integrated signal indicator Article Number	Pre-arcing I ² t [A ² s]	Total I ² t* @ 500V _{AC} [A ² s]	Power loss [W]
32	2000404.32	2001004.32	67	550	7.4
40	2000404.40	2001004.40	90	740	9.2
50	2000404.50	2001004.50	190	1 560	11.5
63	2000404.63	2001004.63	330	2 700	14.5
80	2000404.80	2001004.80	510	4 260	18
100	2000404.100	2001004.100	920	7 600	23
125	2000404.125	2001004.125	1 660	12 300	29
160	2000404.160	2001004.160	2 800	19 500	40
200	2000404.200	2001004.200	5 800	37 000	40
224	2000404.224	2001004.224	7 600	39 000	44
250	2000404.250	2001004.250	9 600	51 000	51
315	2000404.315	2001004.315	14 000	84 000	69
355	2000404.355	2001004.355	20 000	125 000	81
400	2000404.400	2001004.400	27 000	155 000	94
450	2000404.450		38 000	219 000	105
500	2000404.500		47 000	271 000	117
550	2000404.550		57 000	328 000	125
630	2000404.630		80 000	460 000	142

Weight [kg / 1]

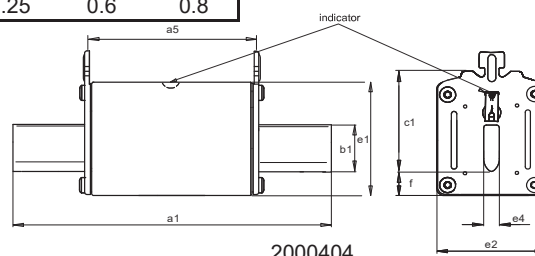
0.44

0.70

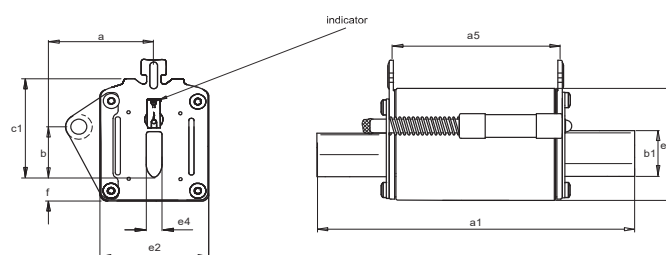
Coefficients for Heavy Duty Applications

a	A2	B1 _{max}	B2	Cf3
130	0.6	1.25	0.6	0.8

	Dimensions [in / mm]		
	2000404		2001004
	≤250A	≥315A	
a5	2.56 / 65	2.56 / 65	2.56 / 65
a1	5.90 / 150	5.90 / 150	5.90 / 150
b1	0.80 / 20	1.02 / 26	1.02 / 26
e4	0.24 / 6	0.24 / 6	0.24 / 6
e1	2.03 / 51.5	2.32 / 59	2.32 / 59
e2	1.65 / 42	2.10 / 53	2.10 / 53
f	0.55 / 14	0.55 / 14	0.55 / 14
c1	1.90 / 48	1.90 / 48	1.90 / 48
a	-	-	1.65 / 42
b	-	-	1.10 / 28



2000404



2001004

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
2000404			2001004		
Fuse base, 1-Pole	2100401	552	Fuse base, 1-Pole	2101001	554
Fuse base, 3-Pole	2100403				
Microswitch (red hammer)	2800202	540			
(UL File E309038)	2800204				

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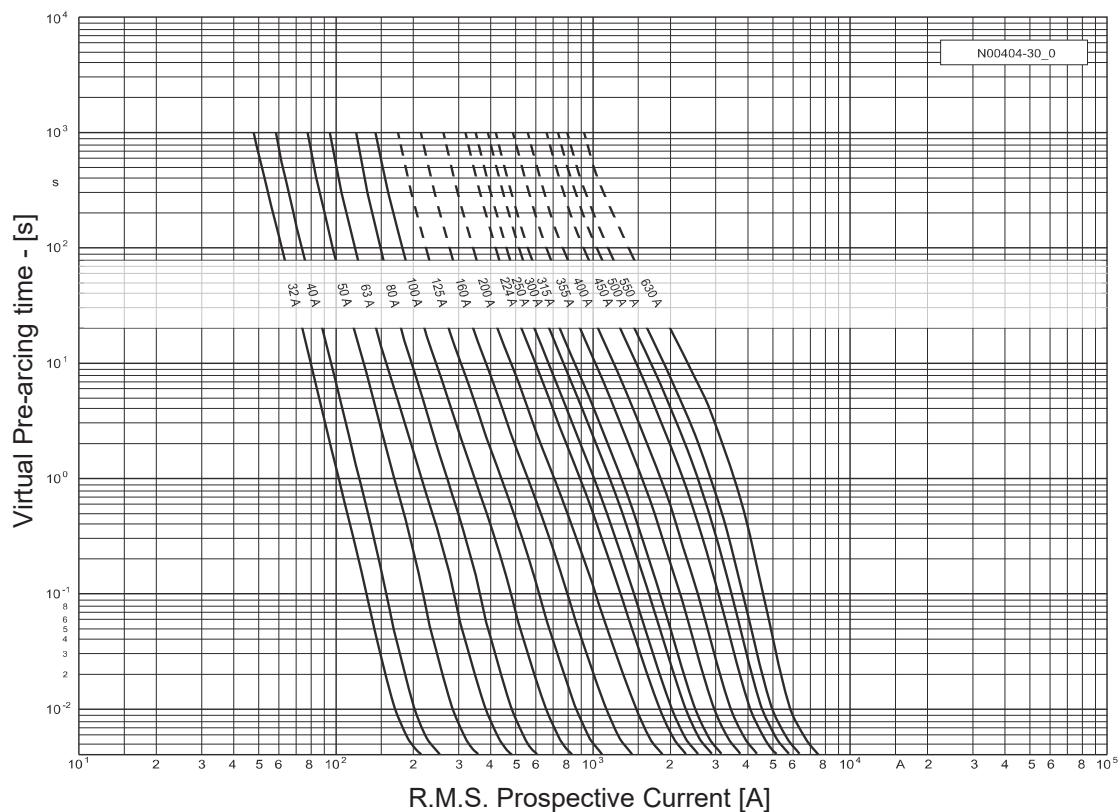
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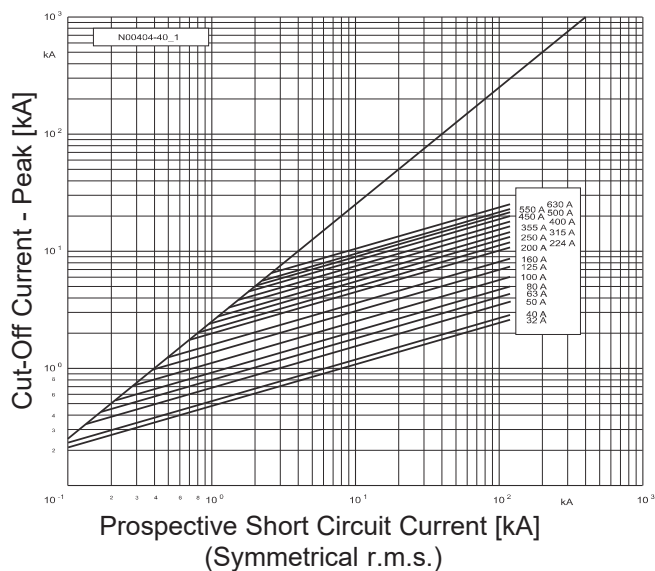
URM - NH2	Rated Voltage [U _n] 500V _{AC}	Rated Breaking Test Capacity 120kA	Class gR≤100A aR≥125A	Standard(s) IEC 60269-4 VDE 0636-4 UL 248-13
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Time-Current Characteristics

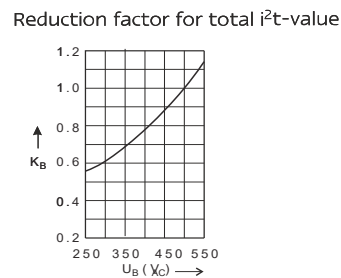
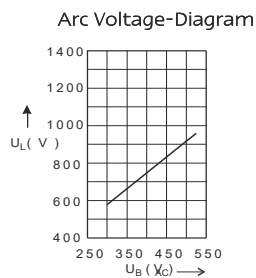


R.M.S. Prospective Current [A]
Full size graphs available upon request

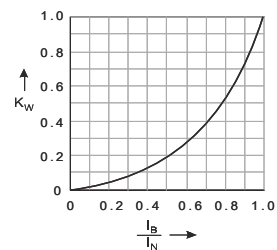
Cut-Off Current Characteristics



Correction Curves



Reduction factor for power Loss



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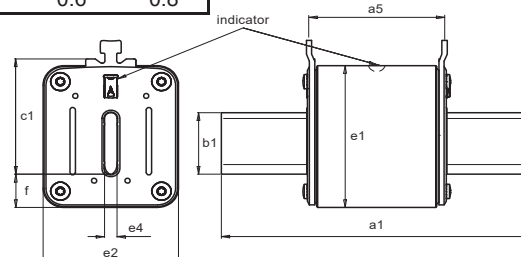
portal: www.siballc.net
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URM - NH3	Rated Voltage [U _n] 500V _{AC}	Rated Breaking Test Capacity 120kA	Class aR	Standard(s) IEC 60269-4 VDE 0636-4
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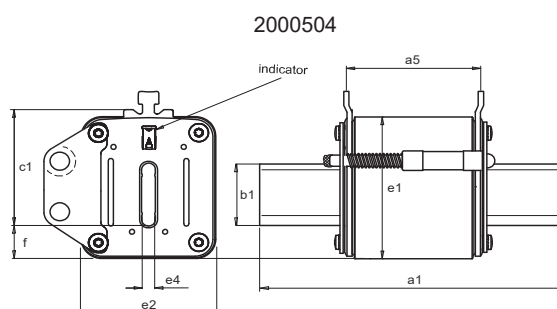
Rated current I _n [A]	W/ Combi-Indicator and fitting for microswitch Article Number	With integrated signal indicator Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @ 500V _{AC} [A ² s]	Power loss [W]
160	2000504.160	2001104.160		2 800	19 500	48
200	2000504.200	2001104.200		5 800	37 000	56
224	2000504.224	2001104.224		7 600	39 000	61
250	2000504.250	2001104.250		9 600	51 000	65
315	2000504.315	2001104.315		14 000	84 000	76
355	2000504.355	2001104.355		20 000	125 000	83
400	2000504.400	2001104.400		27 000	155 000	85
450	2000504.450	2001104.450		38 000	219 000	90
500	2000504.500	2001104.500		47 000	271 000	98
550	2000504.550	2001104.550		57 000	328 000	110
630	2000504.630	2001104.630		80 000	470 000	122
700	2000504.700	2001104.700		106 000	560 000	135
Weight [kg / 1]						
0.62 / 0.91			0.93			



Coefficients for Heavy Duty Applications				
a	A2	B1 _{max}	B2	Cf3
130	0.6	1.25	0.6	0.8



	Dimensions [in / mm]		
	2000504		2001104
	≤400A	≥450A	
a5	2.56 / 65	2.56 / 65	2.56 / 65
a1	5.90 / 150	5.90 / 150	5.90 / 150
b1	1.02 / 26	1.26 / 32	1.26 / 32
e4	0.24 / 6	0.24 / 6	0.24 / 6
e1	2.32 / 59	2.89 / 73.5	2.89 / 73.5
e2	2.10 / 53	2.56 / 65	2.56 / 65
f	0.55 / 14	0.67 / 17	0.67 / 17
c1	2.36 / 60	2.36 / 60	2.36 / 60
a	-	-	1.73 / 44
b	-	-	1.52 / 38.5



2001104

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
2000504			2001104		
Fuse base, 1-Pole	2100501	550	Fuse base, 1-Pole	2101101	555
Microswitch (black hammer) (UL File E309038)	Standard	2800201			
	Low Level	2800203			

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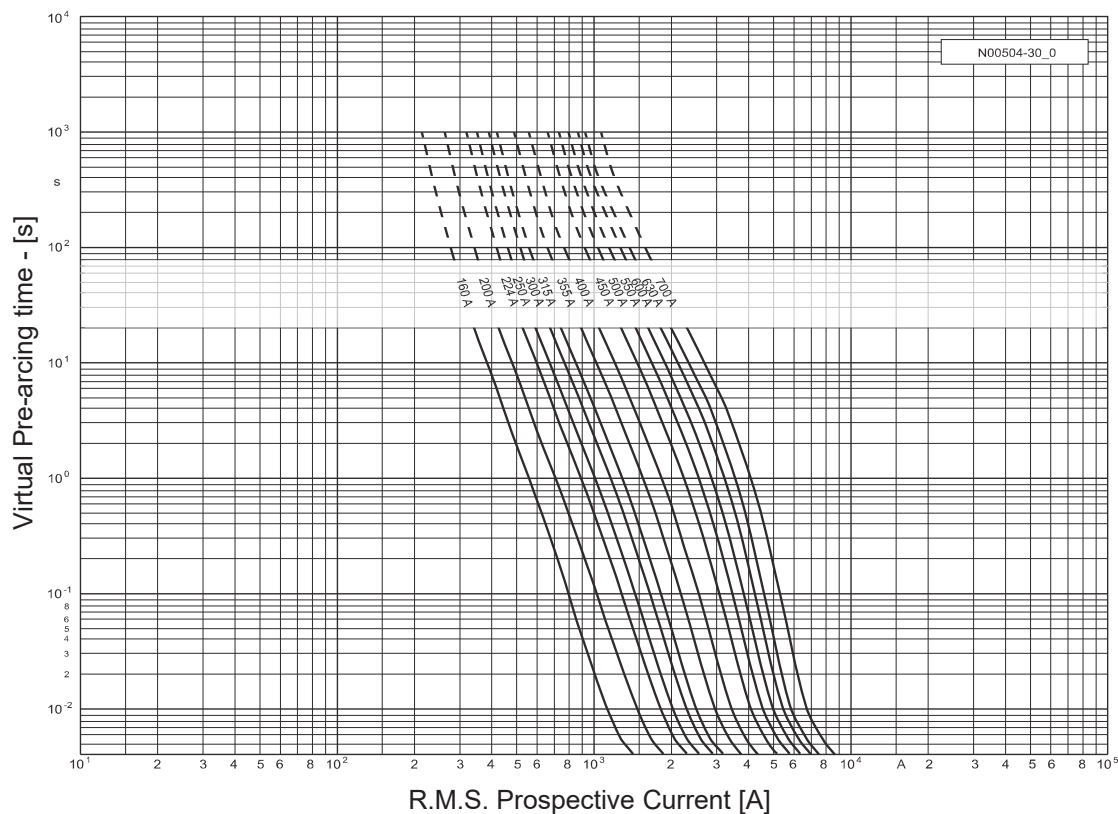
Phone 1-973-575-7422

Fax 1-973-575-5858

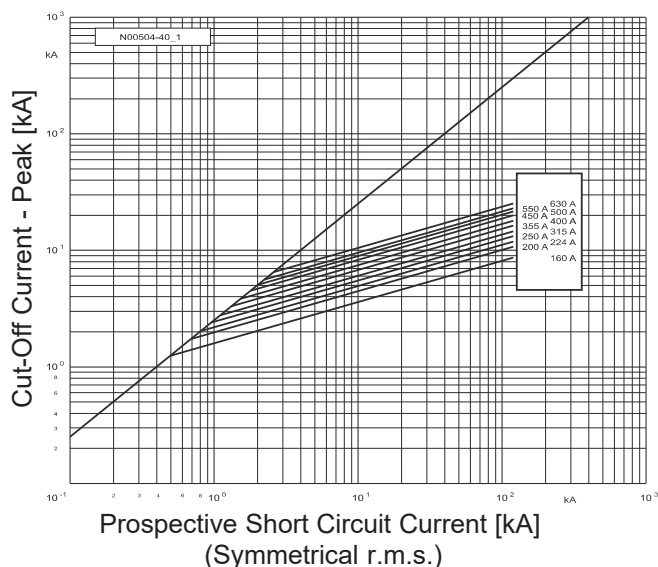
29 Fairfield Place
West Caldwell, New Jersey 07006portal: www.siballc.nete-mail: info@sibafuse.com

URM - NH3	Rated Voltage [U _n] 500V _{AC}	Rated Breaking Test Capacity 120kA	Class aR	Standard(s) IEC 60269-4 VDE 0636-4
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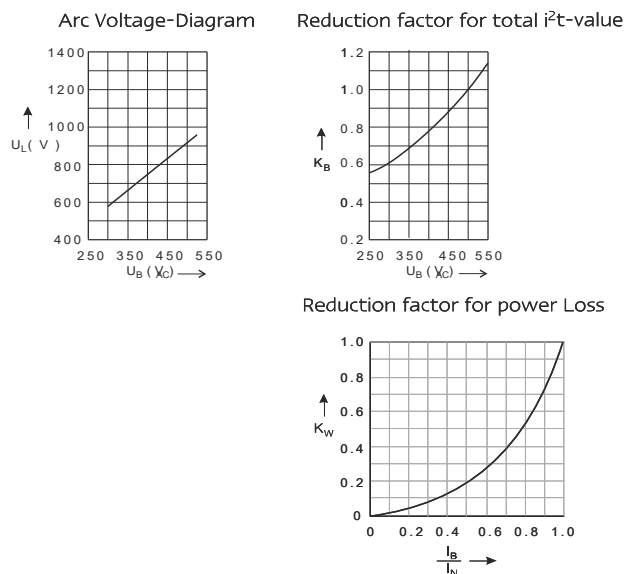
Time-Current Characteristics



Cut-Off Current Characteristics



Correction Curves



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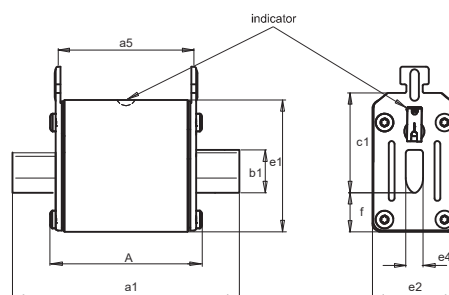
portal: www.siballc.net
e-mail: info@sibafuse.com

URM - NH000/00		Rated Voltage [U _n] 690V _{AC}	Rated Breaking Test Class Capacity 100kA	Voltage 690V _{AC}	gR≤100A aR≥125A	Standard(s) IEC 60269-4 VDE 0636-4
Rated current I _n [A]	W/ Combi-Indicator and fitting for microswitch Article Number	W/ Combi-Indicator and fitting for microswitch Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @ 690V _{AC} [A ² s]	Power loss [W]
	NH000	NH00				
10	2047720.10			2.5	18	2.5
16	2047720.16			5.5	40	4.1
20	2047720.20			12	91	5.5
25	2047720.25			16	110	6.0
32	2047720.32			42	330	6.5
35	2047720.35			53	380	7.1
40	2047720.40			61	450	9.2
50	2047720.50			110	820	14
63		2020920.63		190	1 400	14
80		2020920.80		350	2 600	17
100		2020920.100		610	4 500	21
125		2020920.125		1 200	9 100	25
160		2020920.160		2 100	15 000	32
Weight [kg / 1]						
0.14			0.2			



Coefficients for Heavy Duty Applications					
a	A2	B1 _{max}	B2	Cf3	
130	0.6	1.25	0.6	0.8	

	Dimensions [in / mm]	
	2047720	2020920
A	2.13 / 54	2.13 / 54
a5	1.85 / 47	1.85 / 47
a1	3.07 / 78	3.07 / 78
b1	0.60 / 15	0.60 / 15
e4	0.24 / 6	0.24 / 6
e1	1.60 / 40.5	1.80 / 46
e2	0.81 / 20.5	1.16 / 29.5
f	0.28 / 7	0.51 / 13
c1	1.38 / 35	1.38 / 35



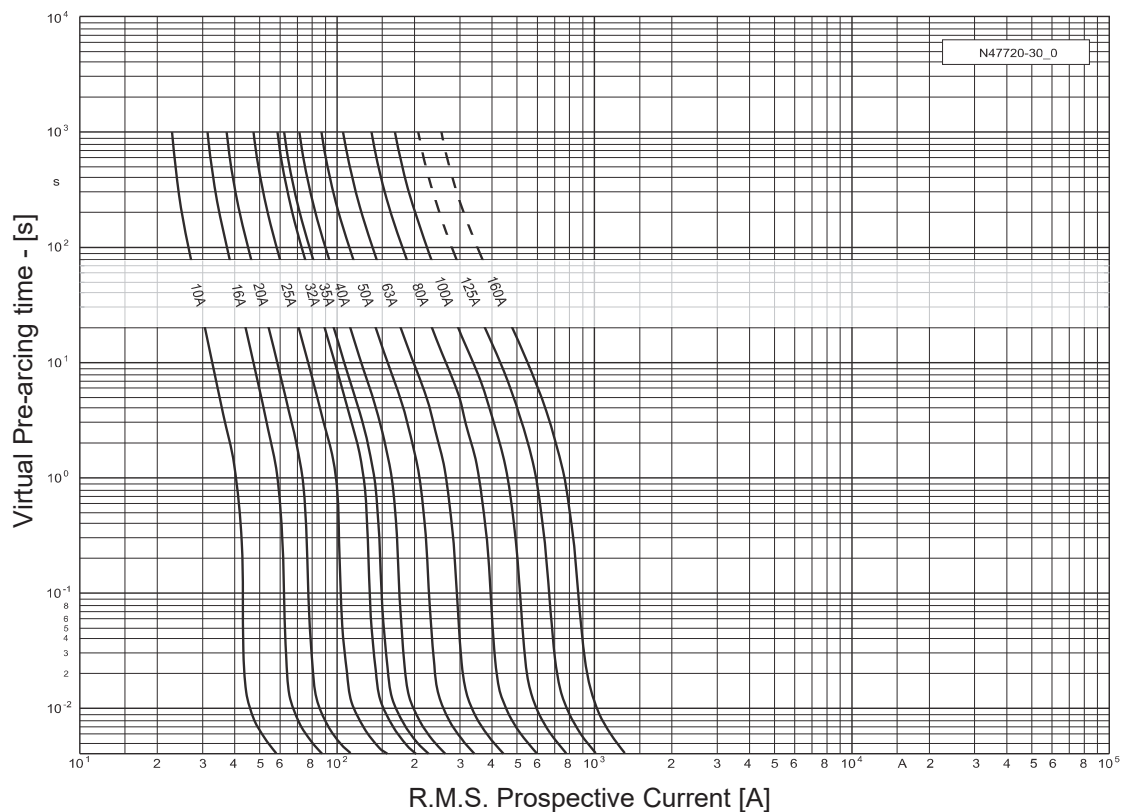
2047704 / 2020920

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base, 1-Pole	2100101	549	Microswitch (red hammer)	2800202	540
Fuse base, 3-Pole	2100103		Standard level	2800204	
			Low level		

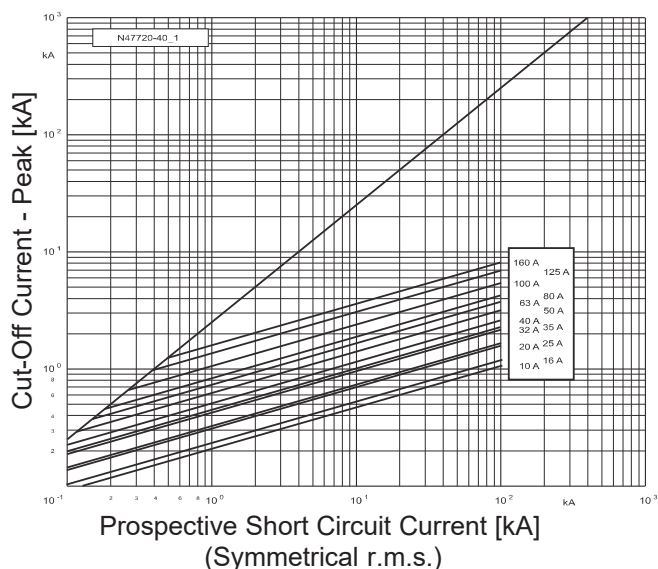
URM - NH000/00	Rated Voltage [U _n] 690V _{AC}	Rated Breaking Test Capacity 100kA	Class gR≤100A aR≥125A	Standard(s) IEC 60269-4 VDE 0636-4
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Time-Current Characteristics

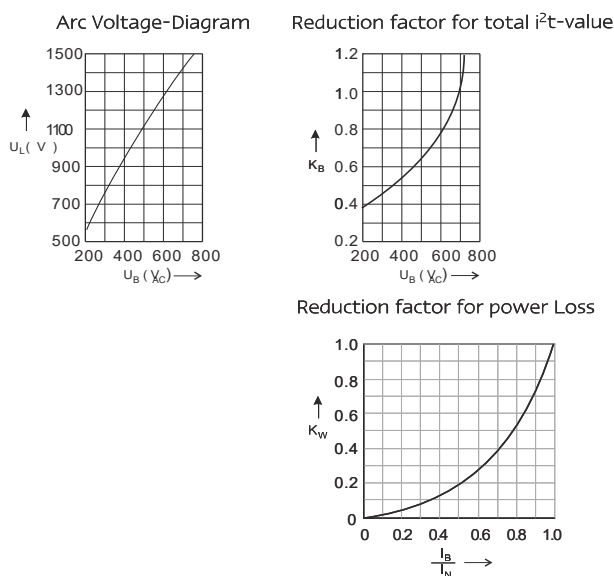


R.M.S. Prospective Current [A]
Full size graphs available upon request

Cut-Off Current Characteristics



Correction Curves



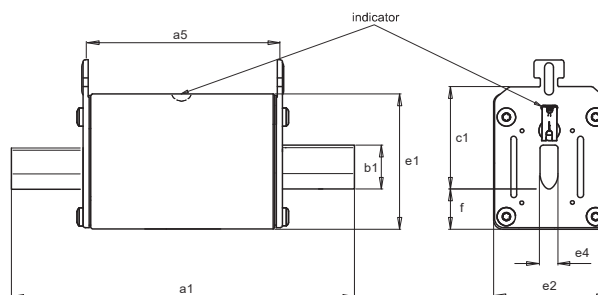
URM - NH1	Rated Voltage [U _n] 690V _{AC}	Rated Breaking Test Capacity 100kA	Class gR≤100A aR≥125A	Standard(s) IEC 60269-4 VDE 0636-4
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Rated current I _n [A]	W/ Combi-Indicator and fitting for microswitch Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @ 690V _{AC} [A ² s]	Power loss [W]
40	2021120.40		80	570	8
50	2021120.50		140	1 000	11
63	2021120.63		250	1 800	14
80	2021120.80		470	3 400	20
100	2021120.100		650	4 700	24
125	2021120.125		1 050	7 600	31
160	2021120.160		1 900	14 000	42
200	2021120.200		2 800	21 000	52
250	2021120.250		5 000	36 000	71
315	2021120.315		11 000	76 000	88
Weight [kg / 1]					
0.48					



Coefficients for Heavy Duty Applications					
a	A2	B1 _{max}	B2	Cf3	
130	0.6	1.25	0.6	0.8	

	Dimensions [in / mm]
a5	2.56 / 65
a1	5.30 / 135
b1	0.89 / 20
e4	0.24 / 6
e1	2.03 / 51.5
e2	1.65 / 42
f	0.55 / 14
c1	1.57 / 40

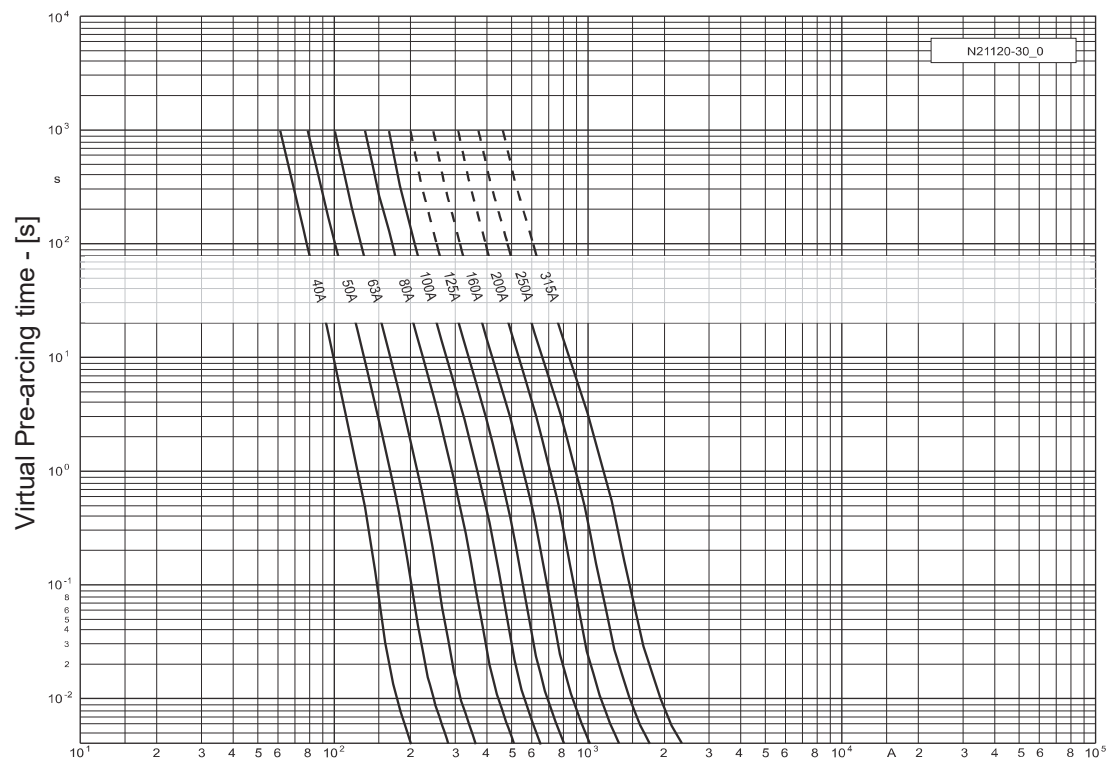


Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base, 1-Pole	2100301	551	Microswitch (red hammer)	2800202	540
Fuse base, 3-Pole	2100303		(UL File E309038)	2800204	

URM - NH1	Rated Voltage [U _n] 690V _{AC}	Rated Breaking Test Capacity 100kA	Class gR≤100A aR≥125A	Standard(s) IEC 60269-4 VDE 0636-4
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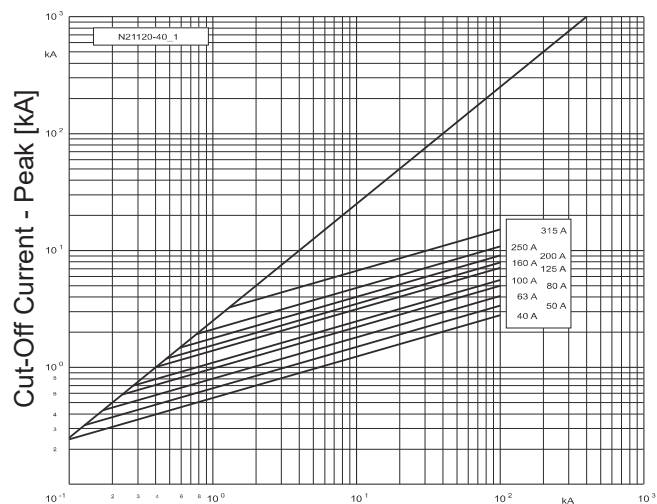
Time-Current Characteristics



R.M.S. Prospective Current [A]

Full size graphs available upon request

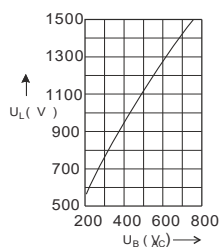
Cut-Off Current Characteristics



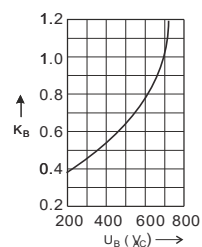
Prospective Short Circuit Current [kA]
(Symmetrical r.m.s.)

Correction Curves

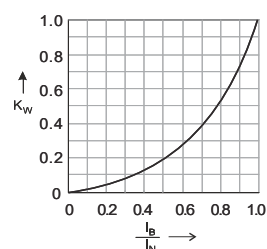
Arc Voltage-Diagram



Reduction factor for total i²t-value



Reduction factor for power Loss



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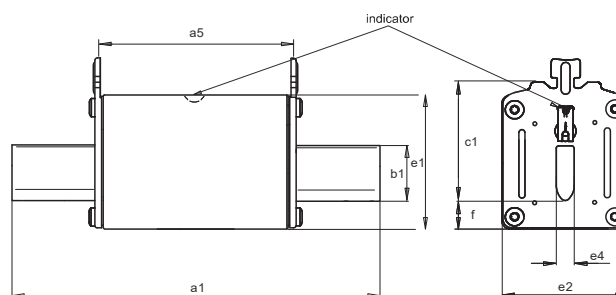
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e-mail: info@sibafuse.com

URM - NH2		Rated Voltage [U _n] 690V _{AC}	Rated Breaking Test Capacity 100kA	Class aR	Standard(s) IEC 60269-4 VDE 0636-4	
Rated current I _n [A]	W/ Combi-Indicator and fitting for microswitch Article Number	W/ Combi-Indicator and fitting for microswitch Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @ 690V _{AC} [A ² s]	Power loss [W]
160	2021220.160			1 900	14 000	42
200	2021220.200			2 800	21 000	52
250	2021220.250			5 000	36 000	71
315		2021220.315		11 000	76 000	79
355		2021220.355		14 000	100 000	85
400		2021220.400		20 000	145 000	95
450		2021220.450		30 000	220 000	100
	Weight [kg / 1]					
	0.52	0.69				



Coefficients for Heavy Duty Applications					
a	A2	B1 _{max}	B2	Cf3	
130	0.6	1.25	0.6	0.8	

	Dimensions [in / mm]	
	250A≤	≥315A
a5	2.56 / 65	2.56 / 65
a1	5.90 / 150	5.90 / 150
b1	0.80 / 20	1.02 / 26
e4	0.24 / 6	0.24 / 6
e1	2.03 / 51.5	2.32 / 59
e2	1.65 / 42	2.10 / 53
f	0.55 / 14	0.55 / 14
c1	1.90 / 48	1.90 / 48

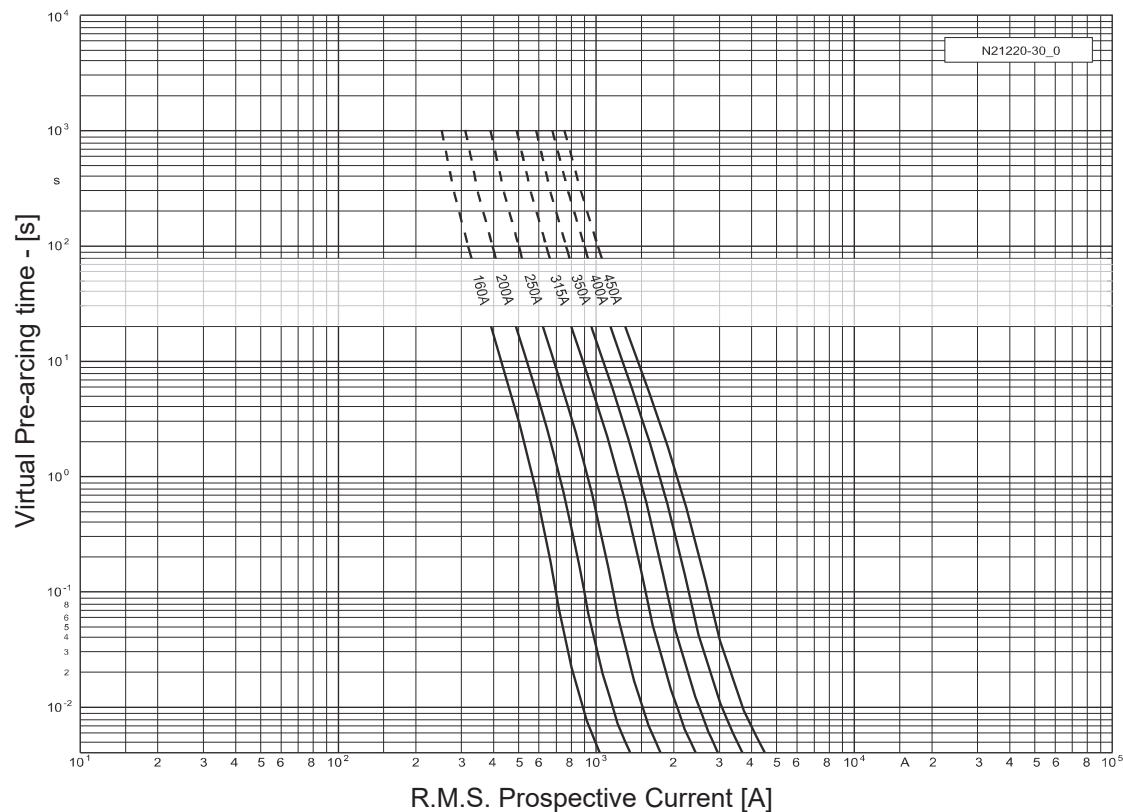


Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base, 1-Pole	2100401	552	Microswitch (red hammer)	2800202	540
Fuse base, 3-Pole	2100403		(UL File E309038)	2800204	

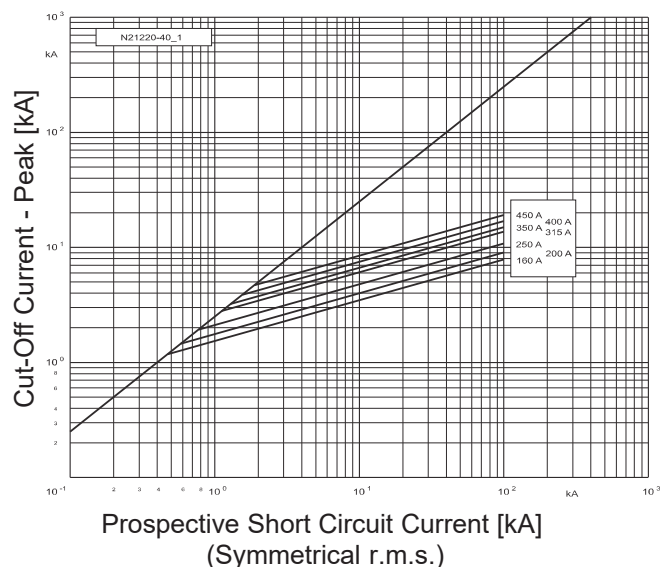
URM - NH2	Rated Voltage [U _n] 690V _{AC}	Rated Breaking Test Capacity 100kA	Class aR	Standard(s) IEC 60269-4 VDE 0636-4
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Time-Current Characteristics

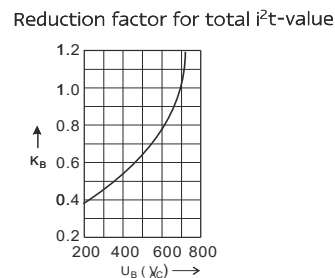
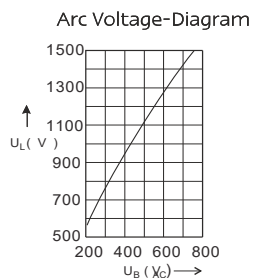


R.M.S. Prospective Current [A]
Full size graphs available upon request

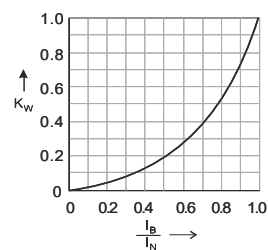
Cut-Off Current Characteristics



Correction Curves



Reduction factor for power Loss



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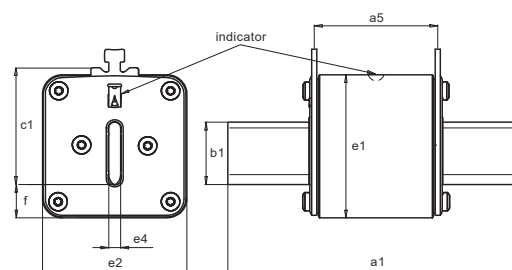
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URM - NH3		Rated Voltage [U _n] 690V _{AC}	Rated Breaking Test Capacity 100kA	Rated Breaking Test Voltage 690V _{AC}	Class aR	Standard(s) IEC 60269-4 VDE 0636-4	
Rated current I _n [A]	W/ Combi-Indicator and fitting for microswitch Article Number	W/ Combi-Indicator and fitting for microswitch Article Number			Pre-arcing I ² t [A ² s]	Total I ² t* @ 690V _{AC} [A ² s]	Power loss [W]
315	2021320.315				11 000	76 000	79
355	2021320.355				14 000	100 000	85
400	2021320.400				20 000	150 000	95
450		2021320.450			30 000	220 000	95
500		2021320.500			42 000	300 000	100
550		2021320.550			55 000	400 000	110
630		2021320.630			67 000	490 000	130
710		2021320.710			84 000	610 000	150
800		2021320.800			144 500	1 050 000	177
	Weight [kg / 1]						
	0.68	1.26					



Coefficients for Heavy Duty Applications				
a	A2	B1 _{max}	B2	Cf3
130	0.6	1.25	0.6	0.8

	Dimensions [in / mm]		
	≤ 400A	≥ 450A	800A
a5	2.56 / 65	2.56 / 65	2.56 / 65
a1	5.90 / 150	5.90 / 150	5.90 / 150
b1	1.02 / 26	1.26 / 32	1.26 / 32
e4	0.24 / 6	0.24 / 6	0.24 / 6
e1	2.32 / 59	2.90 / 73.5	2.90 / 73.5
e2	2.10 / 53	2.56 / 65	2.90 / 87
f	0.55 / 14	0.67 / 17	0.63 / 16
c1	2.36 / 60	2.36 / 60	2.36 / 60

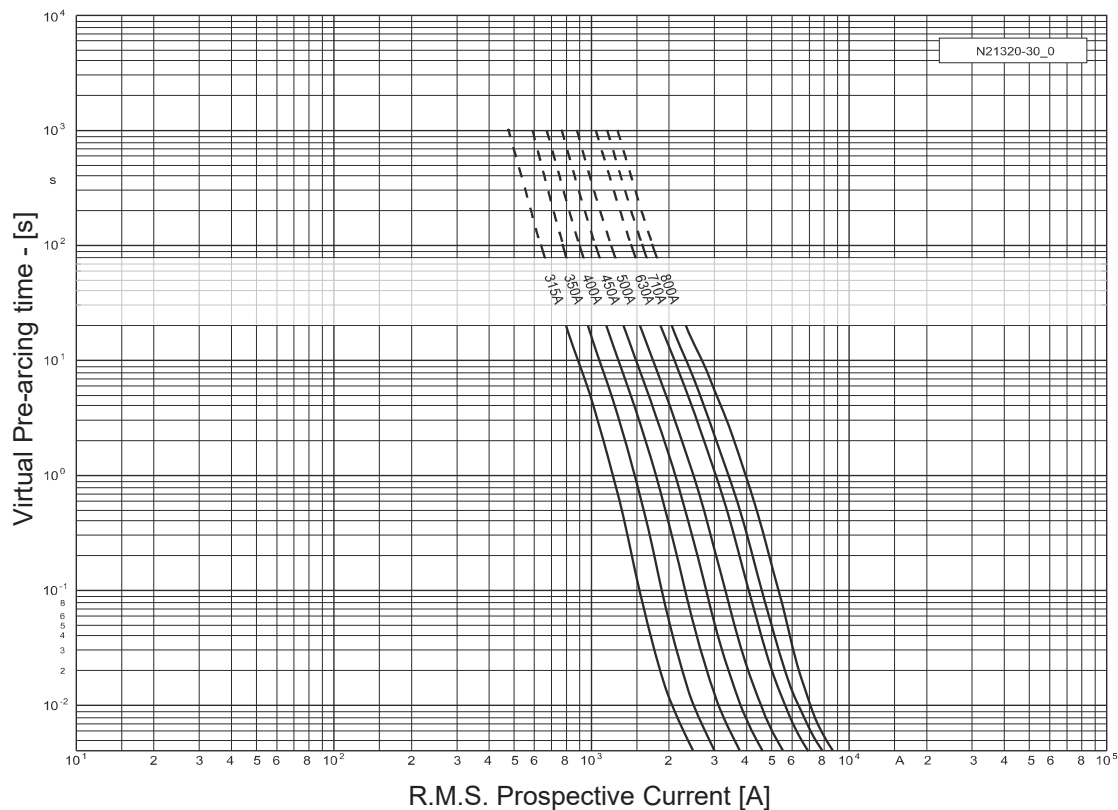


Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base, 1-Pole	2100501	550	Microswitch (red hammer)	2800202	540
			Standard level	2800204	
			Low level		

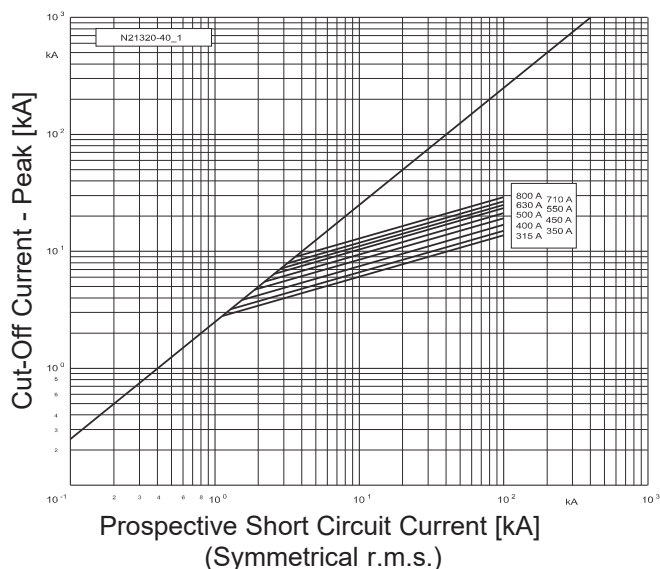
URM - NH3	Rated Voltage [U _n] 690V _{AC}	Rated Breaking Test Capacity 100kA	Class aR	Standard(s) IEC 60269-4 VDE 0636-4
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Time-Current Characteristics

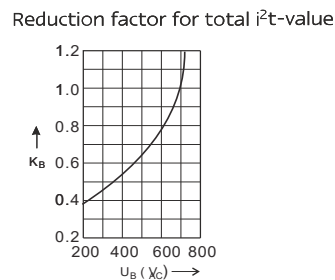
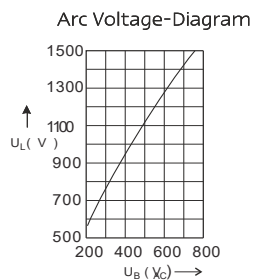


R.M.S. Prospective Current [A]
Full size graphs available upon request

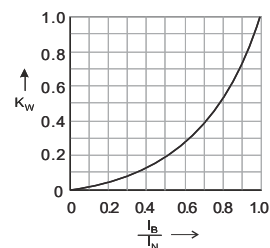
Cut-Off Current Characteristics



Correction Curves



Reduction factor for power Loss



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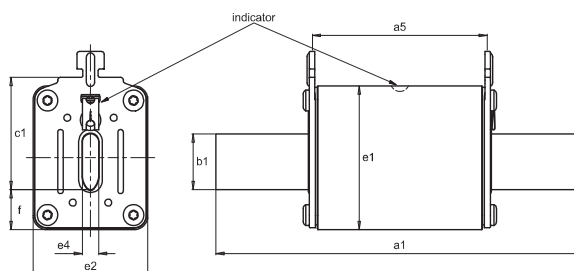
URM - NH1		Rated Voltage [U _n]		Rated Breaking Test Capacity		Rated Voltage	Class aR	Standard(s)	
		700V _{AC} - UL		120kA				IEC 60269-4	
		690V _{AC} - IEC		120kA		760V _{AC}		IEC 60269-4	
UL File E180276		500V _{DC} /450V _{DC} - IEC		30kA, L/R = 10ms, 550V _{DC}		125A - 400A, 500V _{DC}		VDE 0636-4	
								450A - 700A	
Rating / Rated current [A]	W/ Combi-Indicator and fitting for microswitch Article Number	UL rec	W/ Combi-Indicator and fitting for microswitch	UL rec	Pre-arcing I ² t [A ² s]	Total I ² t @ 690V _{AC} [A ² s]	DC rated voltage	Total I ² t @ 500V _{DC} [A ² s]	Power loss @ RC [W]
125RC75	2021132.125RC75	✓			570	3 900	500	3 200	11
160RC95	2021132.160RC95	✓			1 200	8 200	500	6 800	13
200RC120	2021132.200RC120	✓			2 500	16 000	500	14 000	15
250RC150	2021132.250RC150	✓			5 300	35 000	500	29 000	16
315RC190	2021132.315RC190	✓			8 200	55 000	500	46 000	20
350RC210	2021132.350RC210	✓			10 000	73 000	500	56 000	24
400RC240	2021132.400RC240	✓			16 000	120 000	500	90 000	26
450RC270			2021132.450RC270	✓	32 000	150 000	450	140 000	23
500RC300			2021132.500RC300	✓	36 000	185 000	450	160 000	26
550RC330			2021132.550RC330	✓	47 000	230 000	450	210 000	27
630RC350			2021132.630RC350	✓	64 000	340 000	450	280 000	28
700RC380			2021132.700RC380	✓	84 000	440 000	450	370 000	32
Weight [kg / 1]					*L/R = 10ms				
0.43									

* Rating and rated current will be shown in a kind of a double designation and are separated by "RC" ("RC" = rated current). The rating refers only to the time/current characteristics, whereas the rated current indicates the maximum continuous current under standard test conditions and takes the maximum power consumption of standard fuse holders according to IEC 60269-2 into account. By using the RC-value, the derating for cyclic loads "A2" = 1 can be applied.

Coefficients for Heavy Duty Applications				
a	A2**	B1 _{max}	B2	Cf3
130	1	1.25	0.6	0.8

**Cyclic load factor "A2=1" can only be in combination with the given "RC" value

	Dimensions [in / mm]	
	≤400A	≥ 450A
a ₅	2.56 / 65	2.56 / 65
a ₁	5.32 / 135	5.32 / 135
b ₁	0.79 / 20	0.79 / 20
e ₄	0.24 / 6	0.24 / 6
e ₁	2.03 / 51.5	1.97 / 50
e ₂	1.65 / 42	1.97 / 50
f	0.55 / 14	0.55 / 14
c ₁	1.57 / 40	1.57 / 40



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base, 1-Pole	2100301	551	Microswitch (red hammer)	2800202	540
Fuse base, 3-Pole	2100303		(UL File E309038)	2800204	

URM - NH1



UL File E180276

Rated Voltage

[U_n]

700V_{AC} - UL

690V_{AC} - IEC

500V_{DC}/450V_{DC} - IEC

Rated Breaking Test

Capacity

120kA

120kA

30kA, L/R = 10ms, 550V_{DC}

Voltage

760V_{AC}

Class

aR

Standard(s)

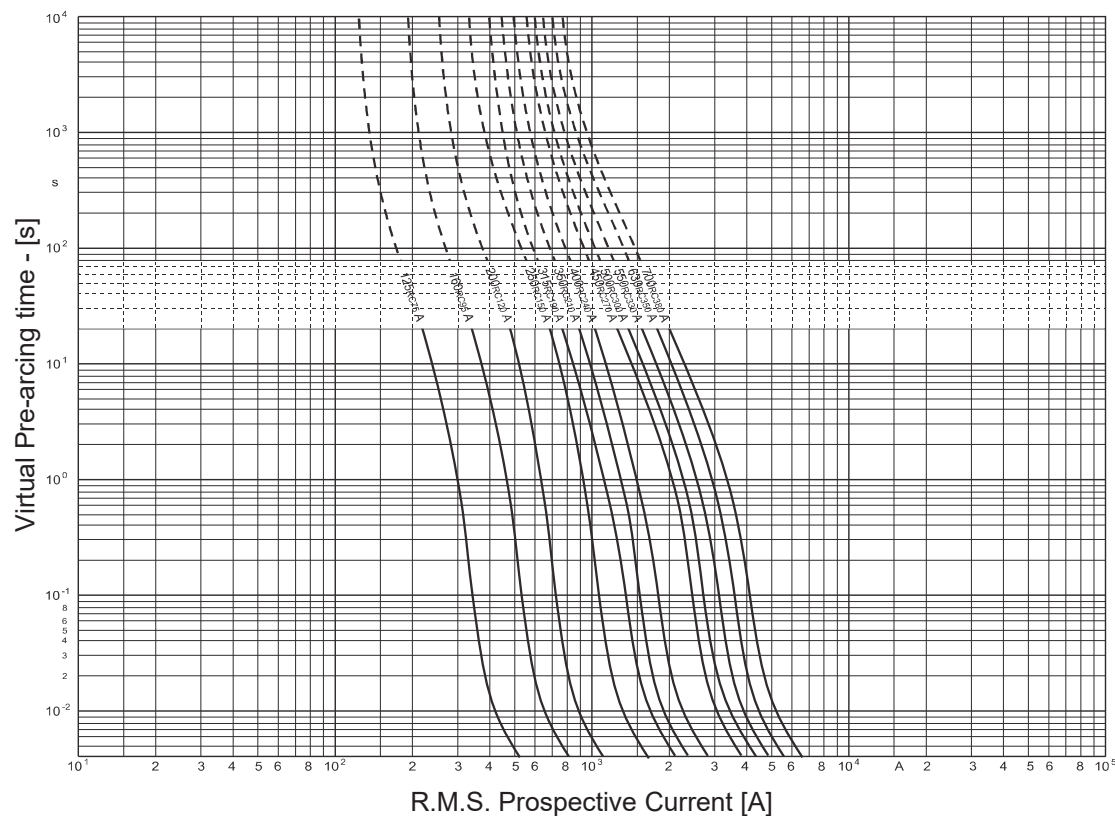
IEC 60269-4

IEC 60269-4

VDE 0636-4

450A - 700A

Time-Current Characteristics

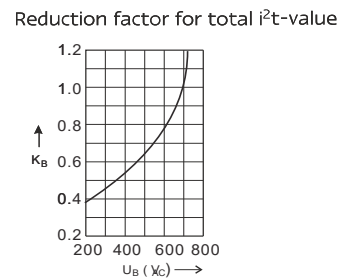
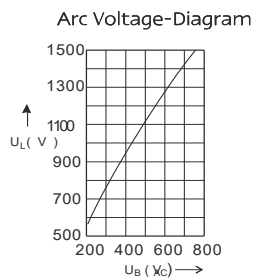
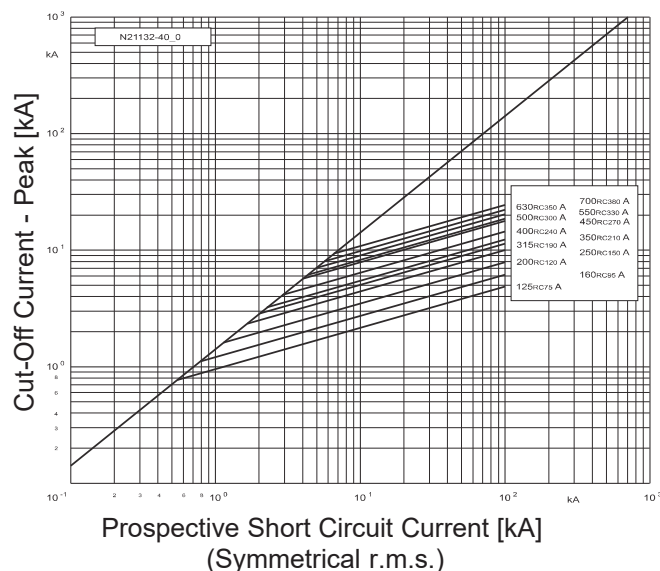


R.M.S. Prospective Current [A]

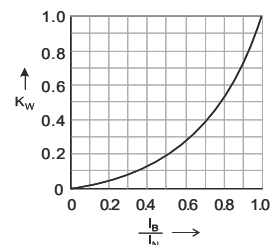
Full size graphs available upon request

Cut-Off Current Characteristics

Correction Curves



Reduction factor for power Loss



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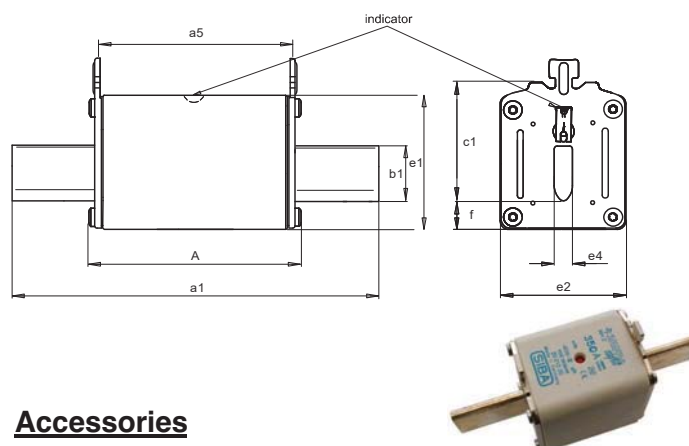
URM - NH2		Rated Voltage [U _n]		Rated Breaking Test Capacity		Rated Breaking Test Voltage		Class aR	Standard(s)	
		700V _{AC} - UL		120kA		760V _{AC}			UL 248-13	
UL File E180276		690V _{AC} - IEC		120kA					IEC 60269-4	
		500V _{DC} /450V _{DC} - IEC		30kA, L/R = 10ms, 550V _{DC}		160A - 700A, 500V _{DC}			VDE 0636-4	
Rating / Rated current [A]	W/ Combi-Indicator and fitting for microswitch Article Number	UL	W/ Combi-Indicator and fitting for microswitch Article Number	UL	Pre-arcing I ² t [A ² s]	Total I ² t @ 690V _{AC} [A ² s]	DC rated voltage	Total I ² t @ 500V _{DC} [A ² s]	Power loss @ RC [W]	
160RC95	2021232.160RC95	✓			1 200	8 200	500	6 100	13	
200RC120	2021232.200RC120	✓			2 500	16 900	500	13 000	15	
250RC150	2021232.250RC150	✓			5 200	35 000	500	27 000	16	
315RC190	2021232.315RC190	✓			8 200	55 000	500	43 000	20	
350RC210	2021232.350RC210	✓			10 000	73 000	500	51 000	24	
400RC240	2021232.400RC240	✓			12 000	82 000	500	62 000	30	
450RC270	2021232.450RC270	✓			17 000	120 000	500	87 000	32	
500RC300	2021232.500RC300	✓			23 000	155 000	500	120 000	34	
550RC330	2021232.550RC330	✓			33 000	225 000	500	170 000	36	
630RC380	2021232.630RC380	✓			47 000	310 000	500	240 000	40	
700RC420	2021232.700RC420	✓			65 000	450 000	500	330 000	42	
800RC480			2021232.800RC480	✓	125 000	600 000	450	530 000	41	
900RC500			2021232.900RC500	✓	165 000	790 000	450	700 000	45	
1000RC550			2021232.1000RC550	✓	195 000	1 100 000	450	830 000	42	
1100RC600			2021232.1100RC600	✓	295 000	1 490 000	450	1 250 000	45	
Weight [kg / 1]					*L/R =10ms					
0.68										

* Rating and rated current will be shown in a kind of a double designation and are separated by "RC" ("RC" = rated current). The rating refers only to the time/current characteristics, whereas the rated current indicates the maximum continuous current under standard test conditions and takes the maximum power consumption of standard fuse holders according to IEC 60269-2 into account. By using the RC-value, the derating for cyclic loads "A2" = 1 can be applied.

Coefficients for Heavy Duty Applications				
a	A2**	B1 _{max}	B2	Cf3
130	1	1.25	0.6	0.8

**Cyclic load factor "A2=1" can only be in combination with the given "RC" value

	Dimensions [in / mm]	
	≤700A	≥ 800A
a ₅	2.56 / 65	2.56 / 65
a ₁	5.91 / 150	5.91 / 150
b ₁	0.79 / 20	1.02 / 26
e ₄	0.24 / 6	0.24 / 6
e ₁	2.03 / 51.5	2.32 / 59
e ₂	1.65 / 42	2.09 / 53
f	0.55 / 14	0.55 / 14
c ₁	1.89 / 48	1.89 / 48



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base, 1-Pole	2100401	552	Microswitch (red hammer) Standard level	2800202	540
Fuse base, 3-Pole	2100403		(UL File E309038) Low level	2800204	

URM - NH2



UL File E180276

Rated Voltage

[U_n]

700V_{AC} - UL

690V_{AC} - IEC

500V_{DC}/450V_{DC} - IEC

Rated Breaking Test

Capacity

120kA

120kA

30kA, L/R = 10ms, 550V_{DC}

Voltage

760V_{AC}

Class

aR

Standard(s)

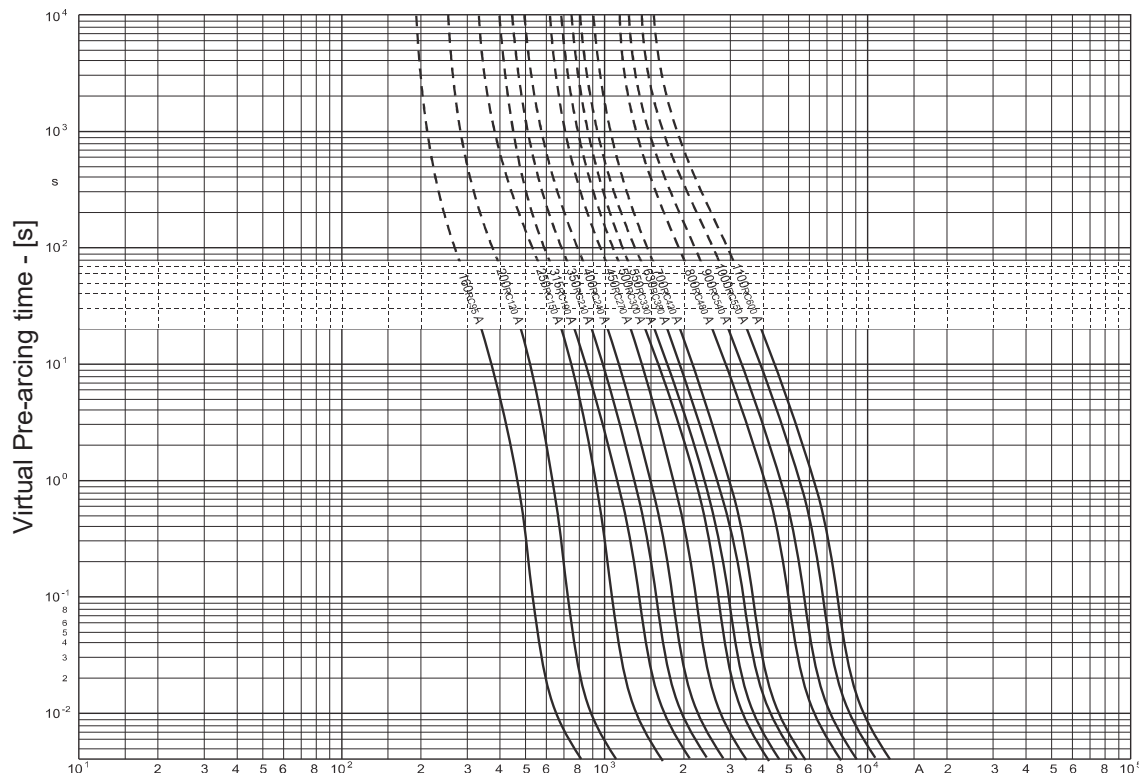
UL 248-13

IEC 60269-4

VDE 0636-4

800A - 1100A

Time-Current Characteristics



URM - NH3		Rated Voltage		Rated Breaking Test		Class	Standard(s)		
		[U _n]		Capacity	Voltage	aR	UL 248-13		
		700V _{AC} - UL		120kA			IEC 60269-4		
		690V _{AC} - IEC		120kA	760V _{AC}		VDE 0636-4		
		500V _{DC} /450V _{DC} - IEC		30kA, L/R = 10ms, 550V _{DC}	400A - 1000A, 500V _{DC}	1100A - 1600A			
UL File E180276									
Rating / Rated current [A]	W/ Combi-Indicator and fitting for microswitch Article Number	UL rec	W/ Combi-Indicator and fitting for microswitch Article Number	UL rec	Pre-arcing I ² t [A ² s]	Total I ² t [*] @ 690V _{AC} [A ² s]	DC rated voltage	Total I ² t [*] @ 500V _{DC} [A ² s]	Power loss @ RC [W]
400RC240	2021332.400RC240	✓			12 000	82 000	500	60 000	30
450RC270	2021332.450RC270	✓			17 000	120 000	500	85 000	32
500RC300	2021332.500RC300	✓			23 000	155 000	500	115 000	34
550RC330	2021332.550RC330	✓			33 000	225 000	500	165 000	36
630RC380	2021332.630RC380	✓			47 000	310 000	500	230 000	40
700RC420	2021332.700RC420	✓			65 000	345 000	500	320 000	42
800RC480	2021332.800RC480	✓			74 000	525 000	500	370 000	47
900RC540	2021332.710RC540	✓			105 000	750 000	500	530 000	49
1000RC600	2021332.1000RC600	✓			145 000	990 000	500	730 000	53
1100RC660			2021332.1100RC660	✓	225 000	1 350 000	450	1 300 000	56
1250RC750			2021332.1250RC750	✓	400 000	2 100 000	450	2 000 000	58
1400RC770			2021332.1400RC770	✓	525 000	2 700 000	450	2 600 000	55
1500RC820			2021332.1500RC820	✓	590 000	3 100 000	450	2 900 000	58
1600RC880			2021332.1600RC880	✓	850 000	4 200 000	450	4 200 000	60
		Weight [kg / 1]				*L/R =10ms			
		1.1				-			

* Rating and rated current will be shown in a kind of a double designation and are separated by "RC" ("RC" = rated current). The rating refers only to the time/current characteristics, whereas the rated current indicates the maximum continuous current under standard test conditions and takes the maximum power consumption of standard fuse holders according to IEC 60269-2 into account. By using the RC-value, the derating for cyclic loads "A2" = 1 can be applied.

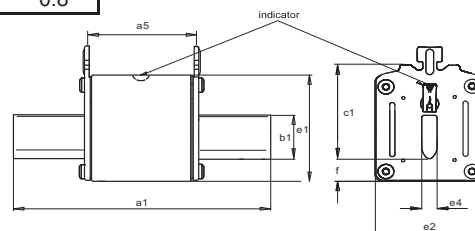
Coefficients for Heavy Duty Applications

a	A2**	B1 _{max}	B2	Cf3
130	1	1.25	0.6	0.8

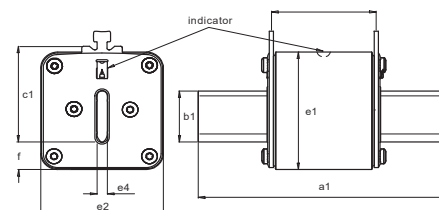
**Cyclic load factor "A2=1" can only be in combination with the given "RC" value

	Dimensions [in / mm]		
	≤630A	700A - 1000A	≥ 1100A
a ₅	2.56 / 65	2.56 / 65	2.56 / 65
a ₁	5.91 / 150	5.91 / 150	5.91 / 150
b ₁	1.02 / 26	1.26 / 32	1.26 / 32
e ₄	0.24 / 6	0.24 / 6	0.24 / 6
e ₁	2.32 / 59	2.89 / 73.5	2.89 / 73.5
e ₂	2.09 / 53	2.56 / 65	2.87 / 73
f	0.55 / 14	0.67 / 17	0.63 / 16
c ₁	2.36 / 60	2.36 / 60	2.36 / 60

< 1100A



≥ 1100A



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base, 1-Pole	2100501	550	Microswitch (red hammer)	2800202	540
			(UL File E309038)	2800204	

URM - NH3



UL File E180276

Rated Voltage

[U_n]

700V_{AC} - UL

690V_{AC} - IEC

500V_{DC}/450V_{DC} - IEC

Rated Breaking Test Class

Capacity

120kA

120kA

30kA, L/R = 10ms, 550V_{DC}

Voltage

760V_{AC}

400A - 1000A, 500V_{DC}

Standard(s)

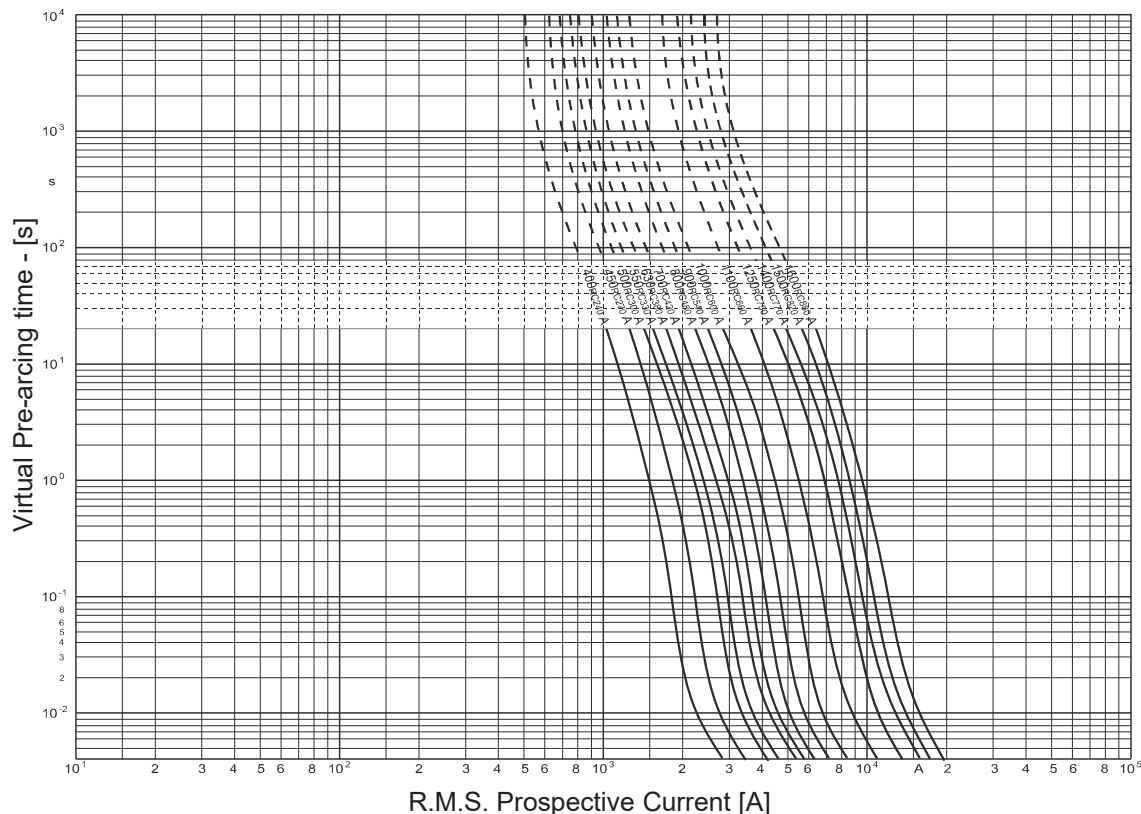
UL 248-13

IEC 60269-4

VDE 0636-4

1100A - 1600A

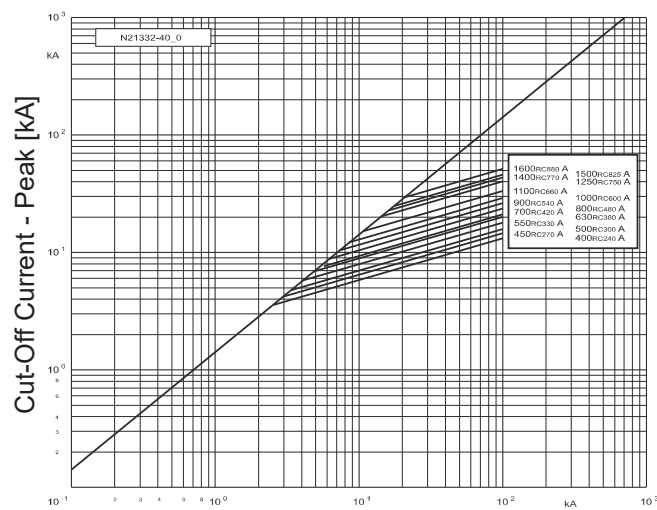
Time-Current Characteristics



R.M.S. Prospective Current [A]

Full size graphs available upon request

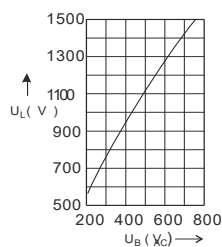
Cut-Off Current Characteristics



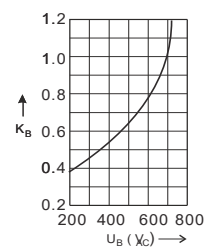
Prospective Short Circuit Current [kA]
(Symmetrical r.m.s.)

Correction Curves

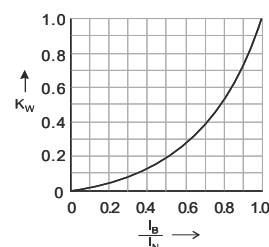
Arc Voltage-Diagram



Reduction factor for total i²t-value



Reduction factor for power Loss



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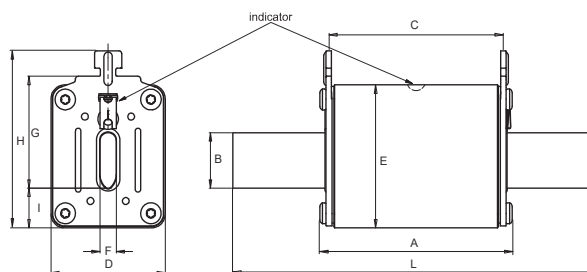
URM - NH0	Rated Voltage [U _n] 1000V _{AC}	Rated Breaking Test Capacity 100kA	Class gR≤50A aR≥63A	Standard(s) IEC 60269-4 VDE 0636-4
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Rated current I _n [A]	W/ Combi-Indicator and fitting for microswitch Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @ 1000V _{AC} [A ² s]	Power loss [W]
16	2038404.16		10	50	6.8
20	2038404.20		17	100	8
25	2038404.25		29	180	9
32	2038404.32		52	340	12
40	2038404.40		120	600	14
50	2038404.50		210	1 100	19
63	2038404.63		320	1 700	21
80	2038404.80		700	3 300	23
100	2038404.100		1 100	6 500	27
125	2038404.125		2 300	14 000	32
160	2038404.160		4 500	20 000	42
	Weight [kg/1]				
	0.27				

Coefficients for Heavy Duty Applications				
a	A2	B1 _{max}	B2	Cf3
130	0.6	1.25	0.6	0.8



	Dimensions [in / mm]
A	2.80 / 71.5
B	0.60 / 15
C	2.56 / 65
D	1.16 / 29.5
E	1.80 / 46
F	0.24 / 6
G	1.38 / 35
H	2.28 / 58
I	0.50 / 13
L	4.92 / 125

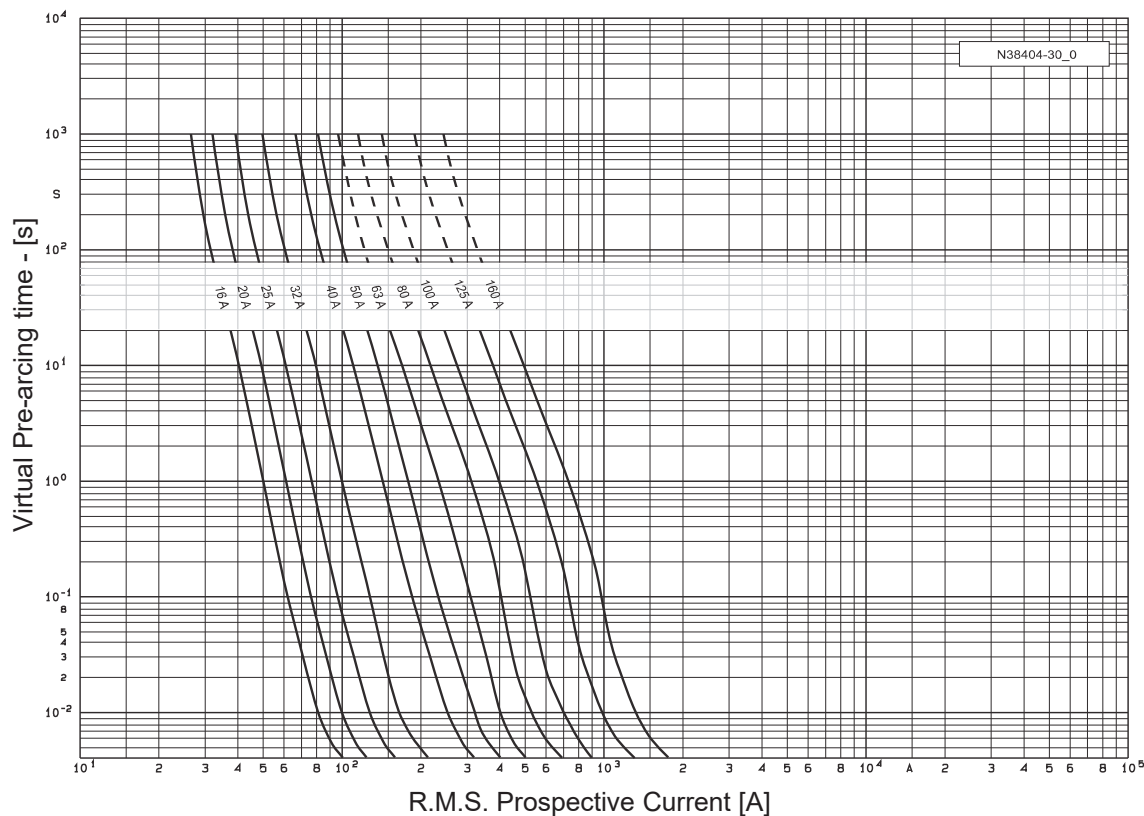


Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base, 1-Pole - Contact SIBA	2138401		Microswitch (red hammer)	2800202	540
			(UL File E309038)	2800204	

URM - NH0	Rated Voltage [U _n] 1000V _{AC}	Rated Breaking Test Capacity 100kA	Class gR≤50A aR≥63A	Standard(s) IEC 60269-4 VDE 0636-4
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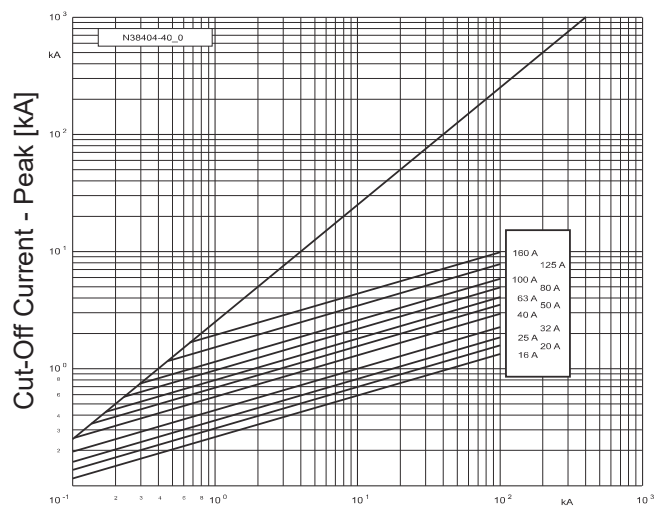
Time-Current Characteristics



R.M.S. Prospective Current [A]

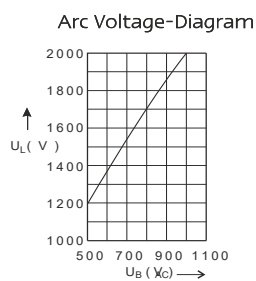
Full size graphs available upon request

Cut-Off Current Characteristics

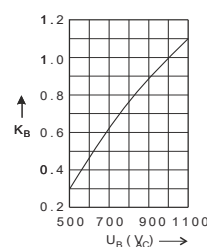


Prospective Short Circuit Current [kA]
(Symmetrical r.m.s.)

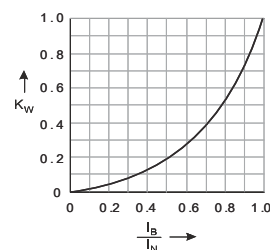
Correction Curves



Reduction factor for total i²t-value



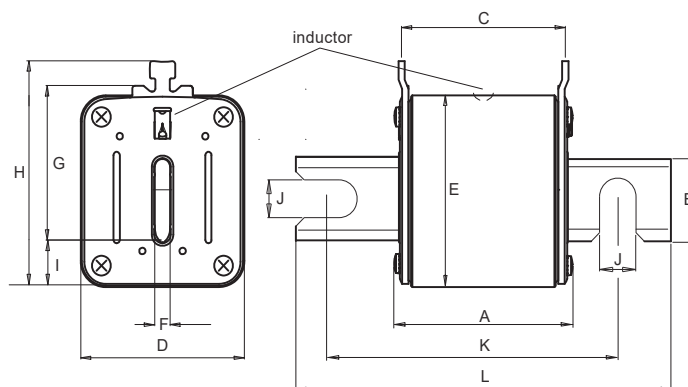
Reduction factor for power Loss



URM - NH3		Rated Voltage [U _n] 660V _{AC}	Rated Breaking Test Capacity 120kA	Rated Breaking Test Voltage 660V _{AC}	Class gR	Standard(s) IEC 60269-4 VDE 0636-4	
Rated current I _n [A]	W/ Combi-Indicator and fitting for microswitch Article Number				Pre-arcing I ² t [A ² s]	Total I ² t @ 660V _{AC} [A ² s]	Power loss [W]
150	2037304.150				2 100	20 000	35
200	2037304.200				3 800	36 000	56
250	2037304.250				6 700	65 000	69
300	2037304.300				10 000	102 000	78
350	2037304.350				14 000	145 000	84
400	2037304.400				19 000	185 000	97
500	2037304.500				27 000	280 000	114
	Weight [kg / 1]						
	0.95						

Coefficients for Heavy Duty Applications					
a	A2	B1 _{max}	B2	Cf3	
130	0.55	1.25	0.6	0.8	

	Dimensions [in / mm]
A	2.95 / 75
B	1.26 / 32
C	2.56 / 65
D	2.56 / 65
E	2.90 / 73.5
F	0.24 / 6
G	2.36 / 60
H	3.40 / 86
I	0.67 / 17
J	0.43 / 11
K	4.20 / 107
L	5.47 / 139



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base, 1-Pole	2132301	545	Microswitch (black hammer) (UL File E309038)	Standard 2800201	540
				Low Level 2800203	

URM - NH3

Rated Voltage

[U_n]

660V_{AC}

Rated Breaking Test

Capacity

120kA

Voltage

660V_{AC}

Class

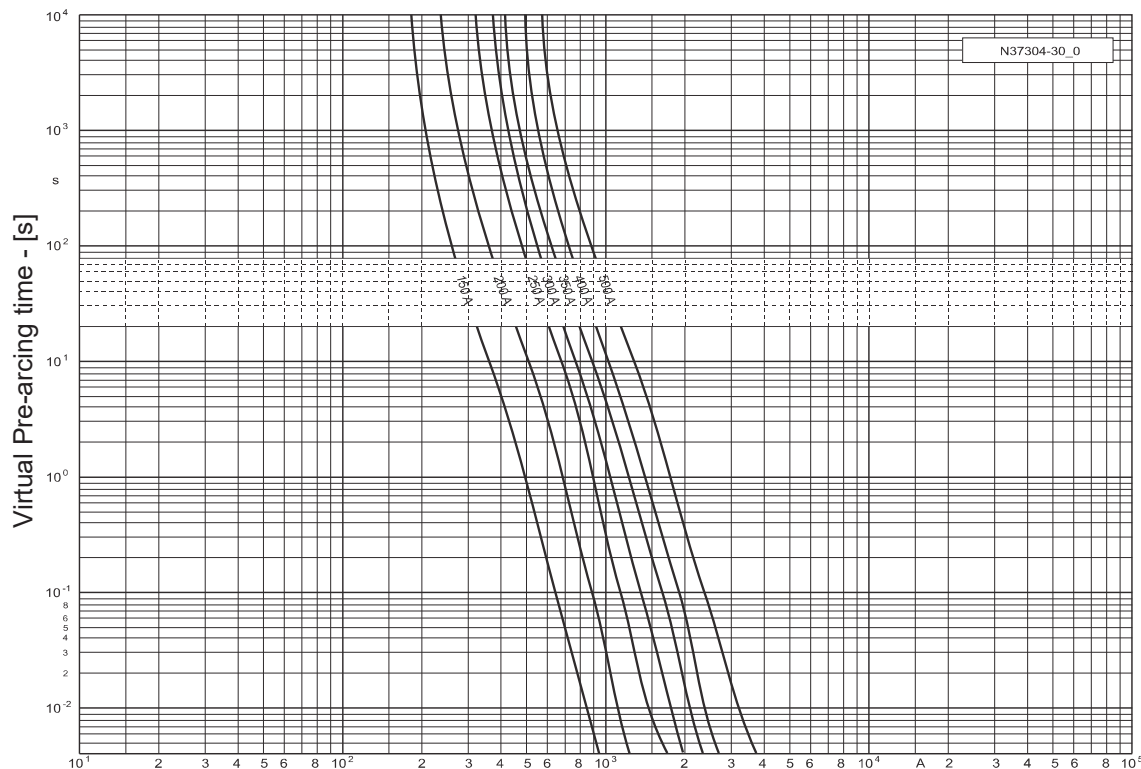
gR

Standard(s)

IEC 60269-4

VDE 0636-4

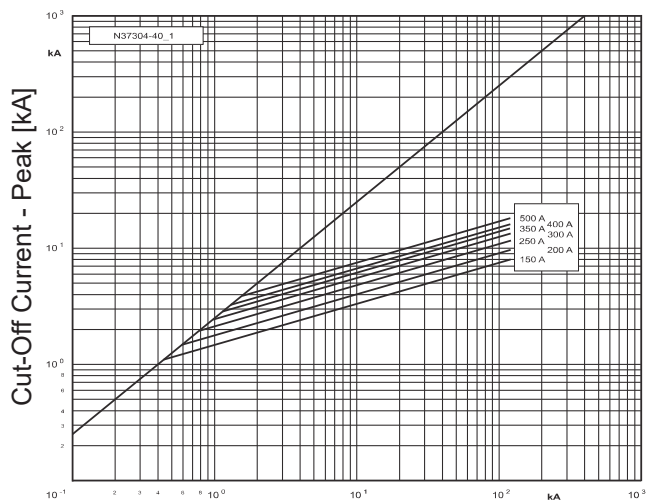
Time-Current Characteristics



R.M.S. Prospective Current [A]

Full size graphs available upon request

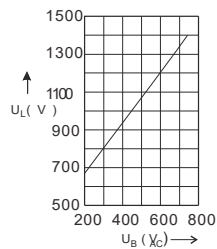
Cut-Off Current Characteristics



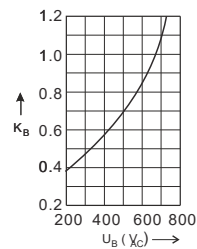
Prospective Short Circuit Current [kA]
(Symmetrical r.m.s.)

Correction Curves

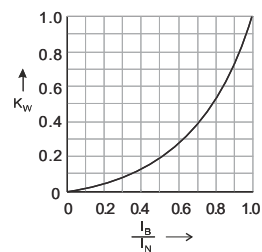
Arc Voltage-Diagram



Reduction factor for total i²t-value



Reduction factor for power Loss



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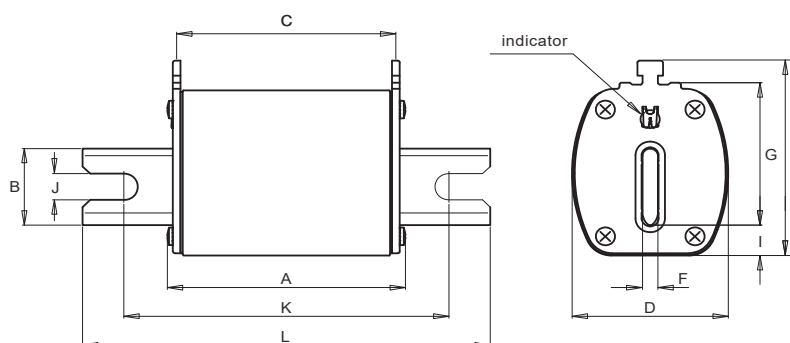
e-mail: info@sibafuse.com

URM - NH3	Rated Voltage [U _n] 1000V _{AC}	Rated Breaking Test Capacity 100kA	Rated Breaking Test Voltage 1000V _{AC}	Class aR	Standard(s) IEC 60269-4 VDE 0636-4
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Rated current I _n [A]	W/ Combi-Indicator and fitting for microswitch Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @ 1000V _{AC} [A ² s]	Power loss [W]
100	2040704.100		2 100	5 800	28
125	2040704.125		2 900	8 900	34
160	2040704.160		4 100	12 800	36
200	2040704.200		5 600	18 000	41
224	2040704.224		6 700	21 500	45
250	2040704.250		10 000	31 000	49
315	2040704.315		34 000	97 000	73
355	2040704.355		51 000	152 000	77
400	2040704.400		60 000	180 000	79
450	2040704.450		74 000	220 000	82
500	2040704.500		125 000	370 000	87
Weight [kg / 1]					
1.1					

Coefficients for Heavy Duty Applications					
a	A2	B1 _{max}	B2	Cf3	
130	0.55	1.25	0.6	0.8	

	Dimensions [in / mm]
A	3.74 / 95
B	1.26 / 32
C	3.35 / 85
D	2.40 / 61
E	2.72 / 69
F	0.24 / 6
G	2.36 / 60
H	3.20 / 81.5
I	0.50 / 13
J	0.43 / 11
K	5.00 / 127
L	6.30 / 160

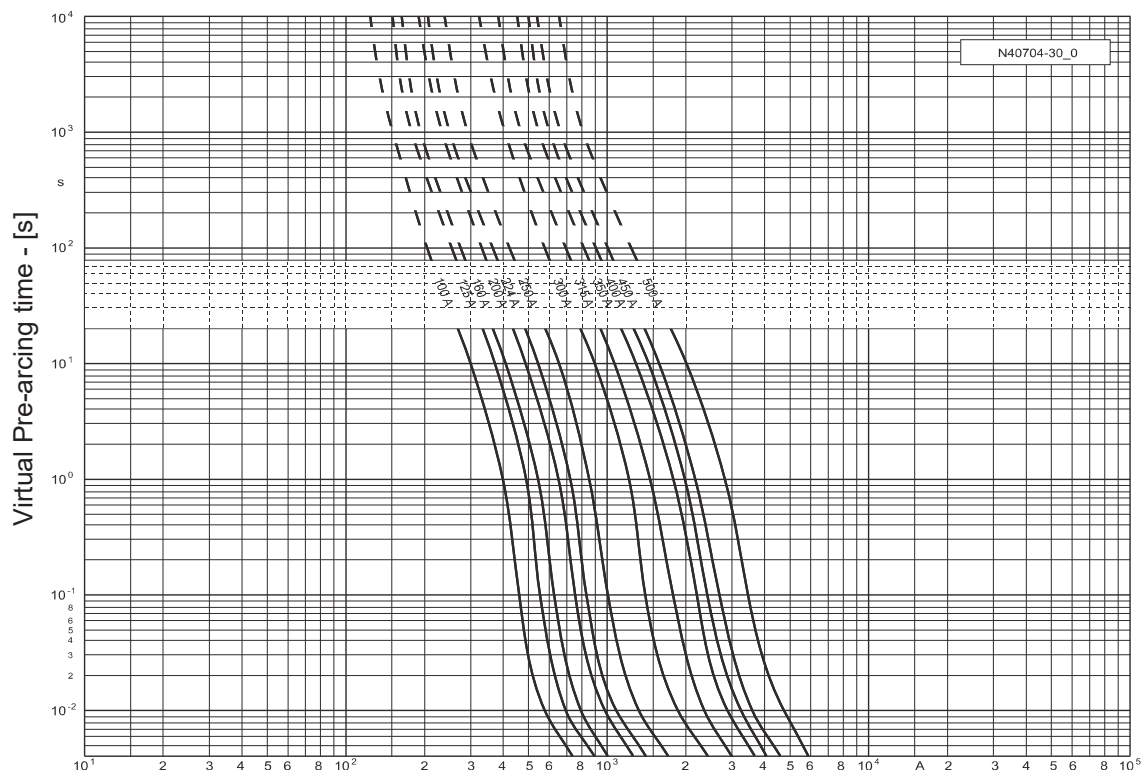


Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
			Microswitch (red hammer)	2800202	542
			(UL File E309038)	2800204	

URM - NH3	Rated Voltage [U _n] 1000V _{AC}	Rated Breaking Test Capacity 100kA	Class aR	Standard(s) IEC 60269-4 VDE 0636-4
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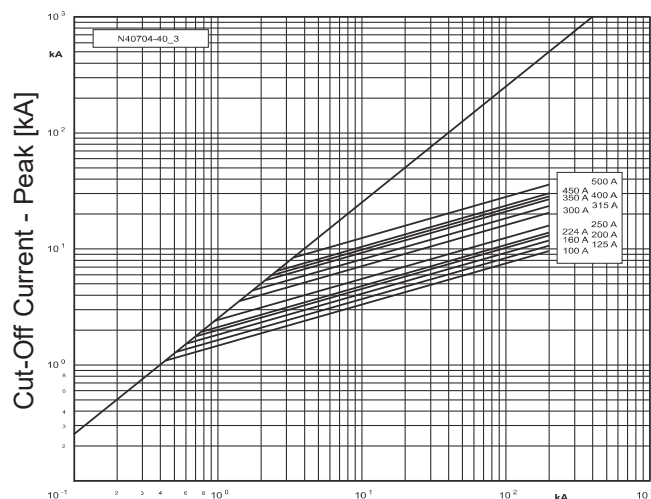
Time-Current Characteristics



R.M.S. Prospective Current [A]

Full size graphs available upon request

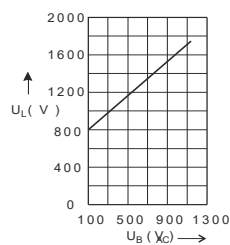
Cut-Off Current Characteristics



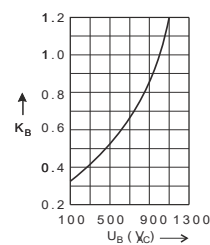
Prospective Short Circuit Current [kA]
(Symmetrical r.m.s.)

Correction Curves

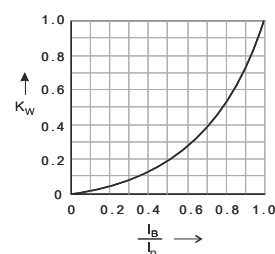
Arc Voltage-Diagram



Reduction factor for total i²t-value



Reduction factor for power Loss



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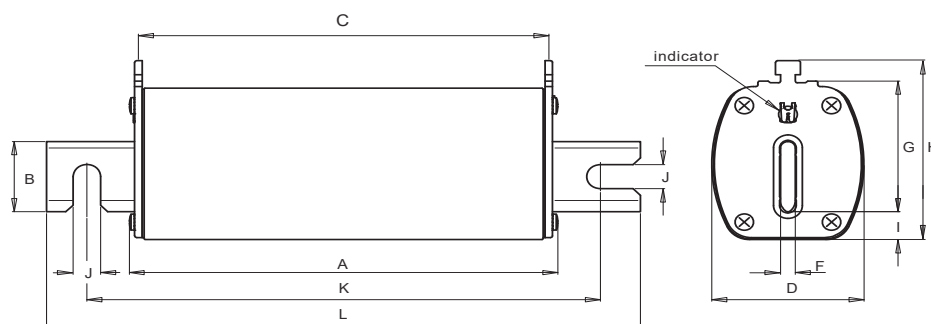
e-mail: info@sibafuse.com

URM - NH	Rated Voltage [U _n] 2000V _{AC}	Rated Breaking Test Capacity 100kA	Rated Breaking Test Voltage 2000V _{AC}	Class aR	Standard(s) IEC 60269-4 VDE 0636-4
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Rated current I _n [A]	W/ Top indicator and fitting for microswitch Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @ 2000V _{AC} [A ² s]	Power loss [W]
200	2040404.200		21 000	60 000	78
224	2040404.224		27 000	77 500	85
250	2040404.250		33 000	95 000	103
300	2040404.300		53 000	151 000	115
315	2040404.315		62 000	170 000	121
355	2040404.355		94 000	280 000	135
400	2040404.400		130 000	410 000	145
450	2040404.450		159 000	520 000	153
Weight [kg / 1]					
1.7					

Coefficients for Heavy Duty Applications					
a	A2	B1 _{max}	B2	Cf3	
130	0.65	1.25	0.65	0.8	

	Dimensions [in / mm]
A	7.10 / 180
B	1.26 / 32
C	6.50 / 165
D	2.40 / 61
E	2.72 / 69
F	0.24 / 6
G	2.36 / 60
H	3.20 / 81.5
I	0.50 / 13
J	0.43 / 11
K	8.20 / 208
L	9.45 / 240

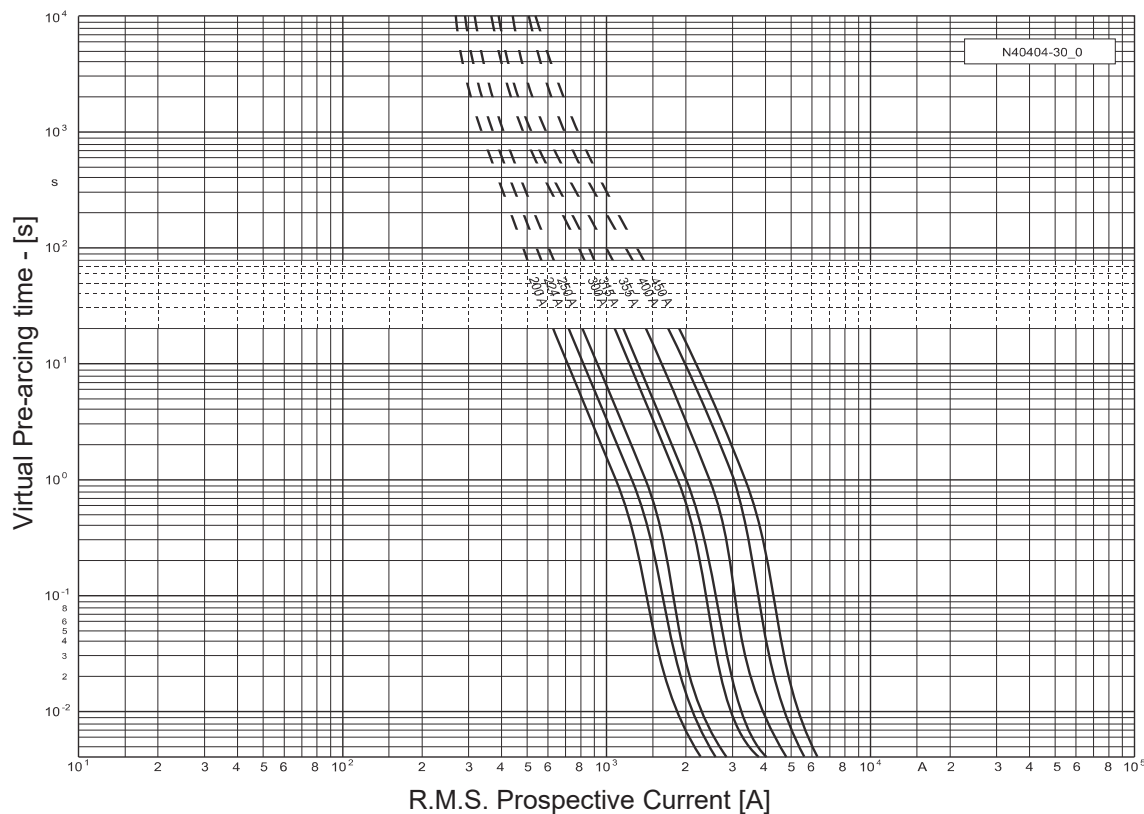


Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
			Microswitch (red hammer)	2800202	540
			(UL File E309038)	2800204	

URM - NH3	Rated Voltage [U _n] 2000V _{AC}	Rated Breaking Test Capacity 100kA	Class aR	Standard(s) IEC 60269-4 VDE 0636-4
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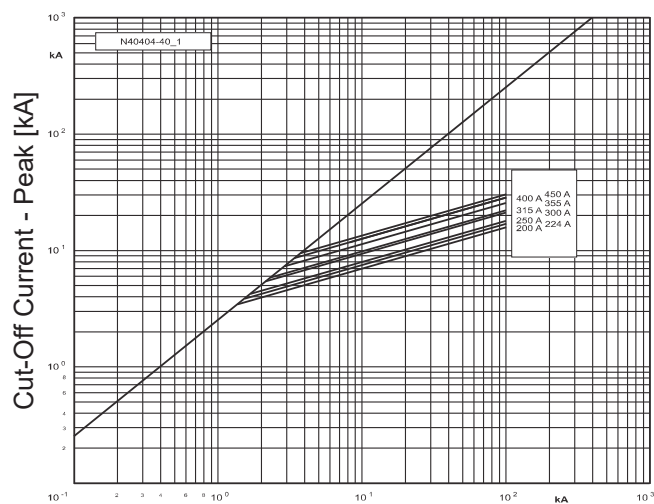
Time-Current Characteristics



R.M.S. Prospective Current [A]

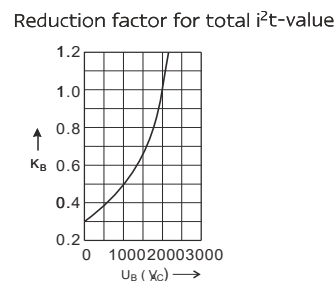
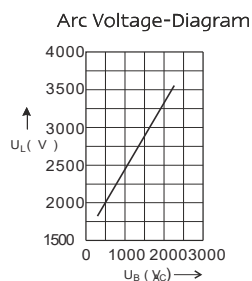
Full size graphs available upon request

Cut-Off Current Characteristics

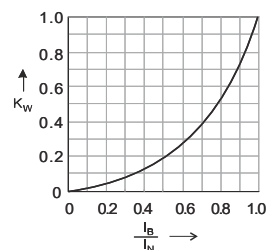


Prospective Short Circuit Current [kA]
(Symmetrical r.m.s.)

Correction Curves



Reduction factor for power Loss



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