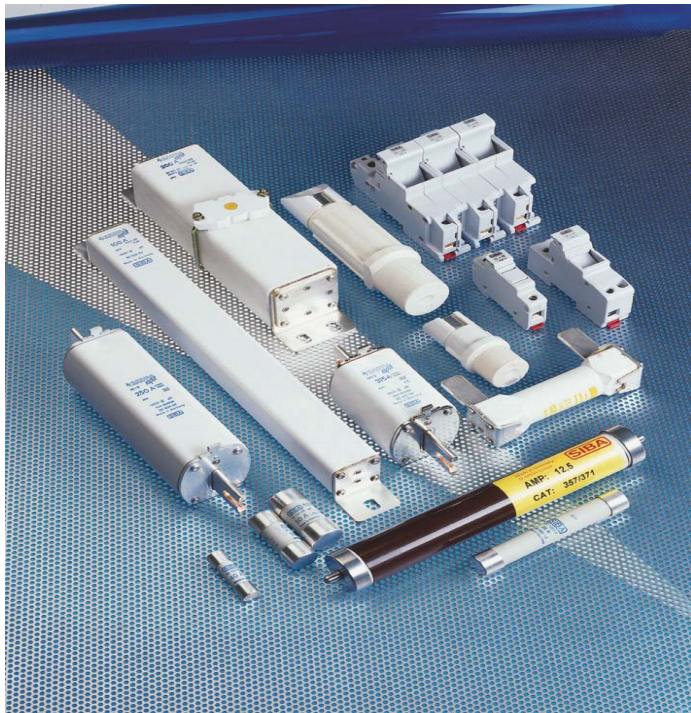


Fuses for DC Traction, Photo-Voltaic and Energy Storage Applications



Class: aR, gR and gRL(gS)

Voltage ratings: 440V_{DC} to 4200V_{DC}

Current ratings: 6A to 1000A

Standards: UIC 550
IEC 60269-4
IEC 60077-5
VDE 0636-40

SIBA DC Fuses are available for clip-mounted and bolt design. The fuses are used for traction, battery and railway power circuit applications. Due to the variety of applications please contact SIBA for information regarding use at different voltage ratings, class or L/R time constants.

Features and Benefits



Designed for heavy duty applications for solar, battery storage (ES), protection for inverters, motor drives, DC drives, railway power and auxiliary circuits



Shock and vibration tested to 30g



Developed according to customer's specifications



Tested with different time constants



Designed for long life under severe service conditions

Fuses for DC and Traction Applications

Article Number	Description		Selection Guide	Technical Data
440V _{DC}				
14mmx51mm				
5012434		No blown fuse indication	224	224 - 225
5012634		With 2.5N striker		
5012934	63mm mounting centers	No blown fuse indication		
22mmx58mm				
5014034		No blown fuse indication	226	226 - 227
5014234		With 2.5N striker		
5014534	80mm mounting centers	No blown fuse indication		
5014634	PCB mounting	No blown fuse indication		
600V _{DC}				
10mmx38mm				
5022526		No blown fuse indication	228	228 - 229
5022626	PCB mounting	No blown fuse indication		
5022726	51mm mounting centers	No blown fuse indication		
660V _{DC} / 440V _{DC}				
27mmx60mm				
5019006		No blown fuse indication	230	230 - 231
5019106		With 2.5N striker		
5019206	80mm mounting centers	No blown fuse indication		
700V _{DC}				
14mmx51mm				
5011806		No blown fuse indication	232	232 - 233
5020106		No blown fuse indication	234	234 - 235
5020206	63.5mm mounting centers			
NH000 DIN 80				
2029221		No blown fuse indication	236	236 - 237
2029220		With blown fuse indication		
2025920		With blown fuse indication		
750V _{DC}				
NH1				
2055604		With fitting for microswitch	238	238 - 239
1000V _{DC}				
10mmx38mm				
5021506		No blown fuse indication	240	240 - 241
5021606	PCB mounting			
5021706	50.6mm mounting centers			
SQB -DC90				
9030020	Bladed 156mm mounting centers	No blown fuse indication	242	242 - 243
9030021		With fitting for microswitch		
9035020	Threaded M8	No blown fuse indication		
9035021		With fitting for microswitch		
SQB -DC91				
9031020	Bladed 166mm mounting centers	No blown fuse indication	244	244 - 245
9031021		With fitting for microswitch		
9036020	Threaded M8	No blown fuse indication		
9036021		With fitting for microswitch		
SQB -DC92				
9032020	Bladed 171mm mounting centers	No blown fuse indication	246	246 - 247
9032021		With fitting for microswitch		
9032621	Bladed - US long	With fitting for microswitch		
9037020	Threaded M10	No blown fuse indication		
9037021		With fitting for microswitch		
SQB -DC92-2(Double Body)				
9037821	Threaded M10	With fitting for microswitch	248	248 - 249

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e-mail: info@sibafuse.com

Fuses for DC and Traction Applications

Article Number	Description		Selection Guide	Technical Data
1000V _{DC}				
SQB -DC93				
9033020	Bladed 171mm mounting centers	No blown fuse indication	250	250 -251
9033021		With fitting for microswitch		
9038020	Threaded M12	No blown fuse indication		
9038021		With fitting for microswitch		
SQB -DC93-2(Double Body)				
9038821	Threaded M12	With fitting for microswitch	252	252 - 253
NH4				
9008310		No blown fuse indication	254	254
20mmx127mm				
9008010		With blown fuse indication	255	255 - 256
9008210		With 2.5N striker		
1200V _{DC}				
SQB-DC0				
9022325	Bracket 142mm mounting centers	No blown fuse indication	257	257 -258
9022326		With fitting for microswitch		
SQB-DC2				
9020325	Bracket 142mm mounting centers	No blown fuse indication	259	259 - 260
9020326		With fitting for microswitch		
SQB-DC2-2(Double Body)				
9021325	Bracket 142mm mounting centers	No blown fuse indication	261	261 - 262
9021326		With fitting for microswitch		
1500V _{DC}				
20mmx127mm				
9008110		No blown fuse indication	263	263 - 264
9008610		With 2.5N Striker		
20mmx190mm				
9009010		No blown fuse indication	265	265 - 266
9009110		With 2.5N striker		
36mmx190mm				
9009410		No blown fuse indication	267	267 - 268
9009510		With 2.5N striker		
9009810	Bladed 252mm mounting centers	No blown fuse indication		
2000V _{DC}				
SQB-DC0				
9022225	Bracket 194mm mounting centers	No blown fuse indication	269	269 - 270
9022226		With fitting for microswitch		
SQB-DC2				
9020225	Bracket 194mm mounting centers	No blown fuse indication	271	271 - 272
9020226		With fitting for microswitch		
2400V _{DC}				
SQB-DC0				
9022125	Bracket 246mm mounting centers	No blown fuse indication	273	273 - 274
9022126		With fitting for microswitch		
SQB-DC2				
9020125	Bracket 246mm mounting centers	No blown fuse indication	275	275 - 276
9020126		With fitting for microswitch		
SQB-DC2-2(Double Body)				
9021125	Bracket 246mm mounting centers	No blown fuse indication	277	277 - 278
9021126		With fitting for microswitch		

Fuses for DC and Traction Applications

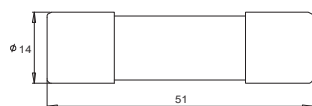
Article Number	Description		Selection Guide	Technical Data
4000V _{DC}				
40mmx254mm				
9010010		No blown fuse indication	279	279 - 280
9010110				
4200V _{DC}				
SQB-DC0				
9022025	Bracket 394mm mounting centers	No blown fuse indication	281	281 - 282
9022026		With fitting for microswitch		
9023025	Bladed			
SQB-DC0				
9022027	Bracket 394mm mounting centers	No blown fuse indication	283	283 - 284
9022028		With fitting for microswitch		
9023027	Bladed			
SQB-DC2				
9020025	Bracket 394mm mounting centers	No blown fuse indication	285	285 - 286
9020026		With fitting for microswitch		
SQB -DC92-2(Double Body)				
9021025	Bracket 394mm mounting centers	No blown fuse indication	287	287 - 288
9021026		With fitting for microswitch		
1000V _{AC}				
NH3				
2040704		With fitting for microswitch	289	289 - 290
2000V _{AC}				
NH3				
2040404		With fitting for microswitch	291	291 - 292
2040420				

URDC - 14x51mm	Rated Voltage [U _n] 400V _{DC}	Rated Breaking Capacity 30kA @ L/R=30ms	Test Voltage 440V _{DC}	Class gRL (gS)	Standard(s) UL 248-13 IEC 60269-4 VDE 0636-4
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Rated current I _n [A]	Without indicator Article Number	With 2.5N striker ^a Article Number	Without indicator 63.5mm Article Number		Pre-arcing I ² t [A ² s]	Total I ² t [*] @ 440V _{DC} [A ² s]	Power loss [W]
10	5012434.10	5012634.10	5012934.10		8	70	1.9
12	5012434.12	5012634.12	5012934.12		12	105	2.3
16	5012434.16	5012634.16	5012934.16		25	210	2.8
20	5012434.20	5012634.20	5012934.20		46	400	3.0
25	5012434.25	5012634.25	5012934.25		100	850	3.2
30	5012434.30	5012634.30	5012934.30		190	1 600	3.8
32	5012434.32	5012634.32	5012934.32		250	2 100	4.0
35	5012434.35	5012634.35	5012934.35		370	3 150	4.2
40	5012434.40	5012634.40	5012934.40		420	3 600	4.4
		^a Striker minimum operating Voltage 10V			[*] L/R=30ms		
	Weight [kg/1]						
	0.023	0.02	0.028				

Coefficients for Heavy Duty Applications

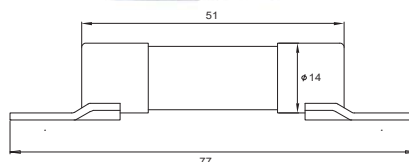
a	A2	B1 _{max}	B2	Cf3
130	1.0	1.25	0.5	0.8



5012434



5012634



5012934



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse module, 1-Pole	5105805.1DC	558	Fuse clips screw mounting	6100101.2	563
Fuse module, 1-Pole w/neon lamp indicator	5105805.1LDC		Clamping plate for 6100101.2	6301701	
Fuse module, 2-Pole	5105805.2DC		Fuse clips PCB mounting	5805806	
Fuse module, 2-Pole w/neon lamp indicator	5105805.2LDC				

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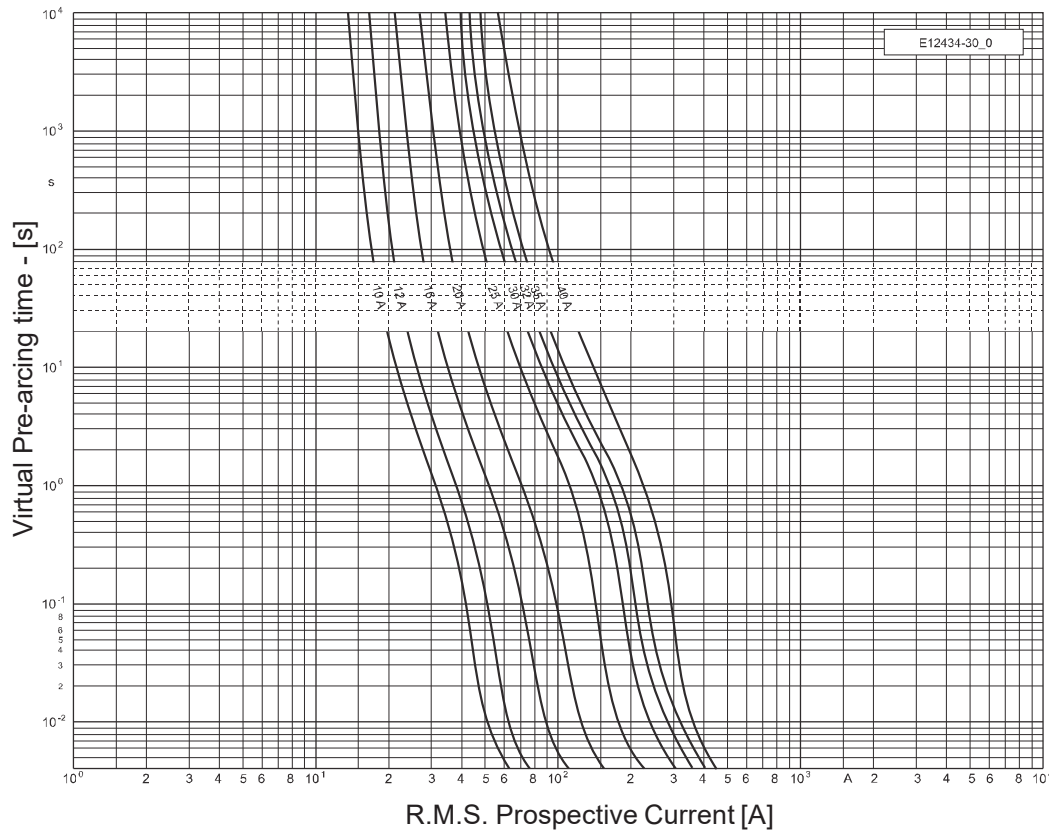
 29 Fairfield Place
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 portal: www.siballc.net
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URDC - 14x51mm	Rated Voltage	Rated Breaking	Test	Class	Standard(s)
	[U_n]	Capacity	Voltage	gRL	UL 248-13
	440V_{DC}	30kA @ L/R=30ms	440V_{DC}	(gS)	IEC 60269-4 VDE 0636-4

Time-Current Characteristics



Full size graphs available upon request

URDC - 22x58mm	Rated Voltage [U _n] 440V _{DC}	Rated Breaking Test Capacity 30kA @ L/R=30ms	Class gRL (gS)	Standard(s) UL 248-13 IEC 60269-4 VDE 0636-4 DIN EN 60269-4
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Rated current I _n [A]	Without indicator Article Number	With 2.5N striker ^a Article Number	Without indicator 80mm Article Number	Without indicator PCB Article Number		Pre-arcing I ² t [A ² s]	Total I ² t @ 440V _{DC} [A ² s]	Power loss [W]
25	5014034.25	5014234.25	5014534.25	5014634.25		100	800	3.6
30	5014034.30	5014234.30	5014534.30	5014634.30		190	1 500	4.6
32	5014034.32	5014234.32	5014534.32	5014634.32		250	2 000	4.8
35	5014034.35	5014234.35	5014534.35	5014634.35		370	2 900	5.0
40	5014034.40	5014234.40	5014534.40	5014634.40		420	3 300	5.2
50	5014034.50	5014234.50	5014534.50	5014634.50		870	6 800	5.4
63	5014034.63	5014234.63	5014534.63	5014634.63		1 300	10 200	6.8
80	5014034.80	5014234.80	5014534.80	5014634.80		2 500	19 500	7.5
100	5014034.100	5014234.100	5014534.100	5014634.100		4 600	35 800	9.7

^aStriker minimum operating Voltage 10v

L/R=30ms

Weight [kg/1]

0.060

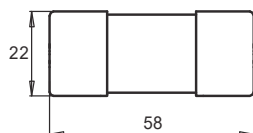
0.057

0.078

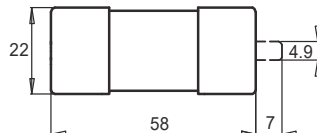
0.078

Coefficients for Heavy Duty Applications

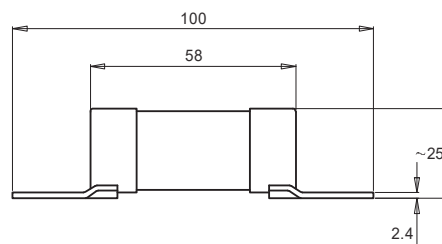
a	A2	B1 _{max}	B2	Cf3
130	1.0	1.25	0.6	0.8



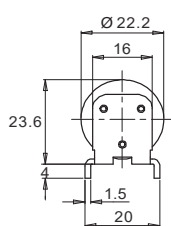
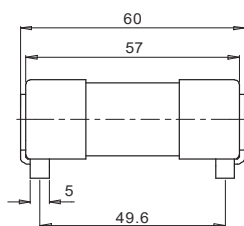
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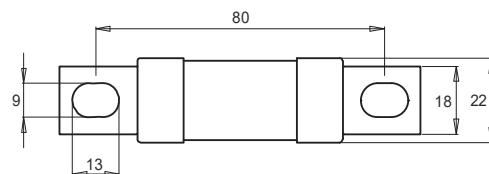
5014234



5014534



5014634



Accessories

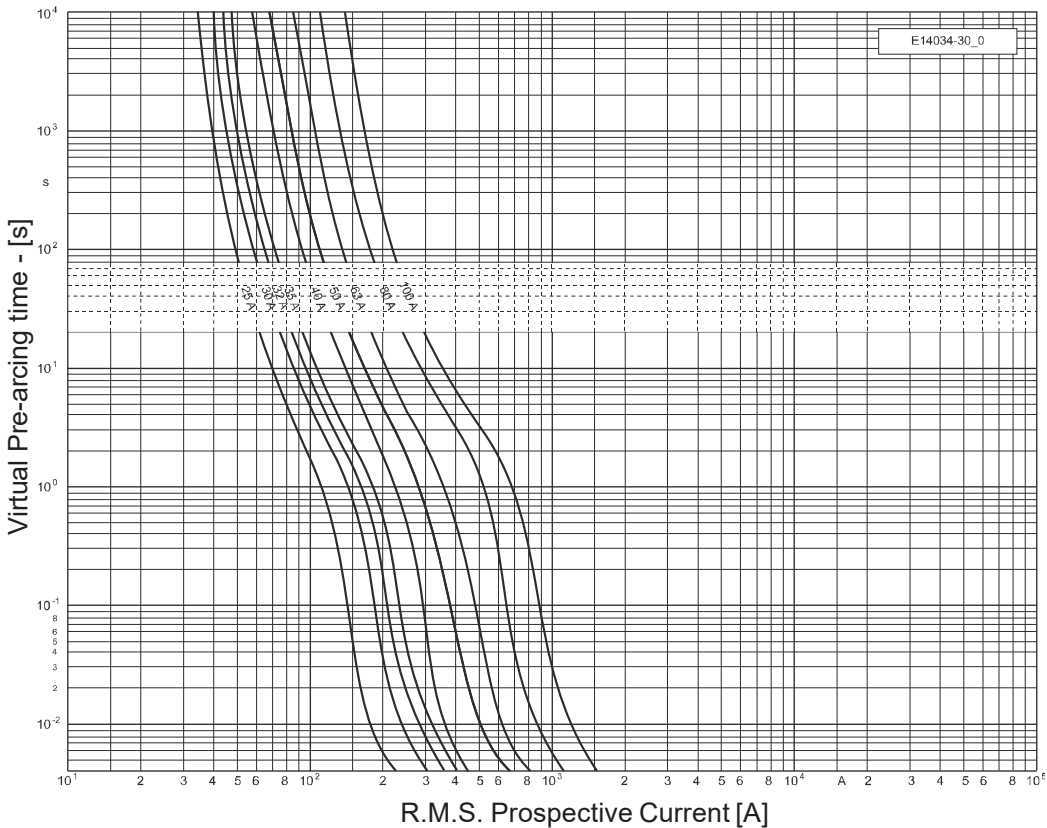
Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base DIN 80 (UL File E341490)	2118928	546	Fuse clips screw mounting	6100201.3	564
	2119028		Clamping plate for 6100101.3	6300201	
			Terminal link for 6100201.3	6100201.4	
			Fuse clips PCB mounting	5806006	

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URDC - 22x58mm	Rated Voltage [U _n] 440V _{DC}	Rated Breaking Capacity 30kA @ L/R=30ms	Test Voltage 440V _{DC}	Class gRL (gS)	Standard(s) UL 248-13 IEC 60269-4 VDE 0636-4 DIN EN 60269-4
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Time-Current Characteristics



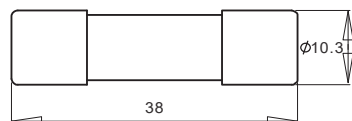
Full size graphs available upon request

URDC - 10x38mm	Rated Voltage [U _n]	Rated Breaking Capacity	Test Voltage	Class	Standard(s)
UL US	600V _{DC}	30kA @ L/R=5ms	600V _{DC} (UL) 600V _{DC} (IEC)	gR gPV	UL 248-13 IEC 60269-6

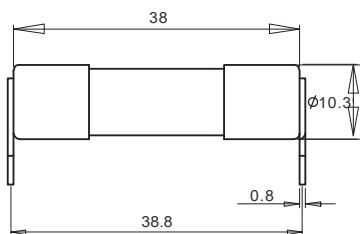
UL File E180276

Rated current I _n [A]	Without indicator Article Number	UL rec	Without indicator PCB Article Number	UL rec	Without indicator 50.6mm Mounting Article Number	UL rec	Pre-arcing I ² t [A ² s]	Total I ² t @600V _{DC} [A ² s]	Power loss [W]
1	5022526.1	✓	5022626.1	✓	5022726.1	✓	0.33	—	0.8
2	5022526.2	✓	5022626.2	✓	5022726.2	✓	3	—	1.2
3	5022526.3	✓	5022626.3	✓	5022726.3	✓	12	—	1.6
4	5022526.4	✓	5022626.4	✓	5022726.4	✓	10	—	1.8
5	5022526.5	✓	5022626.5	✓	5022726.5	✓	20	—	2.0
6	5022526.6	✓	5022626.6	✓	5022726.6	✓	45	—	2.5
8	5022526.8	✓	5022626.8	✓	5022726.8	✓	3	—	1.5
10	5022526.10	✓	5022626.10	✓	5022726.10	✓	5	—	1.8
12	5022526.12	✓	5022626.12	✓	5022726.12	✓	9	—	2.3
15	5022526.15	✓	5022626.15	✓	5022726.15	✓	20	—	2.3
16	5022526.16	✓	5022626.16	✓	5022726.16	✓	20	—	2.6
20	5022526.20	✓	5022626.20	✓	5022726.20	✓	29	—	3.1
25	5022526.25	✓	5022626.25	✓	5022726.25	✓	66	—	3.6
30	5022526.30	✓	5022626.30	✓	5022726.30	✓	82	—	5.3

Power loss limit of fuse base has to be considere

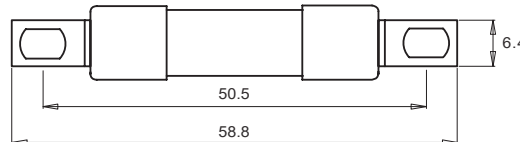
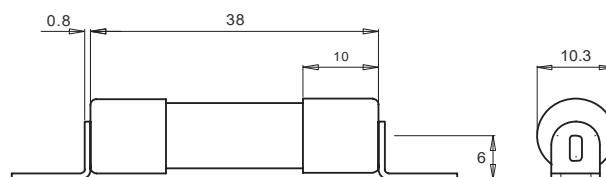


5022526



5022626

Coefficients for Heavy Duty Applications				
a	A2	B1 _{max}	B2	Cf3
130	0.9	1.25	0.5	0.8



5022726



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse module, 1-Pole	5106305.1DC	557	Fuse clips PCB mounting	5806316	563
Fuse module, 1-Pole w/neon lamp indicator	5106305.1LDC		Fuse clips PCB mounting	5806319	
Fuse module, 2-Pole	5106305.2DC		Fuse clips screw mounting	5806317	
Fuse module, 2-Pole w/neon lamp indicator	5106305.2LDC		Terminal link	6301701.3	

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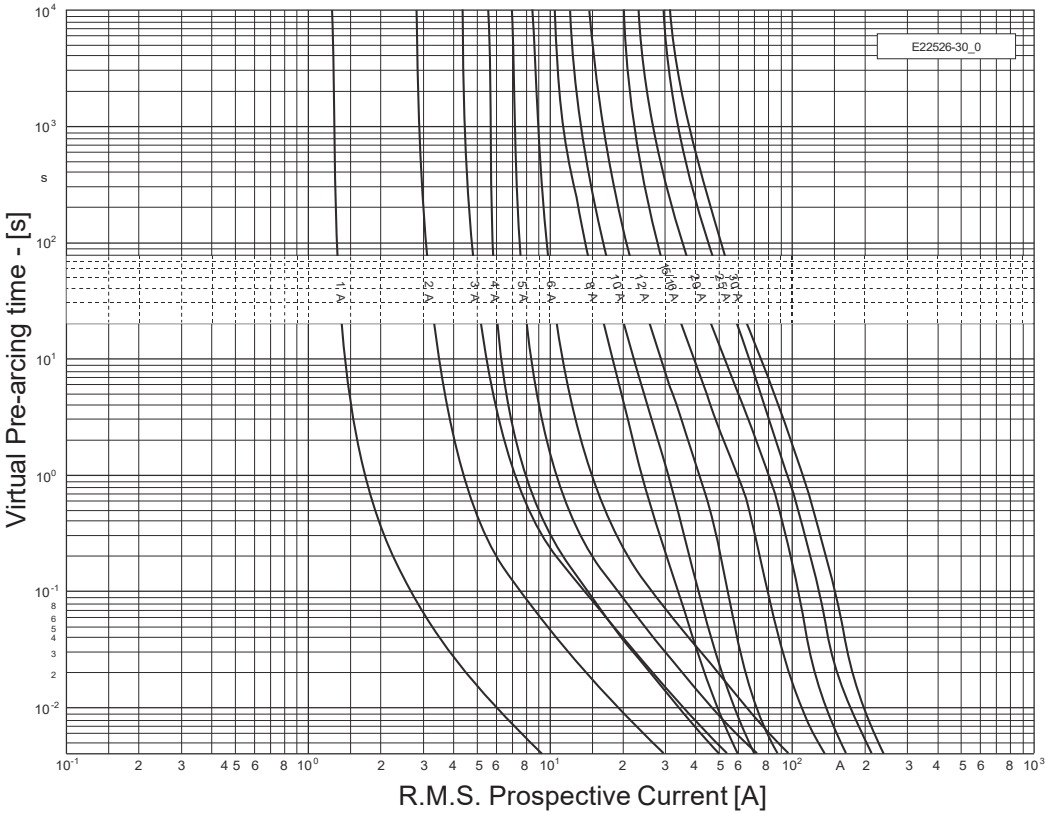
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URDC - 10x38mm	Rated Voltage [U _n]	Rated Breaking Capacity	Test Voltage	Class	Standard(s)
	600V _{DC}	30kA @ L/R=5ms	600V _{DC} (UL) 600V _{DC} (IEC)	gR gPV	UL 248-13 IEC 60269-6
UL File E180276					

Time-Current Characteristics



Full size graphs available upon request

URDC - 27x60mm

Rated Voltage

Rated Breaking Test

Class

Standard(s)



UL File E180276

[U_n]

Capacity

Voltage

gR

660V_{DC} - UL660V_{DC} - IEC440V_{DC} - IEC

30kA @ L/R=10ms

30kA @ L/R=10ms

660V_{DC}440V_{DC} I_n ≥ 125A

UL 248-13

IEC 60269-4

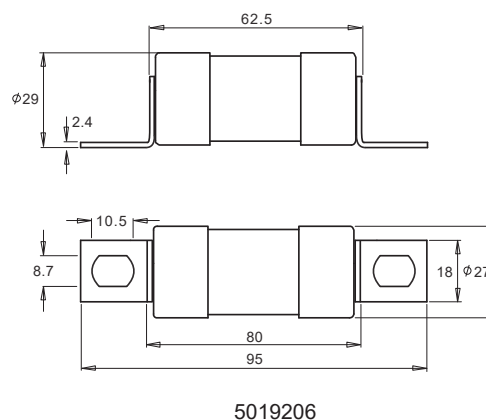
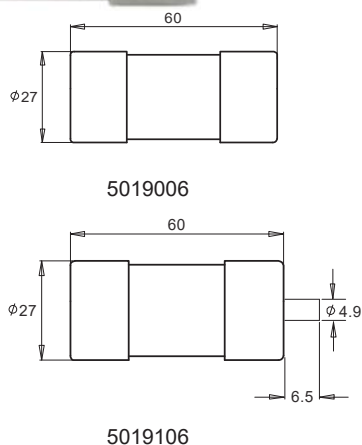
VDE 0636-4

DIN EN 60269-4

Rated current I_n [A]	Without indicator Article Number	UL rec	With 2.5N striker ^a Article Number	Without indicator 80mm Article Number	UL rec		Pre-arcing I^2t [A ² s]	Total I^2t^* @ 660V _{DC} [A ² s]	Power loss [W]
8	5019006.8	✓	5019106.8	5019206.8	✓		4	20	2.0
10	5019006.10	✓	5019106.10	5019206.10	✓		8	40	2.2
12	5019006.12	✓	5019106.12	5019206.12	✓		12	60	2.7
16	5019006.16	✓	5019106.16	5019206.16	✓		32	160	3.1
20	5019006.20	✓	5019106.20	5019206.20	✓		62	310	3.5
25	5019006.25	✓	5019106.25	5019206.25	✓		130	650	3.9
32	5019006.32	✓	5019106.32	5019206.32	✓		250	1 250	4.6
40	5019006.40	✓	5019106.40	5019206.40	✓		420	2 100	6.6
50	5019006.50	✓	5019106.50	5019206.50	✓		620	3 100	7.5
63	5019006.63	✓	5019106.63	5019206.63	✓		1 200	6 000	8.9
80	5019006.80	✓	5019106.80	5019206.80	✓		2 100	10 500	10.9
100	5019006.100	✓	5019106.100	5019206.100	✓		3 500	17 500	13.5
110	5019006.110	✓	5019106.110	5019206.110	✓		4 600	23 000	14.2
125	5019006.125*		5019106.125*	5019206.125*			7 800	29 600	16.0
160	5019006.160*		5019106.160*	5019206.160*			11 800	44 900	19.0
*U _n = 440V _{DC}		^a Striker minimum operating Voltage 10V							
		Weight [kg/1]							
0.09		0.10		0.11					



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

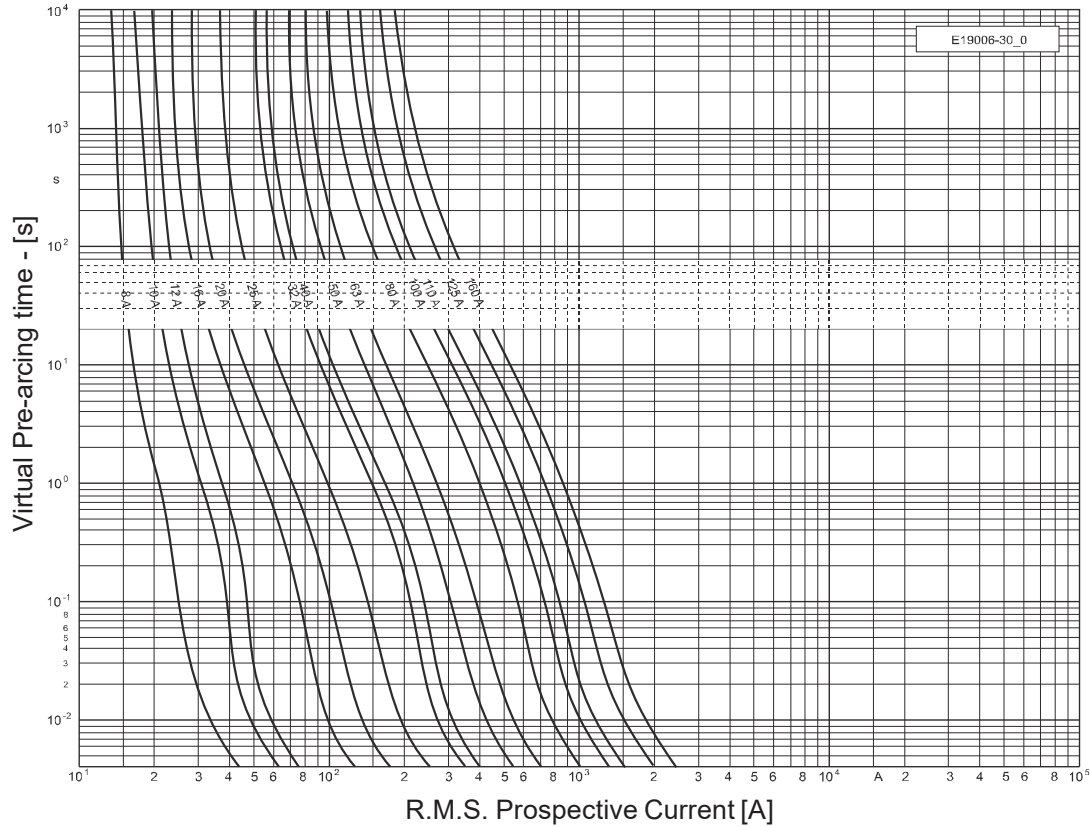


Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
			Fuse clips screw mounting	6100401.3	564
			Clamping plate for 6100401.3	6300201	

URDC - 27x60mm	Rated Voltage [U _n]	Rated Breaking Test Capacity	Class gR	Standard(s)
	660V _{DC} - UL			UL 248-13
	660V _{DC} - IEC	30kA @ L/R=10ms	660V _{DC}	IEC 60269-4
UL File E180276	440V _{DC} - IEC	30kA @ L/R=10ms	440V _{DC} I _n ≥ 125A	VDE 0636-4
				DIN EN 60269-4

Time-Current Characteristics



Full size graphs available upon request

URDC - 14x51mm

Rated Voltage

[U_n]
700V_{DC}

Rated Breaking

Capacity
50kA

Test

Voltage
700V_{DC}

Class

aR

Standard(s)

UL 248-13

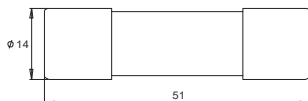


UL File E180276

Rated current I _n [A]	Without indicator Article Number	UL rec		Pre-arcing I ² t [A ² s]	Total I ² t @ 700V _{DC} [A ² s]	Power loss [W]
6	5011806.6	✓		2.0	12	1.3
8	5011806.8	✓		2.9	17	1.7
10	5011806.10	✓		3.9	25	2.6
12	5011806.12	✓		6.5	41	3.1
16	5011806.16	✓		8.0	52	4.7
20	5011806.20	✓		12	70	6.0
25	5011806.25	✓		20	130	7.6
30	5011806.30	✓		32	190	9.8
35	5011806.35			72	430	10.3
40	5011806.40			103	620	11.2
50	5011806.50			128	770	12.6
Weight [kg/l]			* L/R=1ms			
0.02						

Coefficients for Heavy Duty Applications

a	A2	B1 _{max}	B2	Cf3
130	0.55	1.25	0.6	0.8



5011806



Accessories

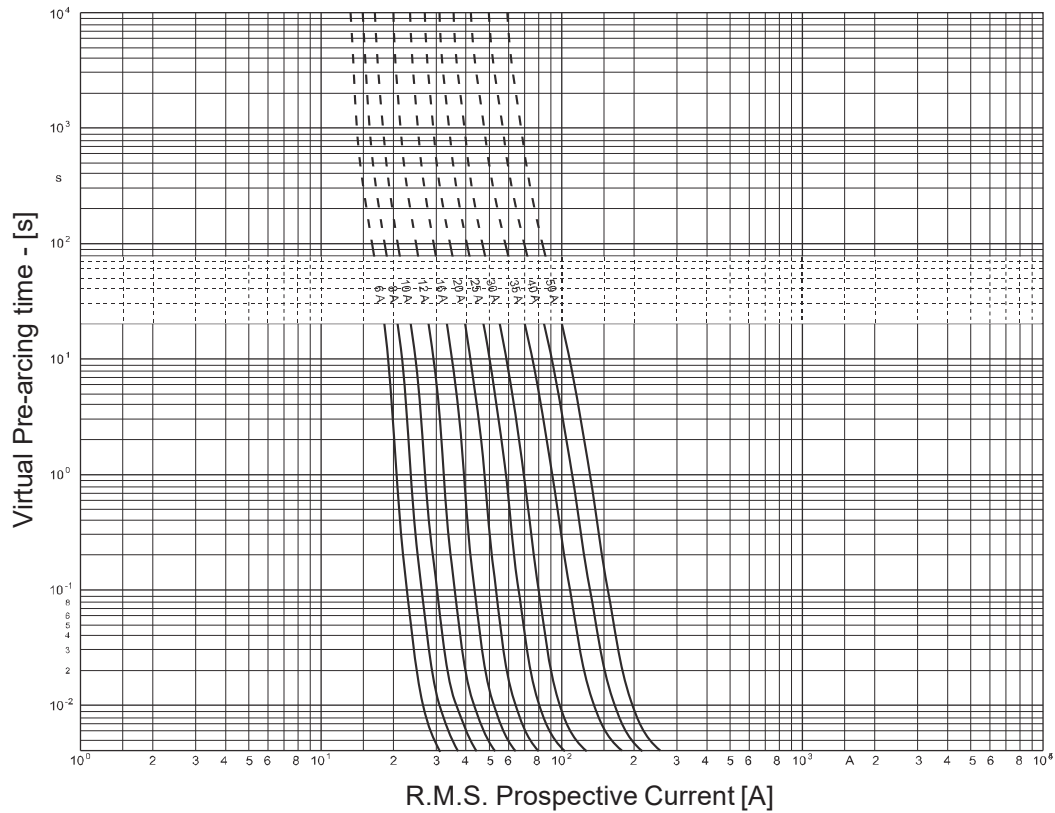
Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse module, 1-Pole	5105805.1DC	558	Fuse clips screw mounting	6100101.2	563
Fuse module, 1-Pole w/neon lamp indicator	5105805.1LDC		Clamping plate for 6100101.2	6301701	
Fuse module, 2-Pole	5105805.2DC		Fuse clips PCB mounting	5805806	
Fuse module, 2-Pole w/neon lamp indicator	5105805.2LDC				

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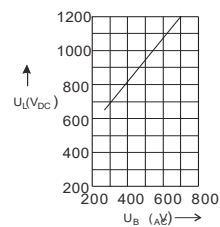
URDC - 14x51mm	Rated Voltage [U _n] 700V _{DC}	Rated Breaking Capacity 50kA	Test Voltage 700V _{DC}	Class aR	Standard(s) UL 248-13
					
UL File E180276					

Time-Current Characteristics

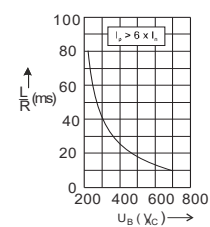


Correction Curves

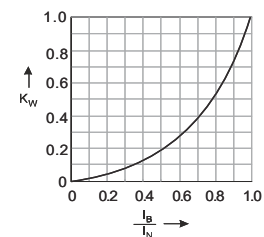
Arc Voltage-Diagram



DC-Application



Reduction factor for power Loss



Full size graphs available upon request

URDC - 14x51mm

Rated Voltage

 $[U_n]$ 700V_{DC}

Rated Breaking

Capacity

50kA

Test

Voltage

700V_{DC}

Class

aR

Standard(s)

UL 248-13

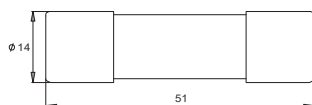


UL File E180276

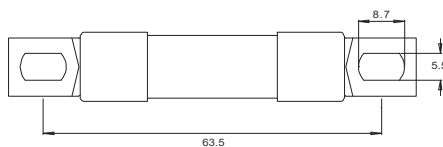
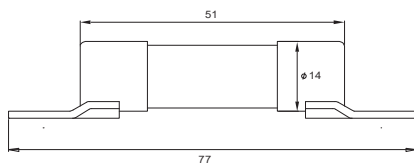
Rated current I_n [A]	Without indicator Article Number	UL rec	Without indicator 63.5mm Article Number		Pre-arcing I^2t [A ² s]	Total I^2 @ 700V _{DC} [A ² s]	Power loss [W]
10	5020106.10	✓	5020206.10		12	67	1.1
12	5020106.12	✓	5020206.12		20	120	1.2
16	5020106.16	✓	5020206.16		32	190	2.0
20	5020106.20	✓	5020206.20		63	360	2.3
25	5020106.25	✓	5020206.25		82	480	3.1
32	5020106.32	✓	5020206.32		130	740	4.1
40	5020106.40	✓	5020206.40		250	1 460	4.6
50	5020106.50	✓	5020206.50		330	1 900	7
63	5020106.63	✓	5020206.63		512	3 900	9.5
Weight [kg/1]							
0.02							

Coefficients for Heavy Duty Applications

a	A2	B1 _{max}	B2	Cf3
150	0.55	1.25	0.6	0.8



5020106



5020206



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse module, 1-Pole	5105805.1DC	58	Fuse clips screw mounting	6100101.2	563
Fuse module, 1-Pole w/neon lamp indicator	5105805.1LDC		Clamping plate for 6100101.2	6301701	
Fuse module, 2-Pole	5105805.2DC		Fuse clips PCB mounting	5805806	
Fuse module, 2-Pole w/neon lamp indicator	5105805.2LDC				

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URDC - 14x51mm

Rated Voltage

 $[U_n]$ 700V_{DC}

Rated Breaking

Capacity

50kA

Test

Voltage

700V_{DC}

Class

aR

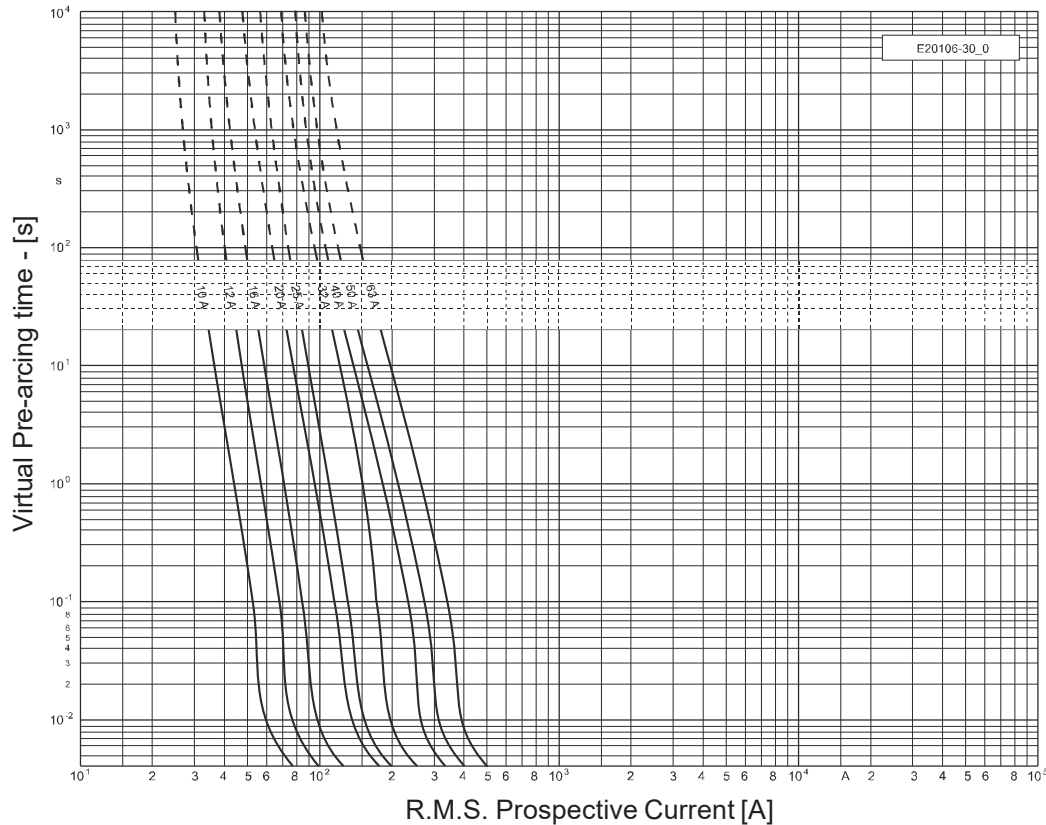
Standard(s)

UL 248-13



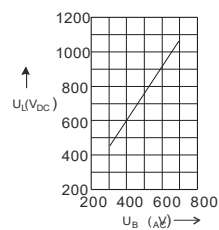
UL File E180276

Time-Current Characteristics

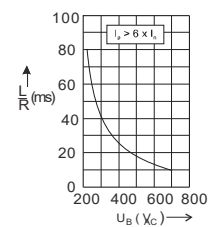


Correction Curves

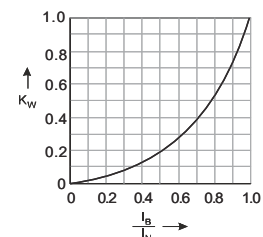
Arc Voltage-Diagram



DC-Application



Reduction factor for power Loss



Full size graphs available upon request

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URDC - NH00

Rated Voltage

Rated Breaking

Test

Class

Standard(s)


 $[U_n]$
700V_{DC}

Capacity

 Voltage
700V_{DC}

 UL 248-13
VDE 0636-4

Fuse Links for Low Inductance

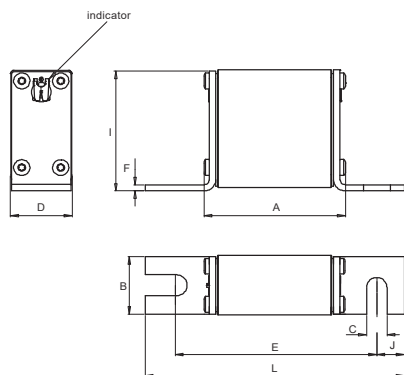
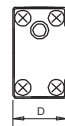
UL File E180276

Applications

Rated current I_n [A]	Without indicator DIN 80 Article Number	UL rec	With top indicator DIN 80 Article Number	UL rec	With top indicator 70mm Article Number		Pre-arcing I^2t [A²s]	Total I^2t^* @ 700V _{DC} [A²s]	Power loss [W]
35	2029221.35	✓	2029220.35	✓	2025920.35		26	135	14
50	2029221.50	✓	2029220.50	✓	2025920.50		104	530	17
63	2029221.63	✓	2029220.63	✓	2025920.63		140	690	20
80	2029221.80	✓	2029220.80	✓	2025920.80		330	1 650	23
100	2029221.100	✓	2029220.100	✓	2025920.100		930	4 300	26
125	2029221.125	✓	2029220.125	✓	2025920.125		1 400	6 400	30
160	2029221.160	✓	2029220.160	✓	2025920.160		1 950	8 000	35
200	2029221.200	✓			2025920.200		3 740	16 000	40
250	2029221.250	✓	2029220.250	✓	2025920.250		5 580	22 900	45
315	2029221.315	✓	2029220.315	✓	2025920.315		12 300	46 000	51
	Weight [kg/1]							* L/R=1ms	
	0.125		0.13		0.13				

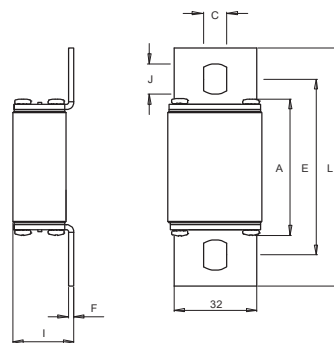
Coefficients for Heavy Duty Applications

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



2029221 / 2029220

Dimensions [in / mm]			
2.17 / 55	A	2.13 / 54	
0.79 / 20	B	1.26 / 32	
0.33 / 8.5	C	0.35 / 9.0	
0.80 / 20.4	D	0.80 / 20.4	
3.07 / 78	E	2.76 / 70	
0.08 / 2.0	F	0.08 / 2.0	
—	G	—	
1.53 / 39	I	0.93 / 23.5	
—	J	0.47 / 12	
3.94 / 100	L	3.74 / 95	



2025920

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
2029221 / 2029220					
Fuse base DIN 80 (UL File E341490)	2118928	546			
	2119028				

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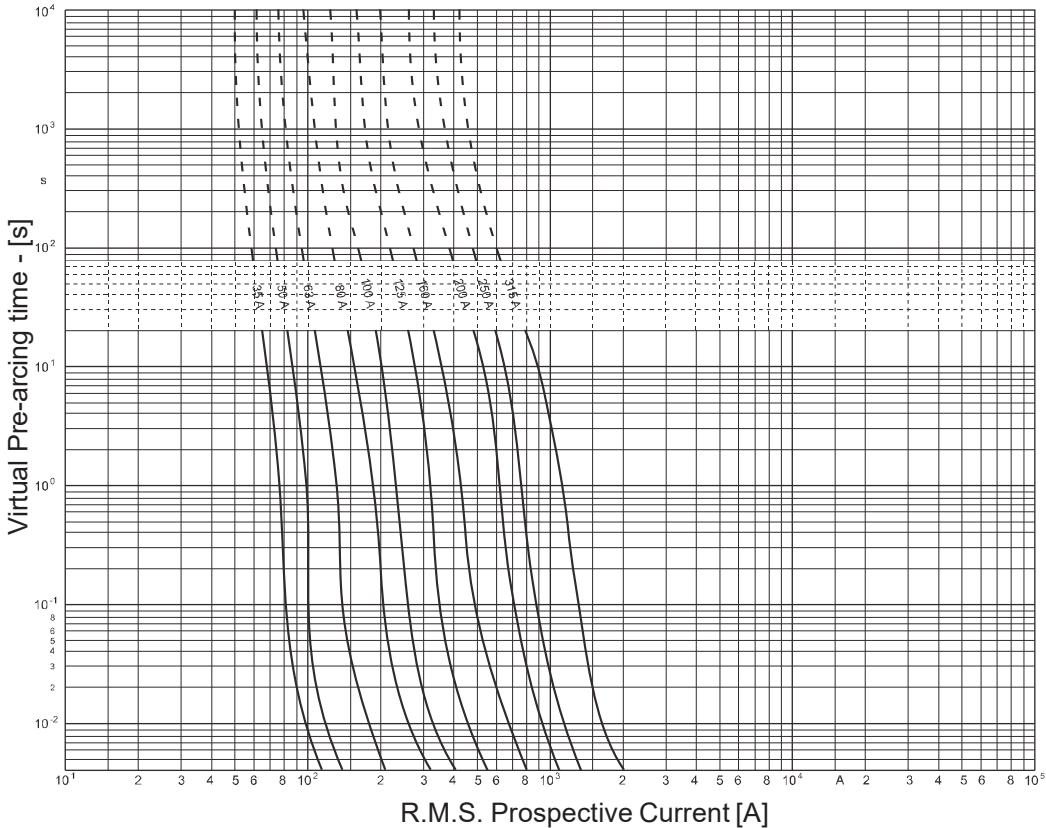
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e-mail: info@sibafuse.com

URDC - NH00	Rated Voltage [U _n] 700V _{DC}	Rated Breaking Capacity 30kA	Test Voltage 700V _{DC}	Class aR	Standard(s) UL 248-13 VDE 0636-4
	Fuse Links for Low Inductance Applications				
UL File E180276					

Time-Current Characteristics



Full size graphs available upon request

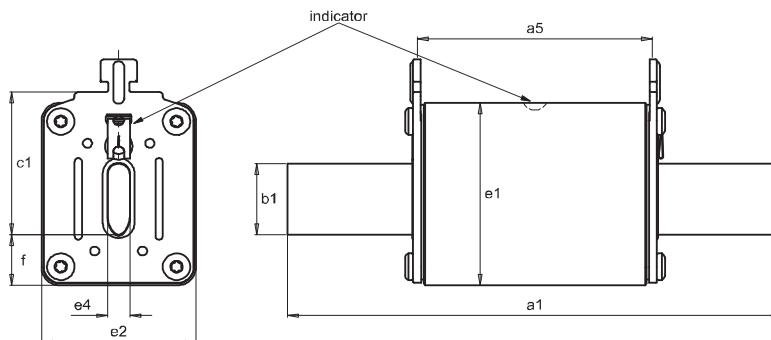
URDC - NH1	Rated Voltage [U _n] 750V _{DC}	Rated Breaking Test Capacity 50kA @ L/R = 1ms	Class gR ≤ 160A aR ≥ 200A	Standard(s) Company Standard
------------	--	---	---------------------------------	------------------------------------

Rated current I _n [A]	With top indicator Article Number		Pre-arcing I ² t [A ² s]	Total I ² t @ 750V _{DC}	Power loss [W]
32	2055604.32		100	800	5.9
40	2055604.40		180	1 490	7.1
50	2055604.50		290	2 200	8.6
63	2055604.63		410	3 200	10
80	2055604.80		740	5 700	12
100	2055604.100		1 300	10 000	15
125	2055604.125		2 500	19 000	19
160	2055604.160		3 700	29 000	23
200	2055604.200		6 600	22 000	35
	Weight [kg/1]				
	0.37				

Coefficients for Heavy Duty Applications

a	A2	B1 _{max}	B2	Cf3
130	0.6	1.3	0.6	0.8

Dimensions [in / mm]	
a ₁	5.30 / 135
a ₅	2.56 / 65
b ₁	0.79 / 20
c ₁	1.57 / 40
e ₁	2.03 / 51.5
e ₂	1.65 / 42
e ₄	0.24 / 6
f	0.55 / 14

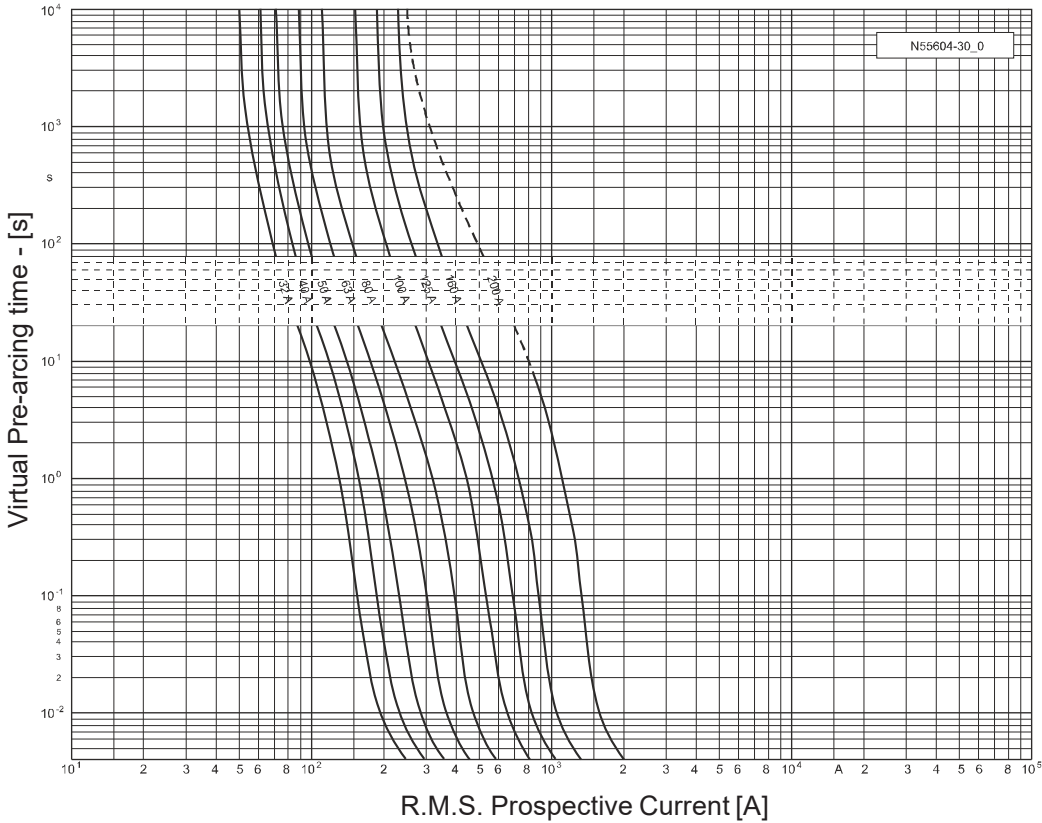


Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base 1-Pole	2155601	555	Microswitch (red hammer)	2800202	540
			(UL File E309038)	2800204	

URDC - NH1	Rated Voltage [U _n] 750V _{DC}	Rated Breaking Capacity 50kA @ L/R = 1ms	Test Voltage 750V _{DC}	Class gR ≤ 160A aR ≥ 200A	Standard(s) Company Standard
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Time-Current Characteristics



Full size graphs available upon request

URDC - 10x38mm

Rated Voltage

Rated Breaking

Test

Class

Standard(s)

[U_n]

Capacity

Voltage

gR

UL 248-13

1000V_{DC} - UL

30kA @ L/R = 1ms

1000V_{DC}

IEC 60269-4

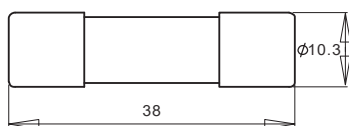
900V_{DC} - IEC

UL File E180276

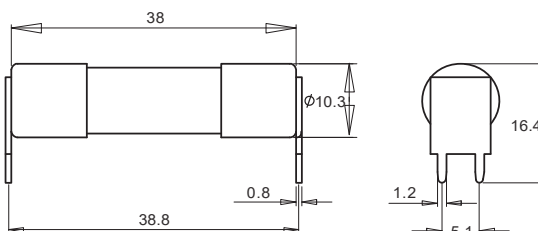
Rated current I _n [A]	Without indicator Article Number	UL rec	Without indicator PCB Article Number	UL rec	Without indicator 50.6mm Article Number	UL rec	Pre-arcing I ² t [A ² s]	Total I ² t @ 1000V _{DC} [A ² s]	Power loss [W]
0.5	5021506.0.5	✓	5021606.0.5	✓	5021706.0.5	✓	0.2	2.2	0.2
1	5021506.1	✓	5021606.1	✓	5021706.1	✓	0.45	2	0.3
2	5021506.2	✓	5021606.2	✓	5021706.2	✓	1.2	3	0.4
3.5	5021506.3.5	✓	5021606.3.5	✓	5021706.3.5	✓	5	27	0.5
6	5021506.6	✓	5021606.6	✓	5021706.6	✓	5	40	0.7
8	5021506.8	✓	5021606.8	✓	5021706.8	✓	7	55	1.1
10	5021506.10	✓	5021606.10	✓	5021706.10	✓	10	77	1.5
12	5021506.12	✓	5021606.12	✓	5021706.12	✓	20	155	1.6
16	5021506.16	✓	5021606.16	✓	5021706.16	✓	30	230	2.1
20	5021506.20	✓	5021606.20	✓	5021706.20	✓	52	395	2.5
Weight [kg/1]							* L/R=1ms		
0.01									



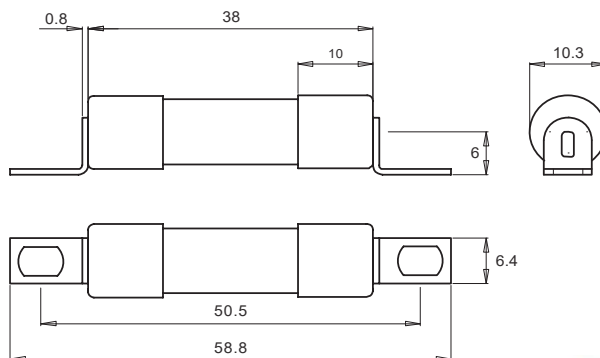
Coefficients for Heavy Duty Applications				
a	A2	B1 _{max}	B2	Cf3
130	0.9	1.25	0.5	0.8



5021506



5021606



5021706



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse module, 1-Pole	5106305.1DC	557	Fuse clips PCB mounting	5806316	563
Fuse module, 1-Pole w/neon lamp indicator	5106305.1LDC		Fuse clips PCB mounting	5806319	
Fuse module, 2-Pole	5106305.2DC		Fuse clips screw mounting	5806317	
Fuse module, 2-Pole w/neon lamp indicator	5106305.2LDC		Terminal link	6301701.3	

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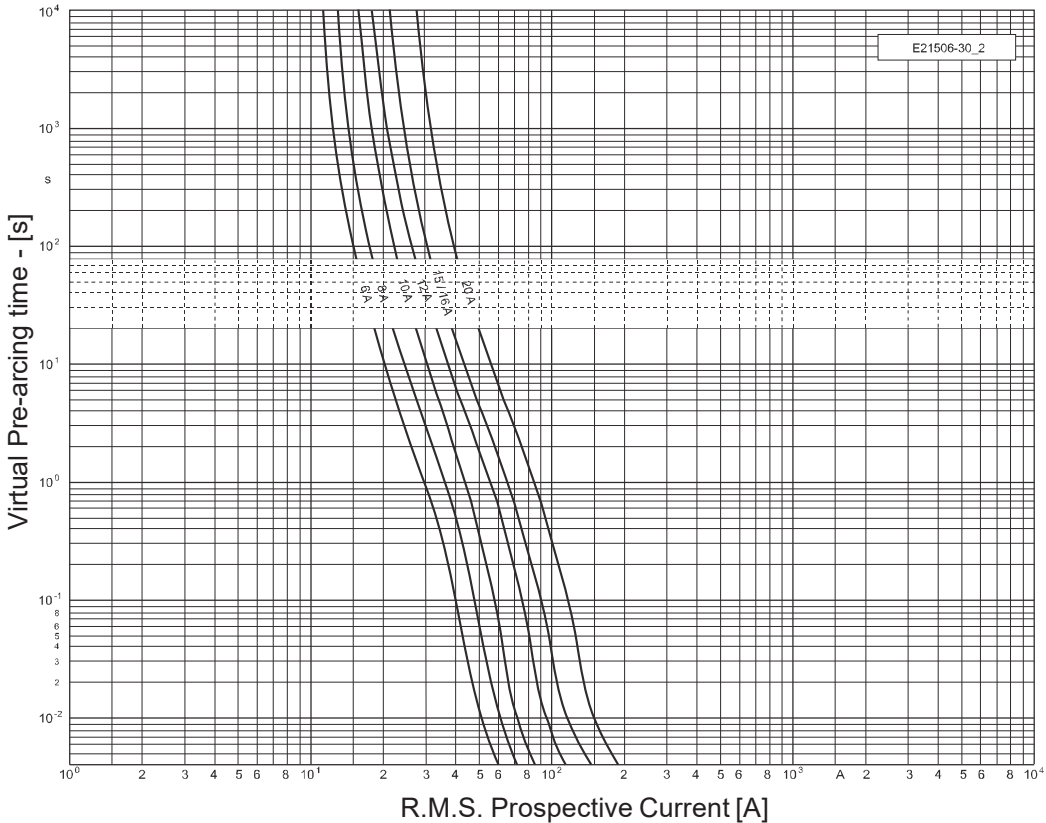
Phone 1-973-575-7422

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portal: www.siballc.nete-mail: info@sibafuse.com

URDC - 10x38mm	Rated Voltage [U _n]	Rated Breaking Capacity	Test Voltage	Class gR	Standard(s)
	1000V _{DC} - UL 900V _{DC} - IEC	30kA @ L/R = 1ms	1000V _{DC}		UL 248-13 IEC 60269-4
UL File E180276					

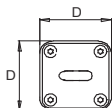
Time-Current Characteristics



Full size graphs available upon request

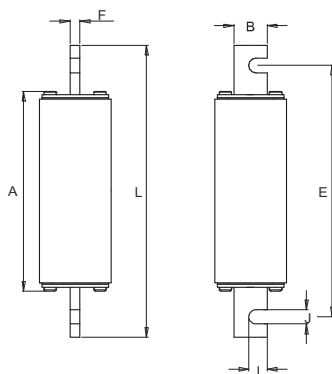
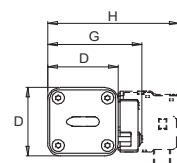
URDC - SQB-DC90	Rated Voltage [U _n] 900V _{DC}	Rated Breaking Capacity 30kA @ L/R = 10ms 100kA @ L/R = 40ms 100kA @ L/R = 100ms	Test Voltage 1000V _{DC} 900V _{DC} 750V _{DC}	Class gR	Standard(s) IEC 60077-5 UIC 550 VDE 0115-460-5
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Rated current I_n [A]	Without indicator Article Number	With microswitch adapter Article Number	Without indicator Article Number	With microswitch adapter Article Number		Pre-arcing I^2t [A ² s]	Total I^2t^* @ 1000V _{DC} [A ² s]	Power loss [W]
50	9030020.50	9030021.50	9035020.50	9035021.50		480	3 200	11
63	9030020.63	9030021.63	9035020.63	9035021.63		900	6 200	13
80	9030020.80	9030021.80	9035020.80	9035021.80		1 900	13 000	16
100	9030020.100	9030021.100	9035020.100	9035021.100		3 600	24 500	19
125	9030020.125	9030021.125	9035020.125	9035021.125		6 600	45 000	24
160	9030020.160	9030021.160	9035020.160	9035021.160		11 200	76 500	31
	Bladed Contacts		Threaded Contacts			* L/R=10ms		
	Weight [kg/1]							
	0.64		0.64			H G		

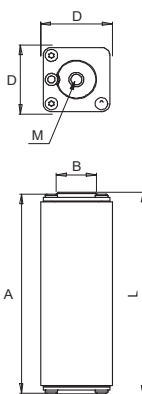
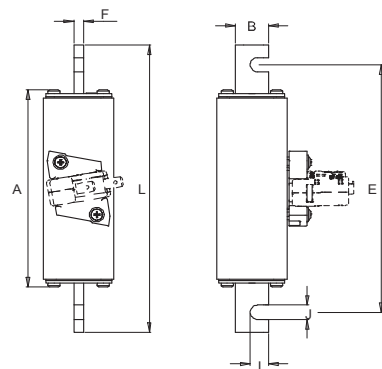


Coefficients for Heavy Duty Applications

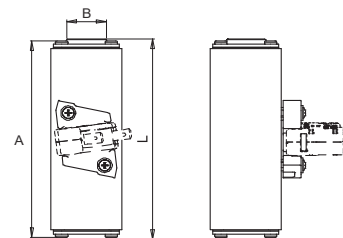
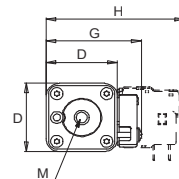
a	A2	B1 _{max}	B2	Cf3
130	0.6	1.25	0.5	0.8



Dimensions in / mm		
9030020		9030021
4.88 / 124	A	4.88 / 124
0.79 / 20	B	0.79 / 20
1.69 / 43	D	1.69 / 43
6.14 / 156	E	6.14 / 156
0.24 / 6	F	0.24 / 6
—	G	2.28 / 58
—	H	3.27 / 83
0.43 / 11	I	0.43 / 11
0.35 / 9	J	0.35 / 9
7.13 / 181	L	7.13 / 181



Dimensions in / mm		
9035020		9035021
4.88 / 124	A	4.88 / 124
0.94 / 24	B	0.94 / 24
1.69 / 43	D	1.69 / 43
—	G	2.28 / 58
—	H	3.27 / 83
4.96 / 126	L	4.96 / 126
M8	M	M8
Thread Depth 0.35 / 9		
Maximum Torque 22N•m 16.2lb•ft		

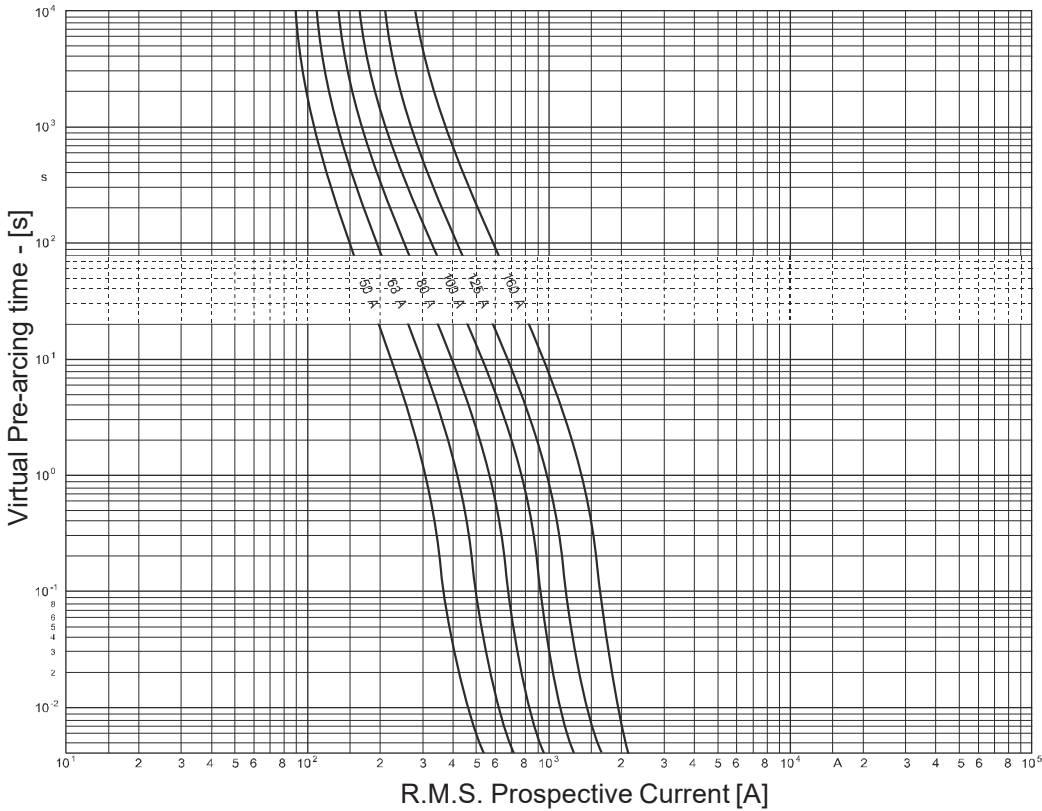


Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
			Microswitch - NO-NC, UL E309038		
			Standard level	2800114	541
			Low level	2801114	

URDC - SQB-DC90	Rated Voltage [U _n] 900V _{DC}	Rated Breaking Capacity 30kA @ L/R = 10ms 100kA @ L/R = 40ms 100kA @ L/R = 100ms	Test Voltage 1000V _{DC} 900V _{DC} 750V _{DC}	Class gR	Standard(s) IEC 60077-5 UIC 550 VDE 0115-460-5
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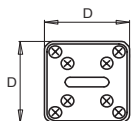
Time-Current Characteristics



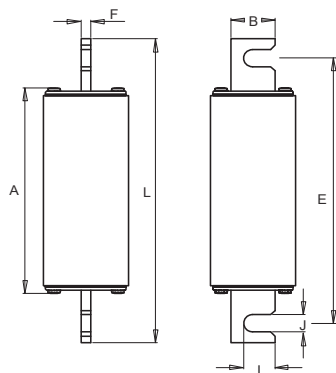
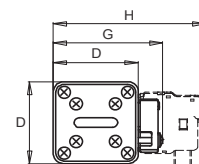
Full size graphs available upon request

URDC - SQB-DC91	Rated Voltage [U _n] 900V _{DC}	Rated Breaking Capacity 30kA @ L/R = 10ms 100kA @ L/R = 40ms 100kA @ L/R = 100ms	Test Voltage 1000V _{DC} 900V _{DC} 750V _{DC}	Class gR	Standard(s) IEC 60077-5 UIC 550 VDE 0115-460-5
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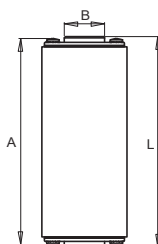
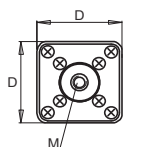
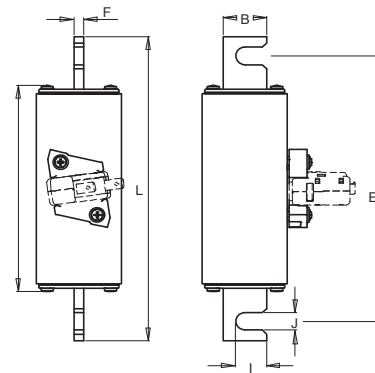
Rated current I _n [A]	Without indicator Article Number	With microswitch adapter Article Number	Without indicator Article Number	With microswitch adapter Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @ 1000V _{DC} [A ² s]	Power loss [W]
160	9031020.160	9031021.160	9036020.160	9036021.160		9 500	51 000	28
200	9031020.200	9031021.200	9036020.200	9036021.200		17 000	116 000	37
250	9031020.250	9031021.250	9036020.250	9036021.350		27 000	184 000	45
Bladed Contacts			Threaded Contacts			* L/R=10ms		
Weight [kg/1]								
1.0			1.1					



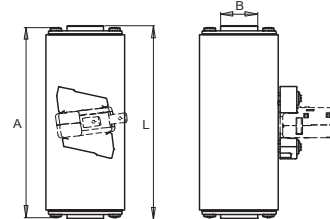
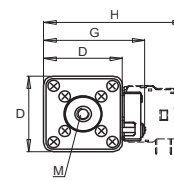
Coefficients for Heavy Duty Applications				
a	A2	B1 _{max}	B2	Cf3
130	0.6	1.25	0.5	0.8



Dimensions in / mm		
9031020		9031021
5.08 / 129	A	5.08 / 129
1.02 / 26	B	1.02 / 26
2.01 / 51	D	2.01 / 51
6.54 / 166	E	6.54 / 166
0.24 / 6	F	0.24 / 6
—	G	2.60 / 66
—	H	3.58 / 91
0.73 / 18.5	I	0.73 / 18.5
0.43 / 11	J	0.43 / 11
7.48 / 190	L	7.48 / 190



Dimensions in / mm		
9036020		9036021
5.08 / 129	A	5.08 / 129
0.94 / 24	B	0.94 / 24
2.01 / 51	D	2.01 / 51
—	G	2.60 / 66
—	H	3.58 / 91
5.18 / 131.5	L	5.18 / 131.5
M8	M	M8
Thread Depth 0.39 / 10		
Maximum Torque 22N•m 16.2lb•ft		

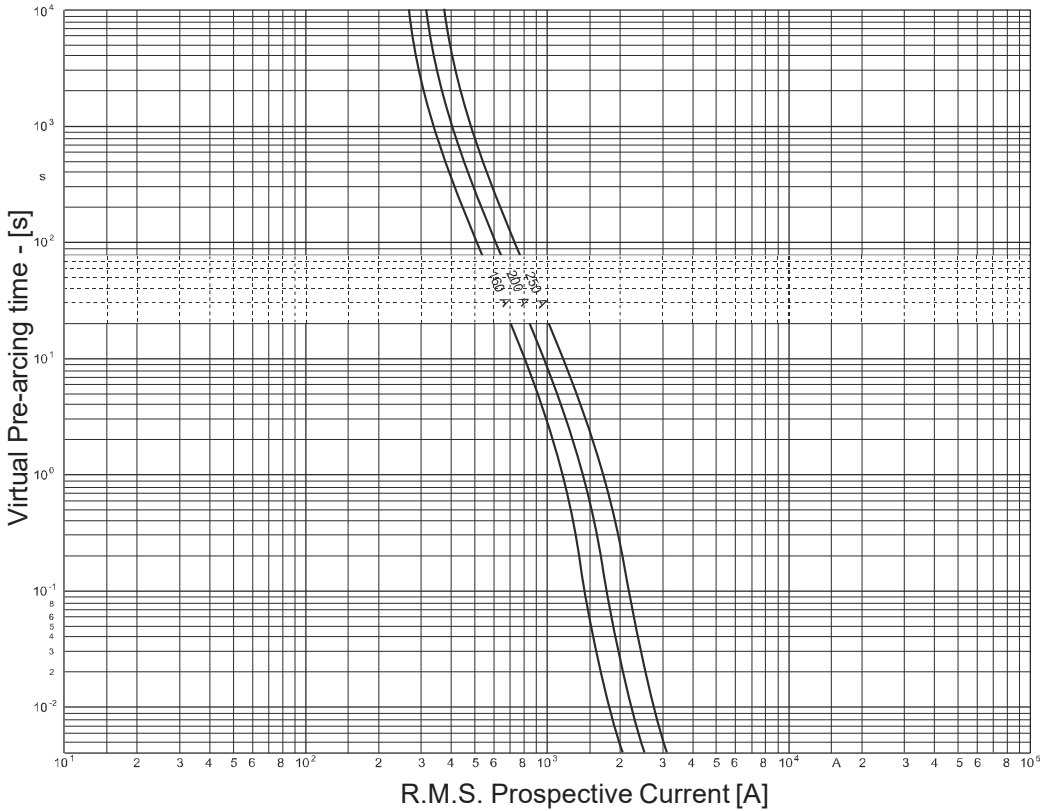


Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
			Microswitch - NO-NC, UL E309038		
			Standard level	2800114	541
			Low level	2801114	

URDC - SQB-DC91	Rated Voltage [U _n] 900V _{DC}	Rated Breaking Capacity 30kA @ L/R = 10ms 100kA @ L/R = 40ms 100kA @ L/R = 100ms	Test Voltage 1000V _{DC} 900V _{DC} 750V _{DC}	Class gR	Standard(s) IEC 60077-5 UIC 550 VDE 0115-460-5
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Time-Current Characteristics

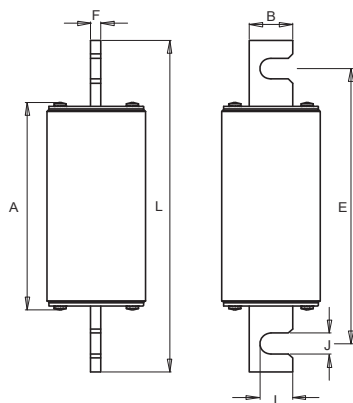
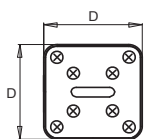


Full size graphs available upon request

URDC - SQB-DC92		Rated Voltage [U _n] 900V _{DC}		Rated Breaking Test Capacity 30kA @ L/R = 10ms 100kA @ L/R = 40ms 100kA @ L/R = 100ms		Voltage 1000V _{DC} 900V _{DC} 750V _{DC}		Class gR	Standard(s) IEC 60077-5 UIC 550 VDE 0115-460-5
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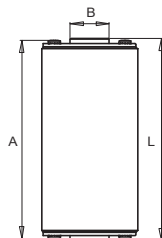
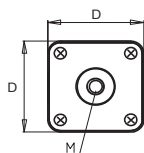
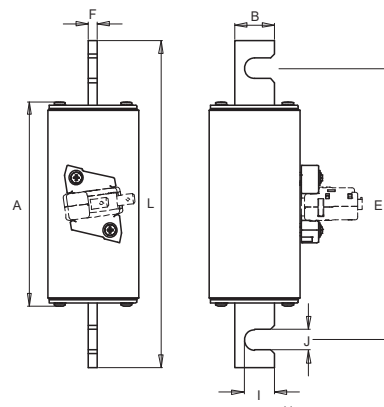
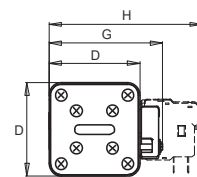
Rated current I _n [A]	Without indicator Article Number	With microswitch adapter Article Number	With microswitch adapter Article Number	Without indicator Article Number	With microswitch adapter Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @ 1000V _{DC} [A ² s]	Power loss [W]
250	9032020.250	9032021.250	9032621.250	9037020.250	9037021.250		21 500	141 000	48
315	9032020.315	9032021.315	9032621.315	9037020.315	9037021.315		38 000	249 000	57
350	9032020.350	9032021.350	9032621.350	9037020.350	9037021.350		57 100	374 000	61
400	9032020.400	9032021.400	9032621.400	9037020.400	9037021.400		79 800	522 000	67

Bladed Contacts		Threaded Contacts	
Weight [kg/1]			
1.36		1.26	

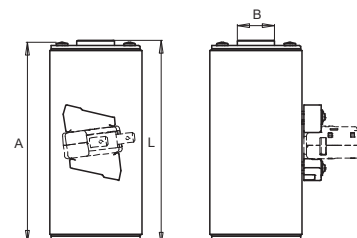
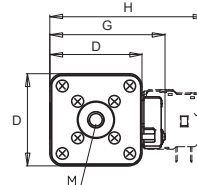


Coefficients for Heavy Duty Applications				
a	A2	B1 _{max}	B2	Cf3
130	0.6	1.25	0.5	0.8

Dimensions in / mm		
9032020		9032021
5.08 / 129	A	5.08 / 129
1.02 / 26	B	1.02 / 26
2.36 / 60	D	2.36 / 60
6.73 / 171	E	6.73 / 171
0.24 / 6	F	0.24 / 6
—	G	2.95 / 75
—	H	3.94 / 100
0.77 / 19.5	I	0.77 / 19.5
0.51 / 13	J	0.51 / 13
8.11 / 206	L	8.11 / 206



Dimensions in / mm		
9037020		9037021
5.08 / 129	A	5.08 / 129
0.94 / 24	B	0.94 / 24
2.36 / 60	D	2.36 / 60
—	G	2.95 / 75
—	H	3.84 / 98
5.18 / 131.5	L	5.18 / 131.5
M10	M	M10
Thread Depth 0.39 / 10		
Maximum Torque 39N•m 28.7lb•ft		

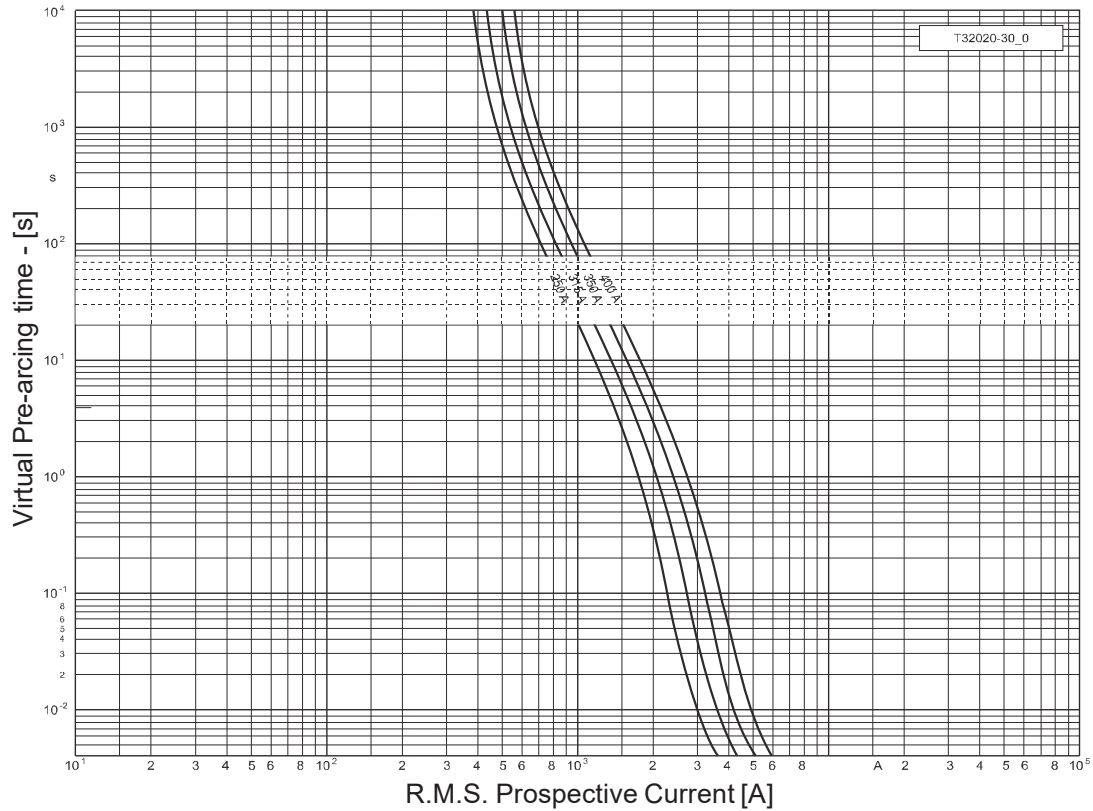


Accessories

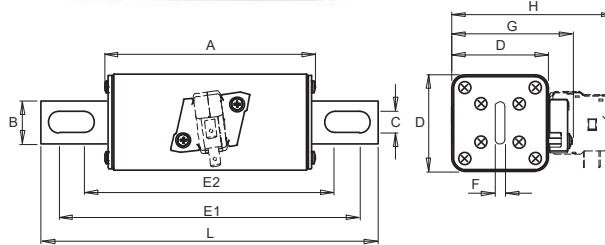
Article Description	Article Number	Page	Article Description	Article Number	Page
			Microswitch - NO-NC, UL E309038		
			Standard level	2800114	541
			Low level	2801114	

URDC - SQB-DC92	Rated Voltage	Rated Breaking Test		Class	Standard(s)
	[U _n]	Capacity	Voltage	gR	IEC 60077-5
	900V _{DC}	30kA @ L/R = 10ms	1000V _{DC}		UIC 550
		100kA @ L/R = 40ms	900V _{DC}		VDE 0115-460-5
		100kA @ L/R = 100ms	750V _{DC}		

Time-Current Characteristics



Dimensions	
[in / mm]	
	9032621
A	5.08 / 129
B	1.02 / 26
C	0.55 / 14
D	2.36 / 60
E1	7.48 / 190
E2	6.06 / 154
F	0.24 / 6
G	2.95 / 75
H	3.94 / 100
L	8.46 / 216



Full size graphs available upon request

URDC - SQB-DC92-2	Rated Voltage [U _n] 900V _{DC}	Rated Breaking Capacity 30kA @ L/R = 10ms 100kA @ L/R = 40ms 100kA @ L/R = 100ms	Test Voltage 1000V _{DC} 900V _{DC} 750V _{DC}	Class gR	Standard(s) IEC 60077-5 UIC 550 VDE 0115-460-5
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Rated current I _n [A]	With microswitch adapter Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @ 1000V _{DC} [A ² s]	Power loss [W]
500	9037821.500		86 000	564 000	96
630	9037821.630		152 000	996 000	114
700	9037821.700		228 400	1 496 000	122
800	9037821.800		319 200	2 088 000	134
Weight [kg/1]			* L/R=10ms		
2.95					

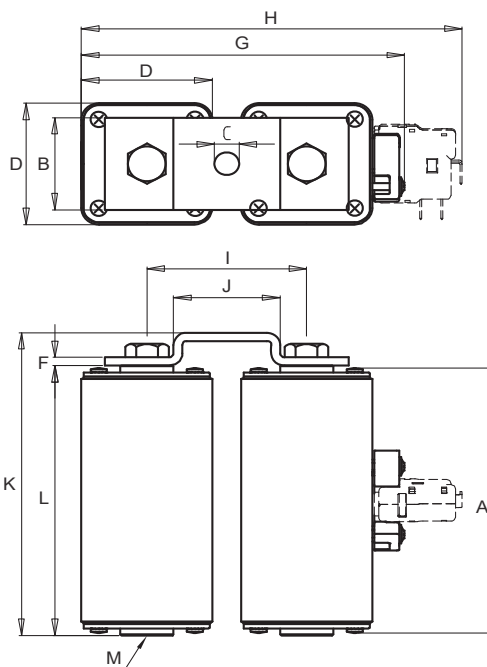


Coefficients for Heavy Duty Applications

a	A2	B1 _{max}	B2	Cf3
130	0.6	1.25	0.5	0.8

Dimensions

	[in / mm]
A	5.08 / 129
B	1.77 / 45
C	0.43 / 11
D	2.36 / 60
F	0.16 / 4
G	5.79 / 147
H	6.77 / 172
I	2.83 / 72
J	1.38 / 35
K	5.81 / 147.6
L	5.18 / 131.5
M	M10
Thread Depth 0.39 / 10	
Maximum Torque 39N•m 28.7lb•ft	



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
			Microswitch - NO-NC, UL E309038		
			Standard level	2800114	541
			Low level	2801114	

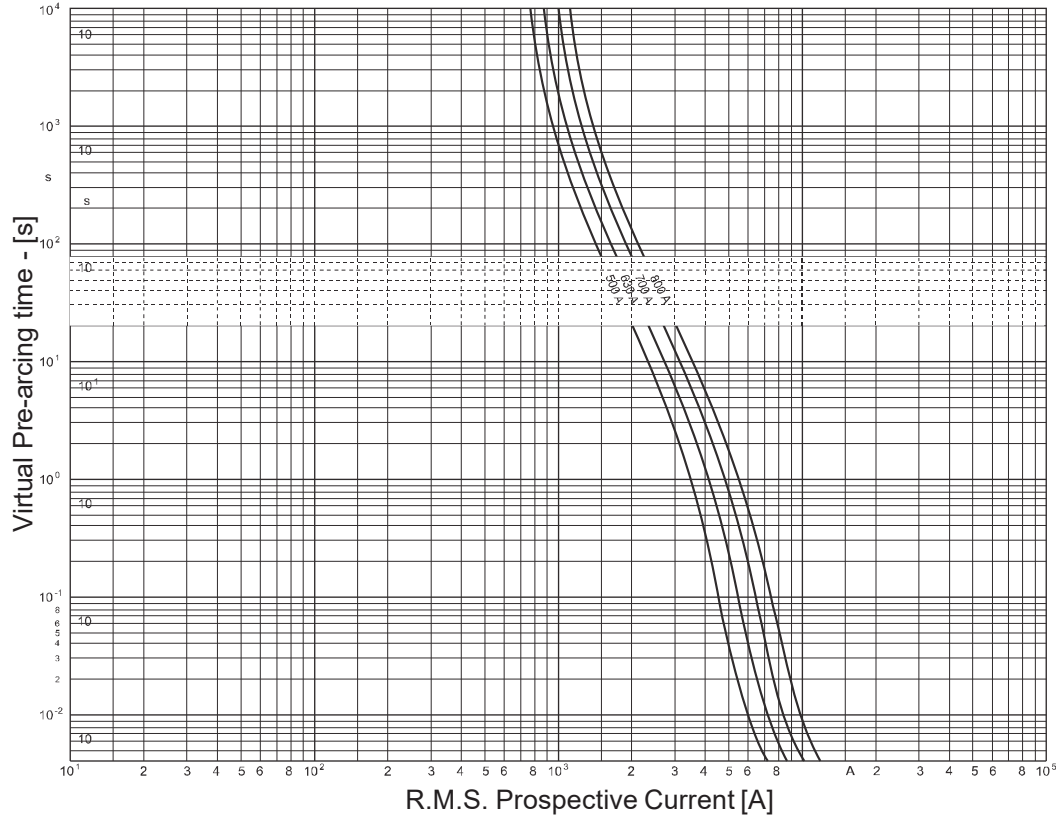
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URDC - SQB-DC92-2	Rated Voltage [U _n] 900V _{DC}	Rated Breaking Capacity 30kA @ L/R = 10ms 100kA @ L/R = 40ms 100kA @ L/R = 100ms	Test Voltage 1000V _{DC} 900V _{DC} 750V _{DC}	Class gR	Standard(s) IEC 60077-5 UIC 550 VDE 0115-460-5
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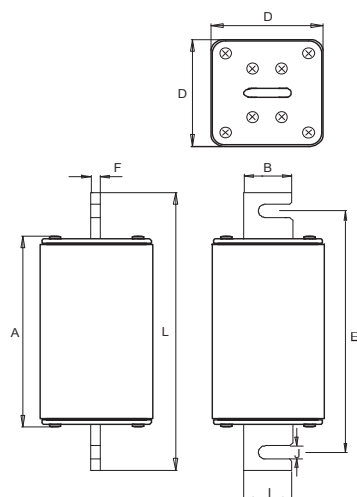
Time-Current Characteristics



Full size graphs available upon request

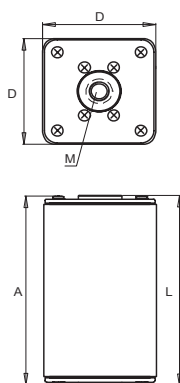
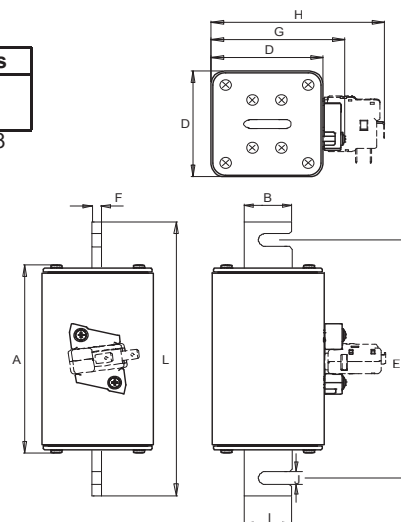
URDC - SQB-DC93	Rated Voltage [U _n] 900V _{DC}	Rated Breaking Capacity 30kA @ L/R = 10ms 100kA @ L/R = 40ms 100kA @ L/R = 100ms	Test Voltage 1000V _{DC} 900V _{DC} 750V _{DC}	Class gR	Standard(s) IEC 60077-5 UIC 550 VDE 0115-460-5
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Rated current I _n [A]	Without indicator Article Number	With microswitch adapter Article Number	Without indicator Article Number	With microswitch adapter Article Number	Breaking test voltage [V]	Pre-arcing I ² t [A ² s]	Total I ² t** @ 1000V _{DC} [A ² s]	Power loss [W]
450	9033020.450	9033021.450	9038020.450	9038021.450	1000	106 000	691 000	75
500	9033020.500	9033021.500	9038020.500	9038021.500	1000	129 000	835 000	86
550	9033020.550	9033021.550	9038020.550	9038021.550	900*	153 000	1 357 000	97
630	9033020.630	9033021.630	9038020.630	9038021.630	900*	180 000	1 615 000	112
700	9033020.700	9033021.700	9038020.700	9038021.700	900*	240 000	2 150 000	127
Bladed Contacts			Threaded Contacts			* U _p = 1.0xU _N		
Weight [kg/1]						** L/R=10ms		
2.06			1.96					

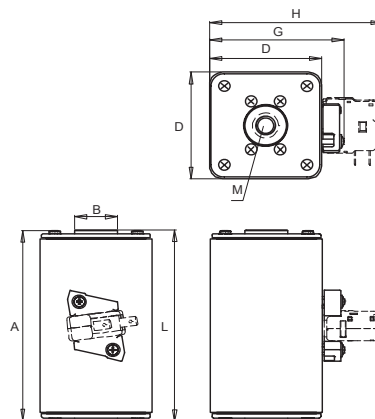


Coefficients for Heavy Duty Applications				
a	A2	B1 _{max}	B2	Cf3
130	0.6	1.25	0.5	0.8

Dimensions in / mm	
9033020	9033021
5.14 / 130.5	A 5.14 / 130.5
1.38 / 35	B 1.38 / 35
2.87 / 73	D 2.87 / 73
6.73 / 171	E 6.73 / 171
0.24 / 6	F 0.24 / 6
—	G 3.46 / 88
—	H 4.45 / 113
0.94 / 24	I 0.94 / 24
0.51 / 13	J 0.51 / 13
8.11 / 206	L 8.11 / 206



Dimensions in / mm	
9038020	9038021
5.14 / 130.5	A 5.14 / 130.5
1.10 / 28	B 1.10 / 28
2.87 / 73	D 2.87 / 73
—	G 3.46 / 88
—	H 4.45 / 113
5.18 / 131.5	L 5.18 / 131.5
M12	M M12
Thread Depth 0.47 / 12 Maximum Torque 52N•m 38.3lb•ft	

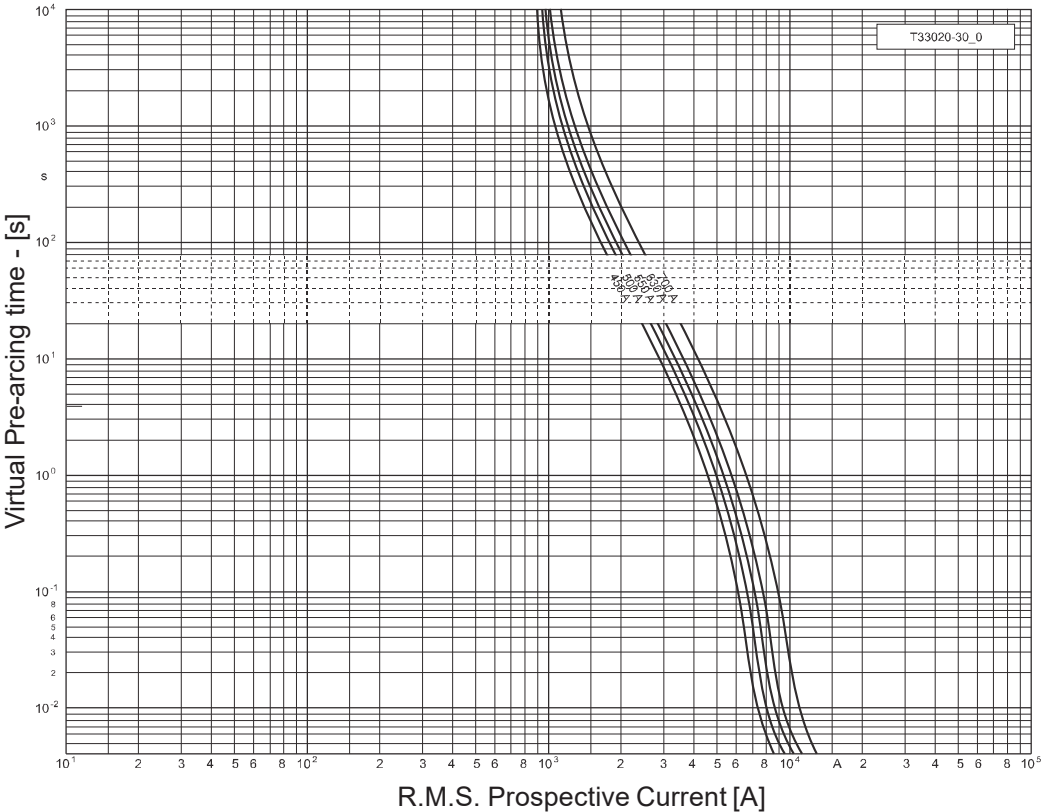


Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
			Microswitch - NO-NC, UL E309038		
			Standard level	2800114	541
			Low level	2801114	

URDC - SQB-DC93	Rated Voltage [U _n] 900V _{DC}	Rated Breaking Capacity 30kA @ L/R = 10ms 100kA @ L/R = 40ms 100kA @ L/R = 100ms	Test Voltage 1000V _{DC} 900V _{DC} 750V _{DC}	Class gR	Standard(s) IEC 60077-5 UIC 550 VDE 0115-460-5
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Time-Current Characteristics



Full size graphs available upon request

URDC - SQB-DC93-2	Rated Voltage [U _n] 900V _{DC}	Rated Breaking Capacity 30kA @ L/R = 10ms 100kA @ L/R = 40ms 100kA @ L/R = 100ms	Test Voltage 1000V _{DC} 900V _{DC} 750V _{DC}	Class gR	Standard(s) IEC 60077-5 UIC 550 VDE 0115-460-5
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Rated current I_n [A]	With microswitch adapter Article Number		Breaking test voltage [V]	Pre-arcing I^2t [A ² s]	Total I^2t^{**} @ 1000V _{DC} [A ² s]	Power loss [W]
900	9038821.900		1000	424 000	2 764 000	150
1000	9038821.1000		1000	516 000	3 340 000	172
1100	9038821.1100		900*	612 000	5 428 000	194
1250	9038821.1250		900*	720 000	6 460 000	224
1400	9038821.1400		900*	960 000	8 600 000	254
	Weight [kg/1]		* $U_p =$		** L/R=10ms	
	4.04		1.0xU _N			
			Coefficients for Heavy Duty Applications			

Coefficients for Heavy Duty Applications

a	A2	B1 _{max}	B2	Cf3
130	0.6	1.25	0.5	0.8

Dimensions

[in / mm]

A 5.14 / 130.5

B 1.97 / 50

C 0.51 / 13

D 2.87 / 73

F 0.16 / 4

G 6.85 / 174

H 7.83 / 199

I 3.39 / 86

J 1.57 / 40

K 5.81 / 147.6

L 5.18 / 131.5

M M12

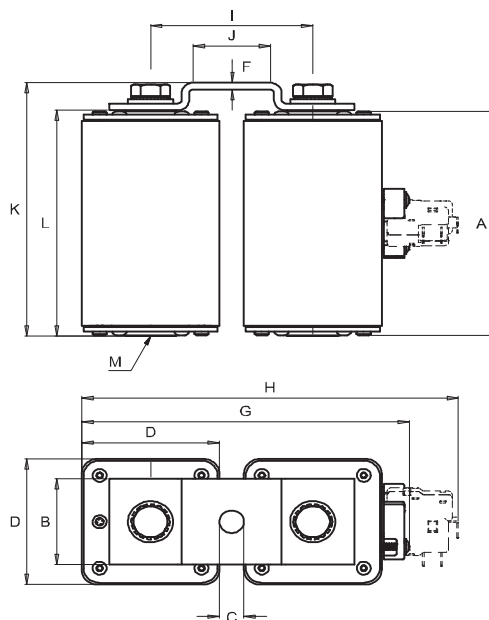
Thread Depth

0.47 / 12

Maximum Torque

52N•m

38.3lb•ft



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
			Microswitch - NO-NC, UL E309038		
			Standard level	2800114	541
			Low level	2801114	

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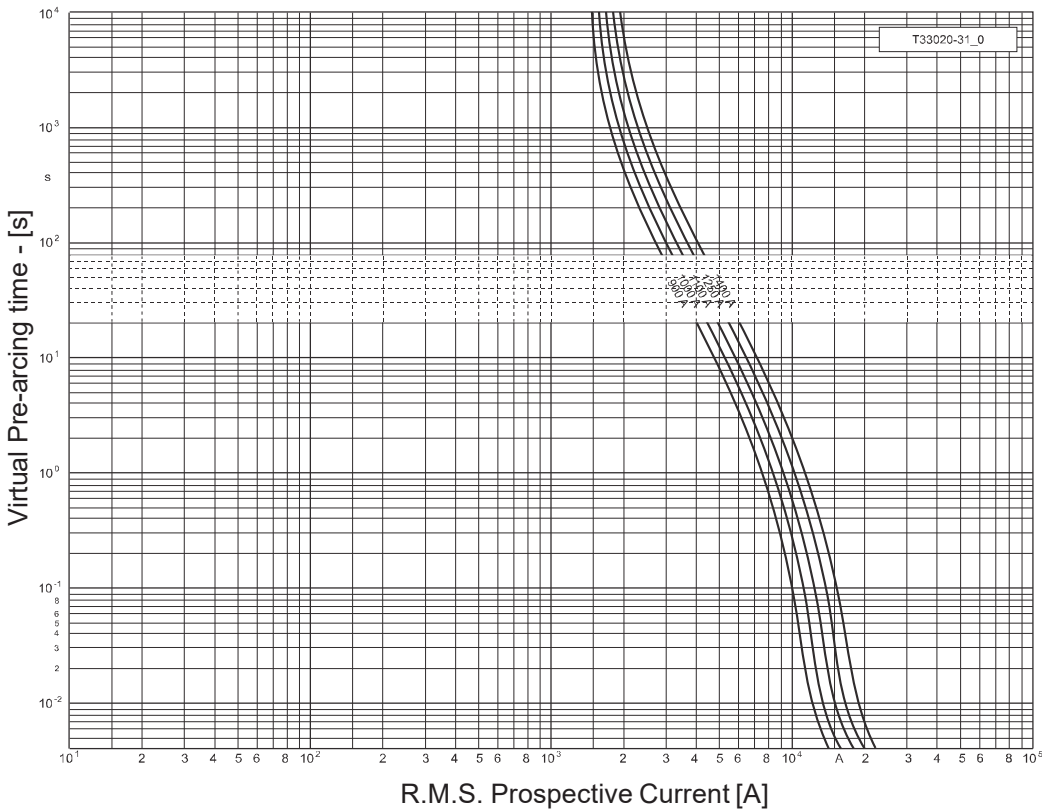
Fax 1-973-575-5858

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e-mail: info@sibafuse.com

URDC - SQB-DC93-2	Rated Voltage [U _n] 900V _{DC}	Rated Breaking Capacity 30kA @ L/R = 10ms 100kA @ L/R = 40ms 100kA @ L/R = 100ms	Test Voltage 1000V _{DC} 900V _{DC} 750V _{DC}	Class gR	Standard(s) IEC 60077-5 UIC 550 VDE 0115-460-5
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Time-Current Characteristics



Full size graphs available upon request

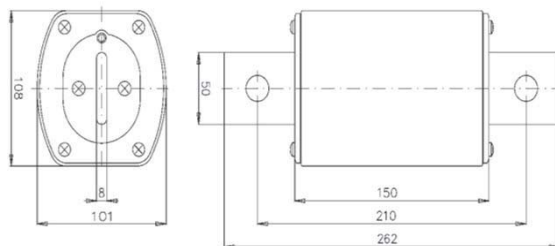
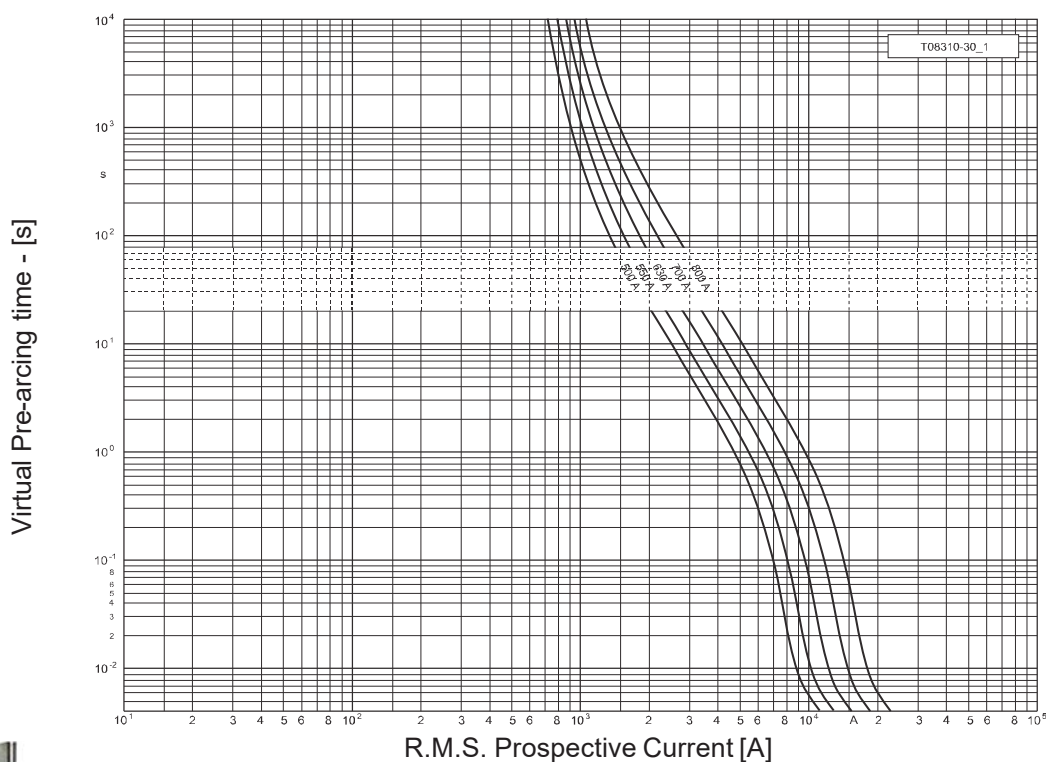
URDC - NH4	Rated Voltage [U _n] 1000V _{DC}	Rated Breaking Capacity 40kA	Test Voltage 1000V _{DC}	Class gF / aF	Standard(s) Company Standard
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Rated current I _n [A]	Without indicator Article Number		Pre-arcing I ² t [A ² s]	Total I ² t @ 1000V _{DC} [A ² s]	Power loss [W]
500	9008310.500		250 000	750 000	—
550	9008310.550		330 000	980 000	—
630	9008310.630		480 000	1 400 000	—
700	9008310.700		695 000	2 000 000	—
800	9008310.800		1 030 000	2 900 000	—
1000	9008310.1000		1 760 000	7 120 000	—
Weight [kg/1]			* L/R=15ms		
3.9					

Coefficients for Heavy Duty Applications

a	A2	B1 _{max}	B2	Cf3
130	0.6	1.25	0.5	0.8

Time-Current Characteristics



Full size graphs available upon request

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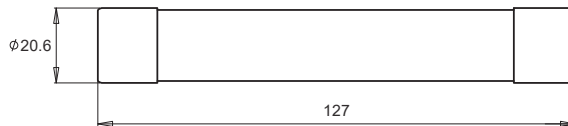
29 Fairfield Place
West Caldwell, New Jersey 07006portal: www.siballc.net
e-mail: info@sibafuse.com

URDC - 20x127mm	Rated Voltage [U _n] 1000V _{DC}	Rated Breaking Capacity 30kA	Test Voltage 1000V _{DC}	Class aR ≤ 3.15A gR ≥ 6A	Standard(s) EN IEC 60269-4 DIN VDE-0636-40
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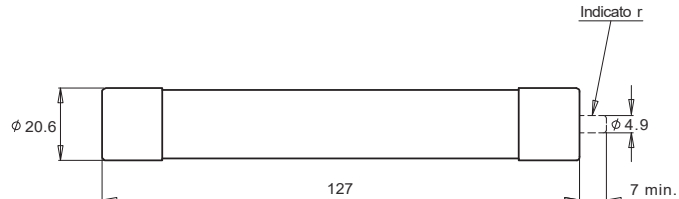
Rated current I _n [A]	Without indicator Article Number	With 2.5N striker Article Number		Pre-arcing I ² t [A ² s]	Total I ² t @ 1000V _{DC} [A ² s]	Power loss [W]
3.15	9008010.3.15	aR		2	13	4.1
6	9008010.6	gR	9008210.6	3	17	3.0
8	9008010.8	gR	9008210.8	7	42	3.2
10	9008010.10	gR	9008210.10	13	75	3.4
12	9008010.12	gR	9008210.12	20	120	4.6
16	9008010.16	gR	9008210.16	52	300	5.7
20	9008010.20	gR	9008210.20	82	470	6.8
25	9008010.25	gR	9008210.25	118	670	8.1
32	9008010.32	gR	9008210.32	184	1 050	10
40	9008010.40	gR	9008210.40	472	2 700	12
50	9008010.50	gR	9008210.50	737	4 200	13
63	9008010.63	gR	9008210.63	1 300	7 500	19
Weight [kg/1]						
0.1						

Coefficients for Heavy Duty Applications

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



9008010



Accessories

Article Description	Article Number	Page	Article Description		Article Number	Page
Fuse module, 1-Pole	9108001	562	Fuse clips screw mounting		6100201.3	564
Fuse module, 2-Pole	9108001.2		Clamping plate for 6100201.3		6300201	
			Terminal link for 6100201.3		6100201.4	
			Fuse clips PCB mounting		5806006	
Fuse module,1-Pole w/ Microswitch Fitting	9108003	562	Microswitch (black hammer)	Standard level	2800201	540
			(UL File E309038)	Low level	2800203	

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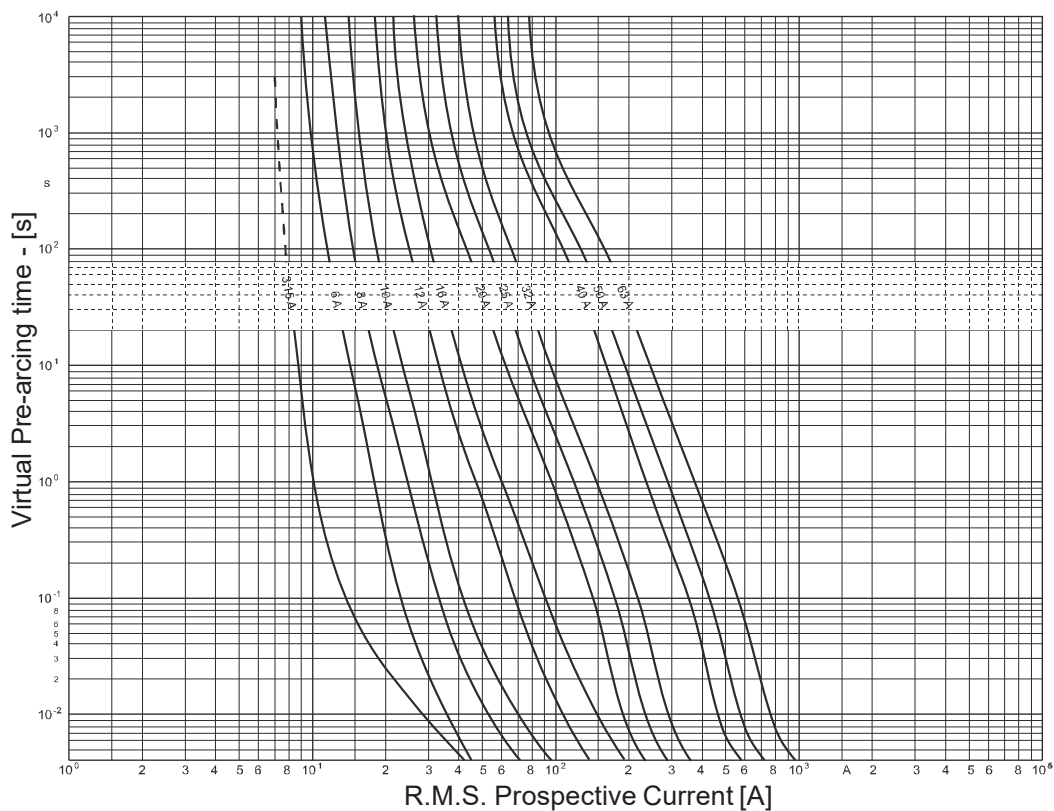
Phone 1-973-575-7422
Fax 1-973-575-5858

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West Caldwell, New Jersey 07006

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

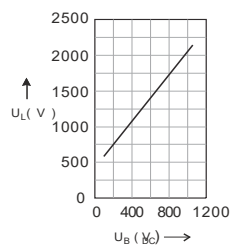
URDC - 20x127mm	Rated Voltage [U _n] 1000V _{DC}	Rated Breaking Capacity 30kA	Test Voltage 1000V _{DC}	Class aR ≤ 3.15A gR ≥ 6A	Standard(s) EN IEC 60269-4 DIN VDE-0636-40
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Time-Current Characteristics

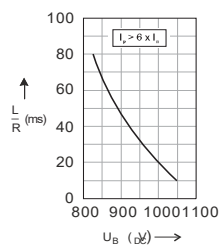


Correction Curves

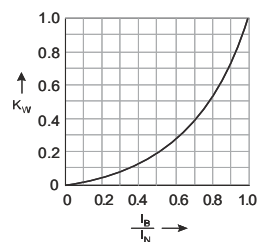
Arc Voltage-Diagram



DC Application



Reduction factor for power Loss



Full size graphs available upon request

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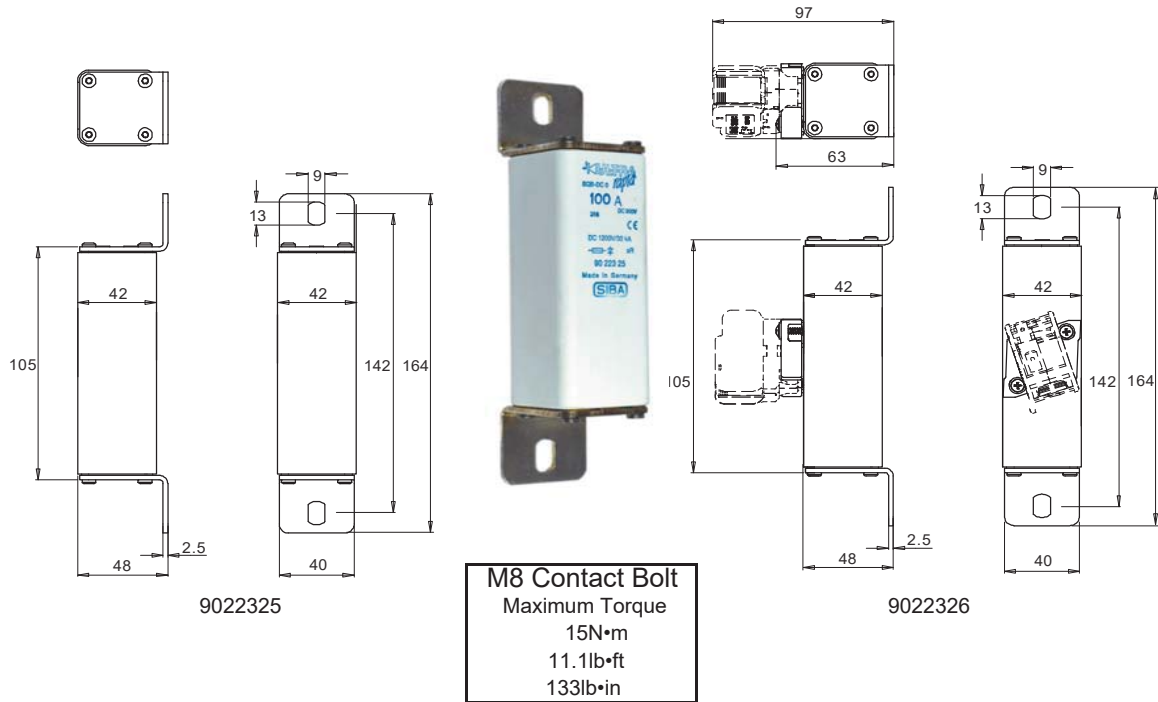
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URDC - SQB-DC0	Rated Voltage [U _n] 900V _{DC}	Rated Breaking Capacity 30kA	Test Voltage 1200V _{DC}	Class aR	Standard(s) IEC 60077-5 UIC 550
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Rated current I _n [A]	Without indicator Article Number	With microswitch adapter Article Number	Pre-arcing I ² t [A ² s]	Total I ² t* @ 1200V _{DC} [A ² s]	Power loss [W]
25	9022325.25	9022326.25	20	190	15
32	9022325.32	9022326.32	45	410	19
40	9022325.40	9022326.40	80	730	23
50	9022325.50	9022326.50	130	1 150	28
63	9022325.63	9022326.63	250	2 250	34
80	9022325.80	9022326.80	510	4 600	41
100	9022325.100	9022326.100	1 000	8 900	50
125	9022325.125	9022326.125	1 650	14 800	58
160	9022325.160	9022326.160	2 500	16 500	80
200	9022325.200	9022326.200	5 250	35 000	88
215	9022325.215	9022326.215	—	—	—
Weight [kg/l]				* L/R=15ms	
0.7					

Coefficients for Heavy Duty Applications

a	A2	B1 _{max}	B2	Cf3
130	0.55	1.25	0.6	0.8

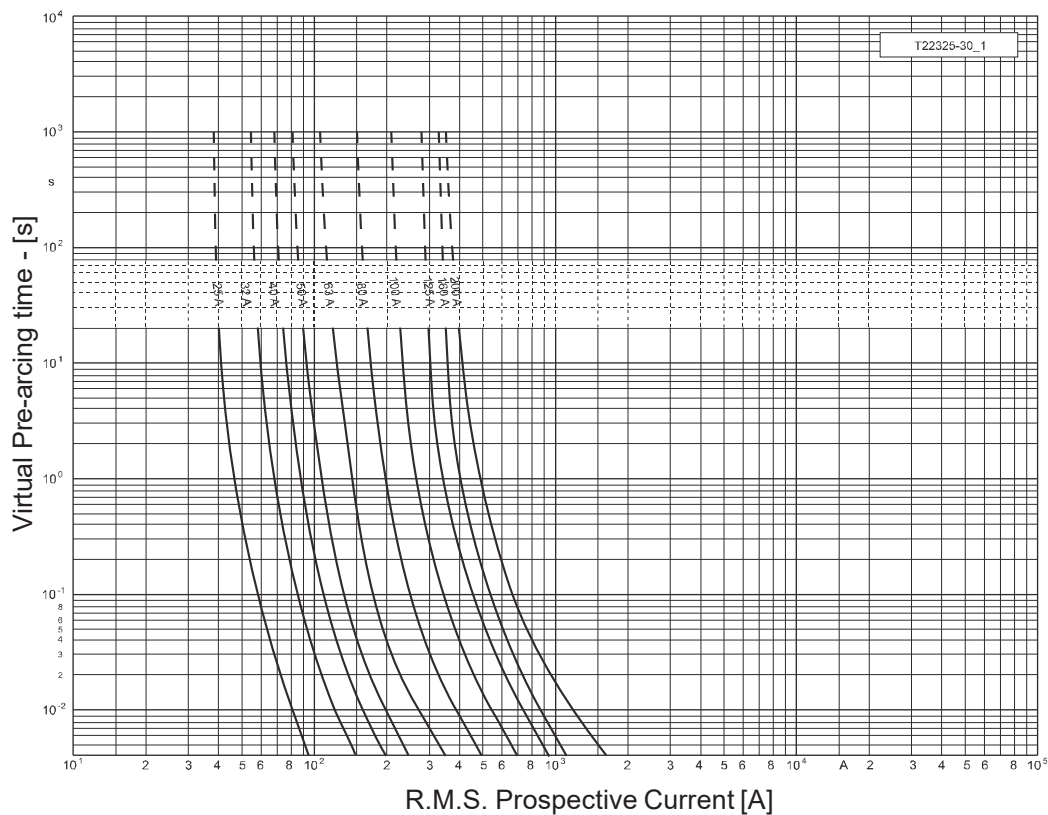


Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Microswitch - Single NO-NC, Standard level	2800310	542	Microswitch - Two NO-NC, Standard level	2800320	543
Low level	2800410		Low level	2800420	

URDC - SQB-DC0	Rated Voltage [U _n] 900V _{DC}	Rated Breaking Capacity 30kA	Test Voltage 1200V _{DC}	Class aR	Standard(s) IEC 60077-5 UIC 550
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Time-Current Characteristics

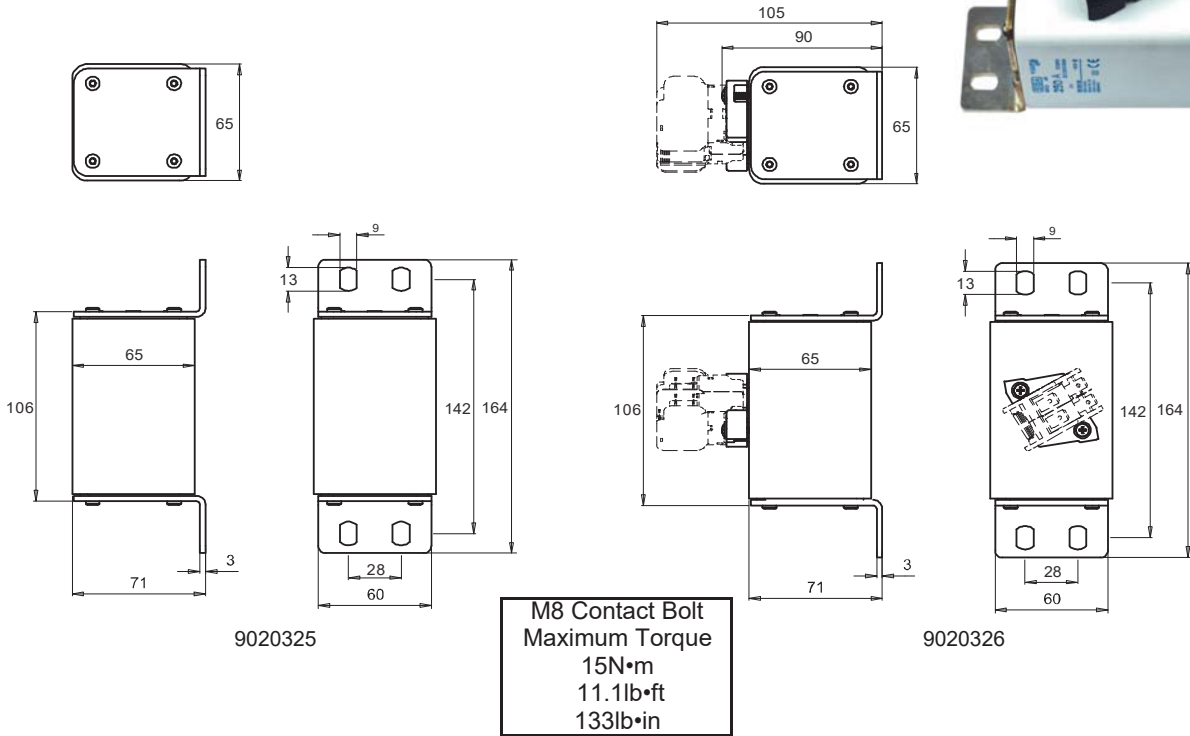


Full size graphs available upon request

URDC - SQB-DC2			Rated Voltage [U _n] 900V _{DC}	Rated Breaking Capacity 30kA	Test Voltage 1200V _{DC}	Class aR	Standard(s) IEC 60077-5 UIC 550	
Rated current I _n [A]	Without indicator Article Number	With microswitch adapter Article Number				Pre-arcing I ² t [A ² s]	Total I ² t @ 1200V _{DC} [A ² s]	Power loss [W]
100	9020325.100	9020326.100				620	5 400	60
125	9020325.125	9020326.125				1 150	10 100	68
160	9020325.160	9020326.160				2 100	18 000	78
200	9020325.200	9020326.200				4 000	36 000	89
250	9020325.250	9020326.250				8 200	73 000	101
315	9020325.315	9020326.315				15 000	133 000	114
350	9020325.350	9020326.350				18 500	106 000	128
400	9020325.400	9020326.400				26 500	151 000	137
	Weight [kg/1]		* L/R=15ms					
	1.37							

Coefficients for Heavy Duty Applications

a	A2	B1 _{max}	B2	Cf3
130	0.55	1.25	0.6	0.8



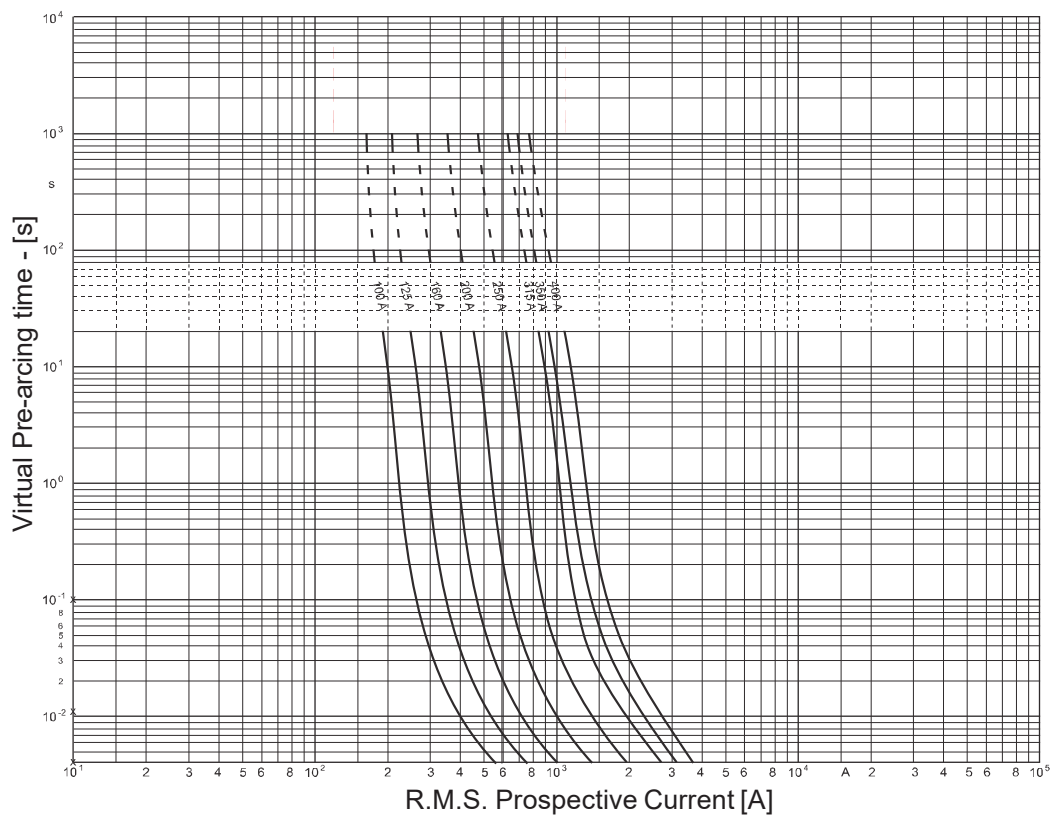
M8 Contact Bolt
Maximum Torque
15N•m
11.1lb•ft
133lb•in

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Microswitch - Single N0-NC, Standard level	2800310	542	Microswitch - Two N0-NC, Standard level	2800320	543
Low level	2800410		Low level	2800420	

URDC - SQB-DC2	Rated Voltage [U _n] 900V _{DC}	Rated Breaking Capacity 30kA	Test Voltage 1200V _{DC}	Class aR	Standard(s) IEC 60077-5 UIC 550
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Time-Current Characteristics

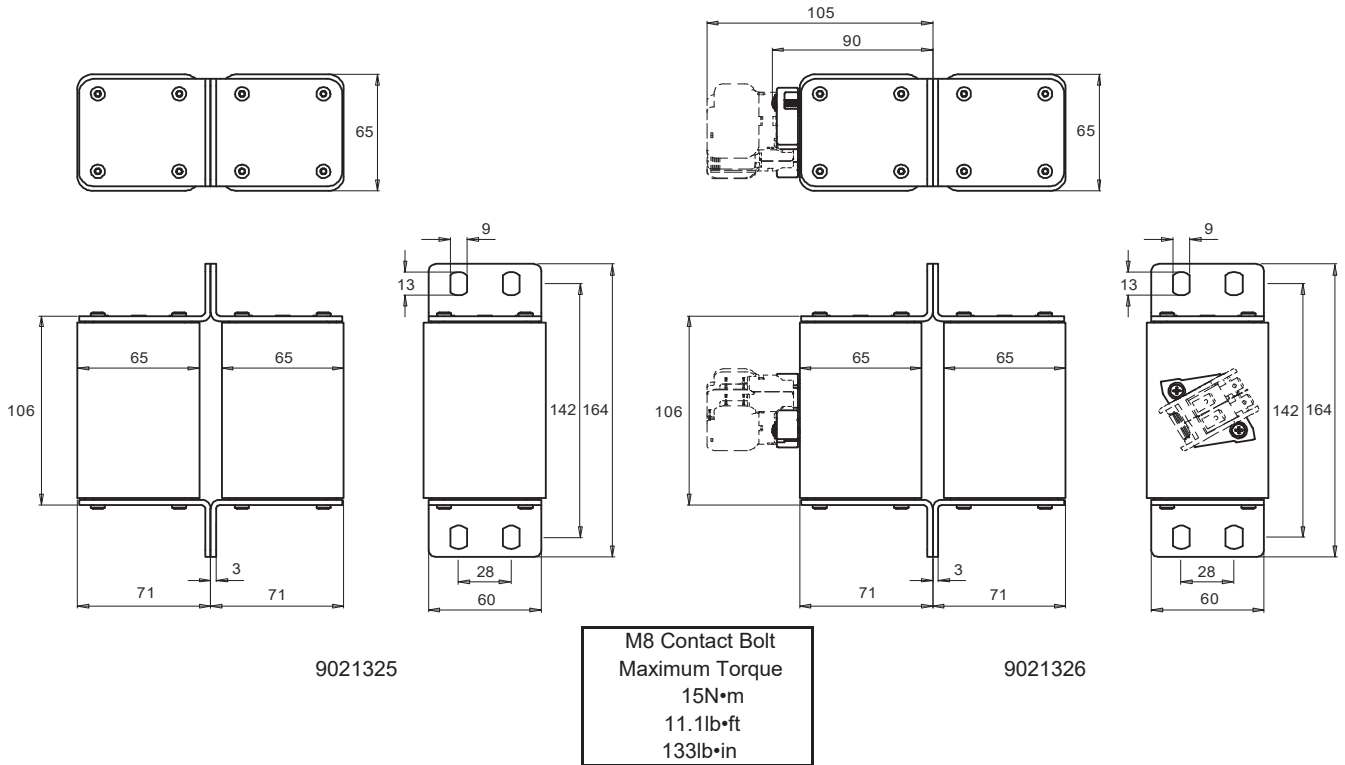


Full size graphs available upon request

URDC - SQB-DC2-2			Rated Voltage [U _n] 900V _{DC}	Rated Breaking Capacity 30kA	Test Voltage 1200V _{DC}	Class aR	Standard(s) IEC 60077-5 UIC 550	
Rated current I _n [A]	Without indicator Article Number	With microswitch adapter Article Number				Pre-arcing I ² t [A ² s]	Total I ² t* @ 1200V _{DC} [A ² s]	Power loss [W]
500	9021325.500	9021326.500				32 800	292 000	212
630	9021325.630	9021326.630				60 000	532 000	240
700	9021325.700	9021326.700				74 000	424 000	269
800	9021325.800	9021326.800				106 000	604 000	288
	Weight [kg/l]		* L/R=15ms					
	2.74							

Coefficients for Heavy Duty Applications

a	A2	B1 _{max}	B2	Cf3
130	0.55	1.25	0.6	0.8

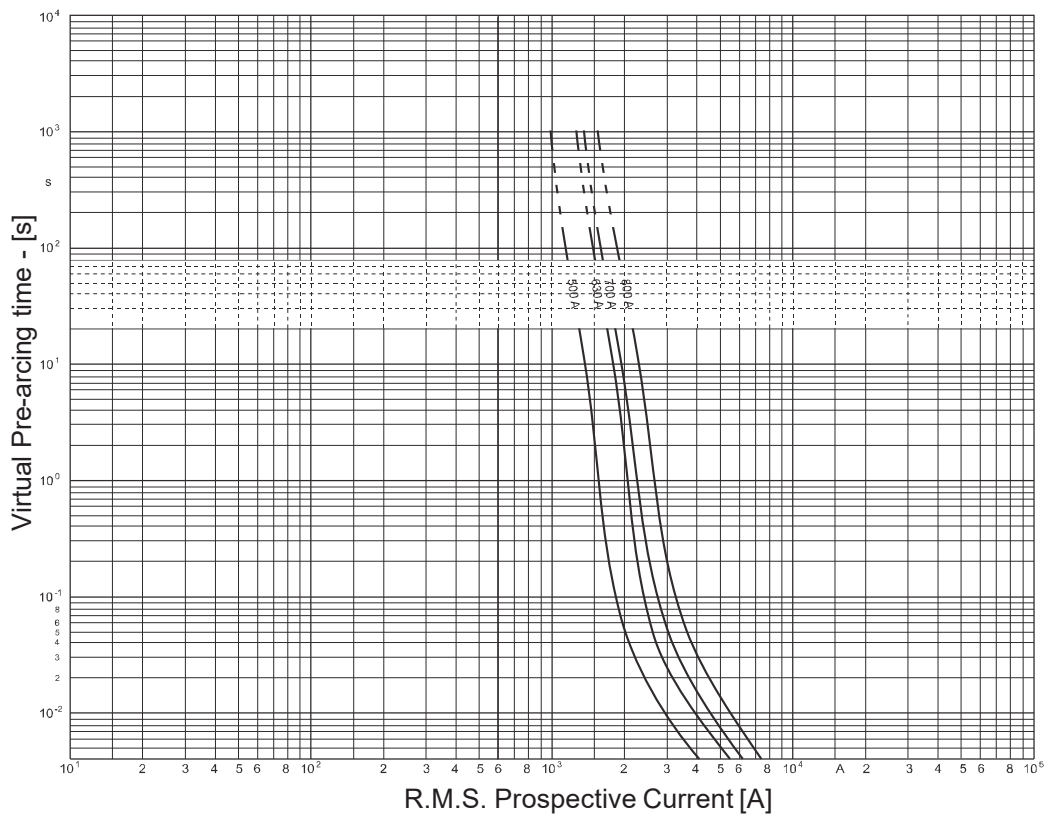


Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Microswitch - Single NO-NC, Standard level	2800310	542	Microswitch - Two NO-NC, Standard level	2800320	543
Low level	2800410		Low level	2800420	

URDC - SQB-DC2-2	Rated Voltage [U _n] 900V _{DC}	Rated Breaking Capacity 30kA	Test Voltage 1200V _{DC}	Class aR	Standard(s) IEC 60077-5 UIC 550
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Time-Current Characteristics

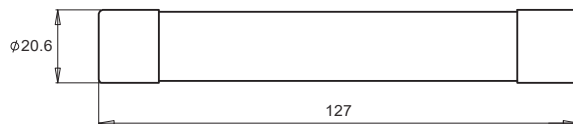


Full size graphs available upon request

URDC - 20mx127mm	Rated Voltage [U _n] 1500V _{DC}	Rated Breaking Capacity 30kA	Test Voltage 1500V _{DC}	Class aR ≤ 3.15A gR ≥ 5A	Standard(s) IEC 60269-4 VDE 0636-4 DIN EN 60369-4
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Rated current I _n [A]	Without indicator Article Number	With 2.5N striker Article Number	Without indicator Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @ 1500V _{DC} [A ² s]	Power loss [W]
2	9008110.2	aR			0.64	8	3.9
3.15	9008110.3.15	aR			2.0	16	4.1
5		9008110.5	gR	9008610.5	4.8	11	3.0
6		9008110.6	gR	9008610.6	3.0	17	3.0
8		9008110.8	gR	9008610.8	7	42	3.2
10		9008110.10	gR	9008610.10	13	75	3.4
12		9008110.12	gR	9008610.12	30	120	4.6
16		9008110.16	gR	9008610.16	52	300	5.7
20		9008110.20	gR	9008610.20	82	470	6.8
25		9008110.25	gR	9008610.25	118	670	8.1
Weight [kg/1]							
0.36							

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



9008110.2 -3.15 / 9008610.5 -25



9008110.5 - 25



Accessories

Article Description	Article Number	Page	Article Description		Article Number	Page
Fuse module, 1-Pole	9108001	562	Fuse clips screw mounting		6100201.3	564
Fuse module, 2-Pole	9108001.2		Clamping plate for 6100201.3		6300201	
			Terminal link for 6100201.3		6100201.4	
			Fuse clips PCB mounting		5806006	
Fuse module, 1-Pole w/ Microswitch Fitting	9108003	562	Microswitch (black hammer)	Standard level	2800201	540
			(UL File E309038)	Low level	2800203	

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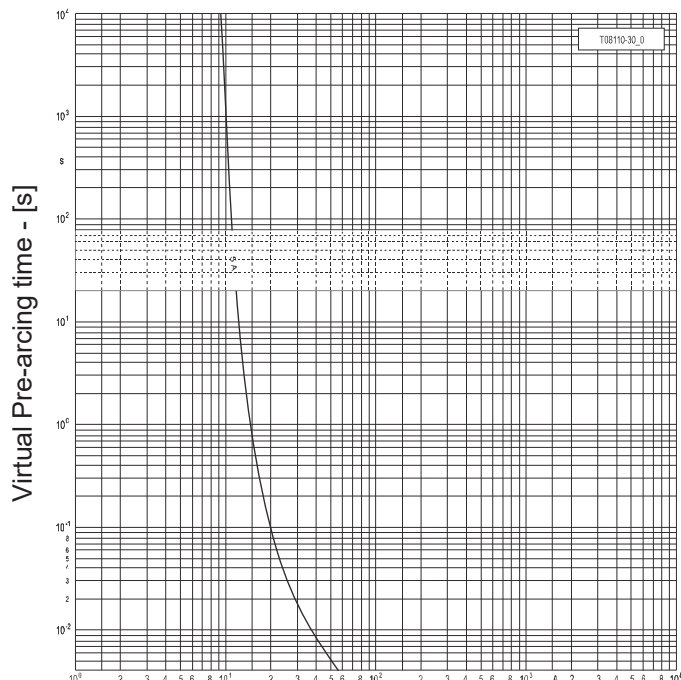
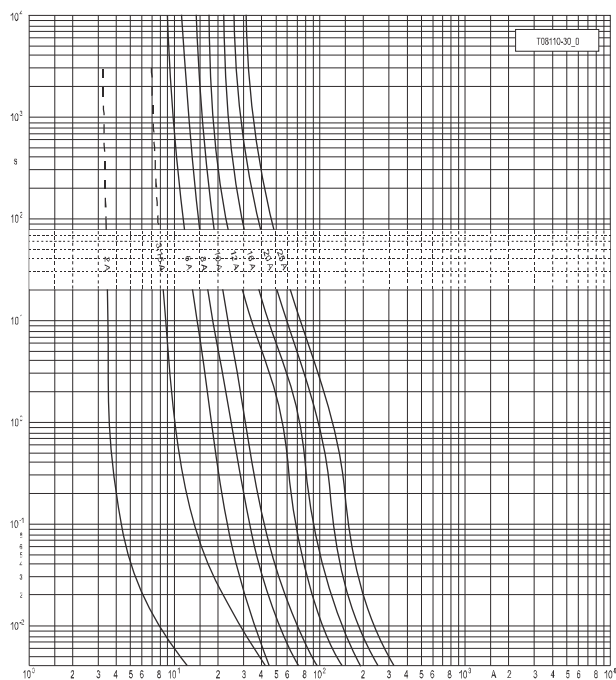
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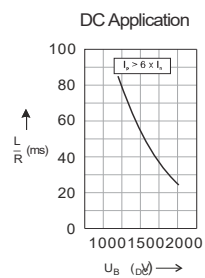
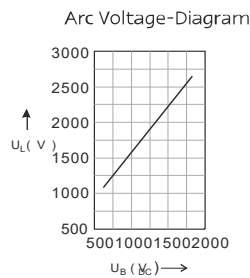
URDC - 20x127mm	Rated Voltage [U _n] 1500V _{DC}	Rated Breaking Capacity 30kA	Test Voltage 1500V _{DC}	Class aR ≤ 3.15A gR ≥ 5A	Standard(s) IEC 60269-4 VDE 0636-4 DIN EN 60369-4
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Time-Current Characteristics

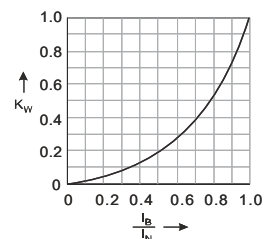


R.M.S. Prospective Current [A]

Correction Curves



Reduction factor for power Loss



Full size graphs available upon request

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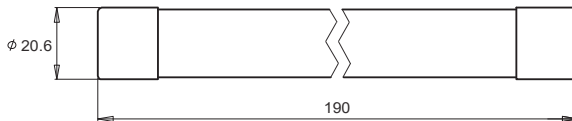
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URDC - 20x190mm	Rated Voltage [U _n] 1500V _{DC}	Rated Breaking Capacity 60kA	Test Voltage 1500V _{DC}	Class gR	Standard(s) IEC 60077-5 UIC 550 VDE 0115-460-5
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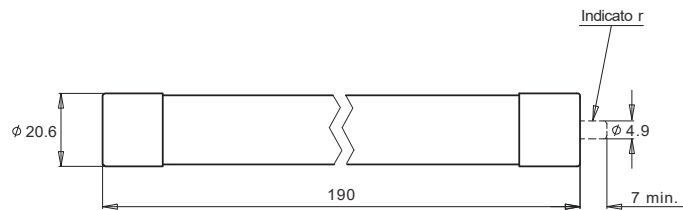
Rated current I _n [A]	Without indicator Article Number	With 2.5N striker Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @ 1500V _{DC} [A ² s]	Power loss [W]
1	9009010.1	9009110.1		0.2	1.3	2.8
2	9009010.2	9009110.2		0.9	5.3	4.1
3	9009010.3	9009110.3		2.6	16	4.5
4	9009010.4	9009110.4		7.3	45	5.6
6	9009010.6	9009110.6		7.4	44	3.1
8	9009010.8	9009110.8		13	80	4.1
10	9009010.10	9009110.10		30	180	4.4
12	9009010.12	9009110.12		53	320	4.7
16	9009010.16	9009110.16		90	550	6.2
20	9009010.20	9009110.20		150	900	7.6
25	9009010.25	9009110.25		240	1 400	8.1
32	9009010.32	9009110.32		600	3 600	9.7
Weight [kg/1]						
0.11						

Coefficients for Heavy Duty Applications

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



9009010



9009110

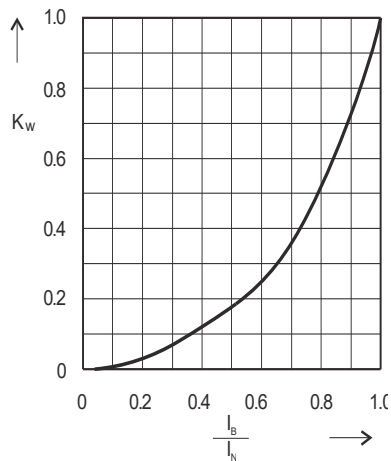
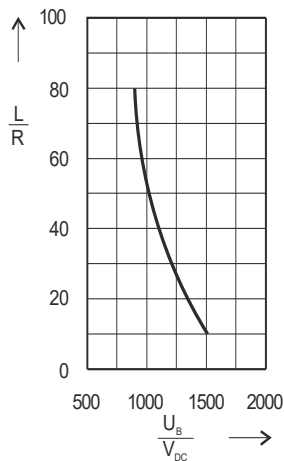
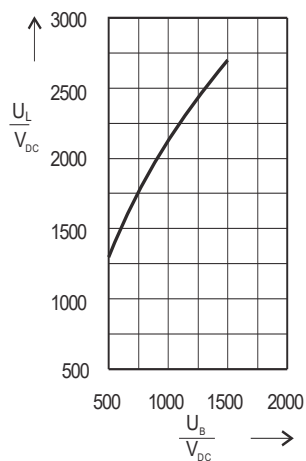
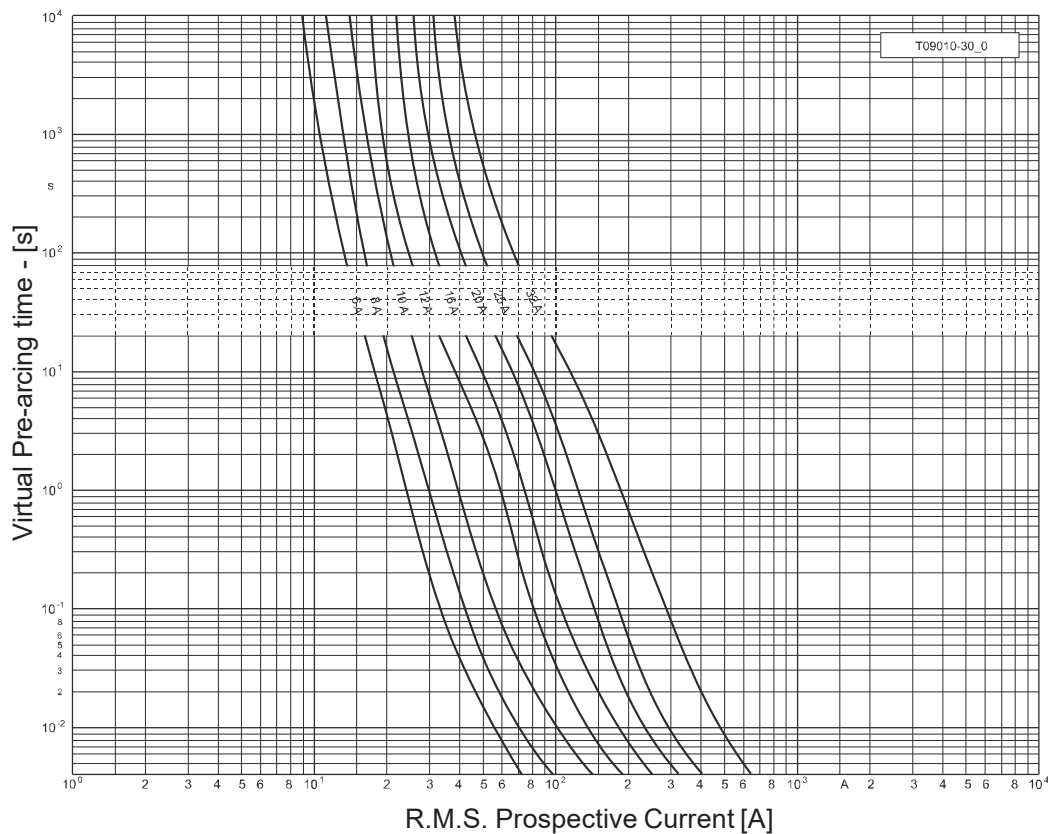


Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base, 1-Pole	9109001	556	Fuse clips screw mounting	6100201.3	564
			Clamping plate for 6100201.3	6300201	
			Terminal link for 6100201.3	6300201.4	
			Fuse clips PCB mounting	5806006	

URDC - 20x190mm	Rated Voltage [U _n] 1500V _{DC}	Rated Breaking Capacity 60kA	Test Voltage 1500V _{DC}	Class gR	Standard(s) IEC 60077-5 UIC 550 VDE 0115-460-5
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Time-Current Characteristics



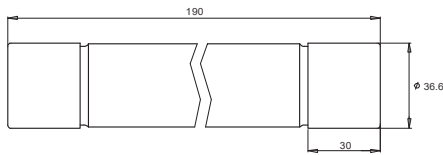
Full size graphs available upon request

URDC - 36x190mm	Rated Voltage [U _n] 1500V _{DC}	Rated Breaking Capacity 30kA @ L/R = 15ms	Test Voltage 1500V _{DC}	Class gR	Standard(s) In compliance with VDE 0636-1 & 4
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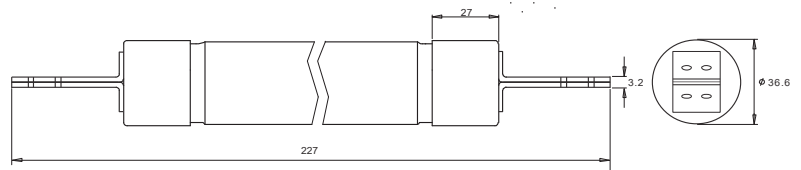
Rated current I _n [A]	Without indicator Article Number	With 2.5N striker Article Number	Without indicator 252mm Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @ 1500V _{DC} [A ² s]	Power loss [W]
20	9009410.20	9009510.20	9009810.20		60	470	9
25	9009410.25	9009510.25	9009810.25		100	770	12
32	9009410.32	9009510.32	9009810.32		130	950	16
40	9009410.40	9009510.40	9009810.40		290	2 200	22
50	9009410.50	9009510.50	9009810.50		620	4 600	25
63	9009410.63	9009510.63	9009810.63		1 000	7 500	30
80	9009410.80	9009510.80	9009810.80		2 050	15 300	34
100	9009410.100	9009510.100	9009810.100		3 500	25 800	38
Weight [kg/1]					* L/R=30ms		
0.5				0.61			

Coefficients for Heavy Duty Applications

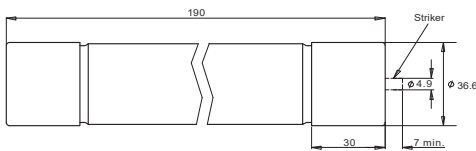
a	A2	B1 _{max}	B2	Cf3
130	0.6	1.25	0.6	0.8



9009410



9009810



9009510

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
9009410					
Fuse base, 1-Pole	9109401	556			
Fuse clips screw mounting	9109401.3	565			
Terminal Link for 6100201.3	9109401.4				

SIBA LLC

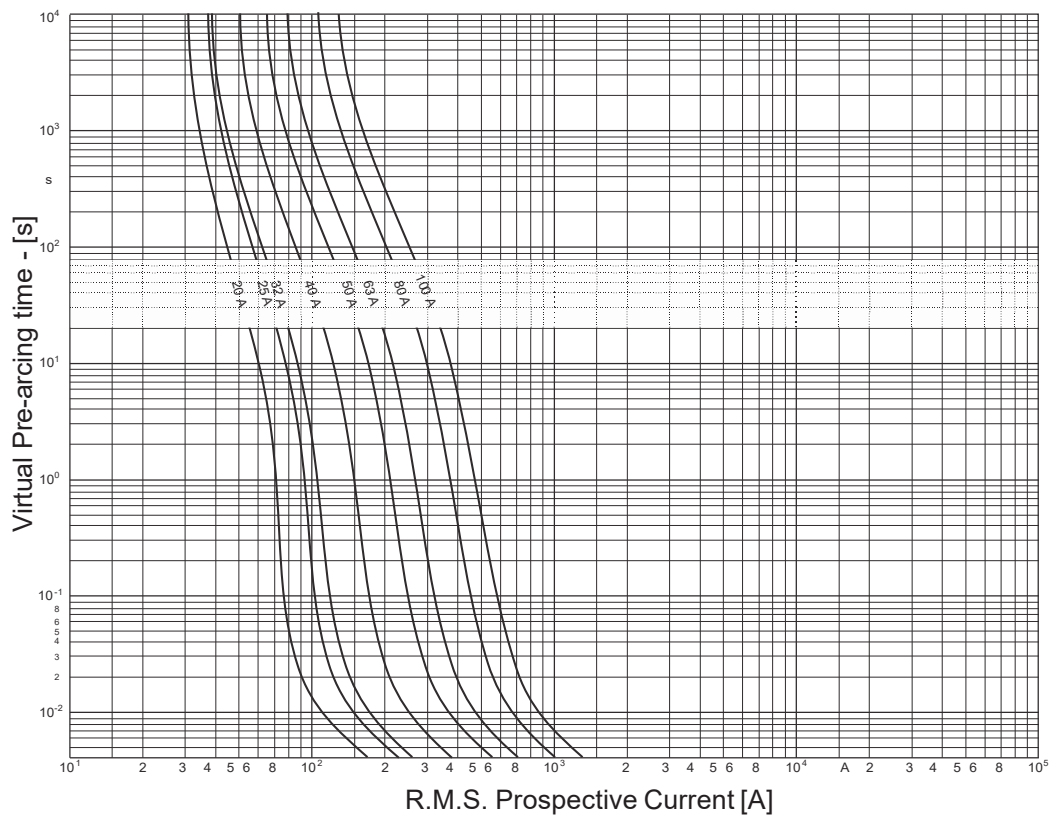
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URDC - 36x190mm	Rated Voltage [U _n] 1500V _{DC}	Rated Breaking Capacity 30kA @ L/R = 15ms	Test Voltage 1500V _{DC}	Class gR	Standard(s) In compliance with VDE 0636-1 & 4
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Time-Current Characteristics



Full size graphs available upon request

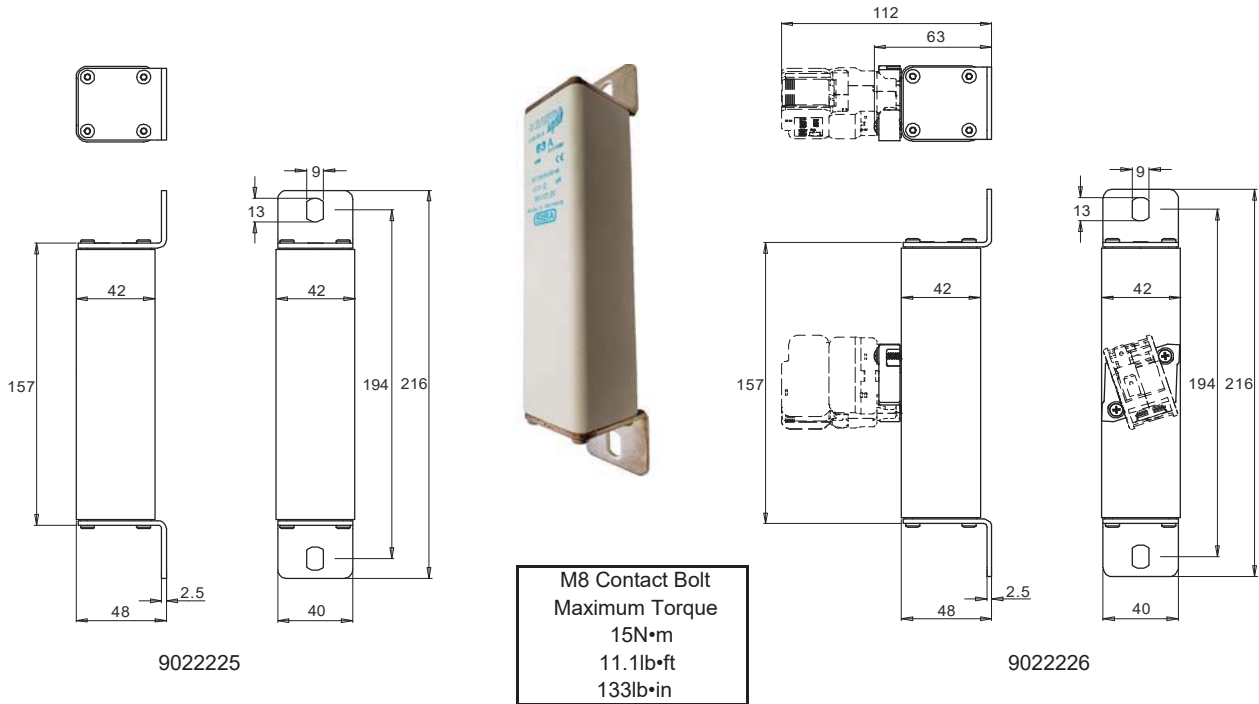
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URDC - SQB-DC0	Rated Voltage [U _n] 1700V _{DC}	Rated Breaking Capacity 30kA @ L/R = 15ms	Test Voltage 2000V _{DC}	Class aR	Standard(s) IEC 60077-5 UIC 550
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Rated current I _n [A]	Without indicator Article Number	With microswitch adapter Article Number	Pre-arcing I ² t [A ² s]	Total I ² t* @ 2000V _{DC} [A ² s]	Power loss [W]
20	9022225.20	9022226.20	11.5	96	25
25	9022225.25	9022226.25	20	170	28
32	9022225.32	9022226.32	32	270	37
40	9022225.40	9022226.40	46	390	43
50	9022225.50	9022226.50	82	680	57
63	9022225.63	9022226.63	184	1 600	60
80	9022225.80	9022226.80	328	2 700	73
100	9022225.100	9022226.100	1 000	8 400	75
125	9022225.125	9022226.125	1 660	13 800	80
160	9022225.160	9022226.160	2 950	24 500	85
200	9022225.200	9022226.200	5 300	30 000	125
Weight [kg/l]				* L/R=15ms	
0.92					

Coefficients for Heavy Duty Applications

a	A2	B1 _{max}	B2	Cf3
130	0.55	1.25	0.6	0.8



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Microswitch - Single NO-NC, Standard level	2800311	542	Microswitch - Two NO-NC, Standard level	2800321	543
Low level	2800411		Low level	2800421	

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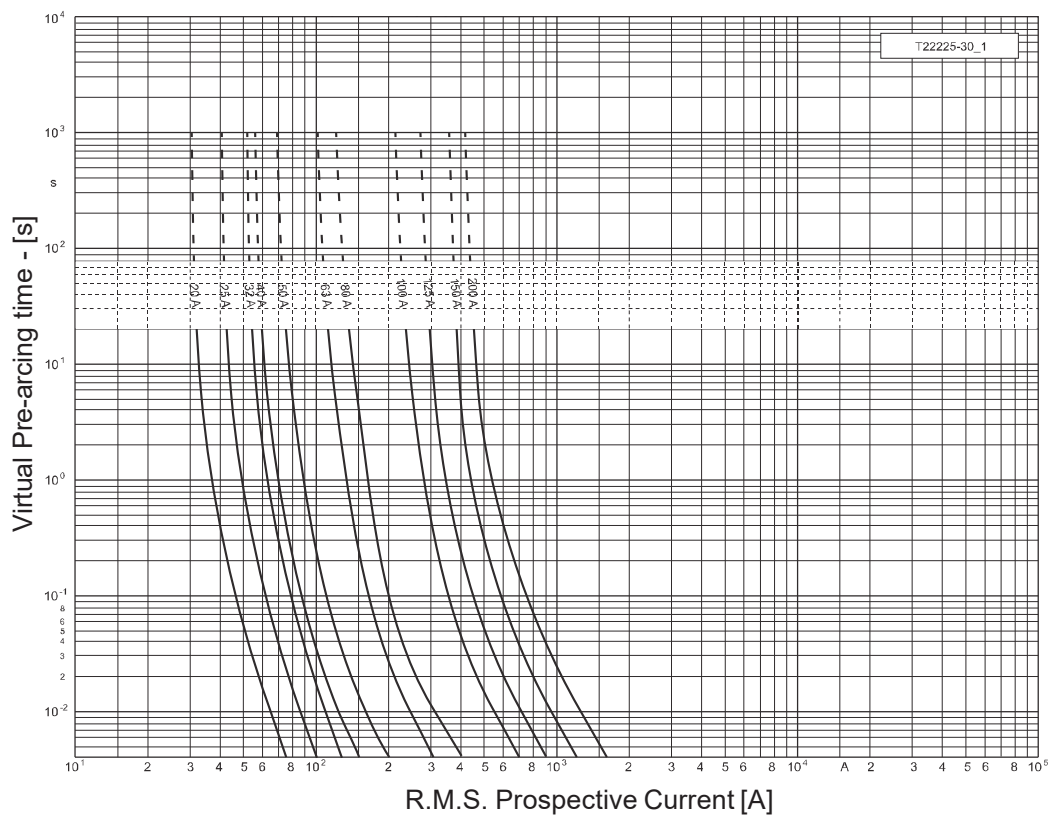
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URDC - SQB-DC0	Rated Voltage [U _n] 1700V _{DC}	Rated Breaking Capacity 30kA @ L/R = 15ms	Test Voltage 2000V _{DC}	Class aR	Standard(s) IEC 60077-5 UIC 550
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Time-Current Characteristics



Full size graphs available upon request

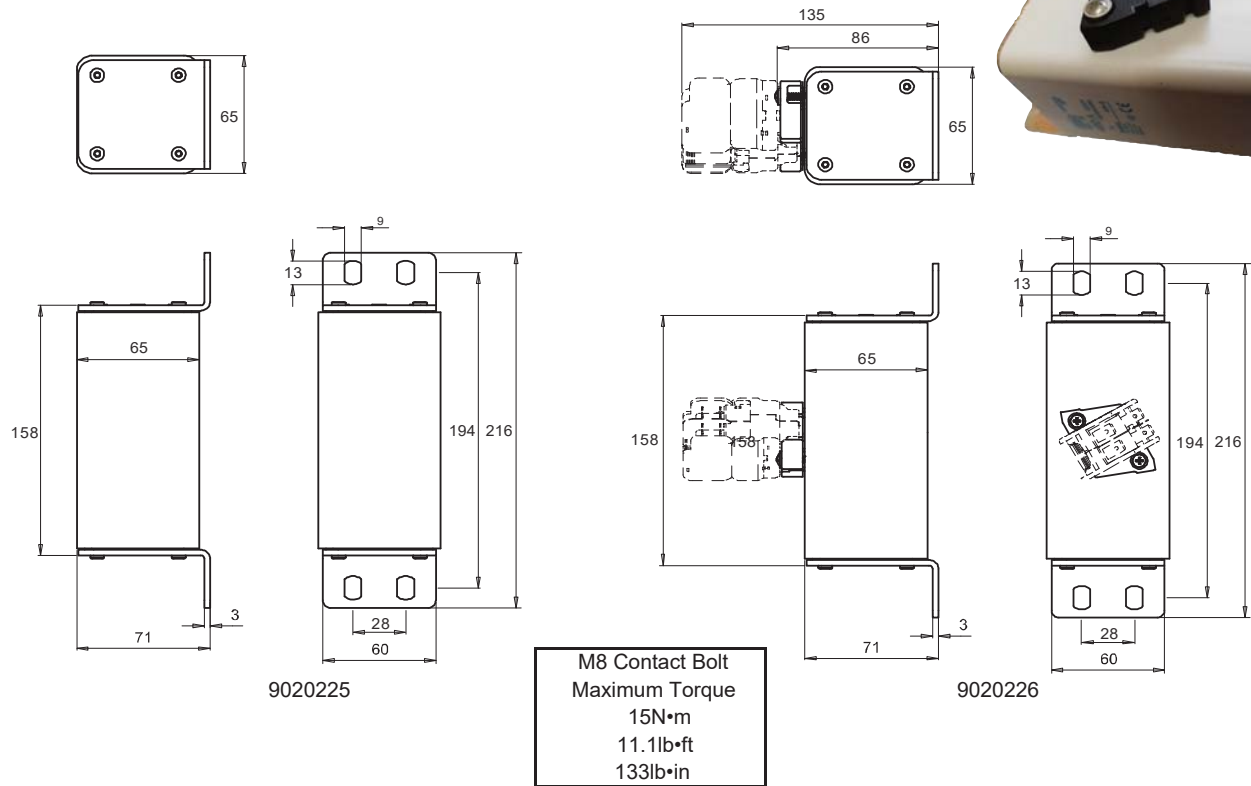
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URDC - SQB-DC2			Rated Voltage [U _n] 1700V _{DC}	Rated Breaking Capacity 30kA @ L/R = 15ms	Test Voltage 2000V _{DC}	Class aR	Standard(s) IEC 60077-5 UIC 550	
Rated current I _n [A]	Without indicator Article Number	With microswitch adapter Article Number				Pre-arcing I ² t [A ² s]	Total I ² t* @ 2000V _{DC} [A ² s]	Power loss [W]
125	9020225.125	9020226.125				1 300	10 900	89
160	9020225.160	9020226.160				2 500	20 600	103
200	9020225.200	9020226.200				5 200	38 300	115
250	9020225.250	9020226.250				9 900	82 500	134
315	9020225.315	9020226.315				20 300	170 000	152
350	9020225.350	9020226.350				25 000	120 000	165
400	9020225.400	9020226.400				40 000	190 000	178
	Weight [kg/1]						* L/R=15ms	
	2							

Coefficients for Heavy Duty Applications

a	A2	B1 _{max}	B2	Cf3
130	0.55	1.25	0.6	0.8



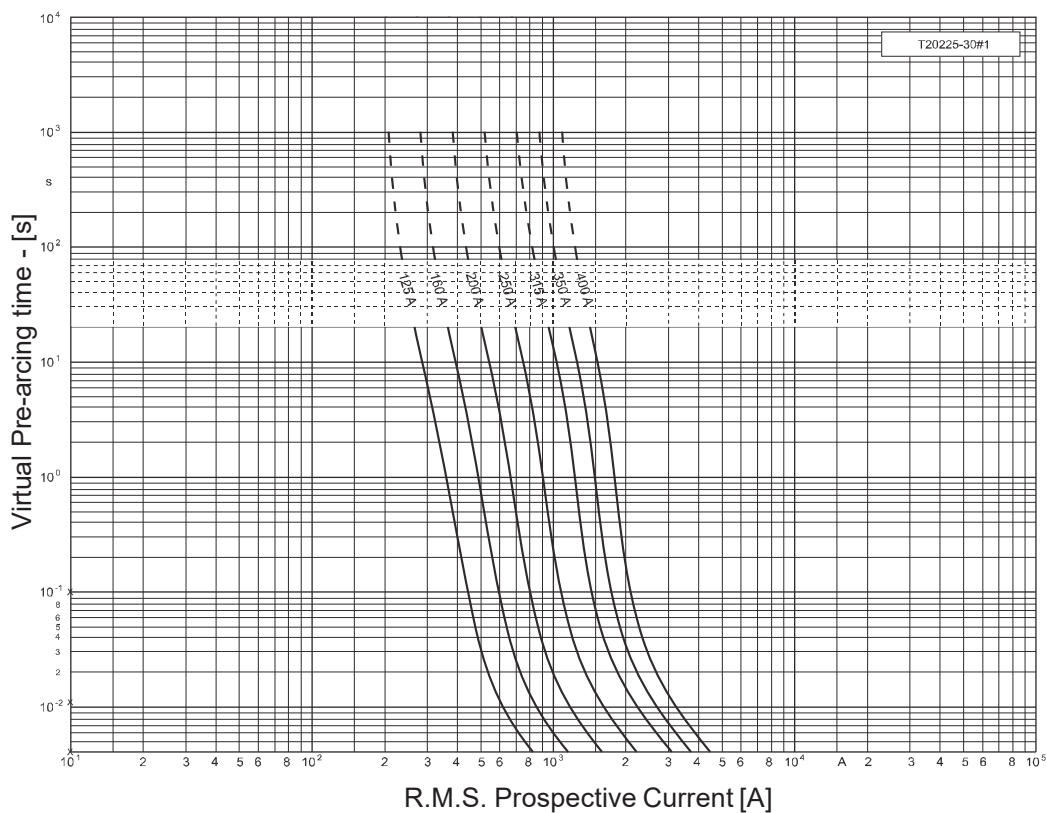
M8 Contact Bolt
Maximum Torque
15N•m
11.1lb•ft
133lb•in

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Microswitch - Single NO-NC, Standard level	2800311	542	Microswitch - Two NO-NC, Standard level	2800321	543
Low level	2800411		Low level	2800421	

URDC - SQB-DC2	Rated Voltage [U _n] 1700V _{DC}	Rated Breaking Capacity 30kA @ L/R = 15ms	Test Voltage 2000V _{DC}	Class aR	Standard(s) IEC 60077-5 UIC 550
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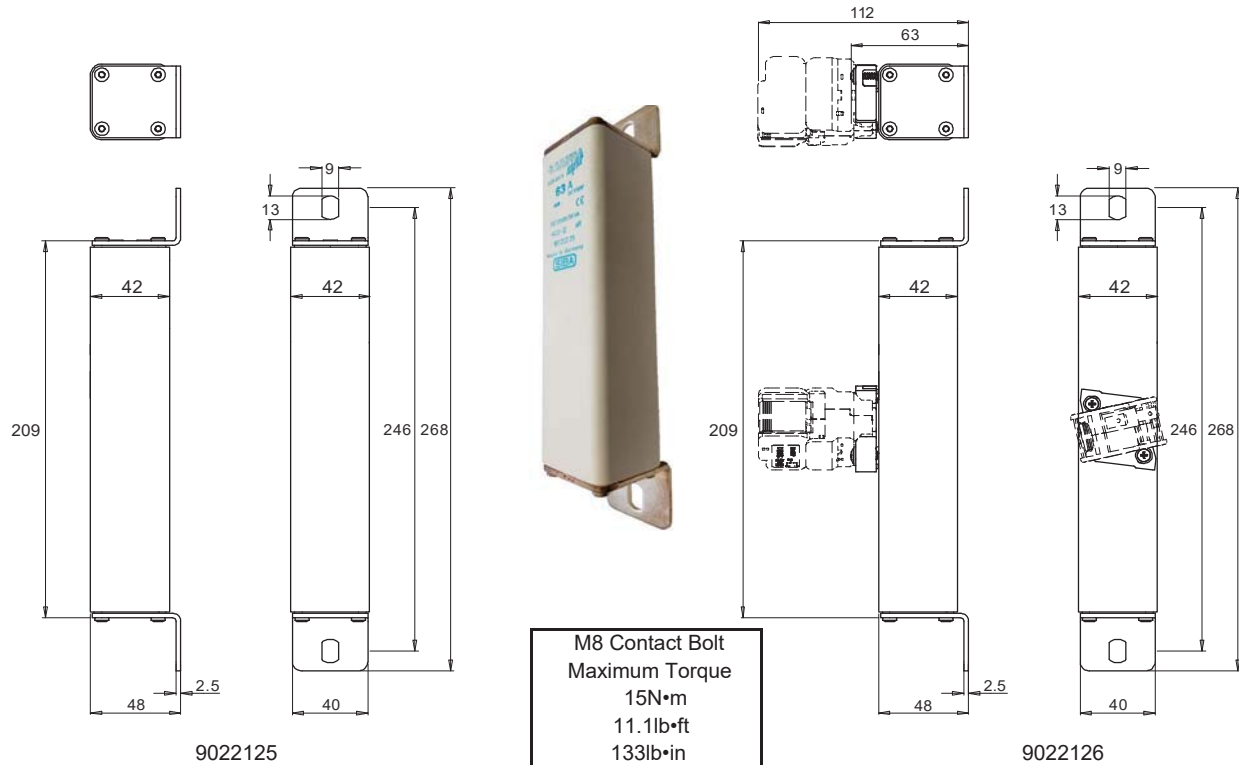
Time-Current Characteristics



Full size graphs available upon request

URDC - SQB-DC0			Rated Voltage [U _n] 1800V _{DC}	Rated Breaking Capacity 30kA @ L/R = 15ms	Test Voltage 2400V _{DC}	Class aR	Standard(s) IEC 60077-5 UIC 550	
Rated current I _n [A]	Without indicator Article Number	With microswitch adapter Article Number				Pre-arcing I ² t [A ² s]	Total I ² t* @ 2400V _{DC} [A ² s]	Power loss [W]
25	9022125.25	9022126.25				32	260	28
32	9022125.32	9022126.32				46	380	38
40	9022125.40	9022126.40				82	700	45
50	9022125.50	9022126.50				128	1 050	56
63	9022125.63	9022126.63				228	2 400	60
80	9022125.80	9022126.80				512	4 200	72
100	9022125.100	9022126.100				1 150	9 400	75
125	9022125.125	9022126.125				2 050	16 700	90
150	9022125.150	9022126.150				3 330	27 100	98
	Weight [kg/1]		* L/R=15ms					
	1.78							

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

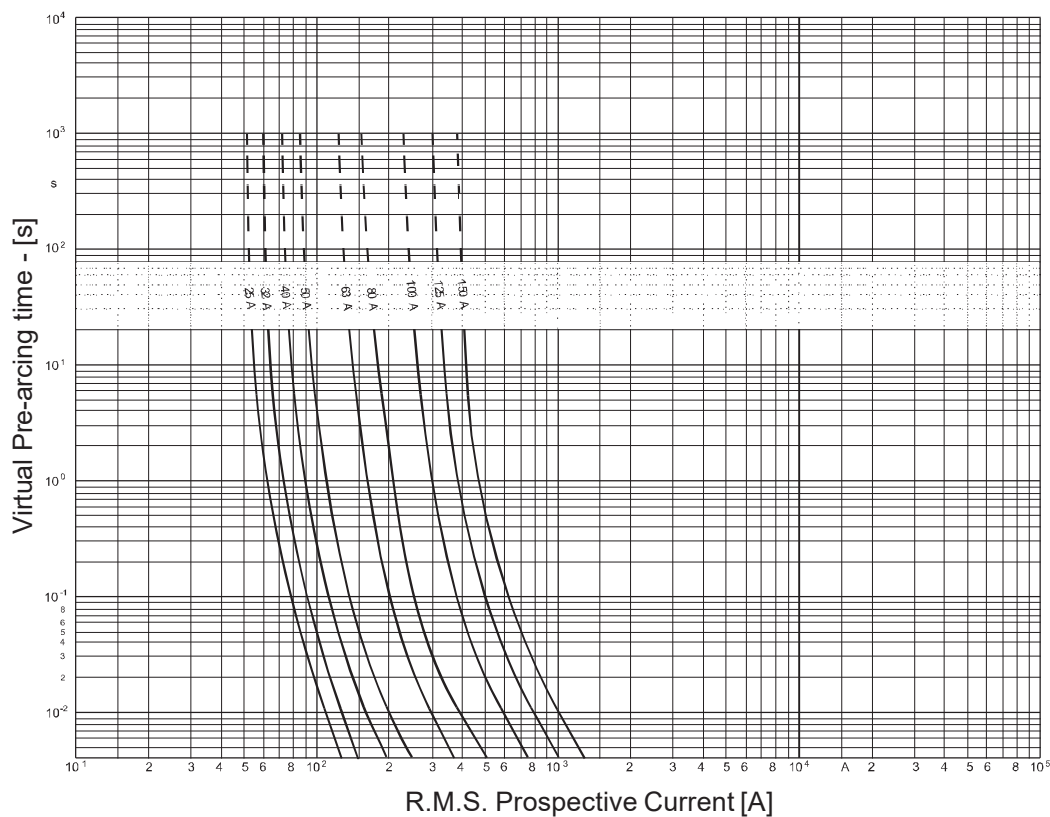


Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Microswitch - Single NO-NC, Standard level	2800311	542	Microswitch - Two NO-NC, Standard level	2800321	543
Low level	2800411		Low level	2800421	

URDC - SQB-DC0	Rated Voltage [U_n] 1800V _{DC}	Rated Breaking Capacity 30kA @ L/R = 15ms	Test Voltage 2400V _{DC}	Class aR	Standard(s) IEC 60077-5 UIC 550
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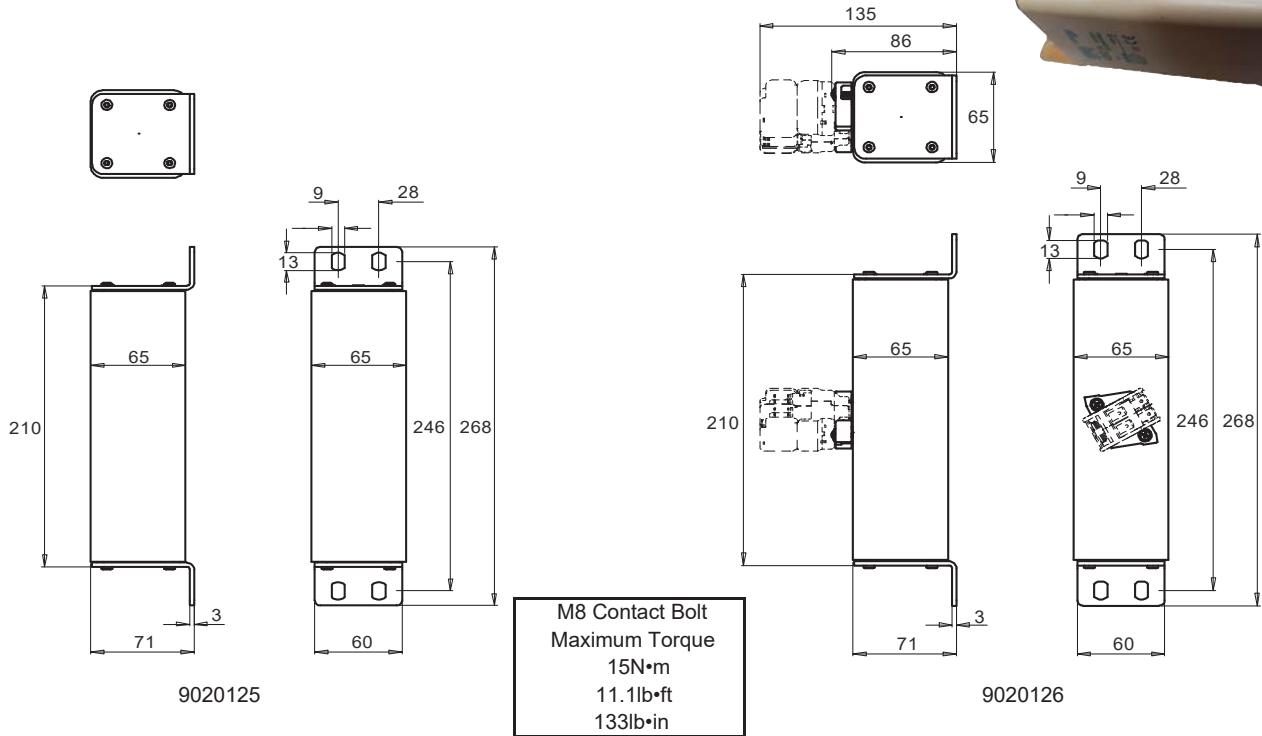
Time-Current Characteristics



Full size graphs available upon request

URDC - SQB-DC2			Rated Voltage [U _n] 1800V _{DC}	Rated Breaking Capacity 30kA @ L/R = 15ms	Test Voltage 2400V _{DC}	Class aR	Standard(s) IEC 60077-5 UIC 550	
Rated current I _n [A]	Without indicator Article Number	With microswitch adapter Article Number				Pre-arcing I ² t [A ² s]	Total I ² t* @ 2400V _{DC} [A ² s]	Power loss [W]
Size SQB-DC2								
100	9020125.100	9020126.100				1 700	13 500	58
125	9020125.125	9020126.125				3 000	24 000	68
160	9020125.160	9020126.160				5 300	42 700	82
200	9020125.200	9020126.200				9 100	73 500	96
250	9020125.250	9020126.250				16 100	131 000	130
315	9020125.315	9020126.315				26 600	216 000	175
355	9020125.355	9020126.355				39 700	288 000	177
400	9020125.400	9020126.400				55 400	401 000	180
	Weight [kg/l]						* L/R=15ms	
	2.29	2.44						

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



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Microswitch - Single NO-NC, Standard level	2800311	542	Microswitch - Two NO-NC, Standard level	2800321	543
Low level	2800411		Low level	2800421	

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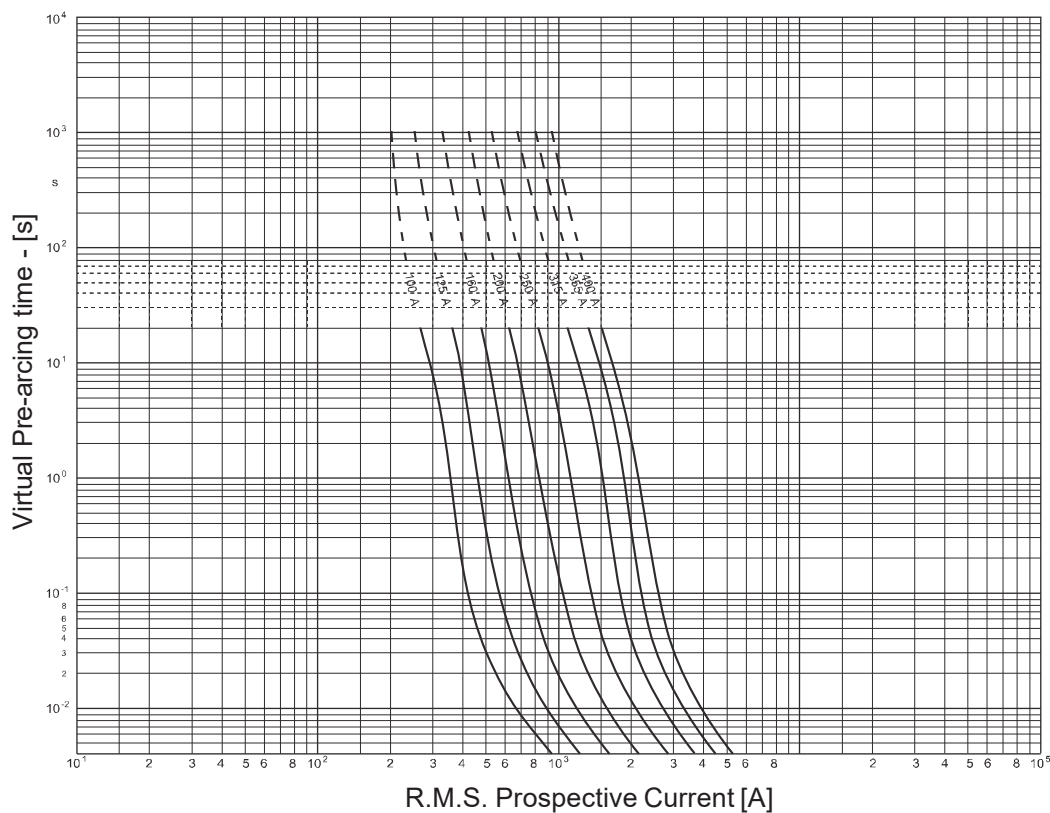
Phone 1-973-575-7422
Fax 1-973-575-5858

29 Fairfield Place
West Caldwell, New Jersey 07006

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

URDC - SQB-DC2	Rated Voltage [U _n] 1800V _{DC}	Rated Breaking Capacity 30kA @ L/R = 15ms	Test Voltage 2400V _{DC}	Class aR	Standard(s) IEC 60077-5 UIC 550
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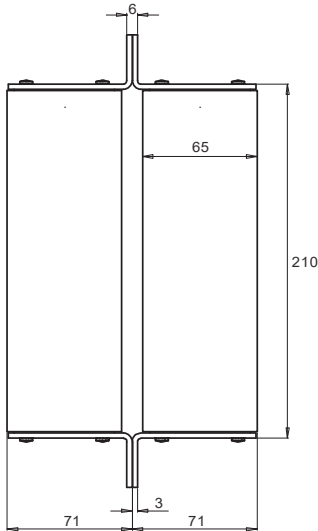
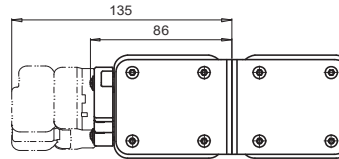
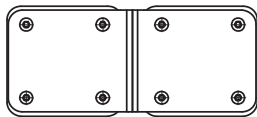
Time-Current Characteristics



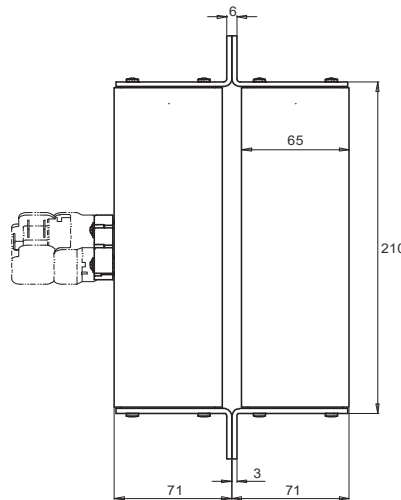
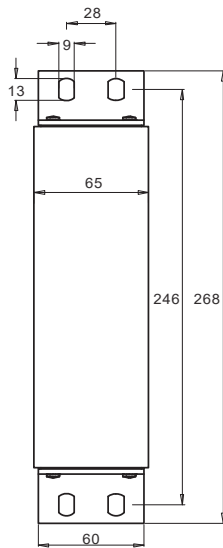
Full size graphs available upon request

URDC - SQB-DC2-2			Rated Voltage [U _n] 1800V _{DC}	Rated Breaking Capacity 30kA @ L/R = 15ms	Test Voltage 2400V _{DC}	Class aR	Standard(s) IEC 60077-5 UIC 550	
Rated current I _n [A]	Without indicator Article Number	With microswitch adapter Article Number				Pre-arcing I ² t [A ² s]	Total I ² t* @ 2400V _{DC} [A ² s]	Power loss [W]
Size SQB-DC2-2								
400	9021125.400	9021126.400				36 400	294 000	202
500	9021125.500	9021126.500				64 400	524 000	273
630	9021125.630	9021126.630				160 400	864 000	368
700	9021125.700	9021126.700				158 800	1 152 000	372
800	9021125.800	9021126.800				221 600	1 604 000	378
	Weight [kg/1]							* L/R=15ms
	3.85							

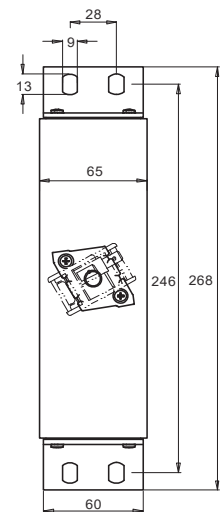
Coefficients for Heavy Duty Applications					
a	A2	B1 _{max}	B2	Cf3	
130	0.55	1.25	0.6	0.8	



9021125



9021126



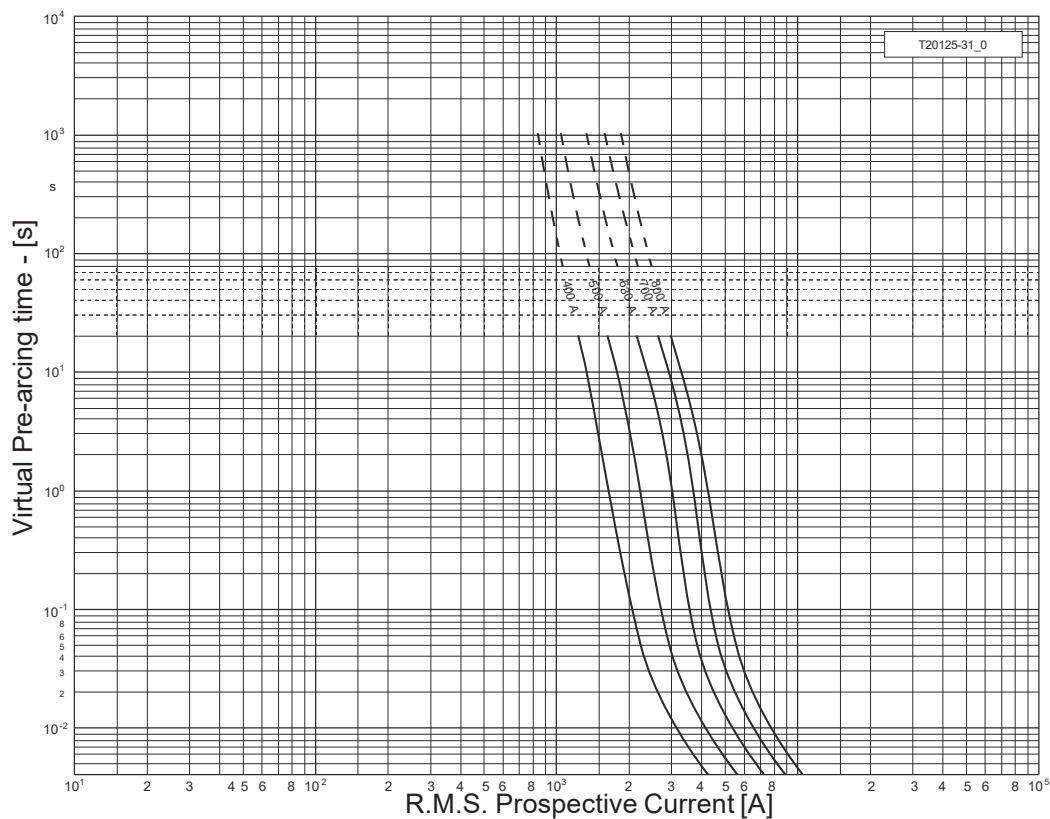
M8 Contact Bolt
Maximum Torque
15N•m
11.1lb•ft
133lb•in

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Microswitch - Single NO-NC, Standard level	2800311	542	Microswitch - Two NO-NC, Standard level	2800321	543
Low level	2800411		Low level	2800421	

URDC - SQB-DC2-2	Rated Voltage [U _n] 1800V _{DC}	Rated Breaking Capacity 30kA @ L/R = 15ms	Test Voltage 2400V _{DC}	Class aR	Standard(s) IEC 60077-5 UIC 550
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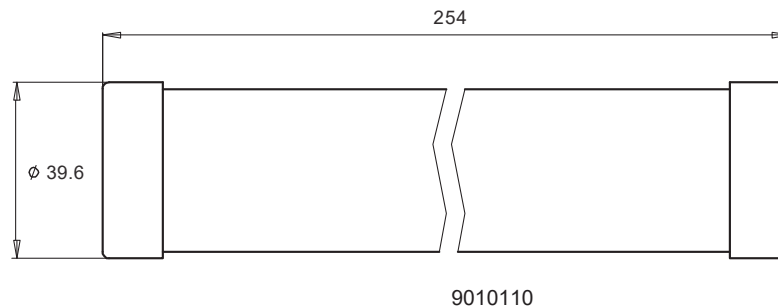
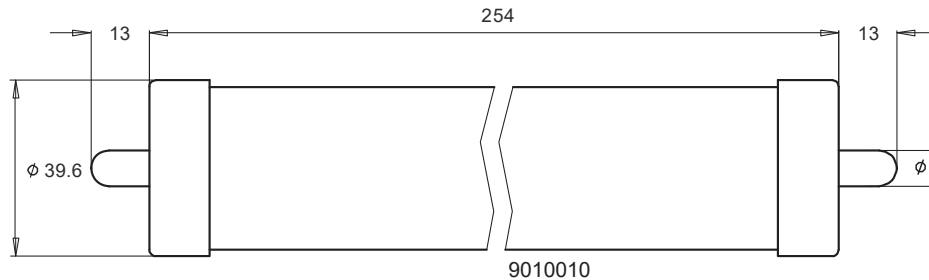
Time-Current Characteristics



Full size graphs available upon request

URDC - 40x254mm			Rated Voltage [U _n] 3600V _{DC}	Rated Breaking Capacity 3.2kA @ L/R = 16ms 1.6kA @ L/R = 11ms	Test Voltage 4000V _{DC}	Class gR	Standard(s) IEC 60077-5 UIC 550
Rated current I _n [A]	Without indicator Article Number	Without indicator Article Number		Switching Voltage [kV]	Pre-arcing I ² t [A ² s]	Total I ² t* @ 4000V _{DC} [A ² s]	Power loss [W]
2	9010010.2	9010110.2		15	2.5	3.5	9
3.15	9010010.3.15	9010110.3.15		15	4	8	13
3.9	9010010.3.9	9010110.3.9		15	8	13	24
5	9010010.5	9010110.5		15	15	21	18
6.3	9010010.6.3	9010110.6.3		15	24	41	22
8	9010010.8	9010110.8		15	27	110	21
12.5	9010010.12.5	9010110.12.5		15	68	220	40
16	9010010.16	9010110.16		15	72	360	23
20	9010010.20	9010110.20		15	120	600	27
31.5	9010010.31.5	9010110.31.5		15	410	1 300	40
	Weight [kg/l]						* L/R=1ms
	0.78						

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

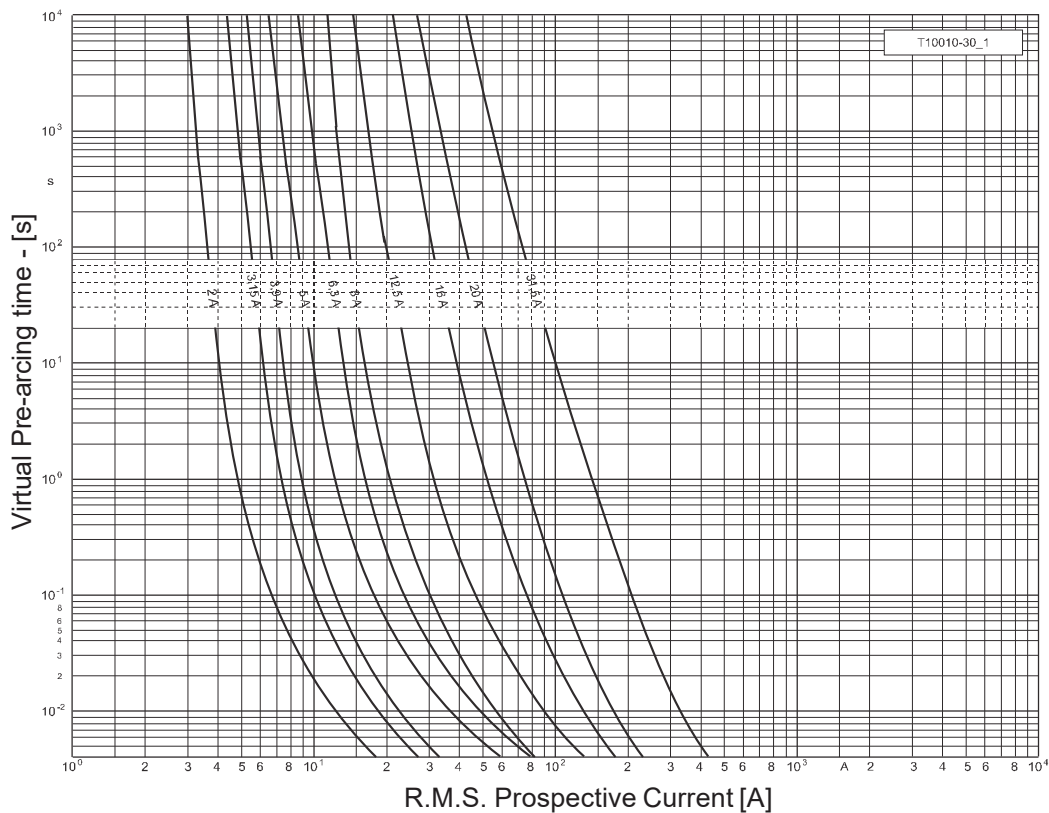


Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page

URDC - 40x254mm	Rated Voltage [U _n] 3600V _{DC}	Rated Breaking Capacity 3.2kA @ L/R = 16ms 1.6kA @ L/R = 11ms	Test Voltage 4000V _{DC}	Class gR	Standard(s) IEC 60077-5 UIC 550
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Time-Current Characteristics



Full size graphs available upon request

SIBA LLC

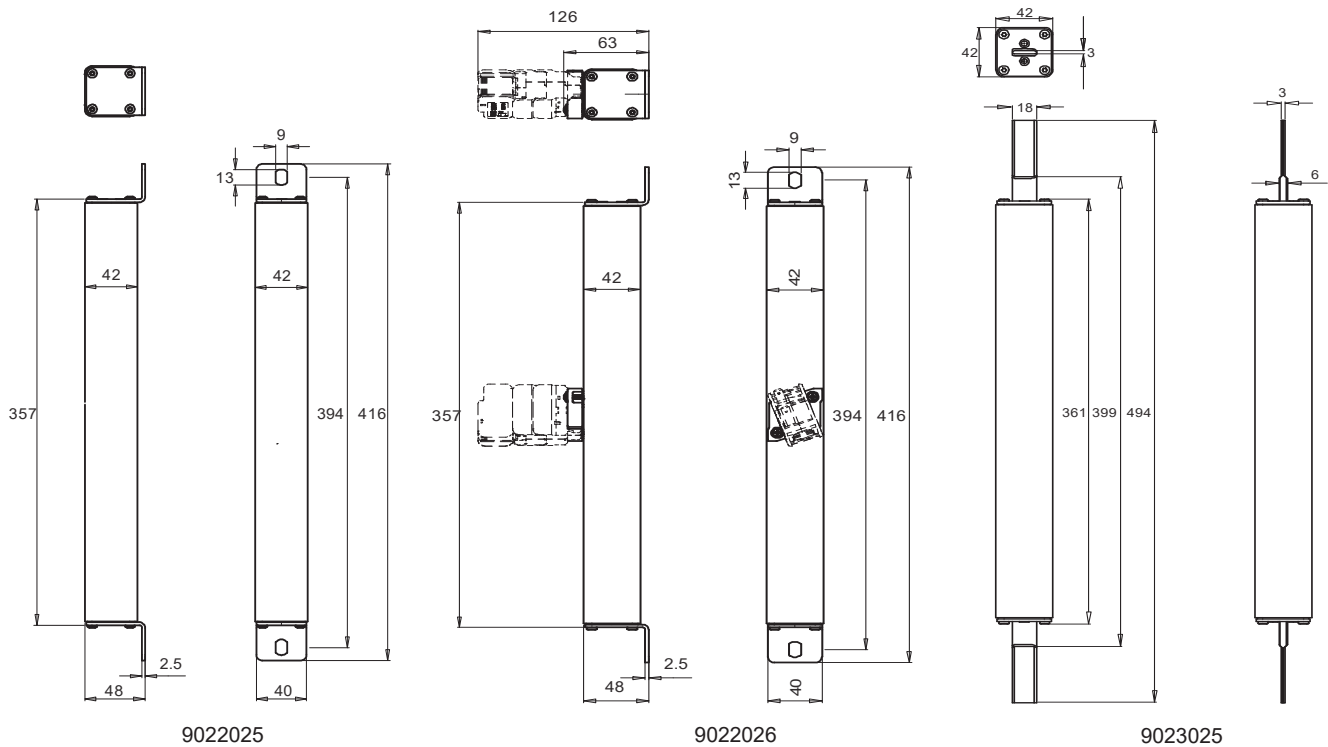
29 Fairfield Place
West Caldwell, New Jersey 07006Phone 1-973-575-7422
Fax 1-973-575-5858portal: www.siballc.net
e-mail: info@sibafuse.com

URDC - SQB-DC0				Rated Voltage [U _n] 3600V _{DC}	Rated Breaking Capacity 30kA @ L/R = 15ms	Test Voltage 4200V _{DC}	Class aR	Standard(s) IEC 60077-5 UIC 550
Rated current I _n [A]	Without indicator Article Number	With microswitch adapter Article Number	Without indicator blade Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @ 4200V _{DC} [A ² s]	Power loss [W]	
40	9022025.40	9022026.40	9023025.40		82	640	91	
50	9022025.50	9022026.50	9023025.50		184	1 400	99	
63	9022025.63	9022026.63	9023025.63		328	2 600	105	
80	9022025.80	9022026.80	9023025.80		740	5 700	117	
100	9022025.100	9022026.100	9023025.100		1 300	10 200	121	
125	9022025.125	9022026.125	9023025.125		2 500	19 200	142	
150	9022025.150	9022026.150	9023025.150		4 000	31 200	153	
	Weight [kg/1]						* L/R=15ms	
	1.78	1.90	1.84					

M8 Contact Bolt
Maximum Torque
15N•m
11.1lb•ft
133lb•in

Coefficients for Heavy Duty Applications

a	A2	B1 _{max}	B2	Cf3
130	0.55	1.25	0.6	0.8

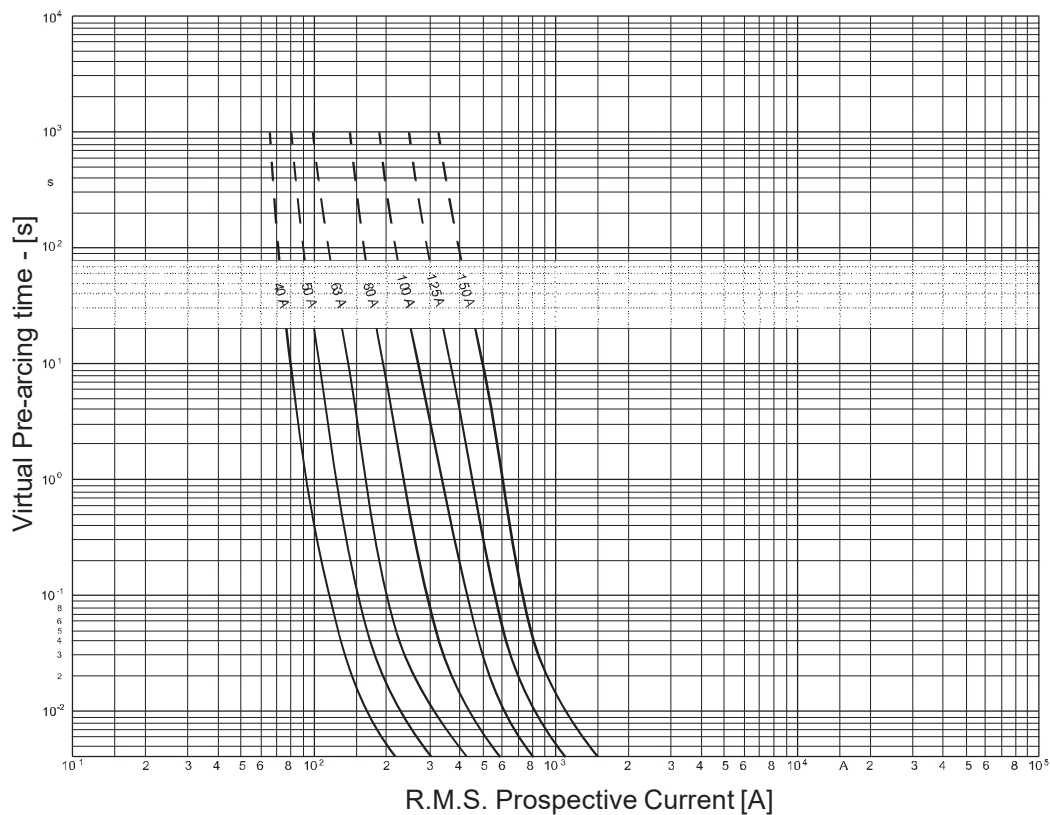


Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Microswitch - Single NO-NC, Standard level	2800312	542	Microswitch - Two NO-NC, Standard level	2800322	543
Low level	2800412		Low level	2800422	

URDC - SQB-DC0	Rated Voltage [U _n] 3600V _{DC}	Rated Breaking Capacity 30kA @ L/R = 15ms	Test Voltage 4200V _{DC}	Class aR	Standard(s) IEC 60077-5 UIC 550
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Time-Current Characteristics

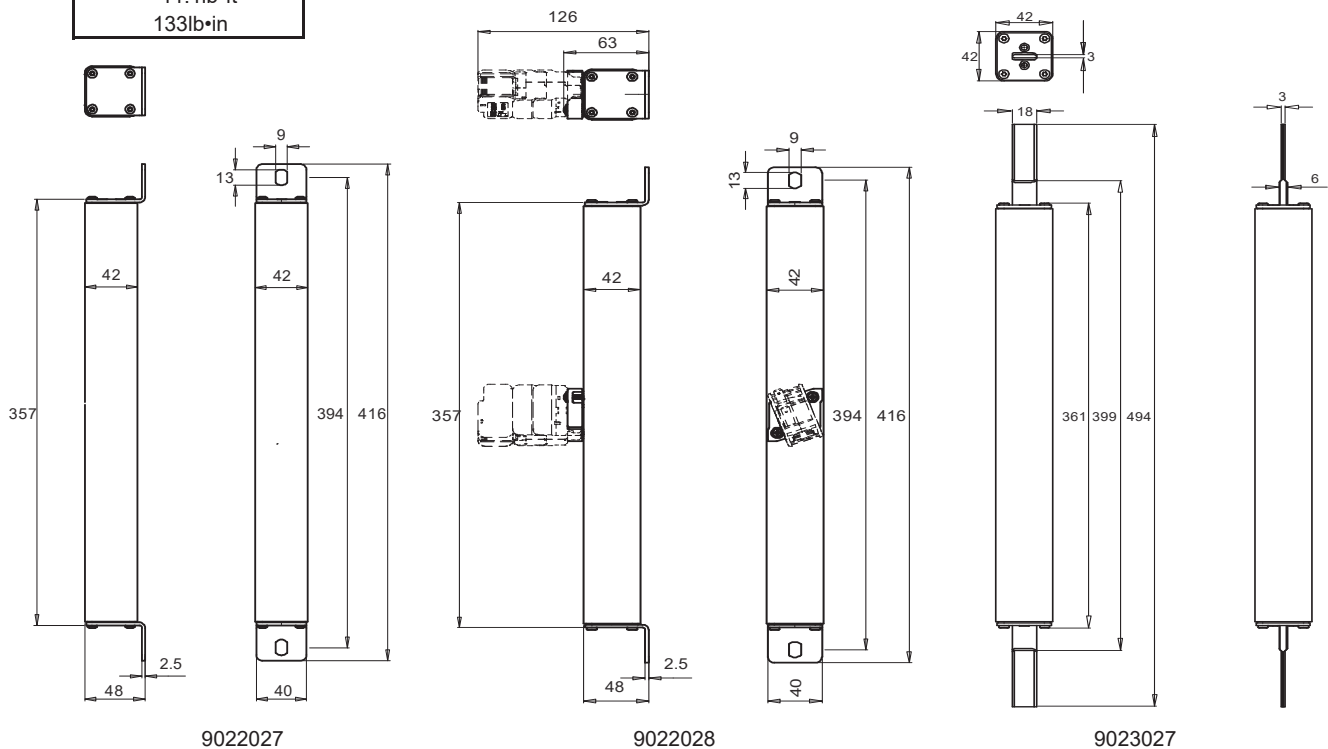


Full size graphs available upon request

URDC - SQB-DC0				Rated Voltage [U _n] 3600V _{DC}	Rated Breaking Capacity 30kA @ L/R = 15ms	Test Voltage 4000V _{DC}	Class aR	Standard(s) IEC 60077-5 UIC 550
Rated current I _n [A]	Without indicator Article Number	With microswitch adapter Article Number	Without indicator blade Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @ 4000V _{DC} [A ² s]	Power loss [W]	
10	9022027.10	9022028.10	9023027.10		16	120	13	
16	9022027.16	9022028.16	9023027.16		25	190	16	
20	9022027.20	9022028.20	9023027.20		35	265	20	
25	9022027.25	9022028.25	9023027.25		72	540	24	
32	9022027.32	9022028.32	9023027.32		128	960	29	
40	9022027.40	9022028.40	9023027.40		184	1 380	35	
50	9022027.50	9022028.50	9023027.50		327	2 500	42	
63	9022027.63	9022028.63	9023027.63		512	3 900	56	
80	9022027.80	9022028.80	9023027.80		1 000	7 500	72	
	Weight [kg/1]							
	2.0	1.90	2.5			* L/R=15ms		

M8 Contact Bolt
Maximum Torque
15N•m
11.1lb•ft
133lb•in

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

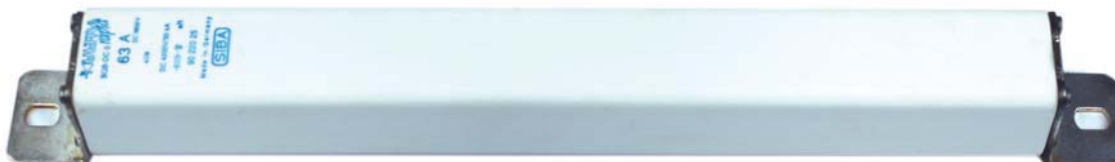
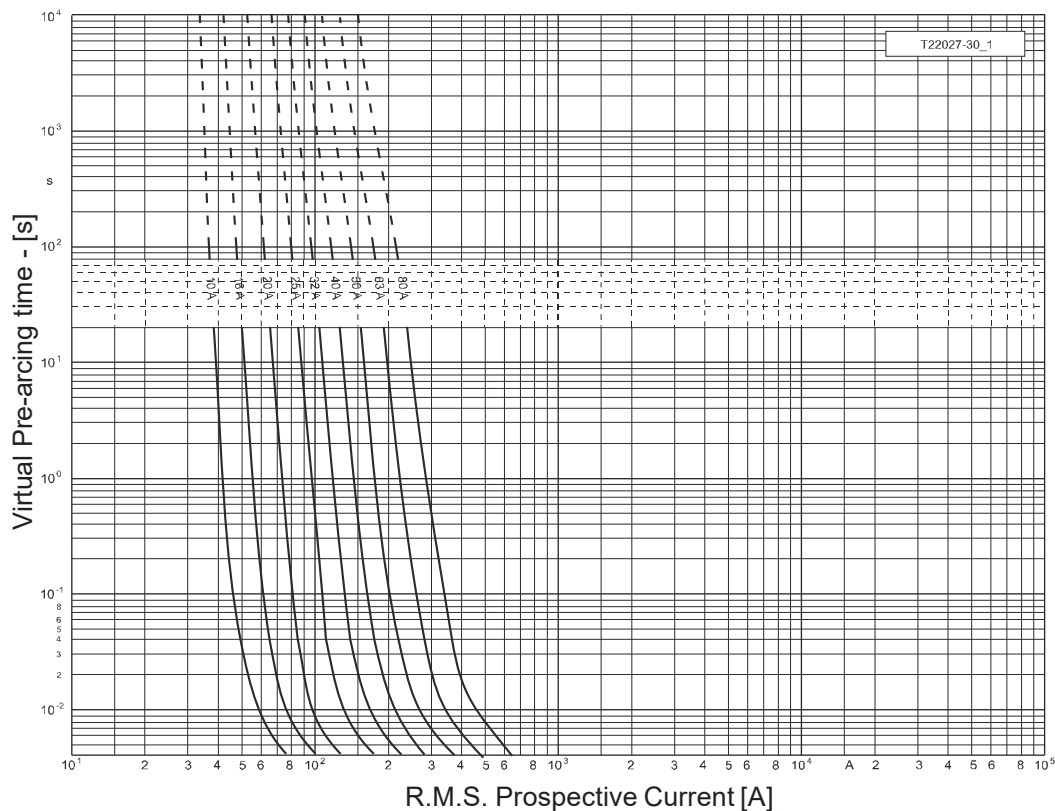


Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Microswitch - Single NO-NC,			Microswitch - Two NO-NC,		
Standard level	2800312	542	Standard level	2800322	543
Low level	2800412		Low level	2800422	

URDC - SQB-DC0	Rated Voltage [U _n] 3600V _{DC}	Rated Breaking Capacity 30kA @ L/R = 15ms	Test Voltage 4000V _{DC}	Class aR	Standard(s) IEC 60077-5 UIC 550
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Time-Current Characteristics

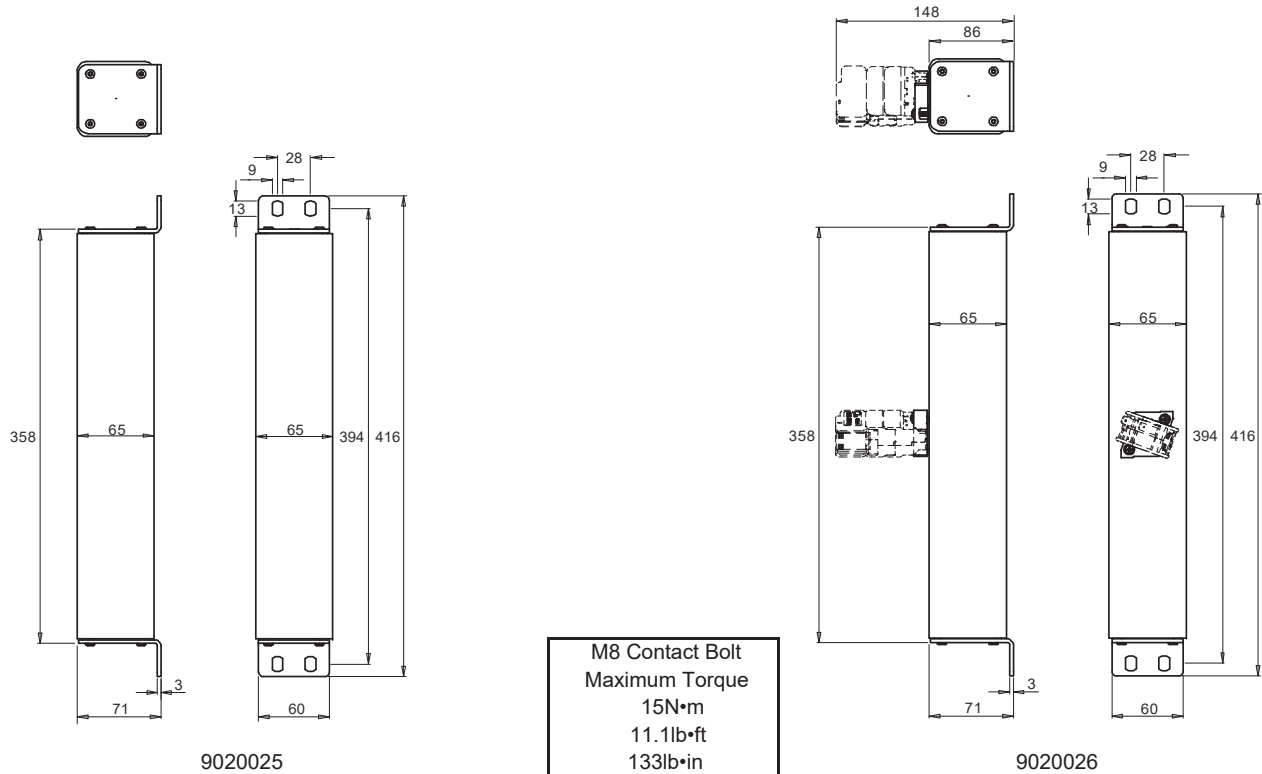


Full size graphs available upon request

URDC - SQB-DC2			Rated Voltage [U _n] 3600V _{DC}	Rated Breaking Capacity 30kA @ L/R = 15ms	Test Voltage 4200V _{DC}	Class aR	Standard(s) IEC 60077-5 UIC 550	
Rated current I _n [A]	Without indicator Article Number	With microswitch adapter Article Number				Pre-arcing I ² t [A ² s]	Total I ² t* @ 4200V _{DC} [A ² s]	Power loss [W]
Size SQB-DC2								
100	9020025.100	9020026.100				2 300	19 000	75
125	9020025.125	9020026.125				4 000	33 500	90
160	9020025.160	9020026.160				6 600	55 300	120
200	9020025.200	9020026.200				11 800	98 000	145
250	9020025.250	9020026.250				21 000	175 000	165
280	9020025.280	9020026.280				27 000	221 000	205
315	9020025.315	9020026.315				33 000	273 000	220
	Weight [kg/l]							* L/R=15ms
	3.90	3.92						

Coefficients for Heavy Duty Applications

a	A2	B1 _{max}	B2	Cf3
130	0.55	1.25	0.6	0.8

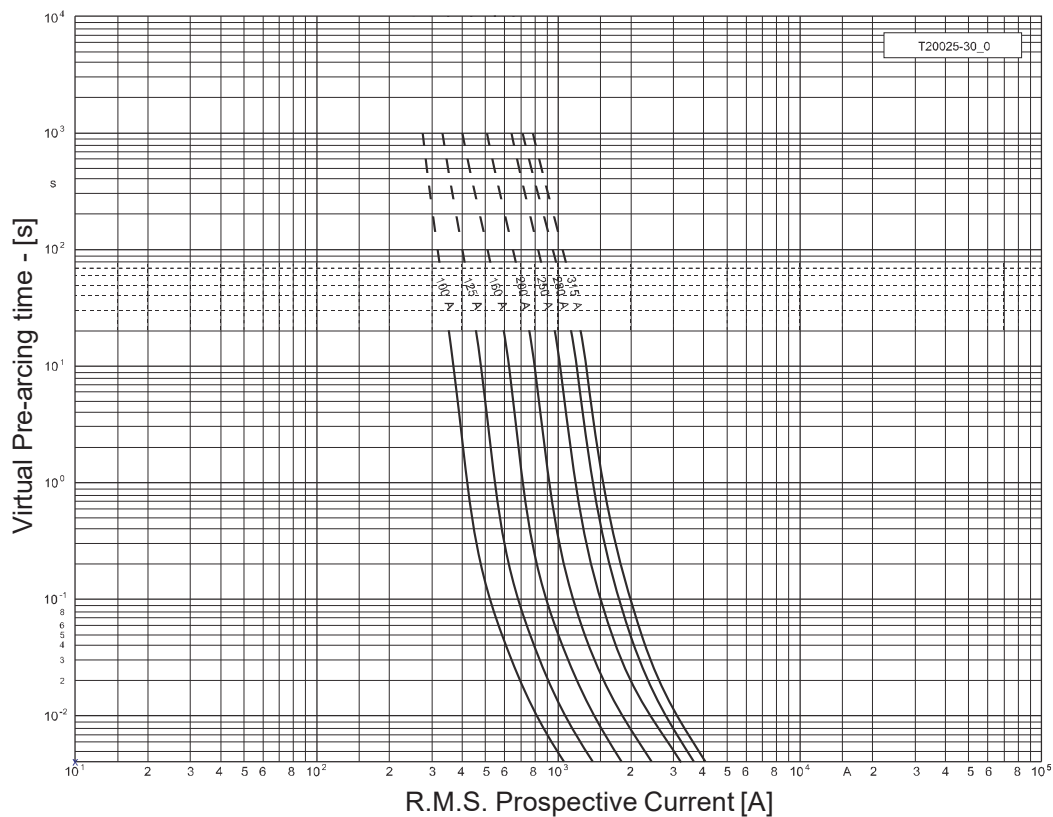


Accessories

	Article Number	Page	Article Description	Article Number	Page
Microswitch - Single NO-NC, Standard level	2800312	542	Microswitch - Two NO-NC, Standard level	2800322	543
Low level	2800412		Low level	2800422	

URDC - SQB-DC2	Rated Voltage [U _n] 3600V _{DC}	Rated Breaking Capacity 30kA @ L/R = 15ms	Test Voltage 4200V _{DC}	Class aR	Standard(s) IEC 60077-5 UIC 550
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Time-Current Characteristics



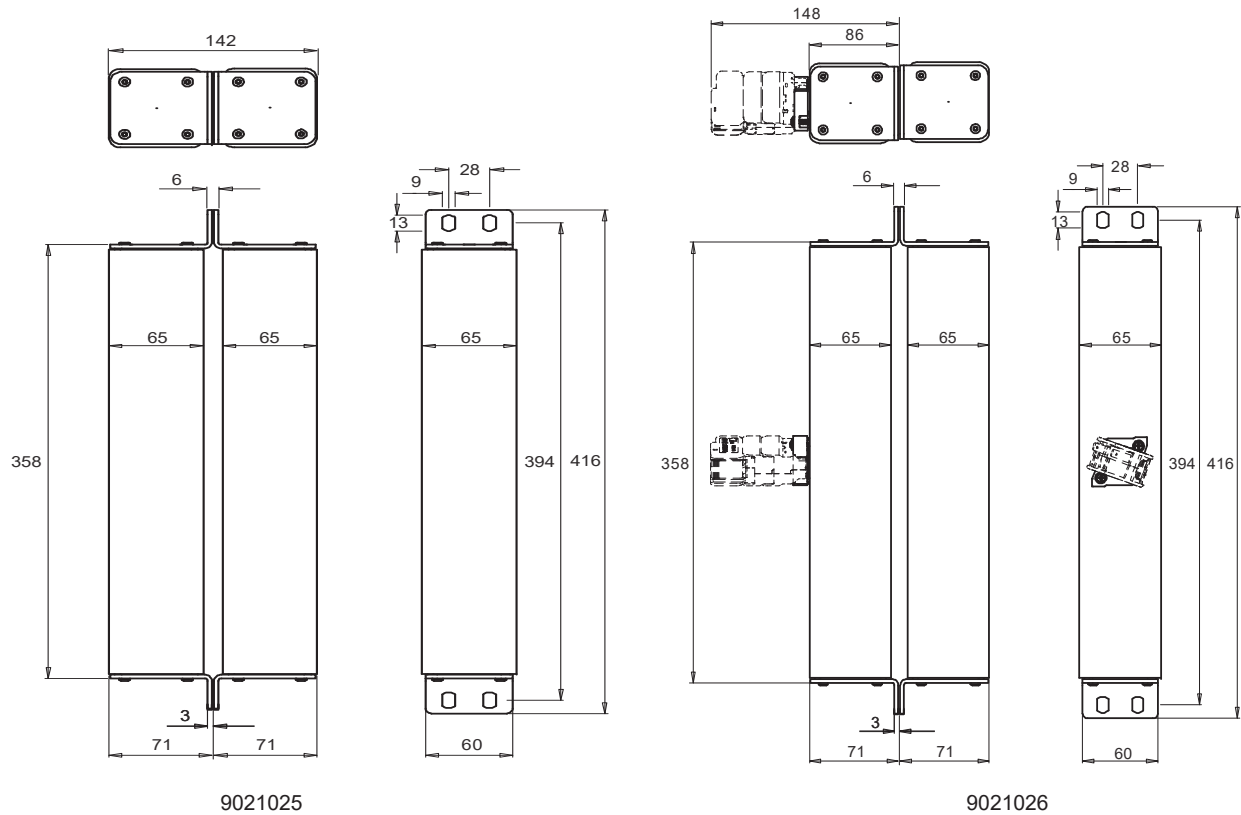
Full size graphs available upon request

URDC - SQB-DC2-2			Rated Voltage [U _n] 3600V _{DC}	Rated Breaking Test Capacity 30kA @ L/R = 15ms	Voltage 4200V _{DC}	Class aR	Standard(s) IEC 60077-5 UIC 550	
Rated current I _n [A]	Without indicator Article Number	With microswitch adapter Article Number	Size SQB-DC2-2			Pre-arcing I ² t [A ² s]	Total I ² t* @ 4 200V _{DC} [A ² s]	Power loss [W]
400	9021025.400	9021026.400				47 200	392 000	305
500	9021025.500	9021026.500				84 000	700 000	348
630	9021025.630	9021026.630				132 000	1 092 000	465
	Weight [kg/1]						* L/R=15ms	
	7.46	7.46						

M8 Contact Bolt
Maximum Torque
15N•m
11.1lb•ft
133lb•in

Coefficients for Heavy Duty Applications

a	A2	B1 _{max}	B2	Cf3
130	0.55	1.25	0.6	0.8

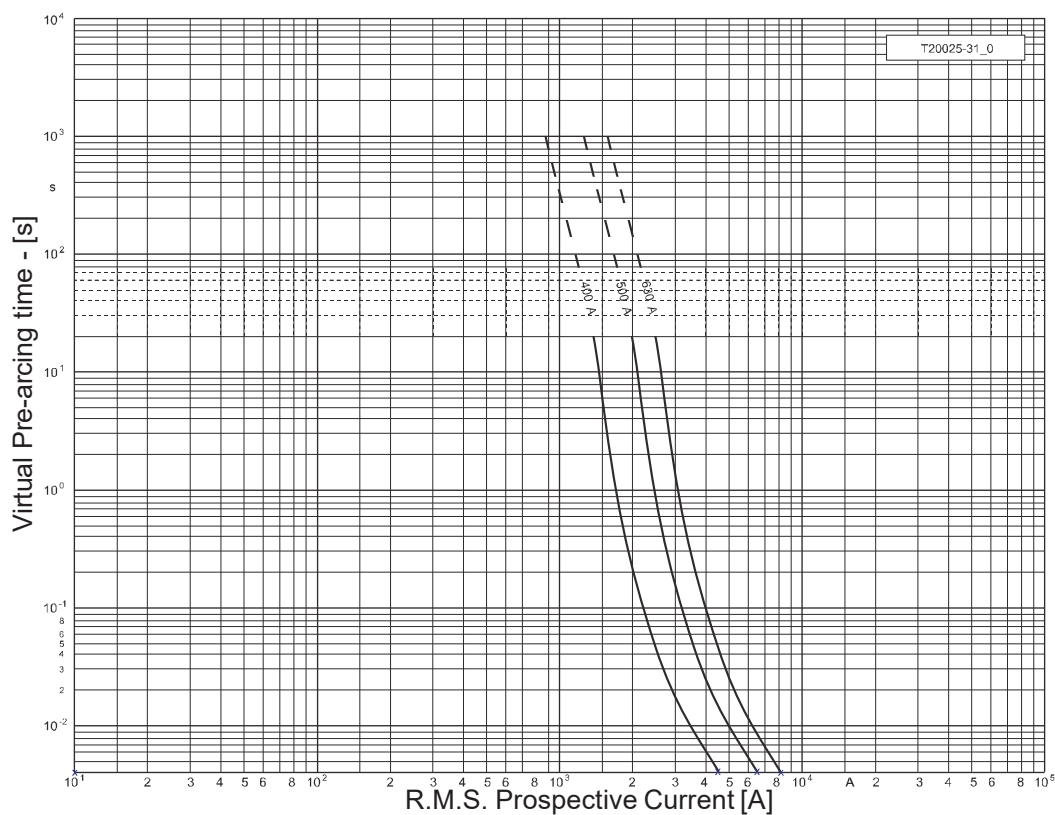


Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Microswitch - Single NO-NC, Standard level	2800312	542	Microswitch - Two NO-NC, Standard level	2800322	543
Low level	2800412		Low level	2800422	

URDC - SQB-DC2-2	Rated Voltage [U _n] 3600V _{DC}	Rated Breaking Capacity 30kA @ L/R = 15ms	Test Voltage 4200V _{DC}	Class aR	Standard(s) IEC 60077-5 UIC 550
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Time-Current Characteristics



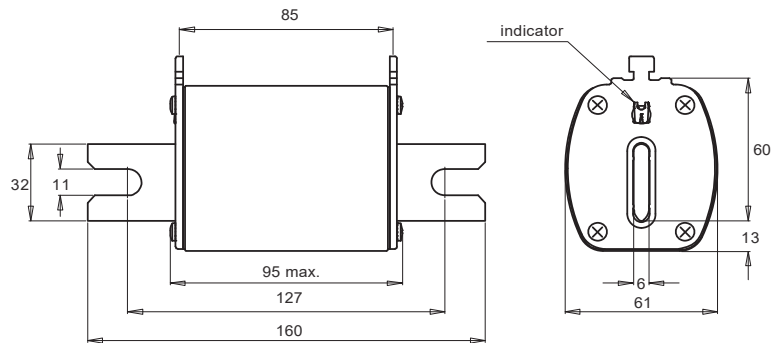
Full size graphs available upon request

URDC - NH3	Rated Voltage [U _n] 1000V _{AC}	Rated Breaking Capacity 120kA	Test Voltage 1000V _{AC}	Class aR	Standard(s) IEC 60269-4 VDE 0636-4
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Rated current I _n [A]	With top indicator 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]
1.00

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



Accessories

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

URDC - NH3

Rated Voltage

 $[U_n]$ 1000V_{AC}

Rated Breaking

Capacity

120kA

Test

Voltage

1000V_{AC}

Class

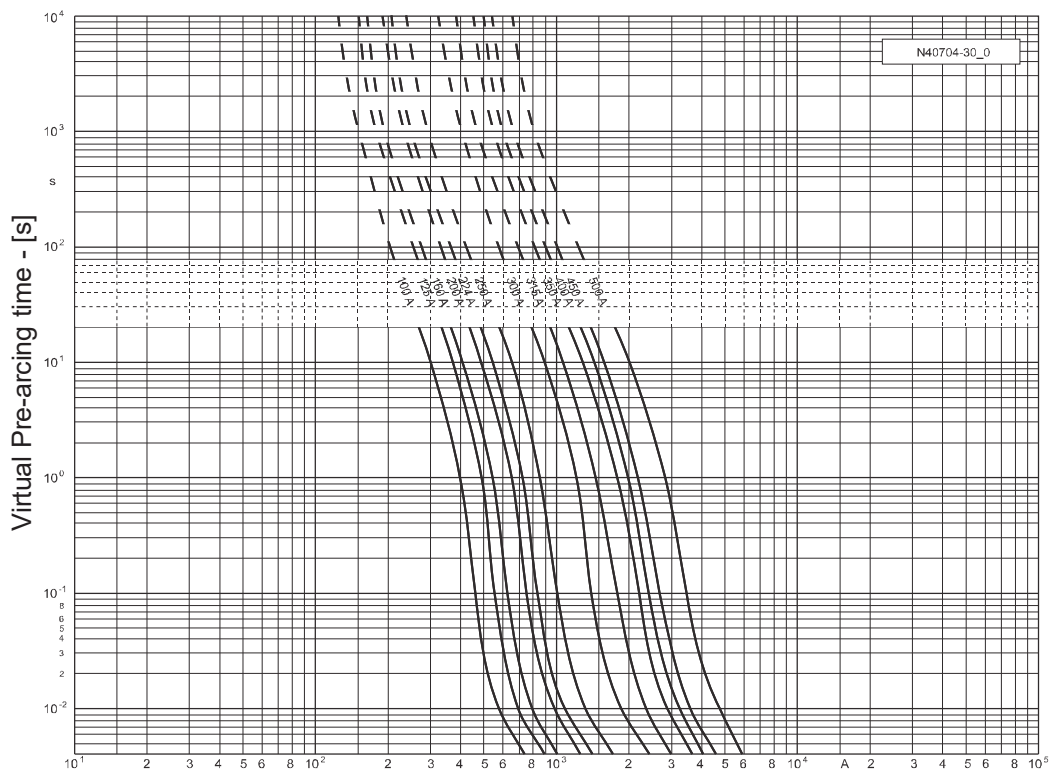
aR

Standard(s)

IEC 60269-4

VDE 0636-4

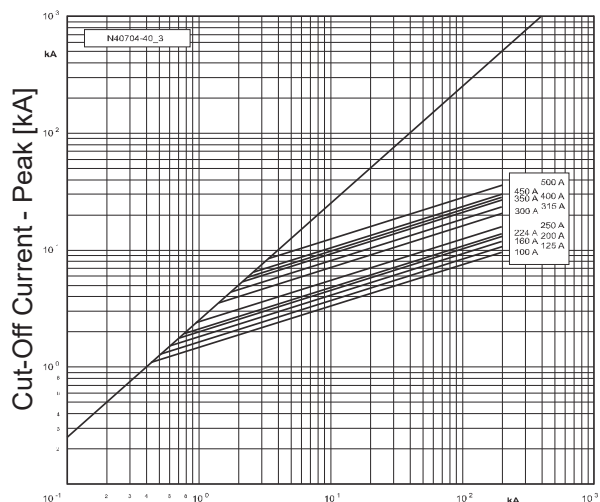
Time-Current Characteristics



R.M.S. Prospective Current [A]

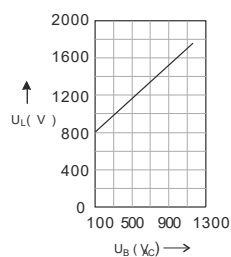
Full size graphs available upon request

Cut-Off Current Characteristics

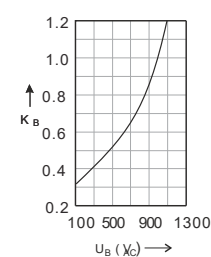
Prospective Short Circuit Current [kA]
(Symmetrical r.m.s.)

Correction Curves

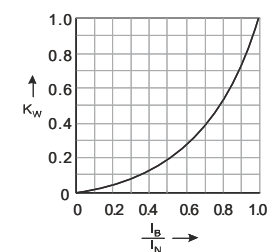
Arc Voltage-Diagram



Reduction factor for total i²t-value



Reduction factor for power Loss



SIBA LLC

29 Fairfield Place

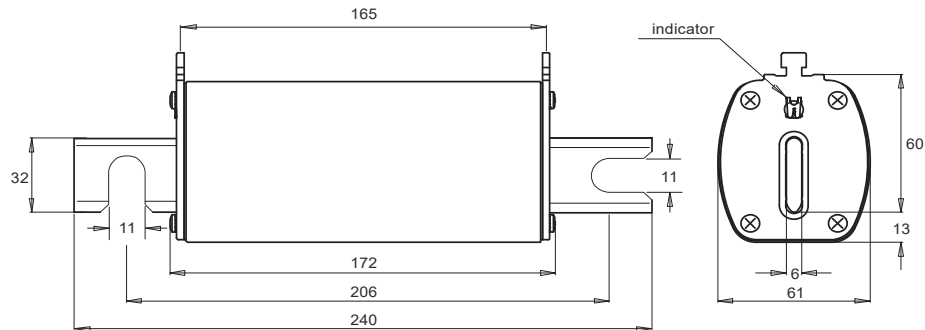
West Caldwell, New Jersey 07006

Phone 1-973-575-7422

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URDC - NH3		Rated Voltage [U _n] 2000V _{AC}	Rated Breaking Capacity 100kA	Test Voltage 2000V _{AC}	Class aR	Standard(s) IEC 60269-4 VDE 0636-4
Rated current I _n [A]	With top indicator 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	77 000	85
250	2040404.250			33 000	95 000	103
300	2040404.300			53 000	151 000	115
315	2040404.315			62 000	172 000	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
630	2040420.630			250 000	921 000	220
710	2040420.710			380 000	1 400 000	261
Weight [kg/1]						
1.67						



Accessories

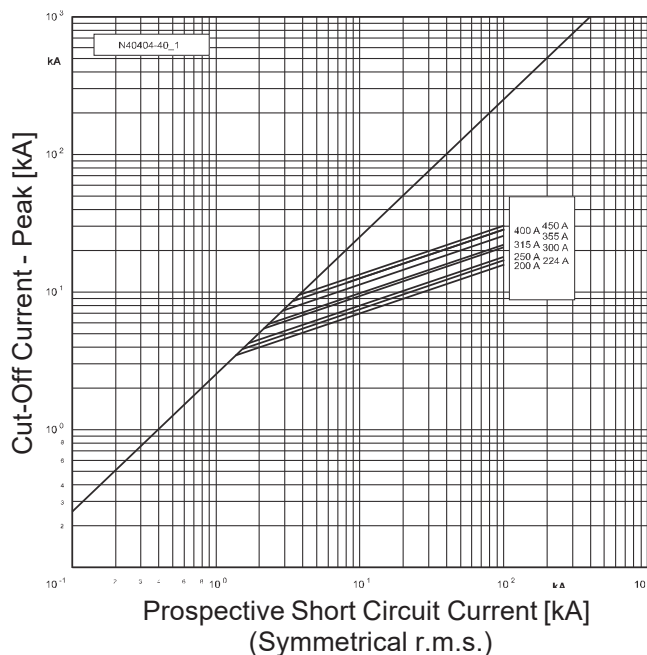
Article Description	Article Number	Page	Article Description	Article Number	Page
			Microswitch (red hammer)	2800202	540
			(UL File E309038)	2800204	

URDC - NH3	Rated Voltage [U _n] 2000V _{AC}	Rated Breaking Capacity 100kA	Test Voltage 2000V _{AC}	Class aR	Standard(s) IEC 60269-4 VDE 0636-4
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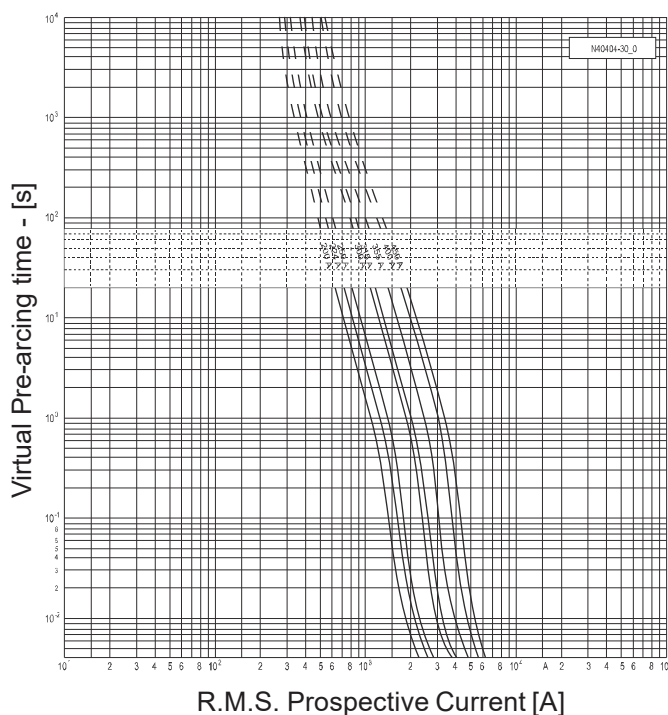
Coefficients for Heavy Duty Applications

a	A2	B1 _{max}	B2	Cf3
130	0.65	1.25	0.65	0.8

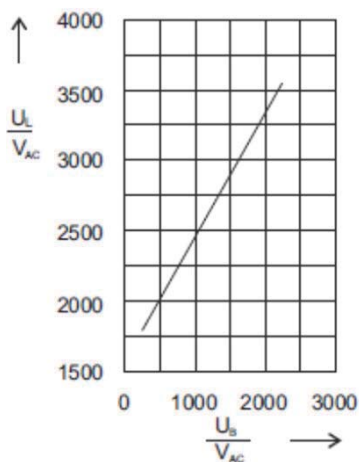
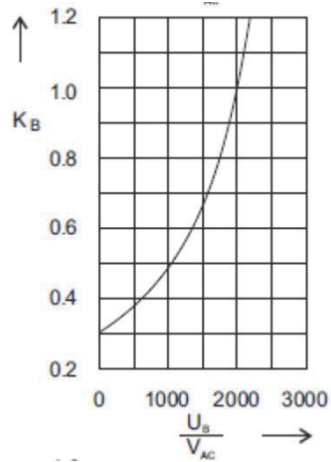
Cut-Off Current Characteristics



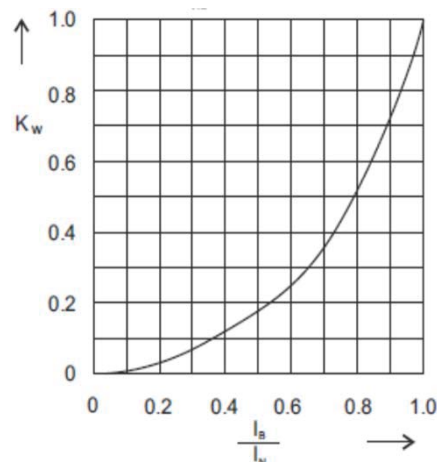
Time-Current Characteristics (Average)



Arc voltage diagram

Reduction factor for I_t² tota

Reduction factor for power loss



Full size graphs available upon request

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HHZ-BDC

High Voltage DC Fuses

Application Range Types

Fuses for protection of DC Circuits

Medium voltage SIBA fuses HHZ-BDC "F" fast-acting current-limiting "Back-Up" fuses for the protection of DC circuits up to $3kV_{DC}$ are specially developed for the high requirements of severe DC circuit operation.

Fuses for Medium Voltage applications requiring high breaking capacity

Selection Guide

HHZ-BDC, Current-Limiting, Back-Up

Current ratings [A]; 2, 4, 6.3, 10, 16, 25, 40

L=138mm	Page	L=178mm	Page	L=213mm	Page	
1.5kV_{DC}						
3030101.2 - 10	294	3030201.16 - 25	294	3030301.16 - 40	294	Clip
2.4kV_{DC}						
3030401.2 - 10	294	3030501.6.3 - 16	294	3030601.25	294	Clip
3kV_{DC}						
		3030701.4 - 10	294	3030801.2 - 16	294	Clip



HHZ-BDC

1.5kV / 2.4kV & 3kV- Rated Voltage

High Voltage Current-Limiting Fuses

Standard(s)

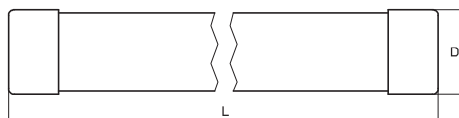
Company Standard



L = 138mm / 178mm & 213mm

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 @ [A ² s]	Power loss [W]	Cold resistance [mΩ]
1.5kV_{DC} - L = 138mm									
2	3030101.2	1.06 / 27	0.19	50	12	3.1	—	0.8	140
4	3030101.4	1.06 / 27	0.19	50	15	7.5	—	2.0	90
6.3	3030101.6.3	1.06 / 27	0.19	50	20	28	—	2.5	66
10	3030101.10	1.06 / 27	0.19	50	30	68	—	6.3	42
1.5kV_{DC} - L = 178mm									
16	3030201.16	1.06 / 27	0.19	50	55	185	—	7.5	20
25	3030201.25	1.06 / 27	0.19	50	85	650	—	10	10
1.5kV_{DC} - L = 213mm									
16	3030301.16	1.06 / 27	0.29	50	55	185	—	9.5	25
25	3030301.25	1.06 / 27	0.29	50	85	650	—	10	14
40	3030301.40	1.06 / 27	0.29	50	170	4 600	—	11	5
2.4kV_{DC} - L = 138mm									
2	3030401.2	1.06 / 27	0.19	50	12	3.1	—	0.8	140
4	3030401.4	1.06 / 27	0.19	50	15	7.5	—	2.0	90
6.3	3030401.6.3	1.06 / 27	0.19	50	20	28	—	2.5	66
10	3030401.10	1.06 / 27	0.19	50	30	68	—	6.3	42
2.4kV_{DC} - L = 178mm									
6.3	3030501.6.3	1.06 / 27	0.19	50	20	28	—	5.2	90
10	3030501.10	1.06 / 27	0.19	50	30	68	—	8.5	57
16	3030501.16	1.06 / 27	0.19	50	55	185	—	7.5	20
2.4kV_{DC} - L = 213mm									
25	3030601.25	1.06 / 27	0.31	50	85	650	—	10	14
3kV_{DC} - L = 178mm									
4	3030701.4	1.06 / 27	0.19	50	15	7.5	—	2.8	118
6.3	3030701.6.3	1.06 / 27	0.19	50	20	28	—	5.2	90
10	3030701.10	1.06 / 27	0.19	50	30	68	—	8.5	57
3kV_{DC} - L = 213mm									
2	3030801.2	1.06 / 27	0.48	50	12	3.1	—	1.3	228
4	3030801.4	1.06 / 27	0.48	50	15	7.5	—	3.4	145
6.3	3030801.6.3	1.06 / 27	0.48	50	20	28	—	6.2	107
10	3030801.10	1.06 / 27	0.48	50	30	68	—	10	68
16	3030801.16	1.06 / 27	0.48	50	55	185	—	9.4	25



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse Clips	6100401.3	565			
Clamping Plate for 6100401.3	6300201.4				

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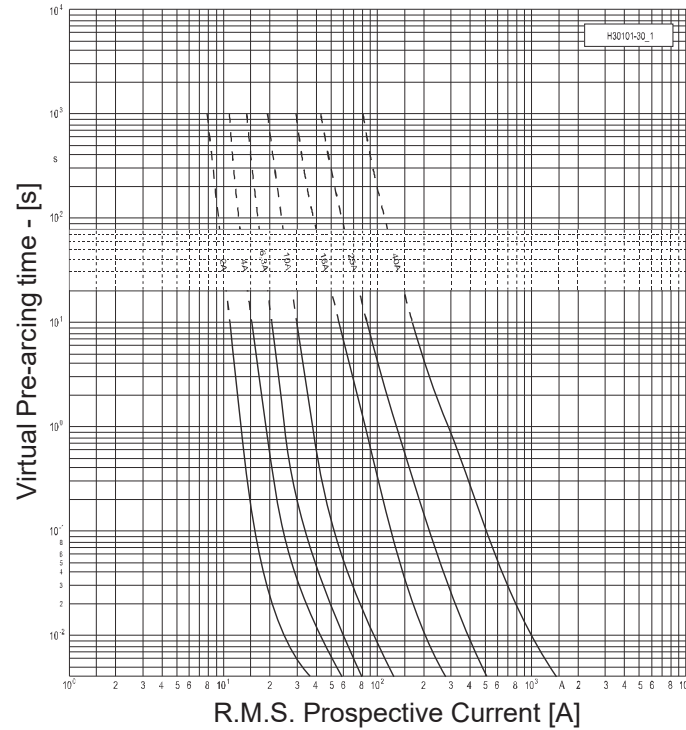
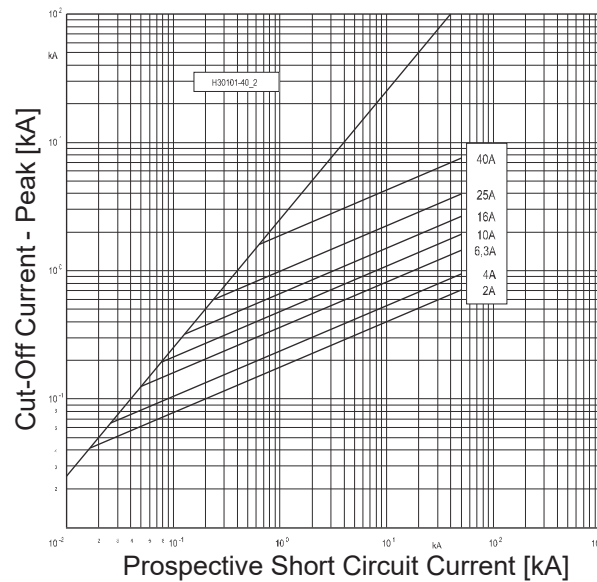
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HHZ-BDC**Time-Current Characteristics - Average Melting
Cut-Off Current Diagram****Current-Limiting, Back-Up, 1.5kV / 2.4kV & 3 kV, L = 138mm / 178mm & 213mm (2A - 40A)**

3030101.2 - 10, 3030201.16 - 25, 3030301.16 - 40, 3030401.2 - 10, 3030501.6.3 - 16, 3030601.25, 3030701.4 - 10, 3030801.2 - 16

Average Melting (Average)**Cut-Off Current**

Full size graphs available upon request