

URS

Fuses for Semiconductor Protection

North American and European Standard Type - SQB Sizes 1, 2, 3, and 4



New - SIBA now offers UL recognized fuses tested at 900V_{DC} 236kA at L/R = 2.7ms to meet the demands of energy storage systems. The fuses are available in SQB1 50A - 450A, SQB2 250A - 630A and SQB3 315A - 800A. Higher Voltage and current ratings are available. Contact SIBA for your requirements.

ESS- Energy Storage systems

SIBA square body fuses type SQB are available in four body sizes. SQB sizes 1 thru 3 are available in various mounting styles, voltage and current ratings to meet the maximum flexibility in equipment design to meet global application requirements.

SIBA SQB fuses provides superior engineered design for the protection of today's power semiconductors. The special shapes and forms of the pure silver melting elements embedded in a silicated arc-quenching medium provides excellent low I^2t value, low peak let thru currents, high current interrupting ratings with superb reliability under high cyclic loading conditions.

Class: aR

Voltage Ratings: 700V_{AC}, 1300V_{AC}, 2000V_{AC} and 2500V_{AC}

Current Ratings: 50A - 4000A

Standards: UL 248-13
IEC 60269-4
DIN VDE 0636-40
DIN 43653

Approvals:  E180276
US

Features and Benefits



High current interrupt ratings



Very low I^2t total values



High cyclic loading withstand capabilities

Fuses for Semiconductor Protection

Selection Guide

North American and European Standard Type - SQB Sizes 1, 2, 3, and 4

Article Number	Description		Selection Guide	Technical Data
690V _{AC} IEC / 700V _{AC} UL				
SQB1				
2061632	US Bladed-Short	With fitting for microswitch	441	445 - 446
2061731		No indicator		
2061832	US Bladed-Long	With fitting for microswitch		
2061931		No indicator		
2061032	DIN - 80mm	With flap indicator	442	
2061132		With fitting for microswitch		
2061232		With fitting for microswitch		
2061332	DIN - 110mm	With flap indicator	443	
2061432		With fitting for microswitch		
2061532		With fitting for microswitch		
2066632		With fitting for microswitch - 90° Rotation		
2066331	Threaded 5/16" UNC	No indicator	444	
2066432		With fitting for microswitch		
2066031	DIN Threaded M8	No indicator		
2066032		With flap indicator		
2066132		With fitting for microswitch		
SQB2				
2062632	US Bladed-Short	With fitting for microswitch	447	451 - 452
2062731		No indicator		
2062832	US Bladed-Long	With fitting for microswitch		
2062931		No indicator		
2062032	DIN - 80mm	With flap indicator	448	
2062132		With fitting for microswitch		
2062232		With fitting for microswitch		
2062332	DIN - 110mm	With flap indicator	449	
2062432		With fitting for microswitch		
2062532		With fitting for microswitch		
2067632		With fitting for microswitch - 90° Rotation		
2067331	Threaded 3/8" UNC	No indicator	450	
2067432		With fitting for microswitch		
2067032	DIN M10	With flap indicator		
2067132		With fitting for microswitch		
SQB2X2 (Double Body)				
2067832	DIN Threaded M10	With fitting for micro-switch		453 - 454
SQB3				
2063632	US Bladed-Short	With fitting for microswitch	455	459 - 460
2063731		No indicator		
2063832	US Bladed-Long	With fitting for microswitch		
2063931		No indicator		
2063032	DIN - 80mm	No indicator	456	
2063132		With fitting for microswitch		
2063232		With fitting for microswitch		
2063332	DIN - 110mm	With flap indicator	457	
2063432		With fitting for microswitch		
2063532		With fitting for microswitch		
2068632		With fitting for microswitch - 90° Rotation		
2068331	Threaded 1/2" UNC	No indicator	458	
2068432		With fitting for microswitch		
2068032	DIN Threaded M12	With flap indicator		
2068132		With fitting for microswitch		

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Fuses for Semiconductor Protection

Selection Guide

North American and European Standard Type - SQB Sizes 1, 2, 3, and 4

Article Number		Description	Selection Guide	Technical Data
550V _{AC} IEC				
SQB3 - 70				
2068152	DIN Threaded M12	With fitting for microswitch	461	461 - 462
690V _{AC} IEC				
SQB3X2 (Double Body)				
2068832	DIN Threaded M12	With fitting for microswitch	463	463 - 464
SQB4				
2069532	DIN Threaded 4XM10	With fitting for microswitch	465	465 - 466
1 250V _{AC} IEC / 1300V _{AC} UL				
SQB1 (Energy Storage - 50A -450A)				
2071832	US Bladed-Long	With fitting for microswitch	467	470 - 471
2071931		No indicator		
2071332	DIN - 110mm	With flap indicator	468	
2071432		With fitting for microswitch		
2071532		With fitting for microswitch		
2076632		With fitting for microswitch - 90° Rotation		
2076331	Threaded 5/16" UNC	No indicator	469	
2076332		With flap indicator		
2076432		With fitting for microswitch		
2076032	DIN Threaded M8	With flap indicator		
2076132		With fitting for microswitch		
SQB2 (Energy Storage - 250A -630A)				
2072832	US Bladed-Long	With fitting for microswitch	472	475 - 476
2072931		No indicator		
2072332	DIN - 110mm	With flap indicator	473	
2072432		With fitting for microswitch		
2072532		With fitting for microswitch		
2077632		With fitting for microswitch - 90° Rotation		
2077331	Threaded 3/8" UNC	No indicator	474	
2077432		With fitting for microswitch		
2077032	DIN Threaded M10	With flap indicator		
2077132		With fitting for microswitch		
SQB2X2 (Double Body)				
2077832	DIN Threaded M10	With fitting for microswitch	477	477 - 478
SQB3 (Energy Storage - 315A -800A)				
2073832	US Bladed-Long	With fitting for microswitch	479	482 - 483
2073931		No indicator		
2073332	DIN - 110mm	With flap indicator	480	
2073432		With fitting for microswitch		
2073532		With fitting for microswitch		
2078632		With fitting for microswitch - 90° Rotation		
2078331	Threaded 1/2" UNC	No indicator	481	
2078432		With fitting for microswitch		
2078032	DIN Threaded M12	With flap indicator		
2078132		With fitting for microswitch		
SQB3-70				
2073552	DIN - 110mm	With fitting for microswitch	484	484 - 485
2073852	US Bladed	With fitting for microswitch		
2073951	US Bladed	No indicator		
2078152	DIN Threaded M12	With fitting for microswitch		
2078452	Threaded 1/2" -UNC	With fitting for microswitch		
2078652	DIN - 110mm	With fitting for microswitch - 90° Rotation		

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Fuses for Semiconductor Protection

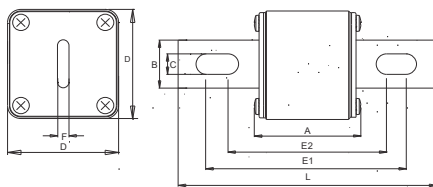
Selection Guide

North American and European Standard Type - SQB Sizes 1, 2, 3, and 4

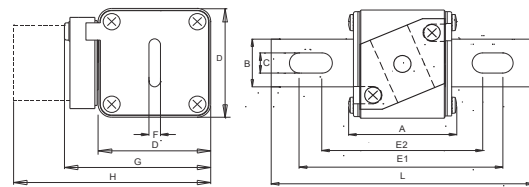
Article Number	Description		Selection Guide	Technical Data
1 250V _{AC} IEC				
SQB3X2 (Double Body)				
2078832	DIN Threaded M12	With fitting for microswitch	486	486 - 487
1 100V _{AC} IEC				
SQB4				
2079532	DIN Threaded 4XM10	With fitting for microswitch	488	488 - 489
2079632	DIN Threaded 4XM10 - Flange	With fitting for microswitch		
2079732	DIN Threaded 4XM10 - Flange	With fitting for microswitch		
1 250V _{AC} IEC				
SQB4				
2079552	DIN Threaded 4XM12	With fitting for microswitch	490	Contact SIBA
1 400V _{AC} IEC				
9042118	DIN Threaded 4XM10	With flap indicator	491	491 - 492
2 000V _{AC} IEC				
SQB3				
2075331	DIN Threaded M12	No indicator	493	493 - 494
2075332	DIN Threaded M12	With fitting for microswitch		
2 500V _{AC} IEC				
SQB3				
2079152	DIN Threaded M12	With fitting for microswitch	495	495 - 496

URS - SQB1	Rated Voltage [U _n]	Rated Breaking Test Capacity	Class aR	Standard(s)
cRU[®] US	700V _{AC} - UL 690V _{AC} - IEC	200kA		UL 248-13 IEC 60269-4 VDE 0636-4
UL File E180276				

Rated current I _n [A]	UL rec	US - Blade Short With fitting for microswitch Article Number	US - Blade Short Without indicator Article Number	US - Blade Long With fitting for microswitch Article Number	US - Blade Long No indicator Article Number
50	✓	2061632.50	2061731.50	2061832.50	2061931.50
63	✓	2061632.63	2061731.63	2061832.63	2061931.63
80	✓	2061632.80	2061731.80	2061832.80	2061931.80
100	✓	2061632.100	2061731.100	2061832.100	2061931.100
125	✓	2061632.125	2061731.125	2061832.125	2061931.125
160	✓	2061632.160	2061731.160	2061832.160	2061931.160
200	✓	2061632.200	2061731.200	2061832.200	2061931.200
250	✓	2061632.250	2061731.250	2061832.250	2061931.250
315	✓	2061632.315	2061731.315	2061832.315	2061931.315
350	✓	2061632.350	2061731.350	2061832.350	2061931.350
400	✓	2061632.400	2061731.400	2061832.400	2061931.400
450	✓	2061632.450	2061731.450	2061832.450	2061931.450
500	✓	2061632.500	2061731.500	2061832.500	2061931.500
550	✓	2061632.550	2061731.550	2061832.550	2061931.550
630	✓	2061632.630	2061731.630	2061832.630	2061931.630
700	✓	2061632.700 ¹	2061731.700 ¹	2061832.700 ¹	2061931.700 ¹
800	✓	2061632.800 ¹	2061731.800 ¹	2061832.800 ¹	2061931.800 ¹
900		2061632.900 ²	2061731.900 ²	2061832.900 ²	2061931.900 ²
¹) Tested @ 1.05U _n 690V-IEC, 700V-UL, ²) Tested @ 1.05U _n 600V-IEC, No-UL					
Weight [kg / 1]					
0.54 0.54 0.63 0.63					
Dimensions [in / mm]					
A		1.87 / 47.5	1.87 / 47.5	1.87 / 47.5	1.87 / 47.5
B		1.02 / 26	1.02 / 26	1.02 / 26	1.02 / 26
C		0.55 / 14	0.55 / 14	0.55 / 14	0.55 / 14
D		1.97 / 50	1.97 / 50	1.97 / 50	1.97 / 50
E ₁		4.29 / 109	4.29 / 109	5.04 / 128	5.04 / 128
E ₂		2.87 / 73	2.87 / 73	3.62 / 92	3.62 / 92
F		0.24 / 6	0.24 / 6	0.24 / 6	0.24 / 6
G		2.60 / 66	—	2.60 / 66	—
H		3.50 / 89	—	3.50 / 89	—
L		5.28 / 134	5.28 / 134	6.06 / 153	6.06 / 153



2061731 / 2061931



2061632 / 2061832

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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URS - SQB1

Rated Voltage

Rated Breaking Test

Class

Standard(s)

[U_n]

Capacity

Voltage

aR

700V_{AC} - UL

200kA

660V_{AC}

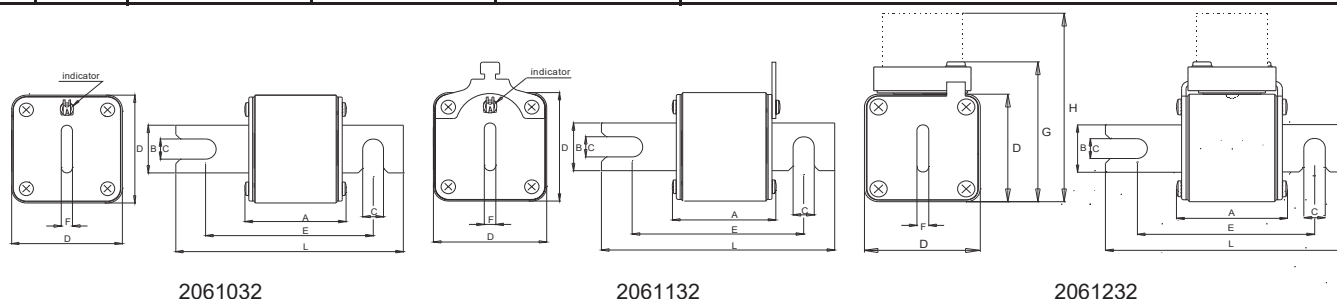
UL 248-13

IEC 60269-4

VDE 0636-4

UL File E180276

Rated current I _n [A]	UL rec	DIN 80mm With flap indicator Article Number	DIN 80mm With fitting for microswitch Article Number	DIN 80mm With fitting for microswitch Article Number	
50	✓	2061032.50	2061132.50	2061232.50	
63	✓	2061032.63	2061132.63	2061232.63	
80	✓	2061032.80	2061132.80	2061232.80	
100	✓	2061032.100	2061132.100	2061232.100	
125	✓	2061032.125	2061132.125	2061232.125	
160	✓	2061032.160	2061132.160	2061232.160	
200	✓	2061032.200	2061132.200	2061232.200	
250	✓	2061032.250	2061132.250	2061232.250	
315	✓	2061032.315	2061132.315	2061232.315	
350	✓	2061032.350	2061132.350	2061232.350	
400	✓	2061032.400	2061132.400	2061232.400	
450	✓	2061032.450	2061132.450	2061232.450	
500	✓	2061032.500	2061132.500	2061232.500	
550	✓	2061032.550	2061132.550	2061232.550	
630	✓	2061032.630	2061132.630	2061232.630	
700	✓	2061032.700 ¹	2061132.700 ¹	2061232.700 ¹	
800	✓	2061032.800 ¹	2061132.800 ¹	2061232.800 ¹	
900		2061032.900 ²	2061132.900 ²	2061232.900 ²	
¹) Tested @ 1.05U _n 690V-IEC, 700V-UL, ²) Tested @ 1.05U _n 600V-IEC, No-UL					
Weight [kg / 1]					
0.44 0.45 0.45					
Dimensions [in / mm]					
	A	1.87 / 47.5	1.87 / 47.5	1.87 / 47.5	
	B	1.02 / 26	1.02 / 26	1.02 / 26	
	C	0.43 / 11	0.43 / 11	0.43 / 11	
	D	1.97 / 50	1.97 / 50	1.97 / 50	
	E	3.00 / 76	3.00 / 76	3.00 / 76	
	F	0.24 / 6	0.24 / 6	0.24 / 6	
	G	—	—	2.60 / 66	
	H	—	—	3.50 / 89	
	L	4.29 / 109	4.29 / 109	4.29 / 109	



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base, UL E180276			Microswitch - NO-NC, UL E309038		
Fuse base - 80mm center, 900V, 630A	2131301	545	Standard level	2800201	540
Fuse base - 80mm center, 900V, 1250A	2131302		Low level	2800203	
			Standard level	2800114	541
			Low level	2801114	

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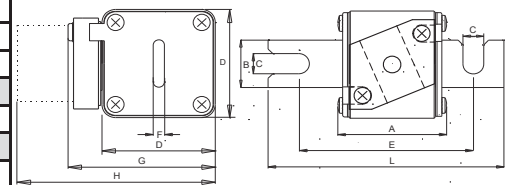
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e-mail: info@sibafuse.com

URS - SQB1	Rated Voltage [U _n]	Rated Breaking Test Class Capacity	Rated Voltage aR	Standard(s)
cUL[®] US	700V _{AC} - UL 690V _{AC} - IEC	200kA	660V _{AC}	UL 248-13 IEC 60269-4 VDE 0636-4
UL File E180276				

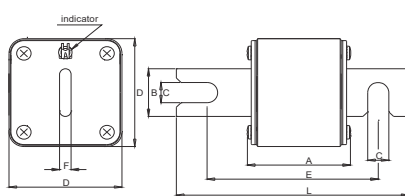
Rated current I _n [A]	UL rec	DIN 110mm With flap indicator Article Number	DIN 110mm With fitting for microswitch Article Number	DIN 110mm With fitting for microswitch Article Number	DIN 110mm With fitting for microswitch Article Number
50	✓	2061332.50	2061432.50	2061532.50	2066632.50
63	✓	2061332.63	2061432.63	2061532.63	2066632.63
80	✓	2061332.80	2061432.80	2061532.80	2066632.80
100	✓	2061332.100	2061432.100	2061532.100	2066632.100
125	✓	2061332.125	2061432.125	2061532.125	2066632.125
160	✓	2061332.160	2061432.160	2061532.160	2066632.160
200	✓	2061332.200	2061432.200	2061532.200	2066632.200
250	✓	2061332.250	2061432.250	2061532.250	2066632.250
315	✓	2061332.315	2061432.315	2061532.315	2066632.315
350	✓	2061332.350	2061432.350	2061532.350	2066632.350
400	✓	2061332.400	2061432.400	2061532.400	2066632.400
450	✓	2061332.450	2061432.450	2061532.450	2066632.450
500	✓	2061332.500	2061432.500	2061532.500	2066632.500
550	✓	2061332.550	2061432.550	2061532.550	2066632.550
630	✓	2061332.630	2061432.630	2061532.630	2066632.630
700	✓	2061332.700*	2061432.700*	2061532.700*	2066632.700*
800	✓	2061332.800*	2061432.800*	2061532.800*	2066632.800*
900		2061332.900*	2061432.900*	2061532.900*	2066632.900*

¹⁾ Tested @ 1.05U_n 690V-IEC, 700V-UL, ²⁾ Tested @ 1.05U_n 600V-IEC, No-UL

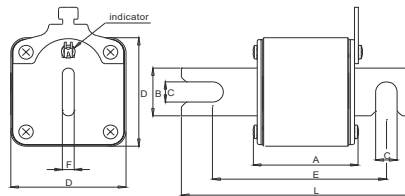
Weight [kg / 1]					
	0.48	0.49	0.49	0.49	
Dimensions [in / mm]					
A	1.87 / 47.5	1.87 / 47.5	1.87 / 47.5	1.87 / 47.5	
B	1.02 / 26	1.02 / 26	1.02 / 26	1.02 / 26	
C	0.43 / 11	0.43 / 11	0.43 / 11	0.43 / 11	
D	1.97 / 50	1.97 / 50	1.97 / 50	1.97 / 50	
E	4.17 / 106	4.17 / 106	4.17 / 106	4.17 / 106	
F	0.24 / 6	0.24 / 6	0.24 / 6	0.24 / 6	
G	—	2.60 / 66	2.60 / 66	2.60 / 66	
H	—	3.50 / 89	3.50 / 89	3.50 / 89	
L	5.28 / 134	5.28 / 134	5.28 / 134	5.28 / 134	



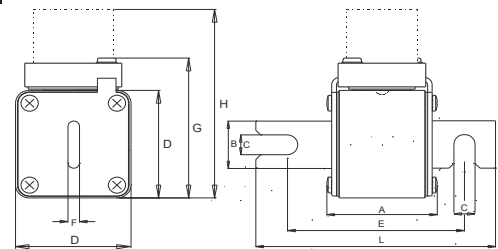
2066632 - "Special" - Microswitch rotated 90°



2061332



2061432



2061532

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base, UL E180276			Microswitch - NO-NC, UL E309038		
Fuse base - 110mm center, 1400V, 630A	2132301	545	Standard level	2800201	540
Fuse base - 110mm center, 1400V, 1250A	2132302		Low level	2800203	
			Standard level	2800114	541
			Low level	2801114	

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URS - SQB1

Rated Voltage

Rated Breaking Test

Class

Standard(s)

[U_n]

Capacity

Voltage

aR

700V_{AC} - UL

200kA

660V_{AC}

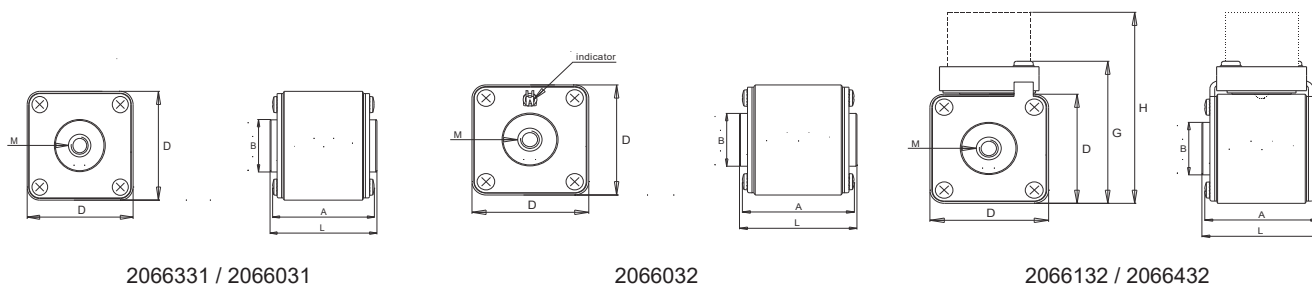
UL 248-13

IEC 60269-4

VDE 0636-4

UL File E180276

Rated current I _n [A]	UL rec	US - 5/16" UNC Without indicator Article Number	US - 5/16" UNC With fitting for microswitch Article Number	DIN M8 Without indicator Article Number	DIN M8 With flap indicator Article Number	DIN M8 With fitting for microswitch Article Number	
50	✓	2066331.50	2066432.50	2066031.50	2066032.50	2066132.50	
63	✓	2066331.63	2066432.63	2066031.63	2066032.63	2066132.63	
80	✓	2066331.80	2066432.80	2066031.80	2066032.80	2066132.80	
100	✓	2066331.100	2066432.100	2066031.100	2066032.100	2066132.100	
125	✓	2066331.125	2066432.125	2066031.125	2066032.125	2066132.125	
160	✓	2066331.160	2066432.160	2066031.160	2066032.160	2066132.160	
200	✓	2066331.200	2066432.200	2066031.200	2066032.200	2066132.200	
250	✓	2066331.250	2066432.250	2066031.250	2066032.250	2066132.250	
315	✓	2066331.315	2066432.315	2066031.315	2066032.315	2066132.315	
350	✓	2066331.350	2066432.350	2066031.350	2066032.350	2066132.350	
400	✓	2066331.400	2066432.400	2066031.400	2066032.400	2066132.400	
450	✓	2066331.450	2066432.450	2066031.450	2066032.450	2066132.450	
500	✓	2066331.500	2066432.500	2066031.500	2066032.500	2066132.500	
550	✓	2066331.550	2066432.550	2066031.550	2066032.550	2066132.550	
630	✓	2066331.630	2066432.630	2066031.630	2066032.630	2066132.630	
700	✓	2066331.700 ¹	2066432.700 ¹	2066031.700*	2066032.700*	2066132.700*	
800	✓	2066331.800 ¹	2066432.800 ¹	2066031.800*	2066032.800*	2066132.800*	
900	✓	2066331.900 ²	2066432.900 ²	2066031.900*	2066032.900*	2066132.900*	
¹) Tested @ 1.05U _n , 690V-IEC, 700V-UL, ²) Tested @ 1.05U _n , 600V-IEC, No-UL							
Weight [kg / 1]							
0.40 0.41 0.40 0.41 0.40							
Dimensions [in / mm]							
A 1.87 / 47.5 1.87 / 47.5 1.87 / 47.5 1.87 / 47.5 1.87 / 47.5							
B 0.94 / 24 0.94 / 24 0.94 / 24 0.94 / 24 0.94 / 24							
D 1.97 / 50 1.97 / 50 1.97 / 50 1.97 / 50 1.97 / 50							
G — 2.60 / 66 2.60 / 66 — —							
H — 3.50 / 89 3.50 / 89 — —							
L 2.00 / 51 2.00 / 51 2.00 / 51 2.00 / 51 2.00 / 51							
M 5/16" UNC M8							
Thread depth 0.39 / 10							
Torque max. - 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	

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URS - SQB1	Rated Voltage [U _n]	Rated Breaking Test Capacity	Class aR	Standard(s)
cRU[®] US	700V _{AC} - UL 690V _{AC} - IEC	200kA		UL 248-13 IEC 60269-4 VDE 0636-4
UL File E180276				

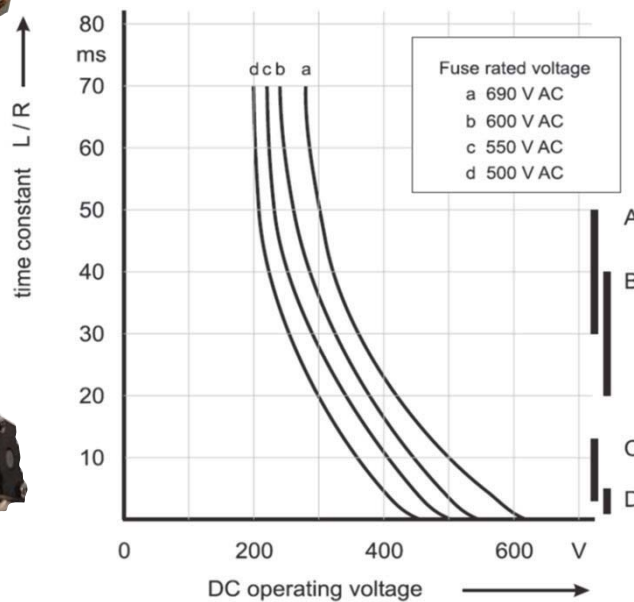
Rated current I _n [A]	Rated voltage [U _n] IEC 60269-4 [V]	Rated voltage [U _n] UL 248-13 [V]	Pre-arcing i ² t [A ² s]	Total i ² t @ 660V _{AC} [A ² s]	Power loss [W]
50	690	700	110	590	12
63	690	700	160	850	19
80	690	700	260	1 400	24
100	690	700	420	2 300	30
125	690	700	600	3 100	35
160	690	700	1 400	7 500	40
200	690	700	2 400	13 000	44
250	690	700	3 700	21 000	51
315	690	700	6 600	39 000	59
350	690	700	9 900	55 000	61
400	690	700	17 000	96 000	65
450	690	700	22 000	130 000	70
500	690	700	31 000	180 000	72
550	690	700	41 000	250 000	75
630	690	700	61 000	370 000	80
700	690*	700	86 000	490 000	85
800	690*	700	120 000	750 000	99
900	600*	—	170 000	990 000	105

* Tested @ 1.05xU_n

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



DC Application



The use under DC-Voltage needs to consider the following

- the DC-Circuit voltage
- the time constant
- the smallest fault current

typical applications

- A Traction
- B DC-Drives
- C Battery circuits
- D DC-Link, VSI, USV, PV



As a first assumption the minimum fault current should be 10 times the planned fuse rating. If smaller fault currents are expected our application engineers should be consulted.

URS - SQB1



UL File E180276

Rated Voltage

[U_n]700V_{AC} - UL690V_{AC} - IEC

Rated Breaking Test

Capacity

200kA

Voltage

660V_{AC}

Class

aR

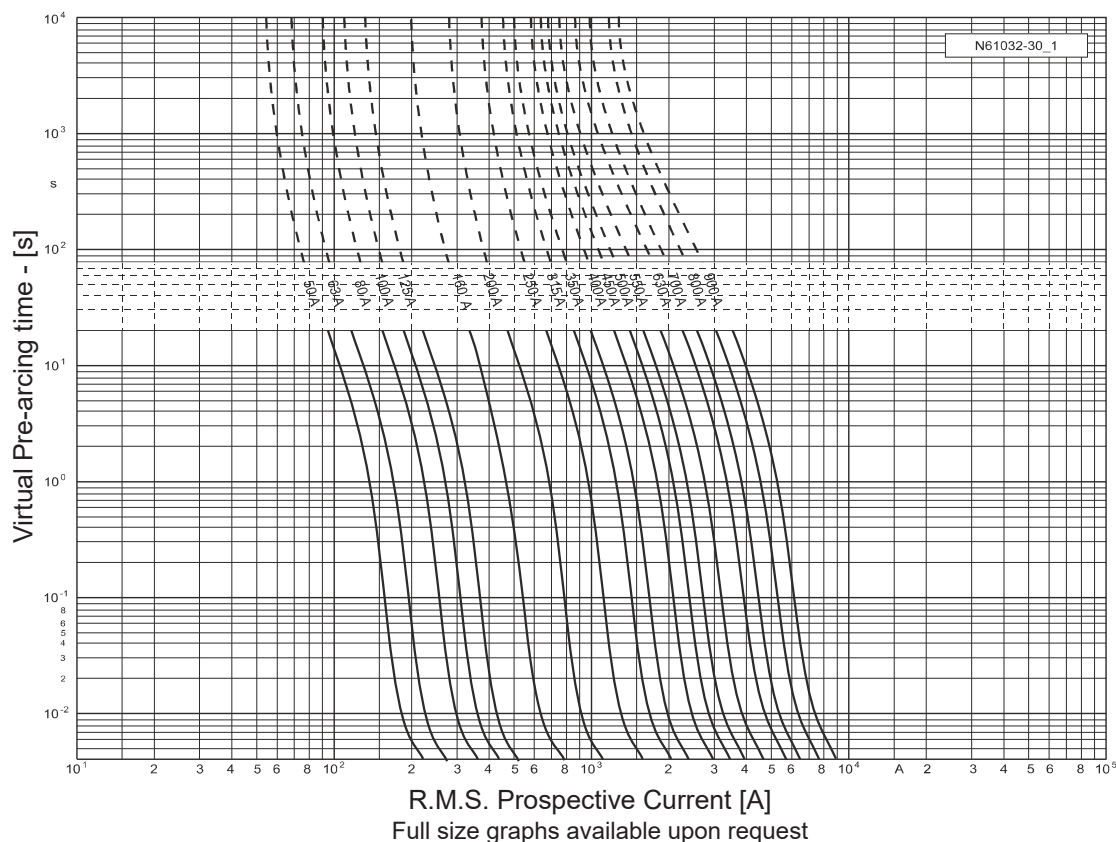
Standard(s)

UL 248-13

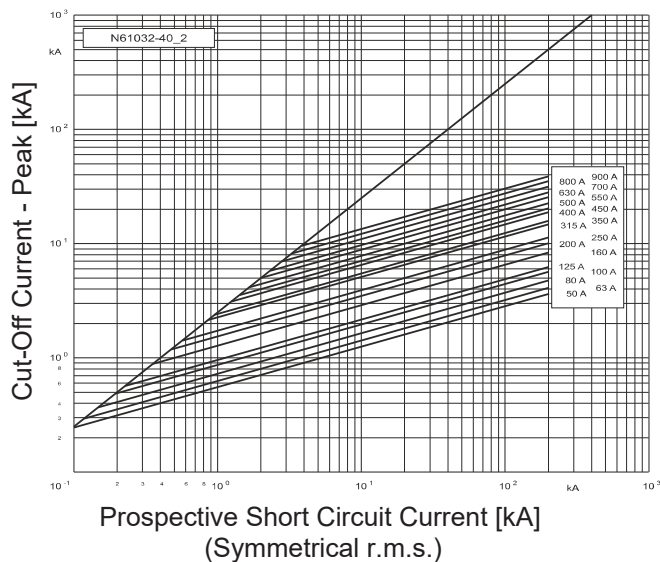
IEC 60269-4

VDE 0636-4

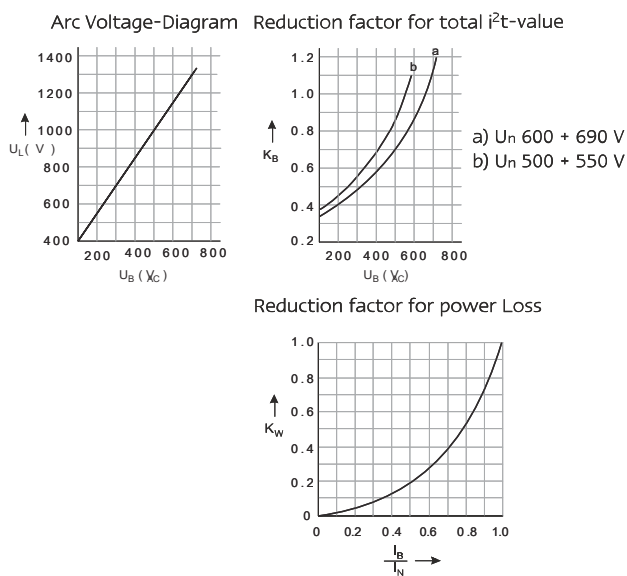
Time-Current Characteristics



Cut-Off Current Characteristics



Correction Curves

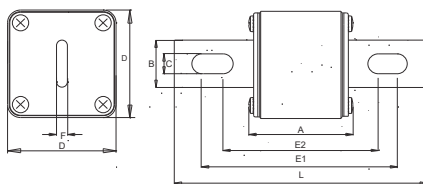


SIBA LLC

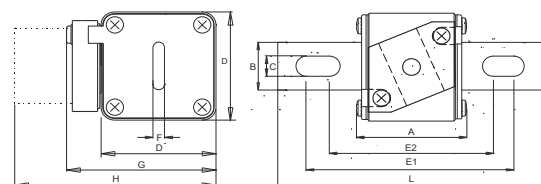
29 Fairfield Place
West Caldwell, New Jersey 07006Phone 1-973-575-7422
Fax 1-973-575-5858portal: www.siballc.net
e-mail: info@sibafuse.com

URS - SQB2	Rated Voltage [U _n]	Rated Breaking Test Capacity	Class aR	Standard(s)
cUL[®] US	700V _{AC} - UL 690V _{AC} - IEC	200kA		UL 248-13 IEC 60269-4 VDE 0636-4
UL File E180276				

Rated current I _n [A]	UL rec	US - Blade Short With fitting for microswitch Article Number	US - Blade Short Without indicator Article Number	US - Blade Long With fitting for microswitch Article Number	US - Blade Long Without indicator Article Number
250	✓	2062632.250	2062731.250	2062832.250	2062931.250
315	✓	2062632.315	2062731.315	2062832.315	2062931.315
350	✓	2062632.350	2062731.350	2062832.350	2062931.350
400	✓	2062632.400	2062731.400	2062832.400	2062931.400
450	✓	2062632.450	2062731.450	2062832.450	2062931.450
500	✓	2062632.500	2062731.500	2062832.500	2062931.500
550	✓	2062632.550	2062731.550	2062832.550	2062931.550
630	✓	2062632.630	2062731.630	2062832.630	2062931.630
700	✓	2062632.700	2062731.700	2062832.700	2062931.700
800	✓	2062632.800	2062731.800	2062832.800	2062931.800
900	✓	2062632.900 ¹	2062731.900 ¹	2062832.900 ¹	2062931.900 ¹
1 000	✓	2062632.1000 ²	2062731.1000 ²	2062832.1000 ²	2062931.1000 ²
1 100	✓	2062632.1100 ³	2062731.1100 ³	2062832.1100 ³	2062931.1100 ³
1 250		2062632.1250 ⁴	2062731.1250 ³	2062832.1250 ³	2062931.1250 ³
¹⁾ Tested @ 1.05U _n 690V-IEC, 700V-UL, ²⁾ Tested @ 1.05U _n 600V-IEC, 600-UL, ³⁾ Tested @ 1.05U _n 600V-IEC, 600-UL					
Weight [kg / 1]					
0.62 0.61 0.65 0.64					
Dimensions [in / mm]					
A		1.87 / 47.5	1.87 / 47.5	1.87 / 47.5	1.87 / 47.5
B		1.02 / 26	1.02 / 26	1.02 / 26	1.02 / 26
C		0.55 / 14	0.55 / 14	0.55 / 14	0.55 / 14
D		2.32 / 59	2.32 / 59	2.32 / 59	2.32 / 59
E ₁		4.29 / 109	4.29 / 109	5.04 / 128	5.04 / 128
E ₂		2.87 / 73	2.87 / 73	3.62 / 92	3.62 / 92
F		0.24 / 6	0.24 / 6	0.24 / 6	0.24 / 6
G		2.95 / 75	—	2.95 / 75	—
H		3.86 / 98	—	3.86 / 98	—
L		5.28 / 134	5.28 / 134	6.02 / 153	6.02 / 153



2062731 / 2062931



2062632 / 2062832

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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URS - SQB2

Rated Voltage

Rated Breaking Test

Class

Standard(s)

[U_n]

Capacity

Voltage

aR

UL 248-13

700V_{AC} - UL

200kA

660V_{AC}

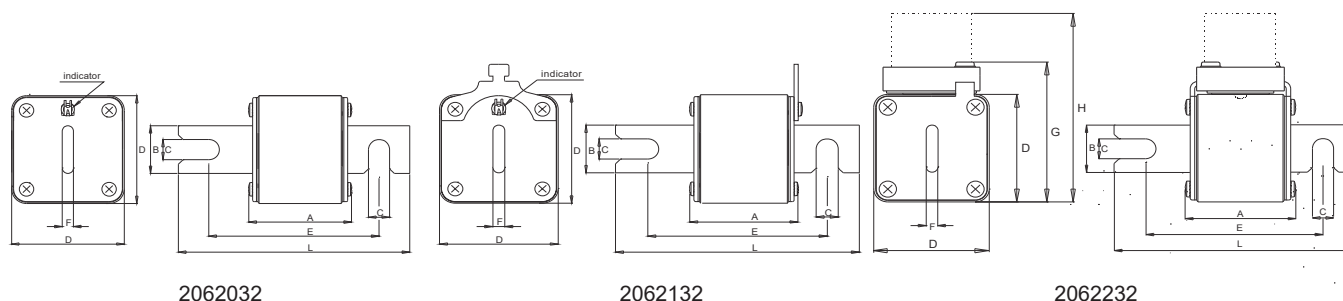
IEC 60269-4

690V_{AC} - IEC

VDE 0636-4

UL File E180276

Rated current I _n [A]	UL rec	DIN 80mm With flap indicator Article Number	DIN 80mm With fitting for microswitch Article Number	DIN 80mm With fitting for microswitch Article Number	
250	✓	2062032.250	2062132.250	2062232.250	
315	✓	2062032.315	2062132.315	2062232.315	
350	✓	2062032.350	2062132.350	2062232.350	
400	✓	2062032.400	2062132.400	2062232.400	
450	✓	2062032.450	2062132.450	2062232.450	
500	✓	2062032.500	2062132.500	2062232.500	
550	✓	2062032.550	2062132.550	2062232.550	
630	✓	2062032.630	2062132.630	2062232.630	
700	✓	2062032.700	2062132.700	2062232.700	
800	✓	2062032.800	2062132.800	2062232.800	
900	✓	2062032.900 ¹	2062132.900 ¹	2062232.900 ¹	
1 000	✓	2062032.1000 ²	2062132.1000 ²	2062232.1000 ²	
1 100	✓	2062032.1100 ²	2062132.1100 ²	2062232.1100 ²	
1 250		2062032.1250 ³	2062132.1250 ³	2062232.1250 ³	
¹⁾ Tested @ 1.05Un 690V-IEC, 700V-UL, ²⁾ Tested @ 1.05Un 600V-IEC, 600-UL, ³⁾ Tested @ 1.05Un 600V-IEC, 600-UL					
Weight [kg / 1]					
0.58 0.58 0.58					
Dimensions [in / mm]					
A 1.87 / 47.5 1.87 / 47.5 1.87 / 47.5					
B 1.02 / 26 1.02 / 26 1.02 / 26					
C 0.43 / 11 0.43 / 11 0.43 / 11					
D 2.32 / 59 2.32 / 59 2.32 / 59					
E 3.00 / 76 3.00 / 76 3.00 / 76					
F 0.24 / 6 0.24 / 6 0.24 / 6					
G — 2.95 / 75 2.95 / 75					
H — 3.86 / 98 3.86 / 98					
L 4.29 / 109 4.29 / 109 4.29 / 109					



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base, UL E180276			Microswitch - NO-NC, UL E309038		
Fuse base - 80mm center, 900V, 630A	2131301	545	Standard level	2800201	540
Fuse base - 80mm center, 900V, 1250A	2131302		Low level	2800203	
			Standard level	2800114	541
			Low level	2801114	

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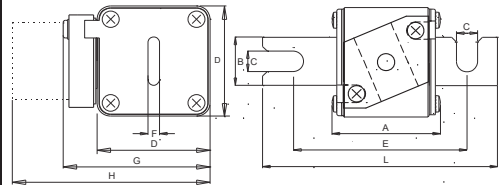
Phone 1-973-575-7422

Fax 1-973-575-5858

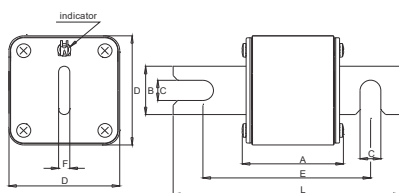
portal: www.siballc.net
e-mail: info@sibafuse.com

URS - SQB2	Rated Voltage [U _n]	Rated Breaking Test Capacity	Rated Breaking Test Voltage	Class aR	Standard(s)
	700V _{AC} - UL 690V _{AC} - IEC	200kA	660V _{AC}		UL 248-13 IEC 60269-4 VDE 0636-4
UL File E180276					

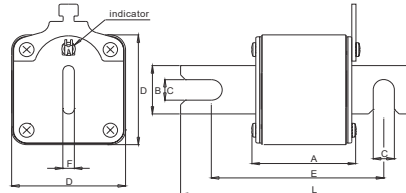
Rated current I _n [A]	UL rec	DIN 110mm With flap indicator Article Number	DIN 110mm With fitting for microswitch Article Number	DIN 110mm With fitting for microswitch Article Number	DIN 110mm With fitting for microswitch Article Number
250	✓	2062332.250	2062432.250	2062532.250	2067632.250
315	✓	2062332.315	2062432.315	2062532.315	2067632.315
350	✓	2062332.350	2062432.350	2062532.350	2067632.350
400	✓	2062332.400	2062432.400	2062532.400	2067632.400
450	✓	2062332.450	2062432.450	2062532.450	2067632.450
500	✓	2062332.500	2062432.500	2062532.500	2067632.500
550	✓	2062332.550	2062432.550	2062532.550	2067632.550
630	✓	2062332.630	2062432.630	2062532.630	2067632.630
700	✓	2062332.700	2062432.700	2062532.700	2067632.700
800	✓	2062332.800	2062432.800	2062532.800	2067632.800
900	✓	2062332.900 ¹	2062432.900 ¹	2062532.900 ¹	2067632.900 ¹
1 000	✓	2062332.1000 ²	2062432.1000 ²	2062532.1000 ²	2067632.1000 ²
1 100	✓	2062332.1100 ²	2062432.1100 ²	2062532.1100 ²	2067632.1100 ²
1 250	✓	2062332.1250 ³	2062432.1250 ³	2062532.1250 ³	2067632.1250 ³
¹) Tested @ 1.05Un 690V-IEC, 700V-UL, ²) Tested @ 1.05Un 600V-IEC, 600-UL, ³) Tested @ 1.05Un 600V-IEC, 600-UL					
Weight [kg / 1]					
0.60 0.63 0.63					
Dimensions [in / mm]					
A		1.87 / 47.5	1.87 / 47.5	1.87 / 47.5	1.87 / 47.5
B		1.02 / 26	1.02 / 26	1.02 / 26	1.02 / 26
C		0.43 / 11	0.43 / 11	0.43 / 11	0.43 / 11
D		2.32 / 59	2.32 / 59	2.32 / 59	2.32 / 59
E		4.17 / 106	4.17 / 106	4.17 / 106	4.17 / 106
F		0.24 / 6	0.24 / 6	0.24 / 6	0.24 / 6
G		—	2.95 / 75	2.95 / 75	2.95 / 75
H		—	3.86 / 98	3.86 / 98	3.86 / 98
L		5.28 / 134	5.28 / 134	5.28 / 134	5.28 / 134



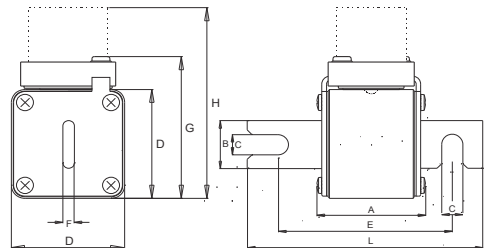
2067632 - "Special" - Microswitch rotated 90°



2062332



2062432



2062532

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base, UL E180276			Microswitch - NO-NC, UL E309038		
Fuse base - 110mm center, 1400V, 630A	2132301	545	Standard level	2800201	540
Fuse base - 110mm center, 2400V, 1250A	2132302		Low level	2800203	
			Standard level	2800114	541
			Low level	2801114	

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URS - SQB2

Rated Voltage

Rated Breaking Test

Class

Standard(s)

[U_n]

Capacity

Voltage

aR

UL 248-13

700V_{AC} - UL

200kA

660V_{AC}

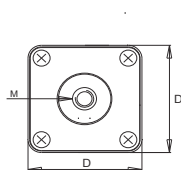
IEC 60269-4

690V_{AC} - IEC

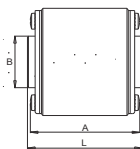
VDE 0636-4

UL File E180276

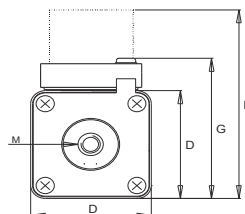
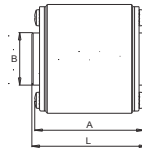
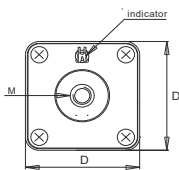
Rated current I _n [A]	UL rec	US - 3/8" UNC Without indicator Article Number	US - 3/8" UNC With fitting for microswitch Article Number	M10 With flap indicator Article Number	M10 With fitting for microswitch Article Number
250	✓	2067331.250	2067432.250	2067032.250	2067132.250
315	✓	2067331.315	2067432.315	2067032.315	2067132.315
350	✓	2067331.350	2067432.350	2067032.350	2067132.350
400	✓	2067331.400	2067432.400	2067032.400	2067132.400
450	✓	2067331.450	2067432.450	2067032.450	2067132.450
500	✓	2067331.500	2067432.500	2067032.500	2067132.500
550	✓	2067331.550	2067432.550	2067032.550	2067132.550
630	✓	2067331.630	2067432.630	2067032.630	2067132.630
700	✓	2067331.700	2067432.700	2067032.700	2067132.700
800	✓	2067331.800	2067432.800	2067032.800	2067132.800
900	✓	2067331.900 ¹	2067432.900 ¹	2067032.900 ¹	2067132.900 ¹
1 000	✓	2067331.1000 ²	2067432.1000 ²	2067032.1000 ²	2067132.1000 ²
1 100	✓	2067331.1100 ²	2067432.1100 ²	2067032.1100 ²	2067132.1100 ²
1 250	✓	2067331.1250 ³	2067432.1250 ³	2067032.1250 ³	2067132.1250 ³
¹⁾ Tested @ 1.05Un 690V-IEC, 700V-UL, ²⁾ Tested @ 1.05Un 600V-IEC, 600-UL, ³⁾ Tested @ 1.05Un 600V-IEC, 600-UL					
Weight [kg / 1]					
0.51 0.52 0.51 0.52					
Dimensions [in / mm]					
A 1.87 / 47.5 1.87 / 47.5 1.87 / 47.5 1.87 / 47.5					
B 0.94 / 24 0.94 / 24 0.94 / 24 0.94 / 24					
D 2.36 / 60 2.36 / 60 2.36 / 60 2.36 / 60					
G — 2.95 / 75 — 2.95 / 75					
H — 3.86 / 98 — 3.86 / 98					
L 2.00 / 50.5 2.00 / 50.5 2.00 / 50.5 2.00 / 50.5					
M 3/8" UNC M10					
Thread depth 0.39 / 10					
Torque max. - 39N•m / 28.7lb•ft					



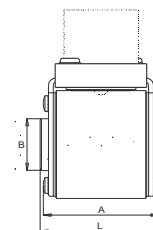
2067331



2067032



2067432 / 2067132



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
			Microswitch - N0-NC, UL E309038		
			Standard level	2800114	541
			Low level	2801114	

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URS - SQB2	Rated Voltage [U _n]	Rated Breaking Test Capacity	Class aR	Standard(s)
	700V _{AC} - UL 690V _{AC} - IEC	200kA		UL 248-13 IEC 60269-4 VDE 0636-4
UL File E180276				

Rated current I _n [A]	Rated voltage [U _n] IEC 60269-4 [V]	Rated voltage [U _n] UL 248-13 [V]	Pre-arcing I ² t [A ² s]	Total I ² t @ 660V _{AC} [A ² s]	Power loss [W]
250	690	—	5 600	32 000	65
315	690	—	7 800	45 000	75
350	690	—	11 800	68 000	80
400	690	700	13 000	75 000	65
450	690	700	18 000	110 000	75
500	690	700	26 000	150 000	80
550	690	700	36 000	195 000	85
630	690	700	55 000	300 000	94
700	690	700	74 000	410 000	99
800	690	700	100 000	580 000	108
900	690*	700	170 000	950 000	111
1 000	690*	600	230 000	1 260 000	115
1 100	600*	600	290 000	1 600 000	130
1 250	600*	—	370 000	2 140 000	140

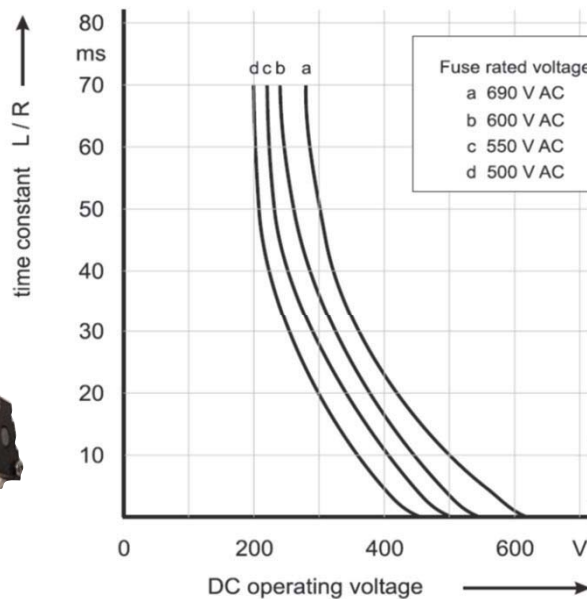
* Tested @ 1.05xU_n

Coefficients for Heavy Duty Applications

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



DC Application



The use under DC-Voltage needs to consider the following

- the DC-Circuit voltage
- the time constant
- the smallest fault current

typical applications

- A Traction
- B DC-Drives
- C Battery circuits
- D DC-Link, VSI, USV, PV



As a first assumption the minimum fault current should be 10 times the planned fuse rating. If smaller fault currents are expected our application engineers should be consulted.

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URS - SQB2



UL File E180276

Rated Voltage

[U_n]700V_{AC} - UL690V_{AC} - IEC

Rated Breaking Test

Capacity

200kA

Voltage

660V_{AC}

Class

aR

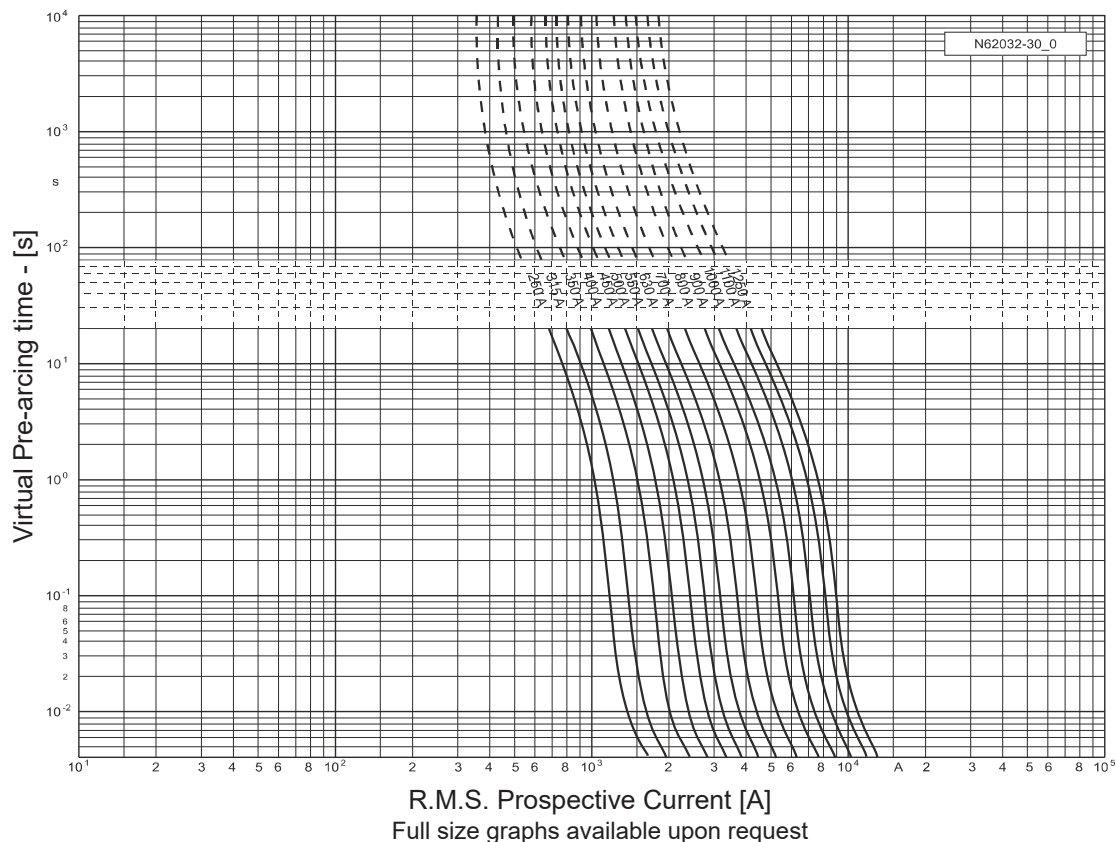
Standard(s)

UL 248-13

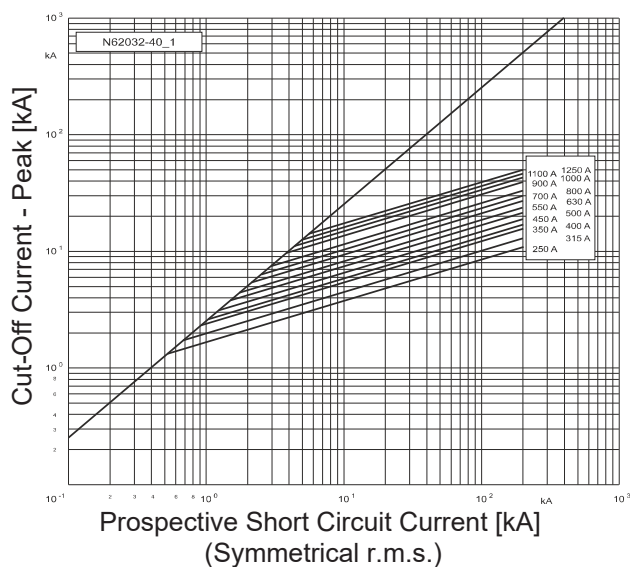
IEC 60269-4

VDE 0636-4

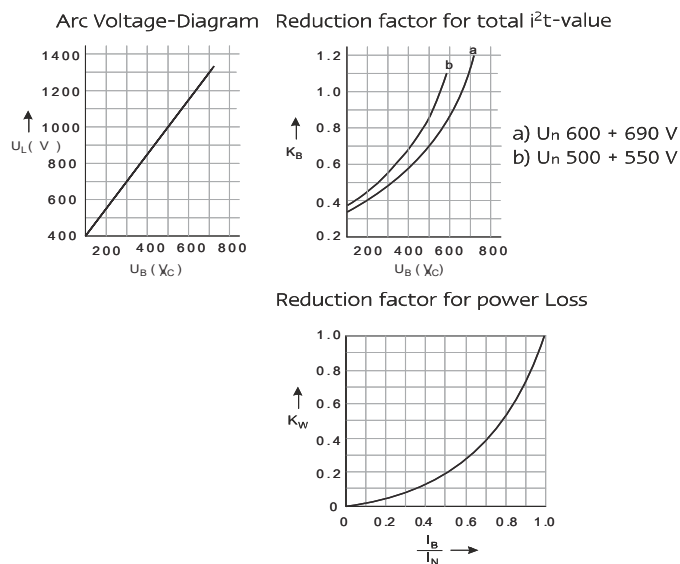
Time-Current Characteristics



Cut-Off Current Characteristics



Correction Curves



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URS - SQB2x2	Rated Voltage [U _n] 690V _{AC}	Rated Breaking Test Capacity 200kA	Class aR	Standard(s) IEC 60269-4 VDE 0636-4
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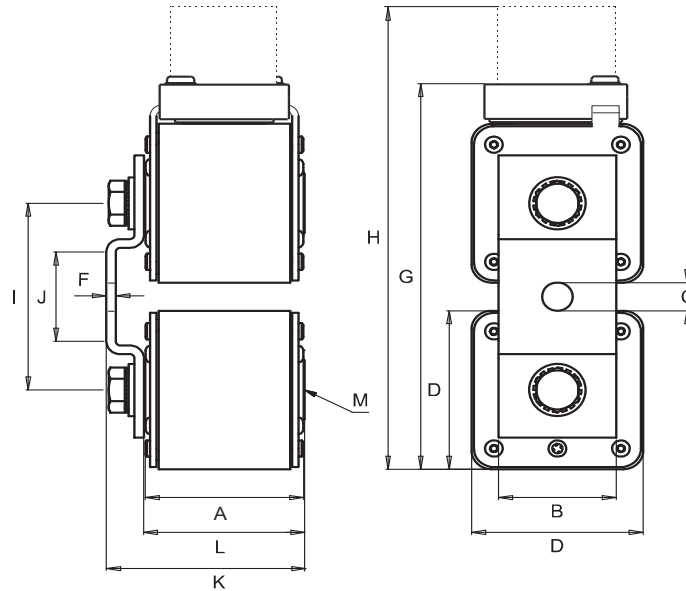
DIN 43653

Rated current I _n [A]	M10 With fitting for microswitch Article Number	Rated voltage [U _n] IEC 60269-4 [V]	Rated voltage [U _n] UL 248-13 [V]		Pre-arcing I ² t [A ² s]	Total I ² t @ 660V _{AC} [A ² s]	Power loss [W]
800	2067832.800	690	—		52 000	300 000	136
1 000	2067832.1000	690	—		104 000	600 000	168
1 250	2067832.1250	690	—		220 000	1 200 000	197
1 400	2067832.1400	690	—		296 000	1 264 000	208
1 600	2067832.1600	690	—		400 000	2 320 000	229
Weight [kg / 1]							
1.02							

Coefficients for Heavy Duty Applications

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

Dimensions [in / mm]	
A	1.87 / 47.5
B	1.77 / 45
C	0.43 / 11
D	2.32 / 59
F	0.16 / 4
G	5.78 / 147
H	6.69 / 170
I	2.83 / 72
J	1.38 / 35
K	2.64 / 67
L	2.00 / 51
M	M10 Thread depth 0.39 / 10
Torque max. - 39N•m / 28.7lb•ft	



For DC Application see page



Accessories

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

URS - SQB2x2

Rated Voltage

[U_n]690V_{AC}

Rated Breaking Test Class

Capacity

200kA

Voltage

660V_{AC}

aR

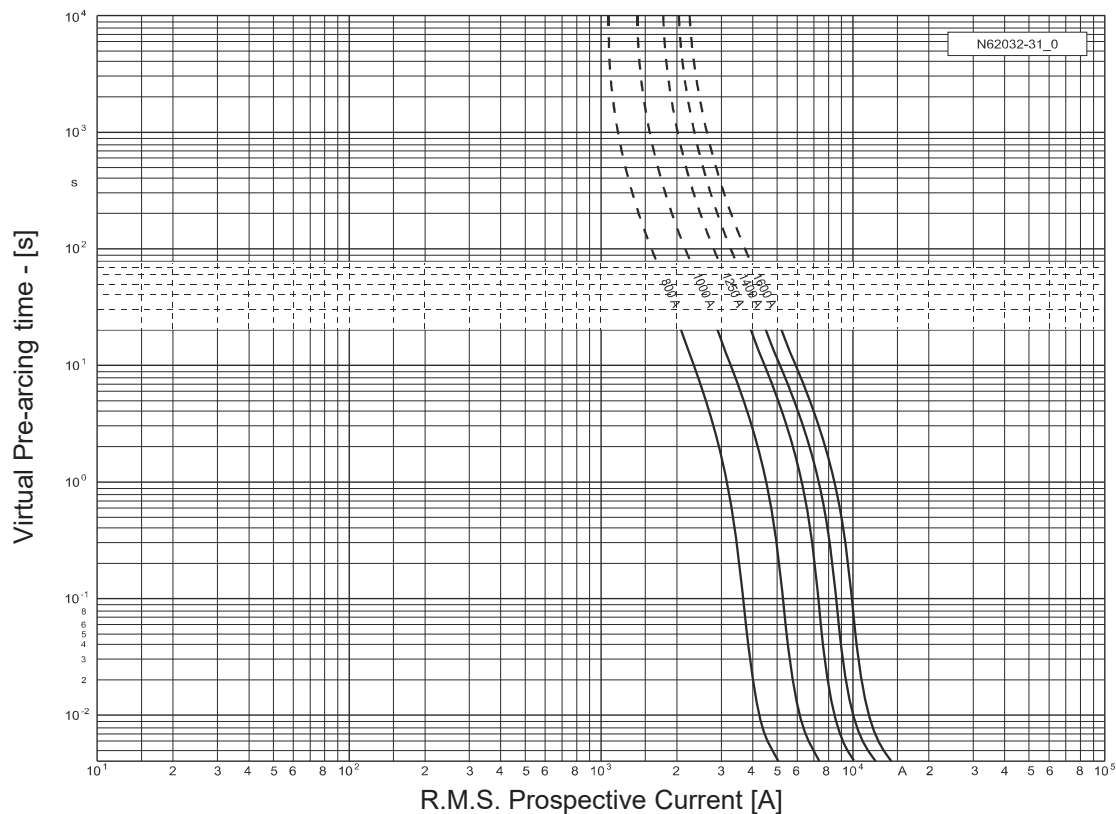
Standard(s)

IEC 60269-4

VDE 0636-4

DIN 43653

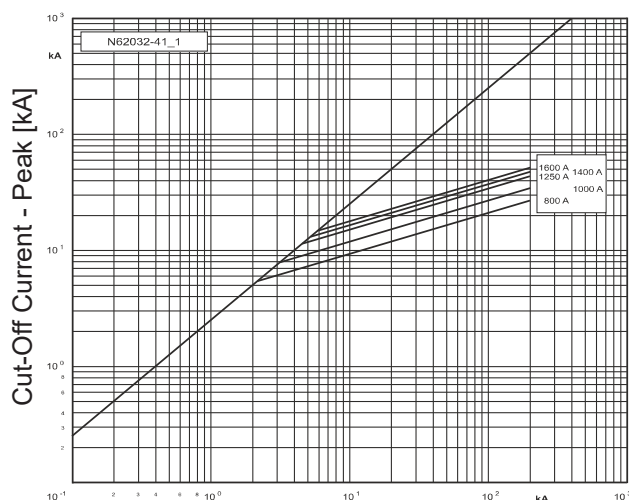
Time-Current Characteristics



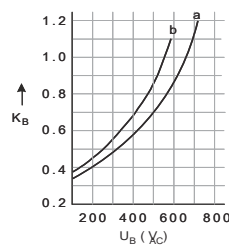
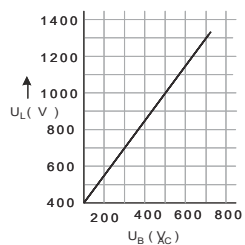
R.M.S. Prospective Current [A]

Full size graphs available upon request

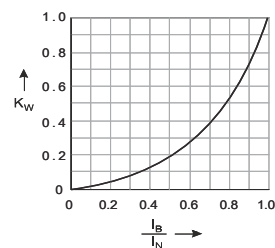
Cut-Off Current Characteristics

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

Correction Curves

Arc Voltage-Diagram Reduction factor for total i²t-valuea) U_n 600 + 690 V
b) U_n 500 + 550 V

Reduction factor for power Loss



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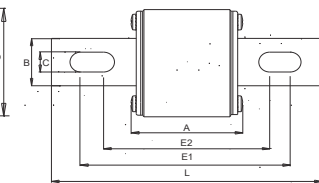
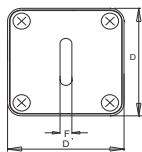
Phone 1-973-575-7422

Fax 1-973-575-5858

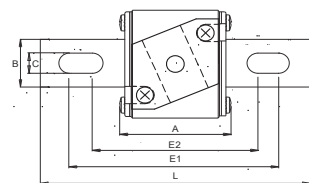
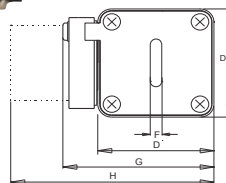
portal: www.siballc.nete-mail: info@sibafuse.com

URS - SQB3	Rated Voltage [U _n]	Rated Breaking Test Class Capacity	Standard(s)
	700V _{AC} - UL 690V _{AC} - IEC	200kA	UL 248-13 IEC 60269-4 VDE 0636-4
UL File E180276			

Rated current I _n [A]	UL rec	US - Blade Short With fitting for microswitch Article Number	US - Blade Short Without indicator Article Number	US - Blade Long With fitting for microswitch Article Number	US - Blade Long Without indicator Article Number
500	✓	2063632.500	2063731.500	2063832.500	2063931.500
550	✓	2063632.550	2063731.550	2063832.550	2063931.550
630	✓	2063632.630	2063731.630	2063832.630	2063931.630
700	✓	2063632.700	2063731.700	2063832.700	2063931.700
800	✓	2063632.800	2063731.800	2063832.800	2063931.800
900	✓	2063632.900	2063731.900	2063832.900	2063931.900
1 000	✓	2063632.1000	2063731.1000	2063832.1000	2063931.1000
1 100	✓	2063632.1100	2063731.1100	2063832.1100	2063931.1100
1 250	✓	2063632.1250 ¹	2063731.1250 ¹	2063832.1250 ¹	2063931.1250 ¹
1 400	✓	2063632.1400 ¹	2063731.1400 ¹	2063832.1400 ¹	2063931.1400 ¹
1 500		2063632.1500 ²	2063731.1500 ²	2063832.1500 ²	2063931.1500 ²
1 600		2063632.1600 ²	2063731.1600 ²	2063832.1600 ²	2063931.1600 ²
1 800		2063632.1800	2063731.1800	2063832.1800	2063931.1800
¹) Tested @ 1.05Un 690V-IEC, 700V-UL, ²) Tested @ 1.05Un 600V-IEC, No-UL					
Weight [kg / 1]					
0.95 0.94					
Dimensions [in / mm]					
A		1.93 / 49	1.93 / 49	1.93 / 49	1.93 / 49
B		1.38 / 35	1.38 / 35	1.38 / 35	1.38 / 35
C		0.63 / 16	0.63 / 16	0.63 / 16	0.63 / 16
D		2.87 / 73	2.87 / 73	2.87 / 73	2.87 / 73
E ₁		4.29 / 109	4.29 / 109	5.04 / 128	5.04 / 128
E ₂		2.95 / 75	2.95 / 75	3.70 / 94	3.70 / 94
F		0.24 / 6	0.24 / 6	0.24 / 6	0.24 / 6
G		3.46 / 88	—	3.46 / 88	—
H		4.37 / 111	—	4.37 / 111	—
L		5.28 / 134	5.28 / 134	6.02 / 153	6.02 / 153



2063731 / 2063931



2063632 / 2063832

Accessories

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

URS - SQB3

Rated Voltage

Rated Breaking Test

Class

Standard(s)

[U_n]

Capacity

Voltage

aR

UL 248-13

700V_{AC} - UL

200kA

660V_{AC}

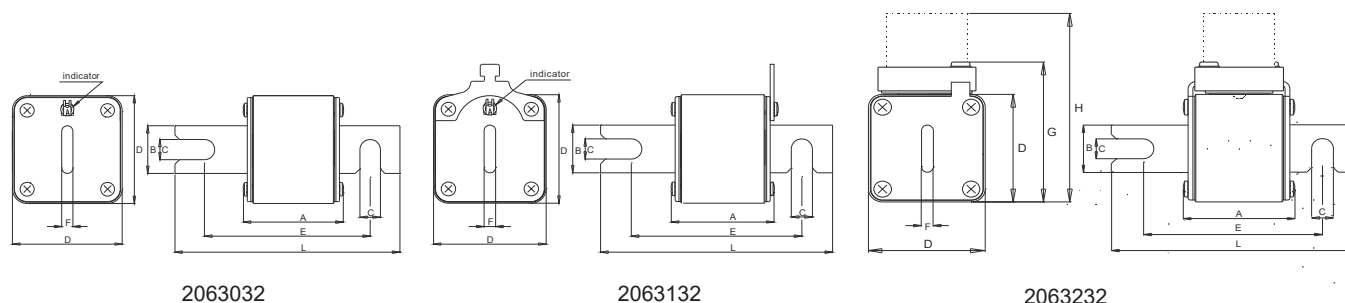
IEC 60269-4

690V_{AC} - IEC

VDE 0636-4

UL File E180276

Rated current I _n [A]	UL rec	DIN 80mm With flap indicator Article Number	DIN 80mm With fitting for microswitch Article Number	DIN 80mm With fitting for microswitch Article Number	
500	✓	2063032.500	2063132.500	2063232.500	
550	✓	2063032.550	2063132.550	2063232.550	
630	✓	2063032.630	2063132.630	2063232.630	
700	✓	2063032.700	2063132.700	2063232.700	
800	✓	2063032.800	2063132.800	2063232.800	
900	✓	2063032.900	2063132.900	2063232.900	
1 000	✓	2063032.1000	2063132.1000	2063232.1000	
1 100	✓	2063032.1100	2063132.1100	2063232.1100	
1 250	✓	2063032.1250 ¹	2063132.1250 ¹	2063232.1250 ¹	
1 400	✓	2063032.1400 ¹	2063132.1400 ¹	2063232.1400 ¹	
1 500		2063032.1500 ²	2063132.1500 ²	2063232.1500 ²	
1 600		2063032.1600 ²	2063132.1600 ²	2063232.1600 ²	
1 800		2063032.1800	2063132.1800	2063232.1800	
¹) Tested @ 1.05Un 690V-IEC, 700V-UL, ²) Tested @ 1.05Un 600V-IEC, No-UL					
Weight [kg / 1]					
0.70 0.70 0.70					
Dimensions [in / mm]					
A		1.93 / 49	1.93 / 49	1.93 / 49	
B		1.38 / 35	1.38 / 35	1.38 / 35	
C		0.43 / 11	0.43 / 11	—	
D		2.87 / 73	2.87 / 73	2.87 / 73	
E		3.00 / 76	3.00 / 76	3.00 / 76	
F		0.24 / 6	0.24 / 6	0.24 / 6	
G		—	—	3.46 / 88	
H		—	—	4.37 / 111	
L		4.29 / 109	4.29 / 109	4.29 / 109	



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base, UL E180276			Microswitch - NO-NC, UL E309038		
Fuse base - 80mm center, 900V, 630A	2131301	545	Standard level	2800201	540
Fuse base - 80mm center, 900V, 1250A	2131302		Low level	2800203	
			Standard level	2800114	541
			Low level	2801114	

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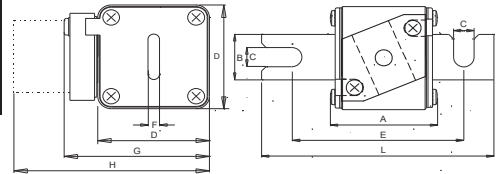
Phone 1-973-575-7422

Fax 1-973-575-5858

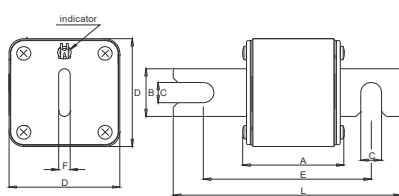
portal: www.siballc.net
e-mail: info@sibafuse.com

URS - SQB3	Rated Voltage [U _n]	Rated Breaking Test Capacity	Class aR	Standard(s)
cUL US	700V _{AC} - UL 690V _{AC} - IEC	200kA		UL 248-13 IEC 60269-4 VDE 0636-4
UL File E180276				

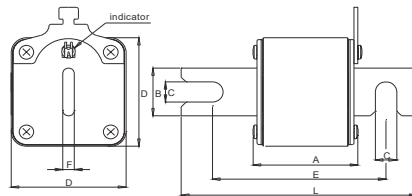
Rated current I _n [A]	UL rec	DIN 110mm With flap indicator Article Number	DIN110mm With fitting for microswitch Article Number	DIN 110mm With fitting for microswitch Article Number	DIN 110mm With fitting for microswitch Article Number
500	✓	2063332.500	2063432.500	2063532.500	2068632.500
550	✓	2063332.550	2063432.550	2063532.550	2068632.550
630	✓	2063332.630	2063432.630	2063532.630	2068632.630
700	✓	2063332.700	2063432.700	2063532.700	2068632.700
800	✓	2063332.800	2063432.800	2063532.800	2068632.800
900	✓	2063332.900	2063432.900	2063532.900	2068632.900
1 000	✓	2063332.1000	2063432.1000	2063532.1000	2068632.1000
1 100	✓	2063332.1100	2063432.1100	2063532.1100	2068632.1100
1 250	✓	2063332.1250 ¹	2063432.1250 ¹	2063532.1250 ¹	2068632.1250 ¹
1 400	✓	2063332.1400 ¹	2063432.1400 ¹	2063532.1400 ¹	2068632.1400 ¹
1 500		2063332.1500 ²	2063432.1500 ²	2063532.1500 ²	2068632.1500 ²
1 600		2063332.1600 ²	2063432.1600 ²	2063532.1600 ²	2068632.1600 ²
1 800		2063332.1800	2063432.1800	2063532.1800	2068632.1800
¹) Tested @ 1.05Un 690V-IEC, 700V-UL, ²) Tested @ 1.05Un 600V-IEC, No-UL					
Weight [kg / 1]					
0.80 0.80 0.80 0.80					
Dimensions [in / mm]					
A		1.93 / 49	1.93 / 49	1.93 / 49	1.93 / 49
B		1.38 / 35	1.38 / 35	1.38 / 35	1.38 / 35
C		0.43 / 11	0.43 / 11	0.43 / 11	0.43 / 11
D		2.87 / 73	2.87 / 73	2.87 / 73	2.87 / 73
E		4.17 / 106	4.17 / 106	4.17 / 106	4.17 / 106
F		0.24 / 6	0.24 / 6	0.24 / 6	0.24 / 6
G		—	—	3.46 / 88	3.46 / 88
H		—	—	4.37 / 111	4.37 / 111
L		5.28 / 134	5.28 / 134	5.28 / 134	5.28 / 134



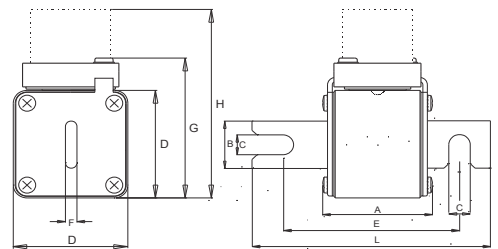
2068632 - "Special" - Microswitch rotated 90°



2063332



2063432



2063532

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base, UL E180276			Microswitch - NO-NC, UL E309038		
Fuse base - 110mm center, 1400V, 630A	2132301	545	Standard level	2800201	540
Fuse base - 110mm center, 2400V, 1250A	2132302		Low level	2800203	
			Standard level	2800114	541
			Low level	2801114	

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URS - SQB3

Rated Voltage

Rated Breaking Test

Class

Standard(s)

[U_n]

Capacity

Voltage

aR

UL 248-13

700V_{AC} - UL

200kA

660V_{AC}

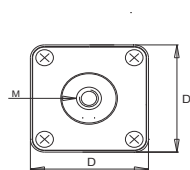
IEC 60269-4

690V_{AC} - IEC

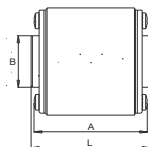
VDE 0636-4

UL File E180276

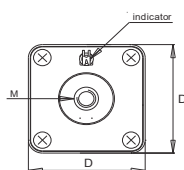
Rated current I _n [A]	UL rec	US - 1/2" UNC Without indicator	US - 1/2" UNC With fitting for microswitch	M12 With flap indicator	M12 With fitting for microswitch		
		Article Number	Article Number	Article Number	Article Number		
500	✓	2068331.500	2068432.500	2068032.500	2068132.500		
550	✓	2068331.550	2068432.550	2068032.550	2068132.550		
630	✓	2068331.630	2068432.630	2068032.630	2068132.630		
700	✓	2068331.700	2068432.700	2068032.700	2068132.700		
800	✓	2068331.800	2068432.800	2068032.800	2068132.800		
900	✓	2068331.900	2068432.900	2068032.900	2068132.900		
1 000	✓	2068331.1000	2068432.1000	2068032.1000	2068132.1000		
1 100	✓	2068331.1100	2068432.1100	2068032.1100	2068132.1100		
1 250	✓	2068331.1250 ¹	2068432.1250 ¹	2068032.1250 ¹	2068132.1250 ¹		
1 400	✓	2068331.1400 ¹	2068432.1400 ¹	2068032.1400 ¹	2068132.1400 ¹		
1 500		2068331.1500 ²	2068432.1500 ²	2068032.1500 ²	2068132.1500 ²		
1 600		2068331.1600 ²	2068432.1600 ²	2068032.1600 ²	2068132.1600 ²		
1 800		2068331.1800	2068432.1800	2068032.1800	2068132.1800		
¹⁾ Tested @ 1.05Un 690V-IEC, 700V-UL, ²⁾ Tested @ 1.05Un 600V-IEC, No-UL							
Weight [kg / 1]							
		0.84	0.84	0.84	0.84		
Dimensions [in / mm]							
A		1.93 / 49	1.93 / 49	1.93 / 49	1.93 / 49		
B		1.10 / 28	1.10 / 28	1.10 / 28	1.10 / 28		
D		2.87 / 73	2.87 / 73	2.87 / 73	2.87 / 73		
G		—	3.46 / 88	3.46 / 88	3.46 / 88		
H		—	4.37 / 111	4.37 / 111	4.37 / 111		
L		2.00 / 50.5	2.00 / 50.5	2.00 / 50.5	2.00 / 50.5		
M		1/2-UNC		M12			
		Thread depth 0.47 / 12					
		Torque max. - 52N•m / 38.3lb•ft					



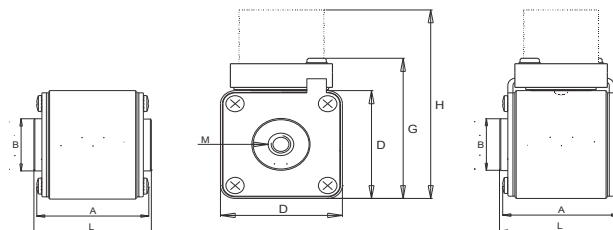
2068331



2068032



2068432 / 2068132



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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URS - SQB3	Rated Voltage [U _n]	Rated Breaking Test Capacity	Class aR	Standard(s)
	700V _{AC} - UL 690V _{AC} - IEC	200kA		UL 248-13 IEC 60269-4 VDE 0636-4
UL File E180276				

Rated current I _n [A]	Rated voltage [U _n] IEC 60269-4 [V]	Rated voltage [U _n] UL 248-13 [V]	Pre-arcing I ² t [A ² s]	Total I ² t @ 660V _{AC} [A ² s]	Power loss [W]
500	690	700	18 000	100 000	90
550	690	700	22 000	130 000	100
630	690	700	32 000	190 000	108
700	690	700	50 000	300 000	113
800	690	700	85 000	480 000	118
900	690	700	115 000	660 000	120
1 000	690	700	140 000	860 000	131
1 100	690	700	210 000	1 200 000	136
1 250	690*	700	290 000	1 750 000	147
1 400	690*	700	380 000	2 200 000	161
1 500	600*	—	490 000	3 000 000	171
1 600	600*	—	590 000	3 700 000	190
1 800	450	—	903 000	4 300 000	200

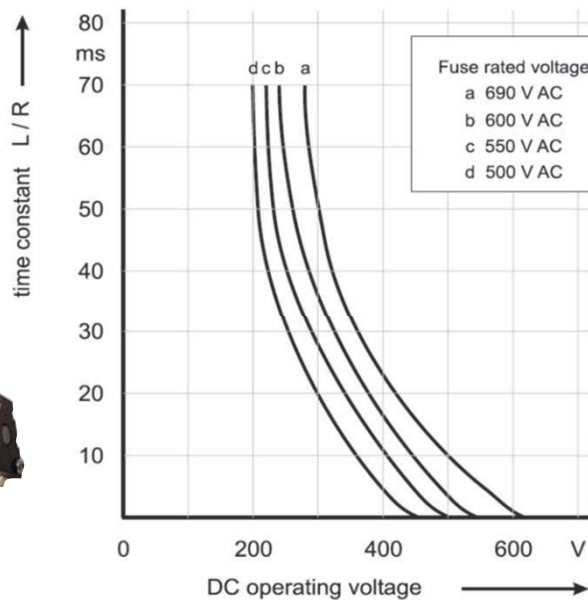
* Tested @ 1.05xU_n

Coefficients for Heavy Duty Applications

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



DC Application



The use under DC-Voltage needs to consider the following

- the DC-Circuit voltage
- the time constant
- the smallest fault current

typical applications

- A Traction
- B DC-Drives
- C Battery circuits
- D DC-Link, VSI, USV, PV



As a first assumption the minimum fault current should be 10 times the planned fuse rating. If smaller fault currents are expected our application engineers should be consulted.

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URS - SQB3

Rated Voltage

Rated Breaking Test

Class

Standard(s)

[U_n]

Capacity

Voltage

aR

700V_{AC} - UL

200kA

660V_{AC}

UL 248-13

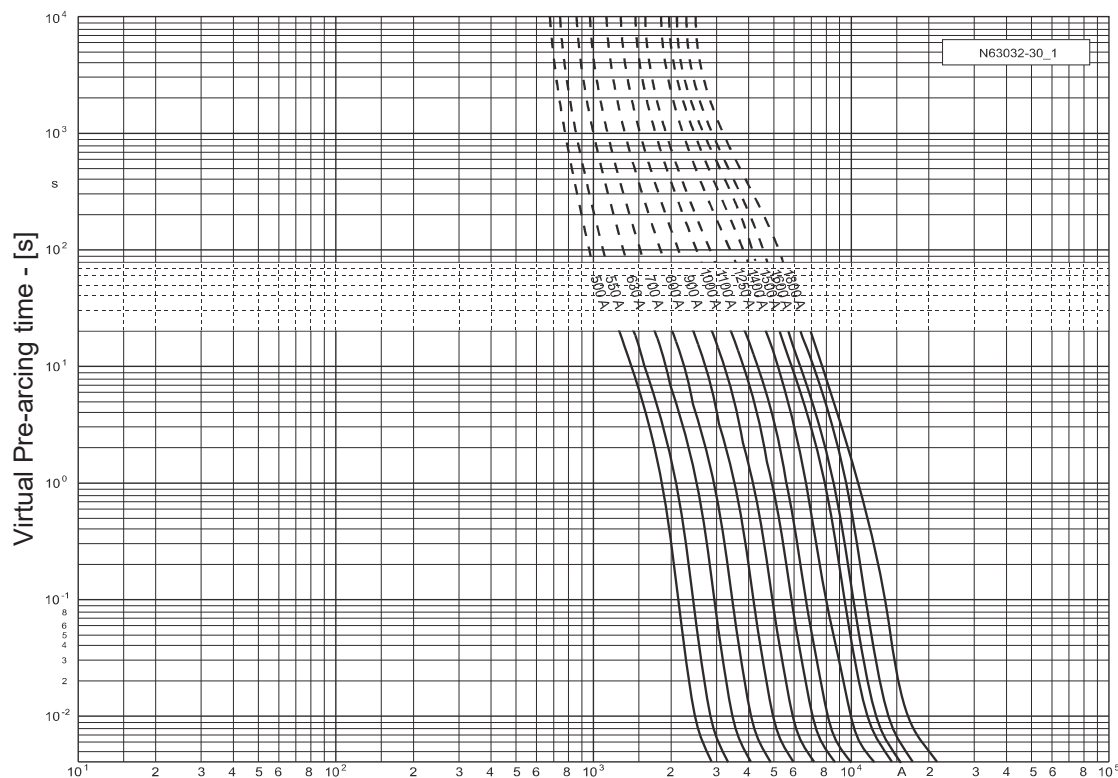
IEC 60269-4

VDE 0636-4

690V_{AC} - IEC

UL File E180276

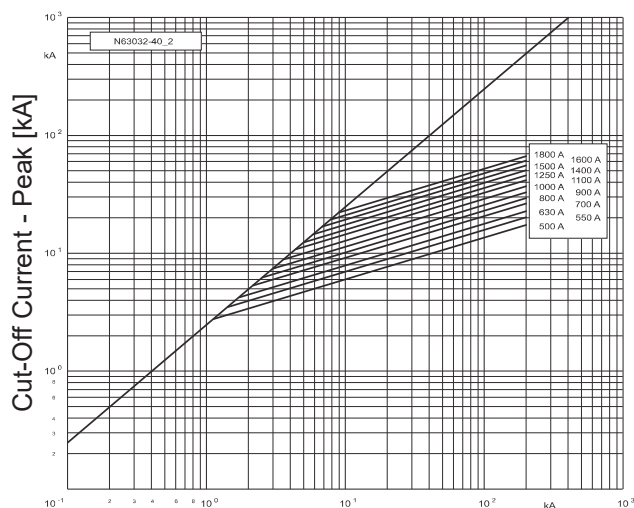
Time-Current Characteristics



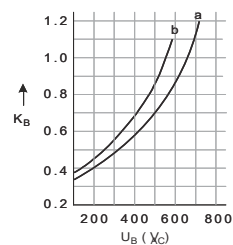
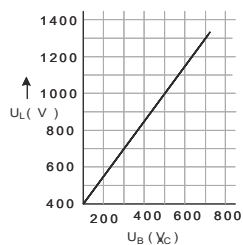
R.M.S. Prospective Current [A]

Full size graphs available upon request

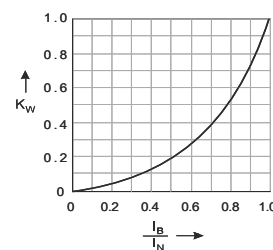
Cut-Off Current Characteristics

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

Correction Curves

Arc Voltage-Diagram Reduction factor for total i²t-valuea) U_n 600 + 690 V
b) U_n 500 + 550 V

Reduction factor for power Loss



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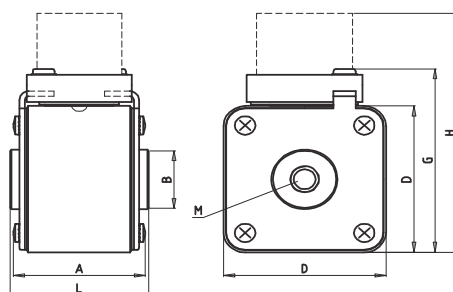
portal: www.siballc.nete-mail: info@sibafuse.com

URS - SQB3-70	Rated Voltage	Rated Breaking Test		Class	Standard(s)
	[U _n]	Capacity	Voltage	aR	IEC 60269-4
	550V _{AC}	200kA	@ U _n		VDE 0636-4

DIN 43653

Rated current I_n [A]	SQB3-70-M12 With fitting for microswitch Article Number	Rated voltage [U _n] IEC 60269-4 [V]	Rated voltage [U _n] UL 248-13 [V]		Pre-arcing I^2t [A²s]	Total I^2t @ rated voltage [A²s]	Power loss [W]
1 800	2068152.1800	550	—		795 000	3 720 000	225
2 000	2068152.2000	550	—		1 000 000	4 950 000	250
2 250	2068152.2250	500	—		1 190 000	6 000 000	275
	Weight [kg / 1]						
	0.89						
	Dimensions [in / mm]						
A	1.93 / 49						
B	1.10 / 28						
D	2.87 / 73						
G	3.46 / 88						
H	4.37 / 111						
L	2.32 / 59						
M	M12 Thread depth 0.39 / 10						
Torque max. - 52N•m / 38.3lb•ft							

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



2068152



For DC Application see page 436

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
			Microswitch - N0-NC, UL E309038		
			Standard level	2800114	541
			Low level	2801114	

URS - SQB3-70

Rated Voltage

[U_n]550V_{AC}

Rated Breaking Test

Capacity

200kA

Voltage

@ U_n

Class

aR

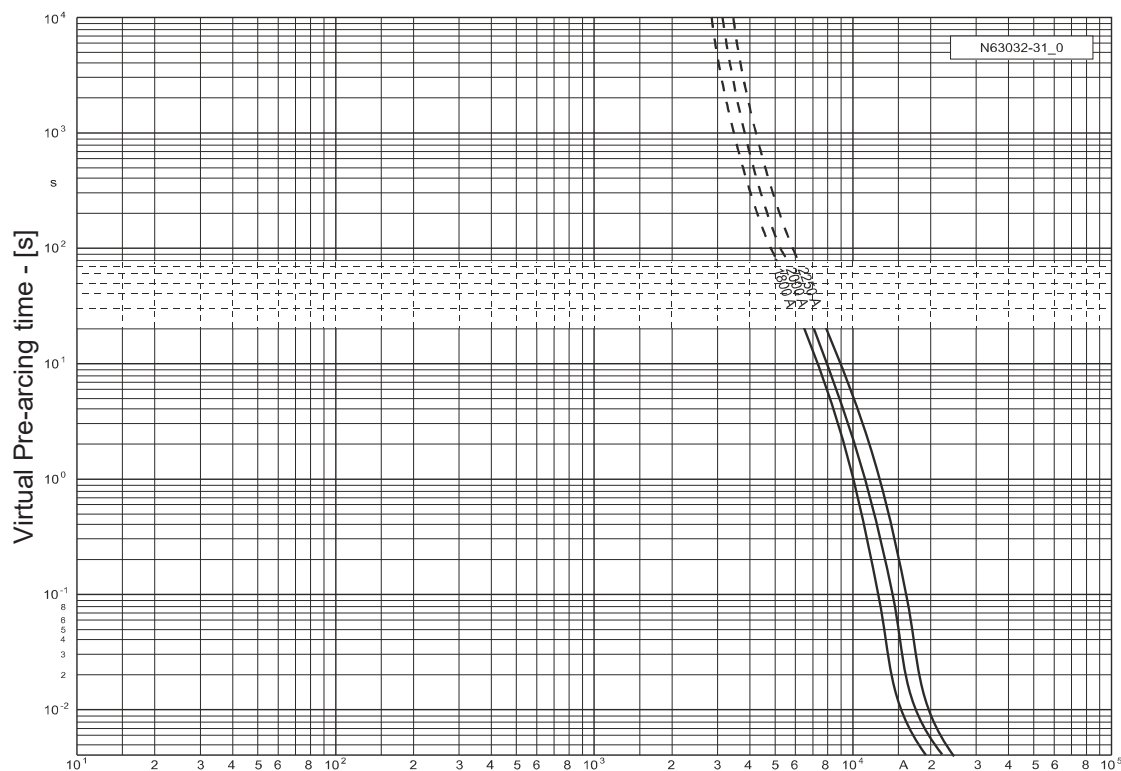
Standard(s)

IEC 60269-4

VDE 0636-4

DIN 43653

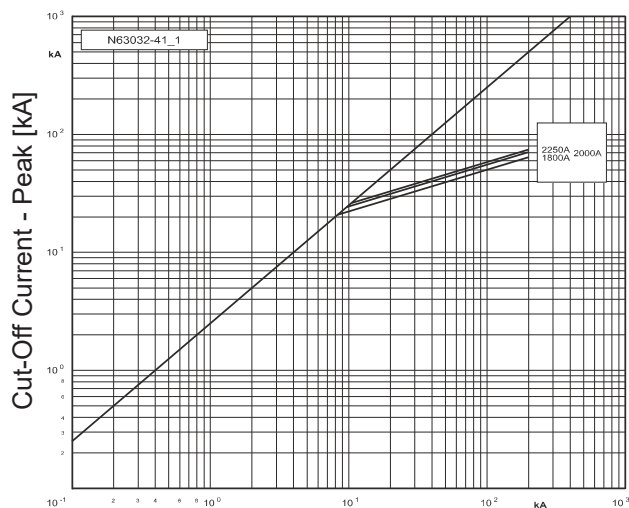
Time-Current Characteristics



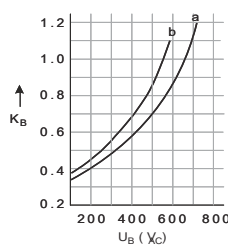
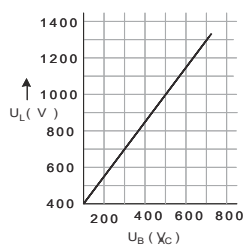
R.M.S. Prospective Current [A]

Full size graphs available upon request

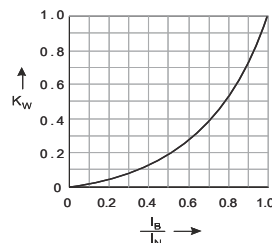
Cut-Off Current Characteristics

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

Correction Curves

Arc Voltage-Diagram Reduction factor for total i^2t -valuea) U_n 600 + 690 V
b) U_n 500 + 550 V

Reduction factor for power Loss



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URS - SQB3x2	Rated Voltage [U _n] 690V _{AC}	Rated Breaking Test Capacity 200kA	Class aR	Standard(s) IEC 60269-4 VDE 0636-4
--------------	--	--	-------------	--

DIN 43653

Rated current I _n [A]	SQB3X2 With fitting for microswitch Article Number	Rated voltage [U _n] IEC 60269-4 [V]	Rated voltage [U _n] UL 248-13 [V]		Pre-arcing I ² t [A ² s]	Total I ² t @ 660V _{AC} [A ² s]	Power loss [W]
1 000	2068832.1000	690	—		70 100	421 000	190
1 100	2068832.1100	690	—		90 000	540 000	205
1 250	2068832.1250	690	—		128 000	760 000	227
1 400	2068832.1400	690	—		200 000	1 200 000	237
1 600	2068832.1600	690	—		340 000	1 920 000	248
1 800	2068832.1800	690	—		460 000	2 640 000	252
2 000	2068832.2000	690	—		560 000	3 440 000	276
2 500	2068832.2500	690*	—		1 160 000	7 000 000	310
2 800	2068832.2800	690*	—		1 520 000	8 800 000	340
3 000	2068832.3000	690*	—		1 960 000	12 000 000	359

*Tested at 1.05U_n

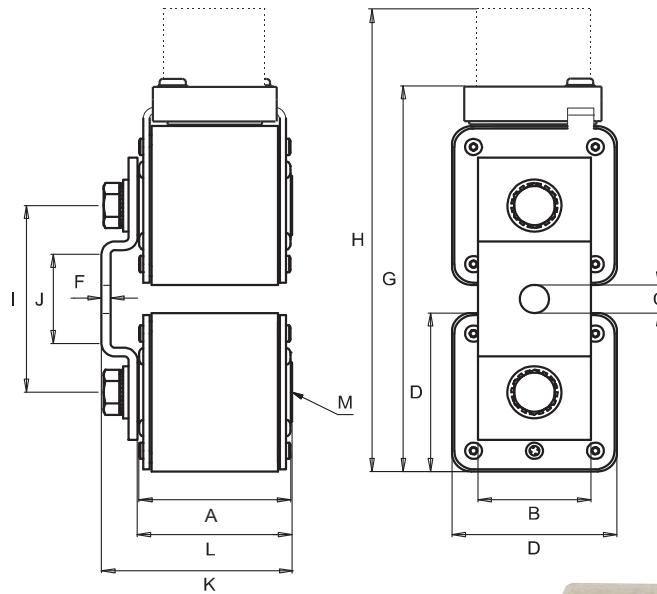
Weight [kg / 1]

1.2

Coefficients for Heavy Duty Applications

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

Dimensions [in / mm]	
A	1.93 / 49
B	1.97 / 50
C	0.50 / 13
D	2.87 / 73
F	0.16 / 4
G	6.85 / 174
H	7.76 / 197
I	3.39 / 86
J	1.57 / 40
K	2.64 / 67
L	2.00 / 51
M	M12 Thread depth 0.47 / 12
Torque max. - 52N•m / 38.3lb•ft	



For DC Application see page 436

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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URS - SQB3x2

Rated Voltage

 $[U_n]$ 690V_{AC}

Rated Breaking Test

Capacity

200kA

Voltage

660V_{AC}

Class

aR

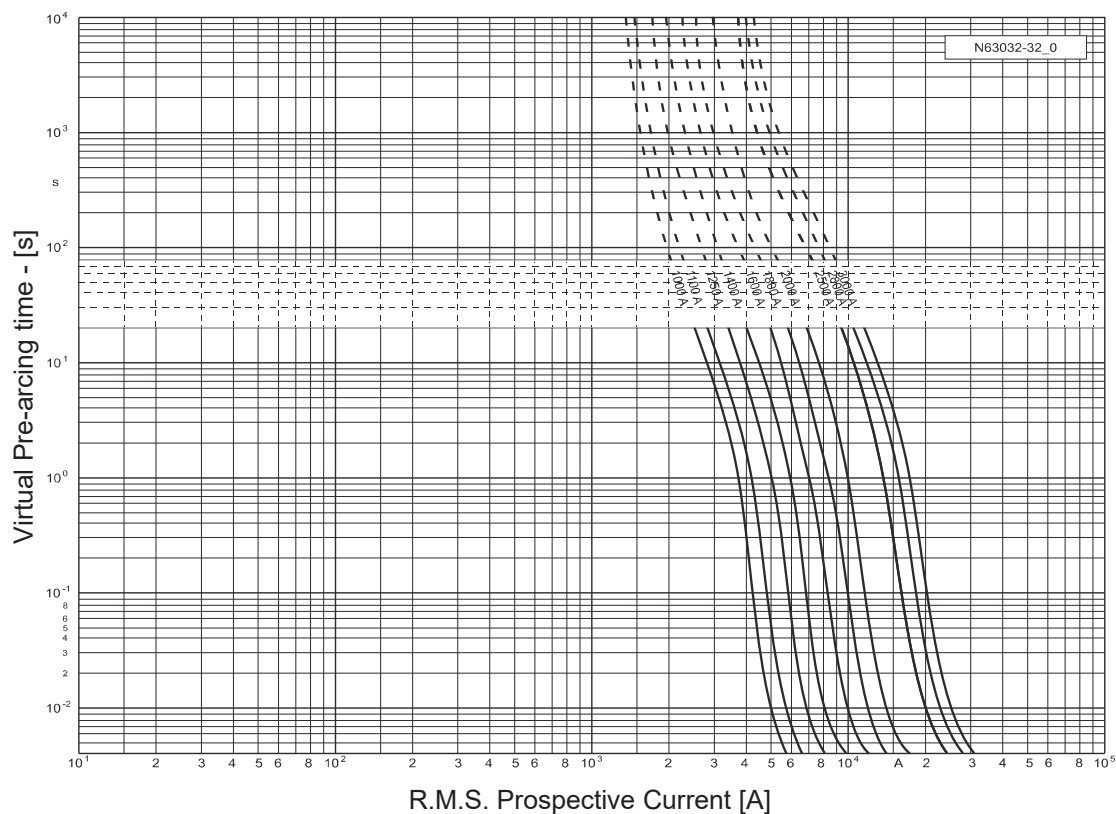
Standard(s)

IEC 60269-4

VDE 0636-4

DIN 43653

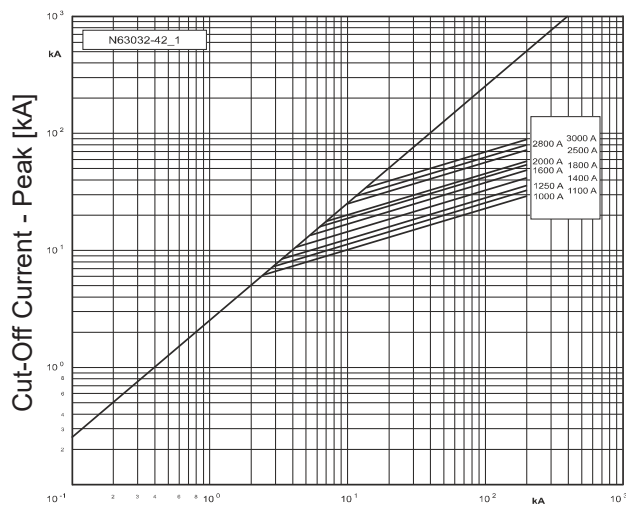
Time-Current Characteristics



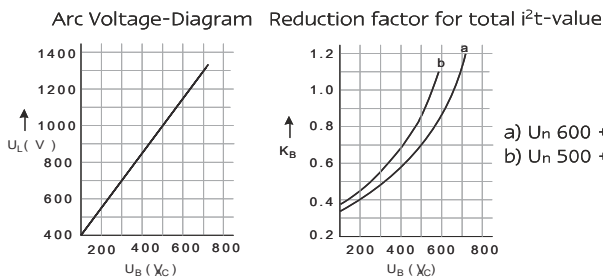
R.M.S. Prospective Current [A]

Full size graphs available upon request

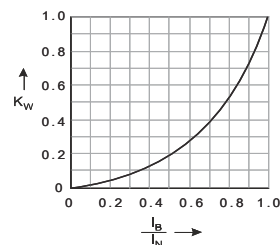
Cut-Off Current Characteristics

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

Correction Curves



Reduction factor for power Loss



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URS - SQB4

Rated Voltage

Rated Breaking Test

Class

Standard(s)

[U_n]

Capacity

Voltage

aR

UL 248-13

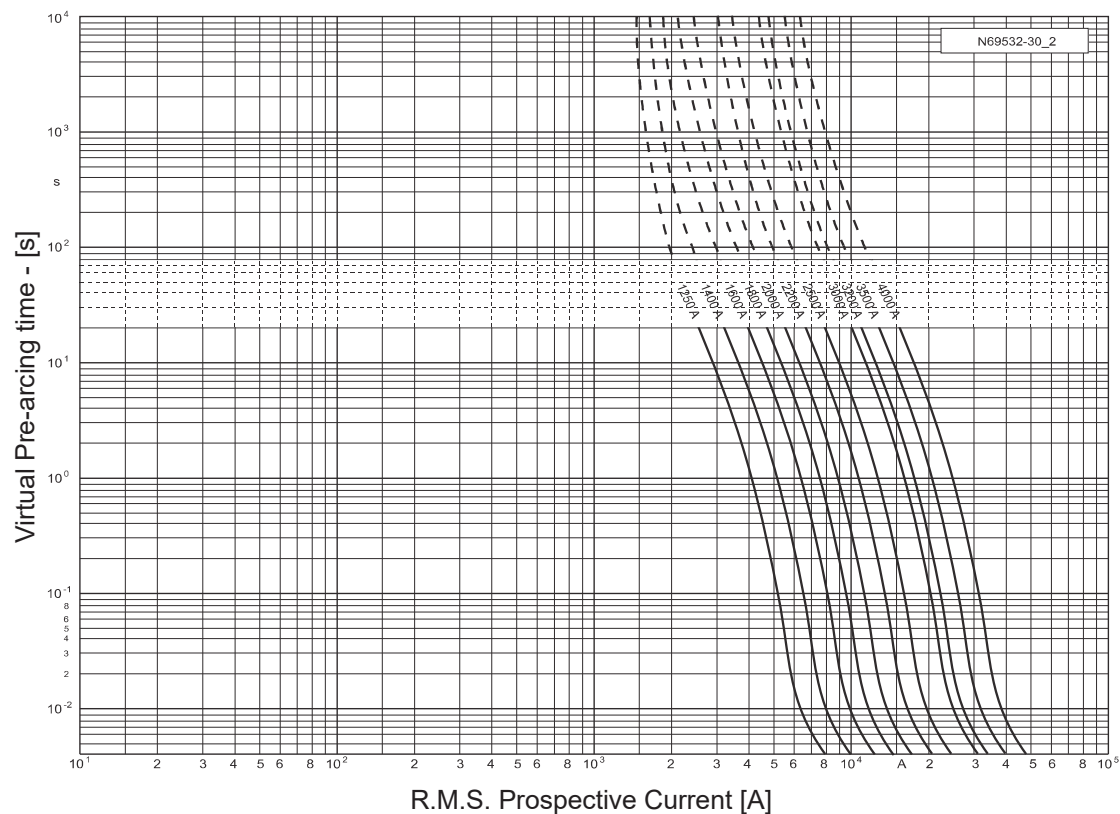
690V_{AC} / 500V_{AC} / 400V_{AC} - IEC 100kA@ U_n - IECIEC 60269-4500V_{AC} - UL

200kA

@ U_n - UL

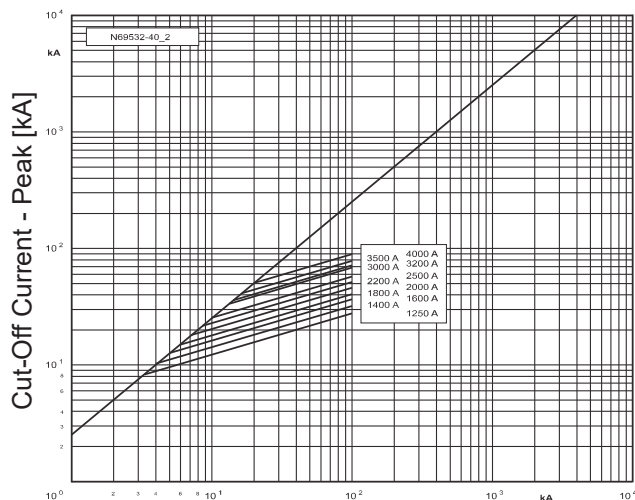
UL File E180276

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.)



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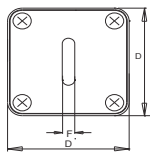
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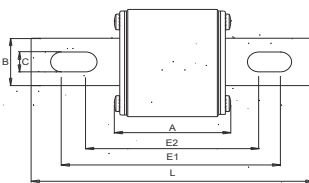
portal: www.siballc.nete-mail: info@sibafuse.com

URS - SQB1		Rated Voltage	Rated Breaking Test		Class	Standard(s)
		[U _n]	Capacity	Voltage	aR	UL 248-13
		1300V _{AC} - UL	100kA	1000V _{AC}		IEC 60269-4
		1250V _{AC} - IEC			VDE 0636-4	
UL File E180276		900V _{DC} - UL*	226kA @ L/R =2.7ms*		900V _{DC}	*ES (Energy Storage)
Rated current		US - Blade Long	US - Blade Long			
I _n	UL	With fitting for	Without			
[A]	rec	microswitch	indicator			
		Article Number	Article Number			
50	✓*	2071832.50	2071931.50			
63	✓*	2071832.63	2071931.63			
80	✓*	2071832.80	2071931.80			
100	✓*	2071832.100	2071931.100			
125	✓*	2071832.125	2071931.125			
160	✓*	2071832.160	2071931.160			
200	✓*	2071832.200	2071931.200			
250	✓*	2071832.250	2071931.250			
315	✓*	2071832.315	2071931.315			
350	✓*	2071832.350	2071931.350			
400	✓*	2071832.400	2071931.400			
450	✓*	2071832.450	2071931.450			
500	✓	2071832.500 ¹	2071931.500 ¹			
550	✓	2071832.550 ¹	2071931.550 ¹			
630	✓	2071832.630 ¹	2071931.630 ¹			
700		2071832.700 ²	2071931.700 ²			
		¹⁾ 1100V-IEC, 1200V-UL, ²⁾ 1100V-IEC, No-UL				
		Weight [kg / 1]				
		0.62	0.61			
		Dimensions [in / mm]				
	A	2.78 / 70.5	2.78 / 70.5			
	B	1.02 / 26	1.02 / 26			
	C	0.55 / 14	0.55 / 14			
	D	1.97/ 50	1.97 / 50			
	E ₁	5.20 / 132	5.20 / 132			
	E ₂	3.78 / 96	3.78 / 96			
	F	0.24 / 6	0.24 / 6			
	G	2.60 / 66	—			
	H	3.50 / 89	—			
	L	6.18 / 157	6.18 / 157			

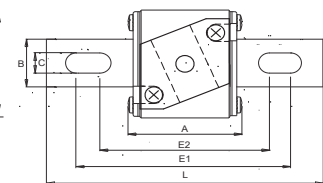
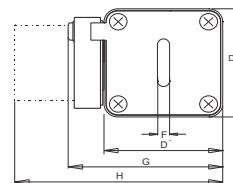
* ES "Energy Storage" - Contact SIBA - Telephone - 973- 575-7422, e-mail - info@sibafuse.com



2071931



2071832



Accessories

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

URS - SQB1

Rated Voltage

Rated Breaking Test

Class

Standard(s)

[U_n]

Capacity

Voltage

aR

UL 248-13

1300V_{AC} - UL

100kA

1000V_{AC}

IEC 60269-4

1250V_{AC} - IEC

VDE 0636-4

UL File E180276

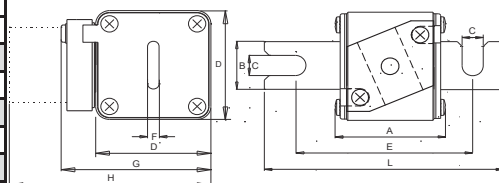
900V_{DC} - UL*

226kA @ L/R = 2.7ms*

900V_{DC}

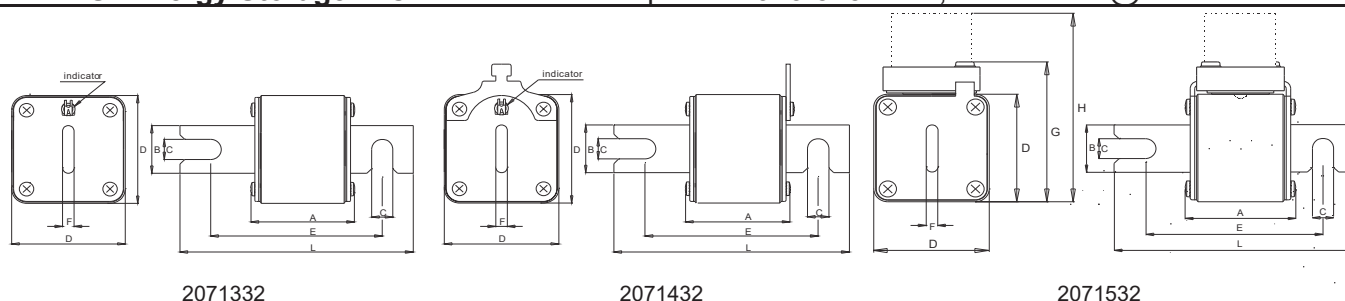
*ES (Energy Storage)

Rated current I _n [A]	UL rec	DIN 110mm With flap indicator Article Number	DIN 110mm With fitting for microswitch Article Number	DIN 110mm With fitting for microswitch Article Number	DIN 110mm With fitting for microswitch Article Number
50	✓*	2071332.50	2071432.50	2071532.50	2076632.50
63	✓*	2071332.63	2071432.63	2071532.63	2076632.63
80	✓*	2071332.80	2071432.80	2071532.80	2076632.80
100	✓*	2071332.100	2071432.100	2071532.100	2076632.100
125	✓*	2071332.125	2071432.125	2071532.125	2076632.125
160	✓*	2071332.160	2071432.160	2071532.160	2076632.160
200	✓*	2071332.200	2071432.200	2071532.200	2076632.200
250	✓*	2071332.250	2071432.250	2071532.250	2076632.250
315	✓*	2071332.315	2071432.315	2071532.315	2076632.315
350	✓*	2071332.350	2071432.350	2071532.350	2076632.350
400	✓*	2071332.400	2071432.400	2071532.400	2076632.400
450	✓*	2071332.450	2071432.450	2071532.450	2076632.450
500	✓	2071332.500 ¹	2071432.500 ¹	2071532.500 ¹	2076632.500 ¹
550	✓	2071332.550 ¹	2071432.550 ¹	2071532.550 ¹	2076632.550 ¹
630	✓	2071332.630 ¹	2071432.630 ¹	2071532.630 ¹	2076632.630 ¹
700	✓	2071332.700 ²	2071432.700 ²	2071532.700 ²	2076632.700 ²
¹⁾ 1100V-IEC, 1200V-UL, ²⁾ 1100V-IEC, No-UL					
Weight [kg / 1]					
		0.58	0.58	0.62	0.62
Dimensions [in / mm]					
A		2.78 / 70.5	2.78 / 70.5	2.78 / 70.5	2.78 / 70.5
B		1.02 / 26	1.02 / 26	1.02 / 26	1.02 / 26
C		0.43 / 11	0.43 / 11	0.43 / 11	0.43 / 11
D		1.97 / 50	1.97 / 50	1.97 / 50	1.97 / 50
E		4.17 / 106	4.17 / 106	4.17 / 106	4.17 / 106
F		0.24 / 6	0.24 / 6	0.24 / 6	0.24 / 6
G		—	2.60 / 66	2.60 / 66	2.60 / 66
H		—	3.50 / 89	3.50 / 89	3.50 / 89
L		5.43 / 138	5.43 / 138	5.43 / 138	5.43 / 138



2076632 - "Special" - Microswitch rotated 90°

* ES "Energy Storage" - Contact SIBA - Telephone - 973-575-7422, e-mail - info@sibafuse.com



2071332

2071432

2071532

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base, UL E180276			Microswitch - NO-NC, UL E309038		
110mm center, 1400V, 630A	2132301	545	Standard level	2800201	540
110mm center, 1400V, 1250A	2132302		Low level	2800203	
			Standard level	2800114	541
			Low level	2801114	

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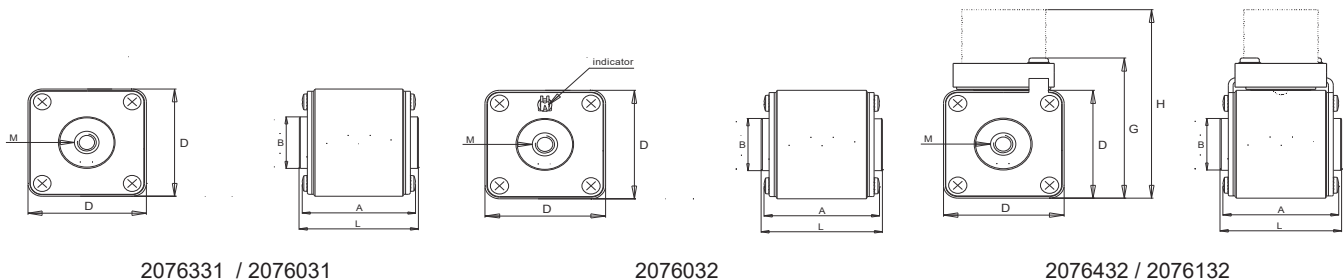
portal: www.siballc.net

e-mail: info@sibafuse.com

URS - SQB1	Rated Voltage [U _n]	Rated Breaking Test Capacity	Class aR	Standard(s)
	1300V _{AC} - UL 1250V _{AC} - IEC	100kA		UL 248-13 IEC 60269-4 VDE 0636-4
UL File E180276	900V _{DC} - UL*	226kA @ L/R = 2.7ms*	900V _{DC}	*ES (Energy Storage)

Rated current I _n [A]	UL rec	US - 5/16" UNC	US - 5/16" UNC	M8	M8	M8	
		Without indicator flap Article Number	With fitting for microswitch Article Number	Without indicator Article Number	With indicator Article Number	With fitting for microswitch Article Number	
50	✓*	2076331.50	2076432.50	2076031.50	2076032.50	2076132.50	
63	✓*	2076331.63	2076432.63	2076031.63	2076032.63	2076132.63	
80	✓*	2076331.80	2076432.80	2076031.80	2076032.80	2076132.80	
100	✓*	2076331.100	2076432.100	2076031.100	2076032.100	2076132.100	
125	✓*	2076331.125	2076432.125	2076031.125	2076032.125	2076132.125	
160	✓*	2076331.160	2076432.160	2076031.160	2076032.160	2076132.160	
200	✓*	2076331.200	2076432.200	2076031.200	2076032.200	2076132.200	
250	✓*	2076331.250	2076432.250	2076031.250	2076032.250	2076132.250	
315	✓*	2076331.315	2076432.315	2076031.315	2076032.315	2076132.315	
350	✓*	2076331.350	2076432.350	2076031.350	2076032.350	2076132.350	
400	✓*	2076331.400	2076432.400	2076031.400	2076032.400	2076132.400	
450	✓*	2076331.450	2076432.450	2076031.450	2076032.450	2076132.450	
500	✓	2076331.500 ¹	2076432.500 ¹	2076031.500*	2076032.500*	2076132.500*	
550	✓	2076331.550 ¹	2076432.550 ¹	2076031.550*	2076032.550*	2076132.550*	
630	✓	2076331.630 ¹	2076432.630 ¹	2076031.630*	2076032.630*	2076132.630*	
700		2076331.700 ²	2076432.700 ²	2076031.700**	2076032.700**	2076132.700**	
1) 1100V-IEC, 1200V-UL, 2) 1100V-IEC, No-UL							
		Weight [kg / 1]					
		0.50	0.51	0.50	0.50	0.51	
		Dimensions [in / mm]					
	A	2.78 / 70.5	2.78 / 70.5	2.78 / 70.5	2.78 / 70.5	2.78 / 70.5	
	B	0.94 / 24	0.94 / 24	0.94 / 24	0.94 / 24	0.94 / 24	
	D	1.97 / 50	1.97 / 50	1.97 / 50	1.97 / 50	1.97 / 50	
	G	—	2.60 / 66	—	—	2.60 / 66	
	H	—	3.50 / 89	—	—	3.50 / 89	
	L	2.90 / 73.5	2.90 / 73.5	2.90 / 73.5	2.90 / 73.5	2.90 / 73.5	
	M	5/16" UNC		M8			
Thread depth 0.39 / 10							
Torque max. - 22N•m / 16.2lb•ft							

* ES "Energy Storage" - Contact SIBA - Telephone - 973-575-7422, e-mail - info@sibafuse.com



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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URS - SQB1



UL File E180276

Rated Voltage

[U_n]1300V_{AC} - UL1250V_{AC} - IEC900V_{DC} - UL*

Rated Breaking Test

Capacity

100kA

226kA @ L/R = 2.7ms*

Voltage

1000V_{AC}900V_{DC}

Class

aR

Standard(s)

UL 248-13

IEC 60269-4

VDE 0636-4

*ES (Energy Storage)

Rated current I _n [A]	Rated voltage [U _n] IEC 60269-4 [V _{AC}]	Rated voltage [U _n] UL 248-13 [V _{AC}]	Rated voltage [U _n] UL 248-13 [V _{DC}]		Pre-arcing i ² t [A ² s]	Total i ² t @ 1000V _{AC} [A ² s]	Power loss [W]
50	1 250	1 300	900		130	730	29
63	1 250	1 300	900		250	1 400	32
80	1 250	1 300	900		410	2 300	35
100	1 250	1 300	900		930	5 200	38
125	1 250	1 300	900		1 400	7 800	41
160	1 250	1 300	900		2 500	14 000	45
200	1 250	1 300	900		4 600	25 000	49
250	1 250	1 300	900		8 400	46 000	58
280	1 250	1 300	900		12 500	64 000	60
315	1 250	1 300	900		15 000	81 000	67
350	1 250	1 300	900		22 000	120 000	70
400	1 250	1 300	900		36 000	200 000	75
450	1 250	1 300	900		44 000	250 000	80
500	1 100	1 200	—		66 000	340 000	87
550	1 100	1 200	—		83 000	430 000	94
630	1 100	1 200	—		126 000	670 000	99
700	1 000	—	—		181 000	962 000	105



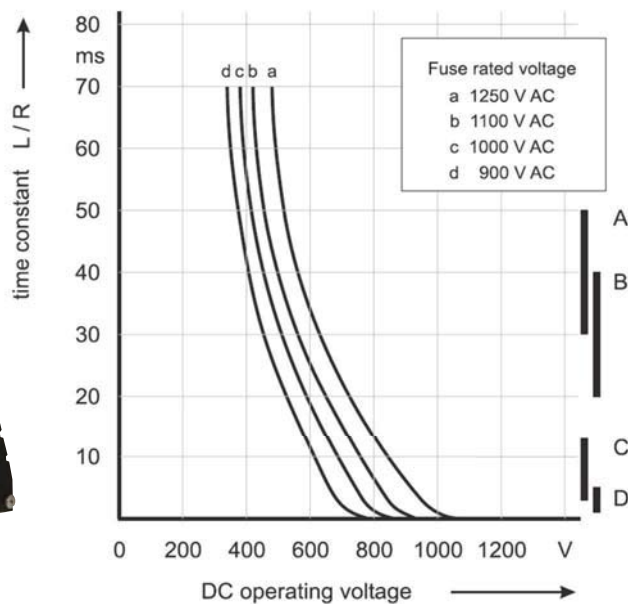
Coefficients for Heavy Duty Applications

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

DC tested breaking capacity

I_{min}: 10xI_n @ 900V_{DC}, L/R=2ms

DC Application



The use under DC-Voltage needs to consider the following

- the DC-Circuit voltage
- the time constant
- the smallest fault current

typical applications

- A Traction
- B DC-Drives
- C Battery circuits
- D DC-Link, VSI, USV, PV



As a first assumption the minimum fault current should be 10 times the planned fuse rating. If smaller fault currents are expected our application engineers should be consulted.

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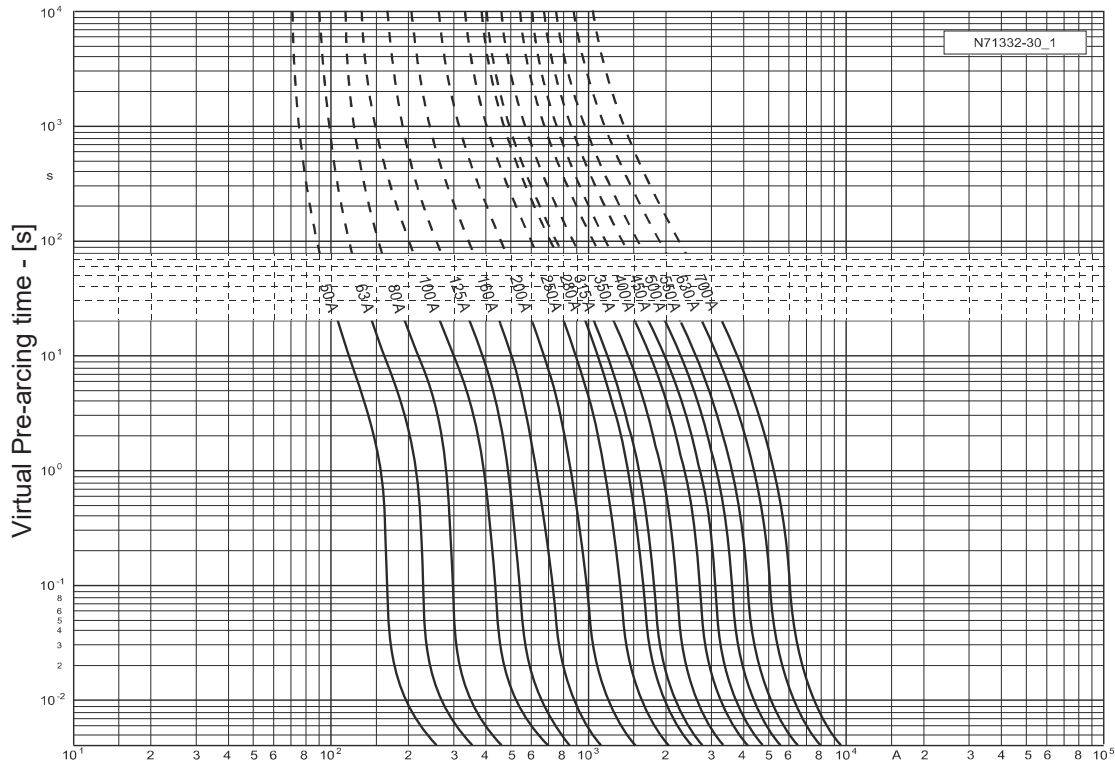
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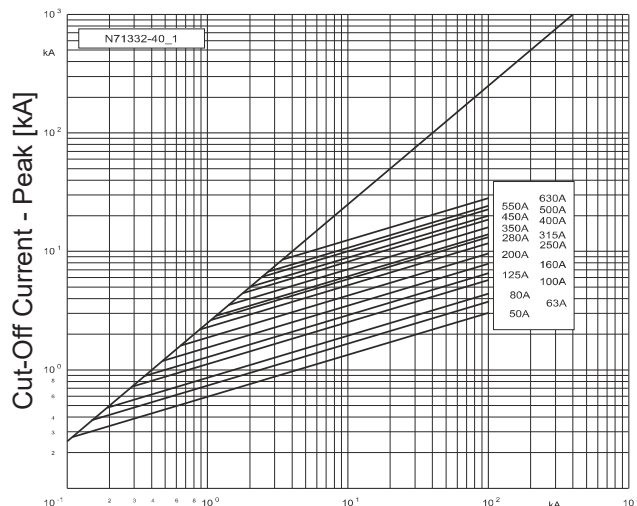
URS - SQB1	Rated Voltage [U _n]	Rated Breaking Test Capacity	Class aR	Standard(s)
cRU[®] US	1300V _{AC} - UL	100kA		UL 248-13
UL File E180276	1250V _{AC} - IEC			IEC 60269-4
	900V _{DC} - UL*	226kA @ L/R = 2.7ms*		VDE 0636-4
				*ES (Energy Storage)

Time-Current Characteristics



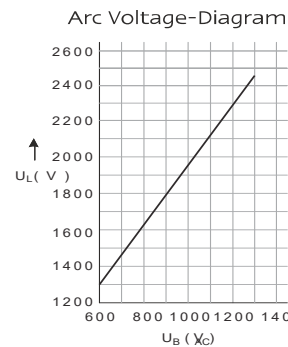
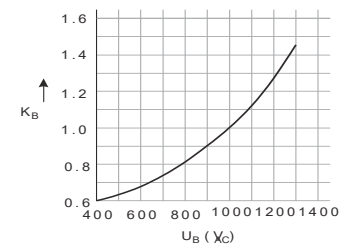
R.M.S. Prospective Current [A]
Full size graphs available upon request

Cut-Off Current Characteristics

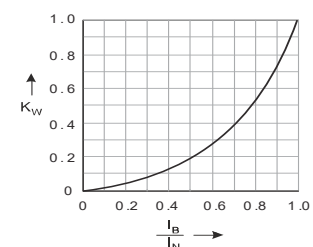


Prospective Short Circuit Current [kA]
(Symmetrical r.m.s.)

Correction Curves

Reduction factor for total i²t-value

Reduction factor for power Loss



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URS - SQB2

Rated Voltage

Rated Breaking Test

Class

Standard(s)

[U_n]

Capacity

Voltage

aR

UL 248-13

1300V_{AC} - UL

100kA

1000V_{AC}

IEC 60269-4

1250V_{AC} - IEC

VDE 0636-4

UL File E180276

900V_{DC} - UL*

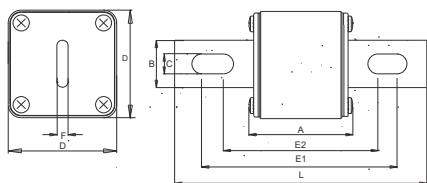
200kA @ L/R = 2.7ms*

900V_{DC}

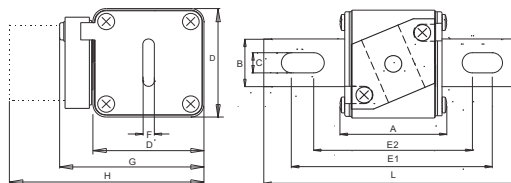
*ES (Energy Storage)

Rated current I _n [A]	UL rec	US - Blade Long With fitting for microswitch Article Number	US - Blade Long Without indicator Article Number	
250	✓*	2072832.250	2072931.250	
280	✓*	2072832.280	2072931.280	
315	✓*	2072832.315	2072931.315	
350	✓*	2072832.350	2072931.350	
400	✓*	2072832.400	2072931.400	
450	✓*	2072832.450	2072931.450	
500	✓*	2072832.500	2072931.500	
550	✓*	2072832.550	2072931.550	
630	✓*	2072832.630	2072931.630	
700	✓	2072832.700 ¹	2072931.700 ¹	
800	✓	2072832.800 ²	2072931.800 ²	
¹⁾ 1100V-IEC, 1200V-UL, ²⁾ 1100V-IEC, 1100V-UL				
Weight [kg / 1]				
0.88 0.88				
Dimensions [in / mm]				
A		2.78 / 70.5	2.78 / 70.5	
B		1.02 / 26	1.02 / 26	
C		0.55 / 14	0.55 / 14	
D		2.32 / 59	2.32 / 59	
E ₁		5.20 / 132	5.20 / 132	
E ₂		3.78 / 96	3.78 / 96	
F		0.24 / 6	0.24 / 6	
G		2.95 / 75	—	
H		3.86 / 98	—	
L		6.18 / 157	6.18 / 157	

* ES "Energy Storage" - Contact SIBA - Telephone - 973-575-7422, e-mail - info@sibafuse.com



2072931



2072832

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
			Microswitch - N0-NC, UL E309038		
			Standard level	2800114	541
			Low level	2801114	

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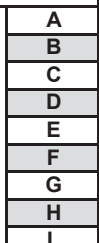
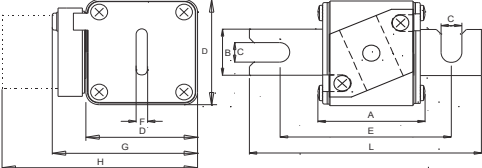
West Caldwell, New Jersey 07006

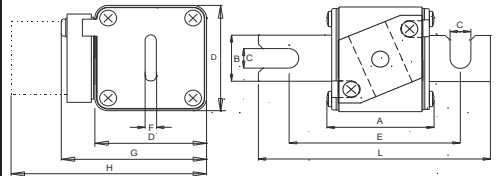
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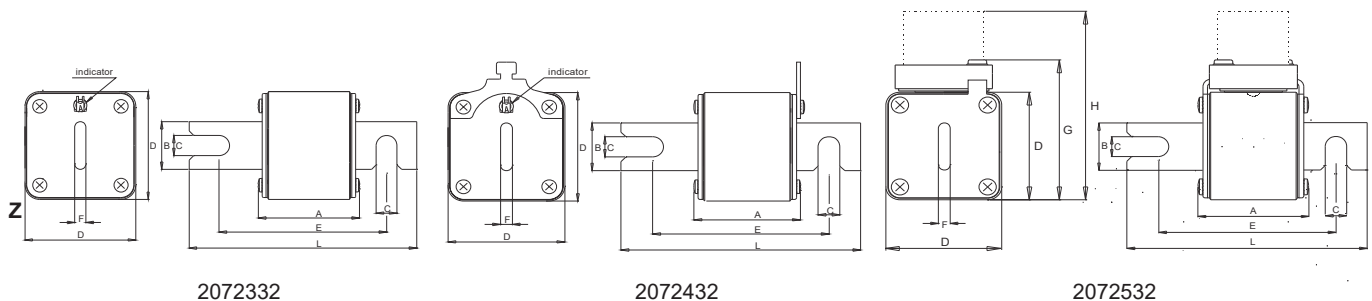
e-mail: info@sibafuse.com

URS - SQB2		Rated Voltage		Rated Breaking Test		Class		Standard(s)	
		[U _n]		Capacity		Voltage		aR UL 248-13	
		1300V _{AC} - UL		100kA		1000V _{AC}		IEC 60269-4	
		1250V _{AC} - IEC						VDE 0636-4	
UL File E180276		900V _{DC} - UL*		200kA @ L/R =2.7ms*		900V _{DC}		*ES (Energy Storage)	
Rated current	110mm		110mm		110mm		110mm		
	I _n	With flap indicator	With fitting for microswitch	With fitting for microswitch	With fitting for microswitch	With fitting for microswitch	With fitting for microswitch		
[A]	UL rec	Article Number	Article Number	Article Number	Article Number	Article Number	Article Number	Article Number	
250	✓*	2072332.250	2072432.250	2072532.250	2077632.250				
280	✓*	2072332.280	2072432.280	2072532.280	2077632.280				
315	✓*	2072332.315	2072432.315	2072532.315	2077632.315				
350	✓*	2072332.350	2072432.350	2072532.350	2077632.350				
400	✓*	2072332.400	2072432.400	2072532.400	2077632.400				
450	✓*	2072332.450	2072432.450	2072532.450	2077632.450				
500	✓*	2072332.500	2072432.500	2072532.500	2077632.500				
550	✓*	2072332.550	2072432.550	2072532.550	2077632.550				
630	✓*	2072332.630	2072432.630	2072532.630	2077632.630				
700	✓	2072332.700 ¹	2072432.700 ¹	2072532.700 ¹	2077632.700 ¹				
800	✓	2072332.800 ²	2072432.800 ²	2072532.800 ²	2077632.800 ²				
1) 1100V-IEC, 1200V-UL, 2) 1100V-IEC, 1100V-UL									
Weight [kg / 1]									
		0.88	0.88	0.88	0.88				
Dimensions [in / mm]									
	A	2.78 / 70.5	2.78 / 70.5	2.78 / 70.5	2.78 / 70.5				
	B	1.02 / 26	1.02 / 26	1.02 / 26	1.02 / 26				
	C	0.43 / 11	0.43 / 11	0.43 / 11	0.43 / 11				
	D	2.32 / 59	2.32 / 59	2.32 / 59	2.32 / 59				
	E	4.17 / 106	4.17 / 106	4.17 / 106	4.17 / 106				
	F	0.24 / 6	0.24 / 6	0.24 / 6	0.24 / 6				
	G	—	2.95 / 75	2.95 / 75	2.95 / 75				
	H	—	3.86 / 98	3.86 / 98	3.86 / 98				
	L	5.43 / 138	5.43 / 138	5.43 / 138	5.43 / 138				
									
2077632 - "Special" - Microswitch rotated 90°									



2077632 - "Special" - Microswitch rotated 90°

* ES "Energy Storage" - Contact SIBA - Telephone - 973-575-7422, e-mail - info@sibafuse.com



2072332

2072432

2072532

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base, UL E180276			Microswitch - NO-NC, UL E309038		
110mm center, 1400V, 630A	2132301	545	Standard level	2800201	540
110mm center, 1400V, 1250A	2132302		Low level	2800203	
			Standard level	2800114	541
			Low level	2801114	

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URS - SQB2

Rated Voltage

Rated Breaking Test

Class

Standard(s)

[U_n]

Capacity

Voltage

aR

UL 248-13

1300V_{AC} - UL

100kA

1 000V_{AC}

IEC 60269-4

1250V_{AC} - IEC

VDE 0636-4

UL File E180276

900V_{DC} - UL*

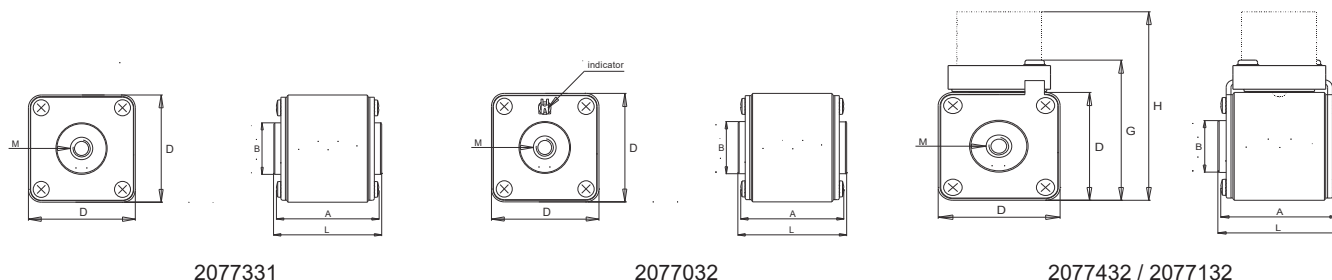
200kA @ L/R = 2.7ms*

900V_{DC}

*ES (Energy Storage)

Rated current I _n [A]	UL rec	US - 3/8" UNC	With fitting for microswitch	M10 With flap indicator	M10 With fitting for microswitch	
		Without indicator Article Number	Article Number	Article Number	Article Number	
250	✓*	2077331.250	2077432.250	2077032.250	2077132.250	
280	✓*	2077331.280	2077432.280	2077032.280	2077132.280	
315	✓*	2077331.315	2077432.315	2077032.315	2077132.315	
350	✓*	2077331.350	2077432.350	2077032.350	2077132.350	
400	✓*	2077331.400	2077432.400	2077032.400	2077132.400	
450	✓*	2077331.450	2077432.450	2077032.450	2077132.450	
500	✓*	2077331.500	2077432.500	2077032.500	2077132.500	
550	✓*	2077331.550	2077432.550	2077032.550	2077132.550	
630	✓*	2077331.630	2077432.630	2077032.630	2077132.630	
700	✓	2077331.700 ¹	2077432.700 ¹	2077032.700 ¹	2077132.700 ¹	
800	✓	2077331.800 ²	2077432.800 ²	2077032.800 ²	2077132.800 ²	
		¹⁾ 1100V-IEC, 1200V-UL, ²⁾ 1100V-IEC, 1100V-UL				
		Weight [kg / 1]				
		0.75	0.75	0.75	0.75	
		Dimensions [in / mm]				
	A	2.78 / 70.5	2.78 / 70.5	2.78 / 70.5	2.78 / 70.5	
	B	0.94 / 24	0.94 / 24	0.94 / 24	0.94 / 24	
	D	2.32 / 59	2.32 / 59	2.32 / 59	2.32 / 59	
	G	—	2.95 / 75	—	2.95 / 75	
	H	—	3.86 / 98	—	3.86 / 98	
	L	2.89 / 73.5	2.89 / 73.5	2.89 / 73.5	2.89 / 73.5	
	M	3/8" UNC		M10		
		Thread depth 0.39 / 10				
		Torque max. - 39N•m / 28.7lb•ft				

* ES "Energy Storage" - Contact SIBA - Telephone - 973-575-7422, e-mail - info@sibafuse.com



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
			Microswitch - N0-NC, UL E309038		
			Standard level	2800114	541
			Low level	2801114	

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URS - SQB2		Rated Voltage		Rated Breaking Test		Class	Standard(s)	
		[U _n]		Capacity	Voltage	aR	UL 248-13	
		1300V _{AC} - UL		100kA	1000V _{AC}		IEC 60269-4	
		1250V _{AC} - IEC						
		900V _{DC} - UL*		200kA @ L/R =2.7ms*	900V _{DC}		VDE 0636-4	
UL File E180276		*ES (Energy Storage)						
Rated current I _n [A]	Rated voltage [U _n] IEC 60269-4 [V _{AC}]	Rated voltage [U _n] UL 248-13 [V _{AC}]	Rated voltage [U _n] UL 248-13 [V _{DC}]			Pre-arcing i ² t [A ² s]	Total i ² t @ 1000V _{AC} [A ² s]	Power loss [W]
250	1 250	1 300	900			8 200	45 000	55
280	1 250	1 300	900			9 900	56 000	59
315	1 250	1 300	900			14 000	78 000	66
350	1 250	1 300	900			20 000	110 000	71
400	1 250	1 300	900			31 000	170 000	75
450	1 250	1 300	900			42 000	240 000	80
500	1 250	1 300	900			56 000	310 000	90
550	1 250	1 300	900			71 000	350 000	105
630	1 250	1 300	900			105 000	540 000	110
700	1 100	1 200	—			148 000	710 000	115
800	1 100	1 100	—			225 000	1 180 000	123

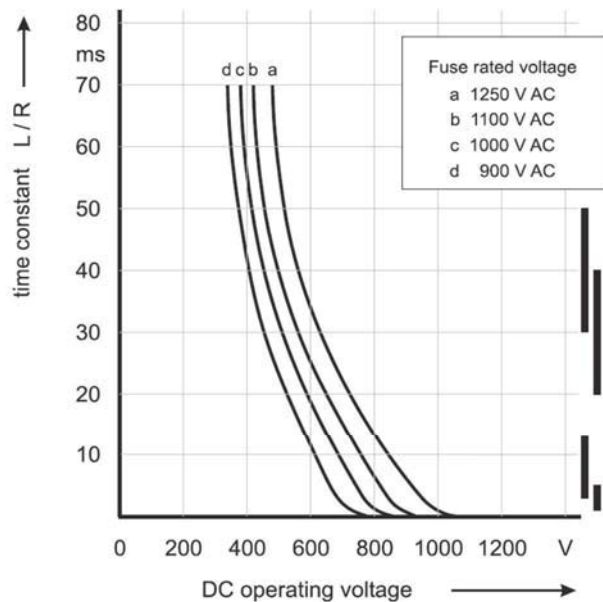
Coefficients for Heavy Duty Applications

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

DC tested breaking capacity
I_{min}: 10xI_n @ 900V_{DC}, L/R=2ms



DC Application



The use under DC-Voltage needs to consider the following

- the DC-Circuit voltage
- the time constant
- the smallest fault current

typical applications

- A Traction
- B DC-Drives
- C Battery circuits
- D DC-Link, VSI, USV, PV



As a first assumption the minimum fault current should be 10 times the planned fuse rating. If smaller fault currents are expected our application engineers should be consulted.

URS - SQB2



UL File E180276

Rated Voltage

[U_n]1300V_{AC} - UL1250V_{AC} - IEC900V_{DC} - UL*

Rated Breaking Test

Capacity

100kA

200kA @ L/R = 2.7ms*

Voltage

1000V_{AC}900V_{DC}

Class

aR

Standard(s)

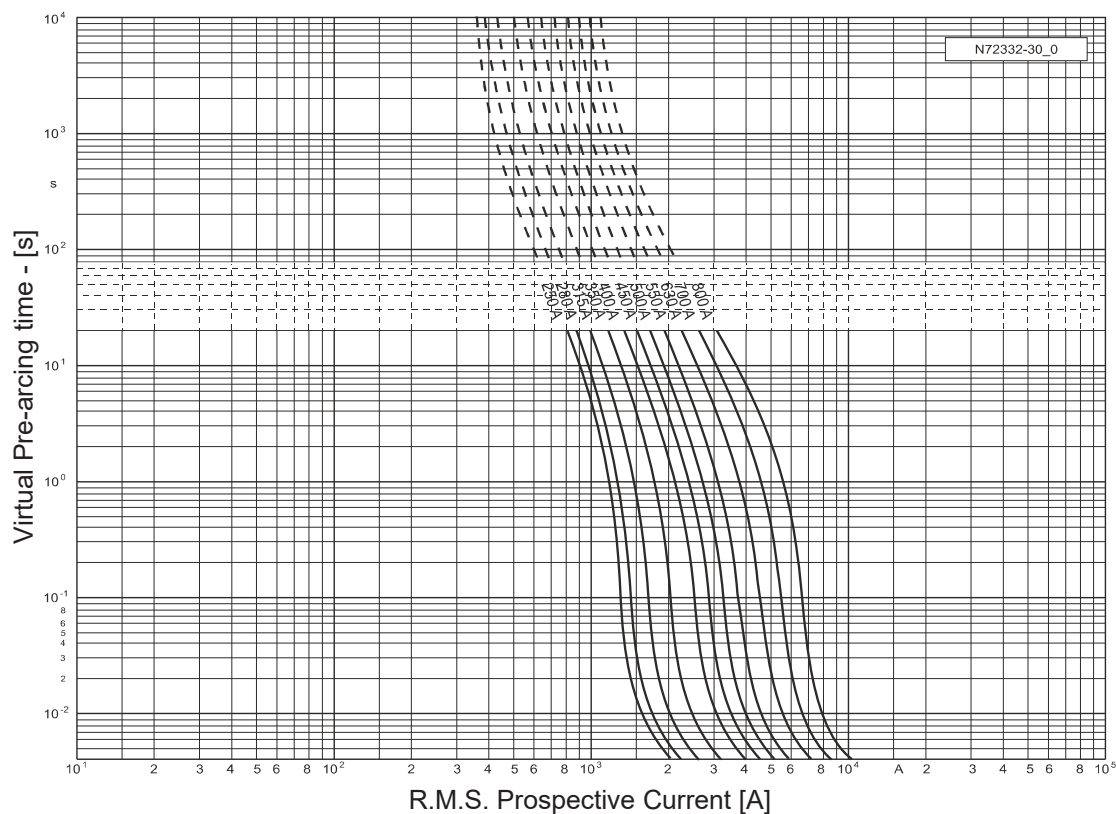
UL 248-13

IEC 60269-4

VDE 0636-4

*ES (Energy Storage)

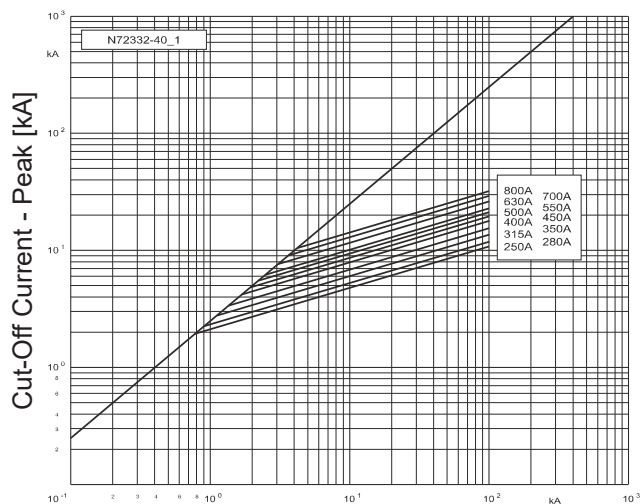
Time-Current Characteristics



R.M.S. Prospective Current [A]

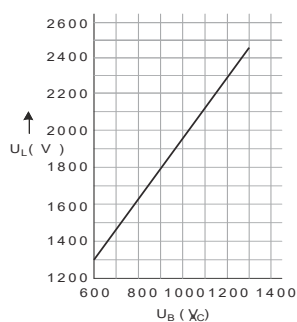
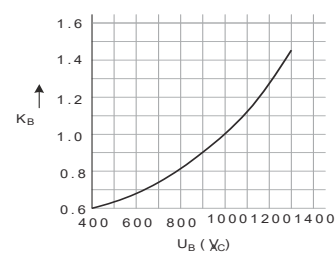
Full size graphs available upon request

Cut-Off Current Characteristics

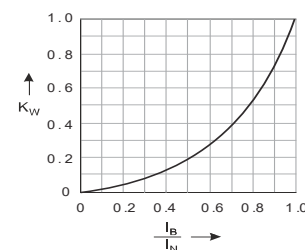
Prospective Short Circuit Current [kA]
(Symmetrical r.m.s.)

Correction Curves

Arc Voltage-Diagram

Reduction factor for total i²t-value

Reduction factor for power Loss



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URS - SQB2x2	Rated Voltage [U _n] 1250V _{AC}	Rated Breaking Test Capacity 100kA	Class aR	Standard(s) IEC 60269-4 VDE 0636-4
--------------	---	--	-------------	--

DIN 43653

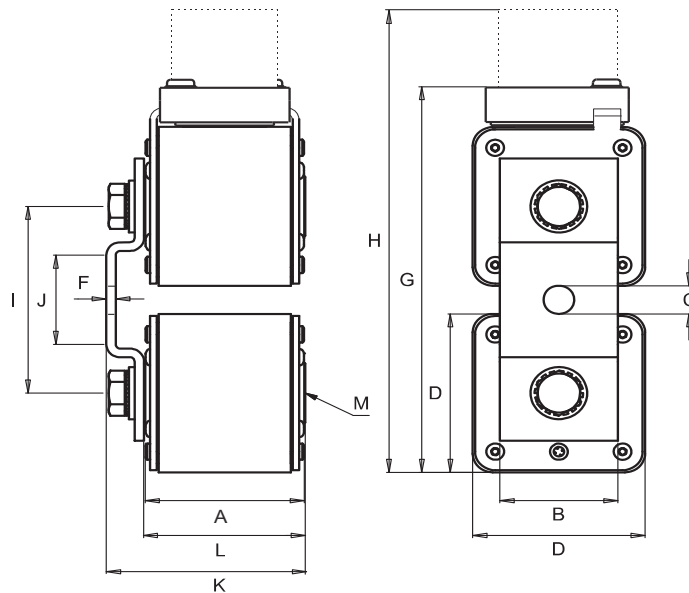
Rated current I _n [A]	SQB2X2 With fitting for microswitch Article Number	Rated Voltage [U _n] IEC 60269-4 [V]	Rated Voltage [U _n] UL 248-13 [V]		Pre-arcing I _{pt} [A ² s]	Total I _{pt} @ 1000V _{AC} [A ² s]	Power loss [W]
630	2077832.630	1 250	—		56 000	312 000	139
700	2077832.700	1 250	—		80 000	440 000	149
800	2077832.800	1 250	—		124 000	680 000	158
900	2077832.900	1 250	—		168 000	960 000	168
1 000	2077832.1000	1 250	—		224 000	1 240 000	189
1 100	2077832.1100	1 250	—		284 000	1 400 000	221
1 250	2077832.1250	1 250	—		420 000	2 160 000	230
1 400	2077832.1400	1 100	—		592 000	2 840 000	242
1 600	2077832.1600	1 100	—		900 000	4 720 000	258

Weight [kg / 1]
1.02
Dimensions [in / mm]

Coefficients for Heavy Duty Applications

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

A	2.78 / 70.5
B	1.77 / 45
C	0.43 / 11
D	2.32 / 59
F	0.16 / 4
G	5.78 / 147
H	6.69 / 170
I	2.83 / 72
J	1.38 / 35
K	3.54 / 90
L	2.89 / 73.5
M	M10 Thread depth 0.39 / 10
Torque max. - 39N•m / 28.7lb•ft	



For DC Application see page 451



Accessories

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

URS - SQB2x2

Rated Voltage

[U_n]1250V_{AC}

Rated Breaking Test

Capacity

100kA

Voltage

1000A_{AC}

Class

aR

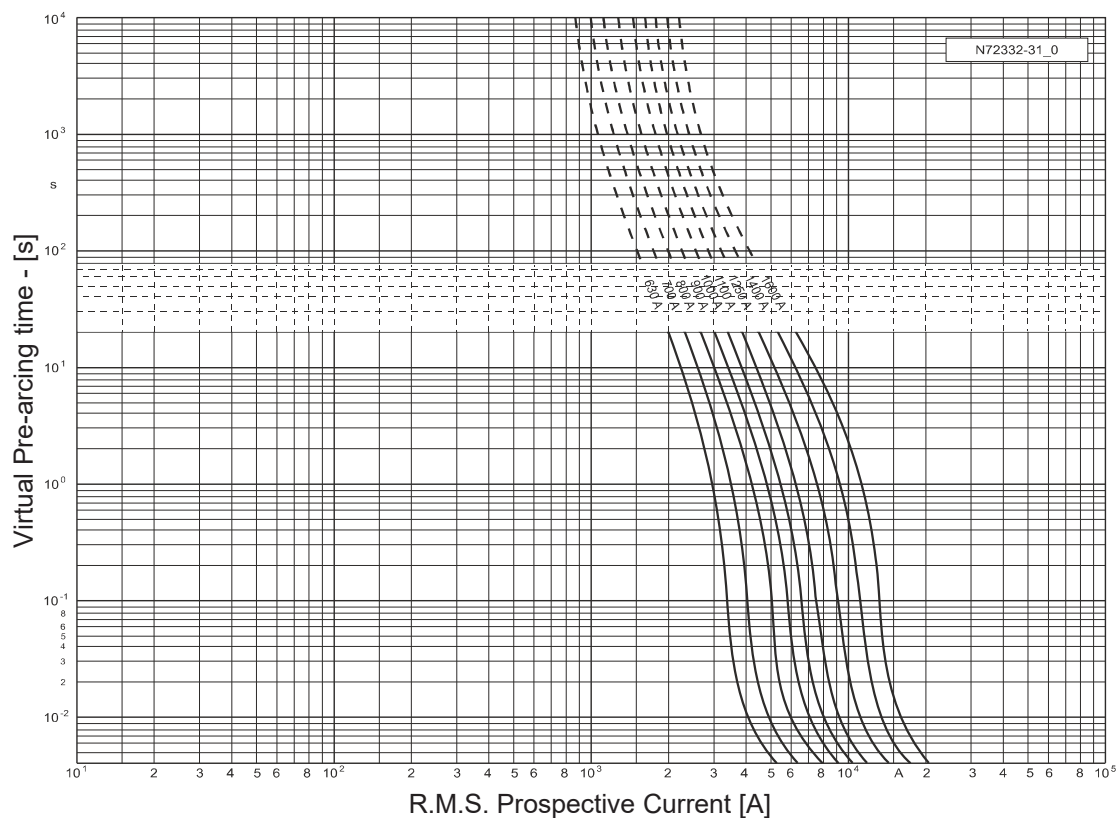
Standard(s)

IEC 60269-4

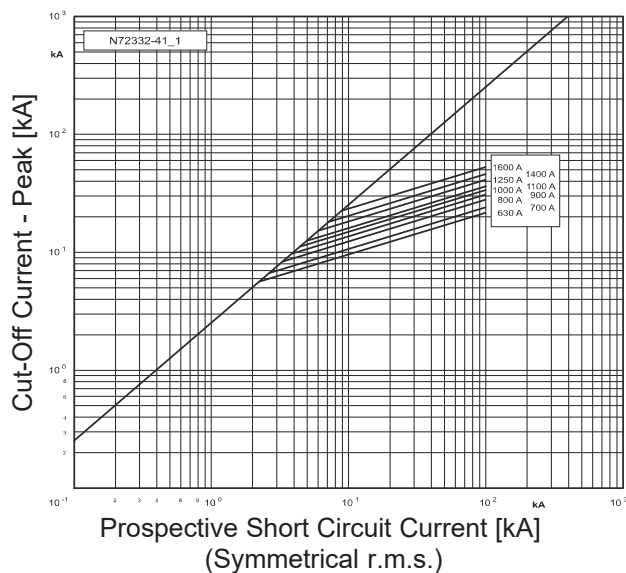
VDE 0636-4

DIN 43653

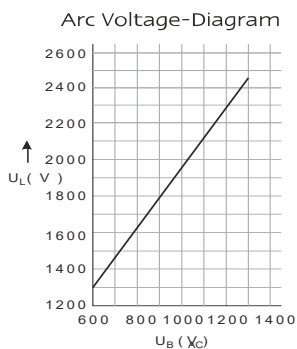
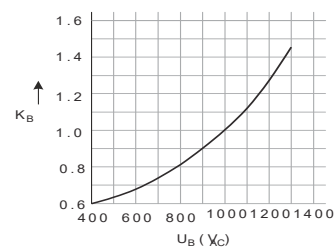
Time-Current Characteristics



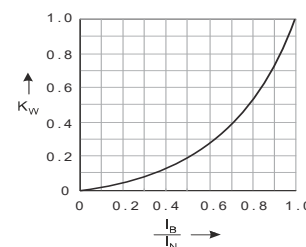
Cut-Off Current Characteristics



Correction Curves

Reduction factor for total i^2t -value

Reduction factor for power Loss



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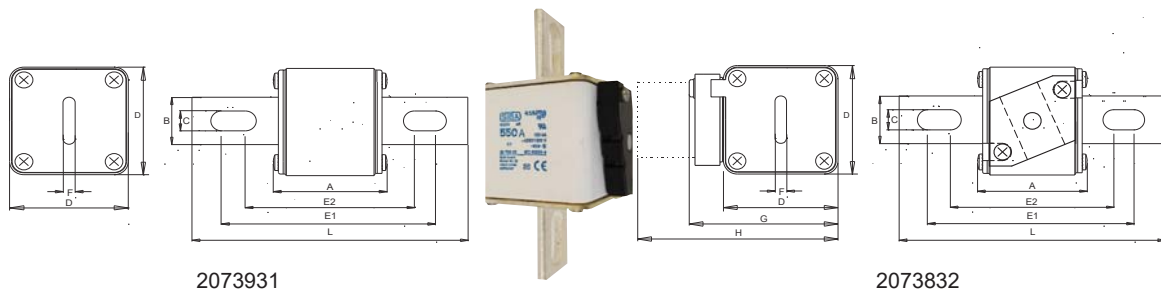
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URS - SQB3		Rated Voltage	Rated Breaking Test		Class	Standard(s)
		[U _n]	Capacity	Voltage	aR	UL 248-13
		1300V _{AC} - UL	100kA	1000V _{AC}		IEC 60269-4
		1250V _{AC} - IEC			VDE 0636-4	
UL File E180276		900V _{DC} - UL*	200kA @ L/R =2.7ms*	900V _{DC}	*ES (Energy Storage)	
Rated current		US - Blade Long	US - Blade Long			
I _n	UL	With fitting for	Without			
[A]	rec	microswitch	indicator			
		Article Number				
315	✓*	2073832.315	2073931.315			
350	✓*	2073832.350	2073931.350			
400	✓*	2073832.400	2073931.400			
450	✓*	2073832.450	2073931.450			
500	✓*	2073832.500	2073931.500			
550	✓*	2073832.550	2073931.550			
630	✓*	2073832.630	2073931.630			
700	✓*	2073832.700	2073931.700			
800	✓*	2073832.800	2073931.800			
900	✓	2073832.900 ¹	2073931.900 ¹			
1 000	✓	2073832.1000 ²	2073931.1000 ²			
1 100	✓	2073832.1100 ²	2073931.1100 ²			
1 250		2073832.1250 ³	2073931.1250 ³			
1 400		2073832.1400 ³	2073931.1400 ³			
¹⁾ 1200V-IEC, 1300V-UL, ²⁾ 1000V-IEC, 1000V-UL, ³⁾ 900V-IEC, No-UL						
		Weight [kg / 1]				
		1.34	1.34			
		Dimensions [in / mm]				
A		2.83 / 72	2.83 / 72			
B		1.38 / 35	1.38 / 35			
C		0.63 / 16	0.63 / 16			
D		2.87 / 73	2.87 / 73			
E ₁		5.20 / 132	5.20 / 132			
E ₂		3.86 / 98	3.86 / 98			
F		0.24 / 6	0.24 / 6			
G		3.46 / 88	—			
H		4.37 / 111	—			
L		6.18 / 157	6.18 / 157			

* ES "Energy Storage" - Contact SIBA - Telephone - 973- 575-7422, e-mail - info@sibafuse.com



Accessories

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

URS - SQB3

Rated Voltage

Rated Breaking Test

Class

Standard(s)

[U_n]

Capacity

Voltage

aR

UL 248-13

1300V_{AC} - UL

100kA

1000V_{AC}

IEC 60269-4

1250V_{AC} - IEC

VDE 0636-4

UL File E180276

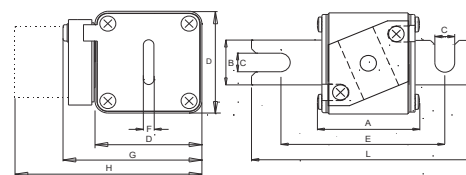
900V_{DC} - UL*

200kA @ L/R =2.7ms*

900V_{DC}

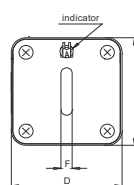
*ES (Energy Storage)

Rated current I _n [A]	UL rec	DIN 110mm With flap indicator Article Number	DIN 110mm With fitting for microswitch Article Number	DIN 110mm With fitting for microswitch Article Number	DIN 110mm With fitting for microswitch 90° Article Number
315	✓*	2073332.315	2073432.315	2073532.315	2078632.315
350	✓*	2073332.350	2073432.350	2073532.350	2078632.350
400	✓*	2073332.400	2073432.400	2073532.400	2078632.400
450	✓*	2073332.450	2073432.450	2073532.450	2078632.45
500	✓*	2073332.500	2073432.500	2073532.500	2078632.500
550	✓*	2073332.550	2073432.550	2073532.550	2078632.550
630	✓*	2073332.630	2073432.630	2073532.630	2078632.630
700	✓*	2073332.700	2073432.700	2073532.700	2078632.700
800	✓*	2073332.800	2073432.800	2073532.800	2078632.800
900	✓	2073332.900 ¹	2073432.900 ¹	2073532.900 ¹	2078632.900 ¹
1 000	✓	2073332.1000 ²	2073432.1000 ²	2073532.1000 ²	2078632.1000 ²
1 100	✓	2073332.1100 ²	2073432.1100 ²	2073532.1100 ²	2078632.1100 ²
1 250		2073332.1250 ³	2073432.1250 ³	2073532.1250 ³	2078632.1250 ³
1 400		2073332.1400 ³	2073432.1400 ³	2073532.1400 ³	2078632.1400 ³
¹⁾ 1200V-IEC, 1300V-UL, ²⁾ 1000V-IEC, 1000V-UL, ³⁾ 900V-IEC, No-UL Weight [kg / 1] 1.26 1.26 1.26 1.26 Dimensions [in / mm] A 2.83 / 72 2.83 / 72 2.83 / 72 2.83 / 72 B 1.38 / 35 1.38 / 35 1.38 / 35 1.38 / 35 C 0.43 / 11 0.43 / 11 0.43 / 11 0.43 / 11 D 2.87 / 73 2.87 / 73 2.87 / 73 2.87 / 73 E 4.17 / 106 4.17 / 106 4.17 / 106 4.17 / 106 F 0.24 / 6 0.24 / 6 0.24 / 6 0.24 / 6 G — 3.46 / 88 3.46 / 88 3.46 / 88 H — 4.37 / 111 4.37 / 111 4.37 / 111 L 5.43 / 138 5.43 / 138 5.43 / 138 5.43 / 138					

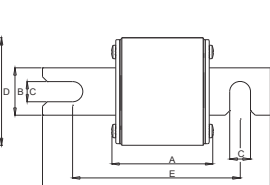


2078632 - Microswitch rotated 90°

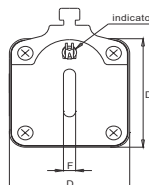
* ES "Energy Storage" - Contact SIBA - Telephone - 973-575-7422, e-mail - info@sibafuse.com



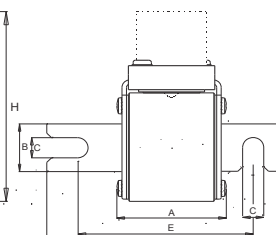
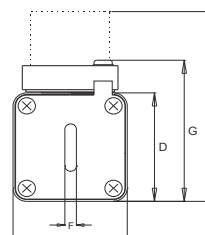
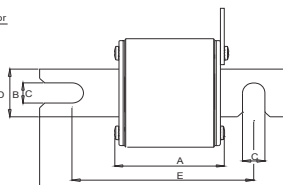
2073332



2073432



2073532



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base, UL E180276			Microswitch - N0-NC, UL E309038		
110mm center, 1400V, 630A	2132301	545	Standard level	2800201	540
110mm center, 1400V, 1250A	2132302		Low level	2800203	
			Standard level	2800114	541
			Low level	2801114	

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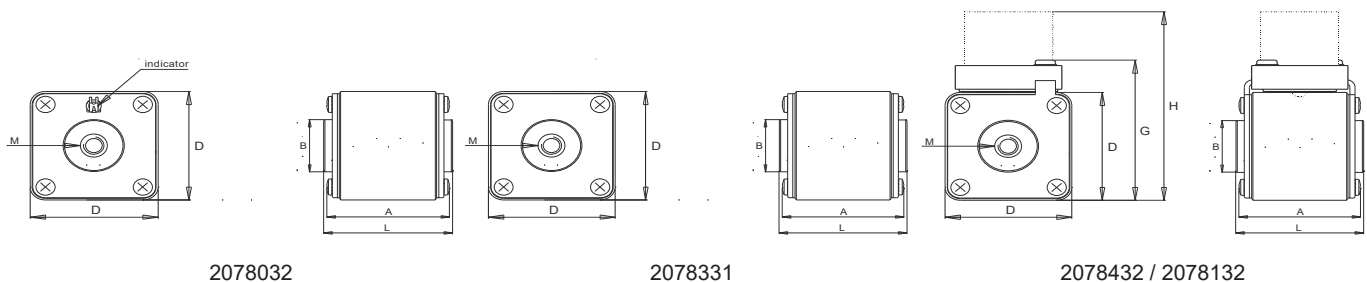
Phone 1-973-575-7422

Fax 1-973-575-5858

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

URS - SQB3		Rated Voltage		Rated Breaking Test		Class	Standard(s)
		[U _n]	Capacity	Voltage	aR	UL 248-13	
		1300V _{AC} - UL	100kA	1000V _{AC}		IEC 60269-4	
		1250V _{AC} - IEC			VDE 0636-4		
UL File E180276		900V _{DC} - UL*	200kA @ L/R =2.7ms*	900V _{DC}	*ES (Energy Storage)		
Rated current I _n [A]	UL rec	US - 1/2" UNC Without indicator Article Number	US - 1/2" UNC With fitting for microswitch Article Number	M12 With flap indicator Article Number	M12 With fitting for microswitch Article Number		
315	✓*	2078331.315	2078432.315	2078032.315	2078132.315		
350	✓*	2078331.350	2078432.350	2078032.350	2078132.350		
400	✓*	2078331.400	2078432.400	2078032.400	2078132.400		
450	✓*	2078331.450	2078432.450	2078032.45	2078132.45		
500	✓*	2078331.500	2078432.500	2078032.500	2078132.500		
550	✓*	2078331.550	2078432.550	2078032.550	2078132.550		
630	✓*	2078331.630	2078432.630	2078032.630	2078132.630		
700	✓*	2078331.700	2078432.700	2078032.700	2078132.700		
800	✓*	2078331.800	2078432.800	2078032.800	2078132.800		
900	✓	2078331.900 ¹	2078432.900 ¹	2078032.900 ¹	2078132.900 ¹		
1 000	✓	2078331.1000 ²	2078432.1000 ²	2078032.1000 ²	2078132.1000 ²		
1 100	✓	2078331.1100 ²	2078432.1100 ²	2078032.1100 ²	2078132.1100 ²		
1 250		2078331.1250 ³	2078432.1250 ³	2078032.1250 ³	2078132.1250 ³		
1 400		2078331.1400 ³	2078432.1400 ³	2078032.1400 ³	2078132.1400 ³		
1) 1200V-IEC, 1300V-UL, 2) 1000V-IEC, 1000V-UL, 3) 900V-IEC, No-UL							
Weight [kg / 1]							
		1.03	1.15	1.03	1.15		
Dimensions [in / mm]							
A	A	2.83 / 72	2.83 / 72	2.83 / 72	2.83 / 72		
	B	1.10 / 28	1.10 / 28	1.10 / 28	1.10 / 28		
	D	2.87 / 73	2.87 / 73	2.87 / 73	2.87 / 73		
	G	3.46 / 88	—	—	3.46 / 88		
	H	4.37 / 111	—	—	4.37 / 111		
	L	2.89 / 73.5	2.89 / 73.5	2.89 / 73.5	2.89 / 73.5		
M		1/2" UNC		M12			
		Thread depth 0.47 / 12					
		Torque max. - 52N•m / 38.3lb•ft					

* ES "Energy Storage" - Contact SIBA - Telephone - 973-575-7422, e-mail - info@sibafuse.com



Accessories

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

URS - SQB3



UL File E180276

Rated Voltage

[U_n]1300V_{AC} - UL1250V_{AC} - IEC900V_{DC} - UL*

Rated Breaking Test

Capacity

100kA

200kA @ L/R = 2.7ms*

Voltage

1000V_{AC}

Class

aR

Standard(s)

UL 248-13

IEC 60269-4

VDE 0636-4

*ES (Energy Storage)

Rated current I _n [A]	Rated Voltage [U _n] IEC 60269-4 [V _{AC}]	Rated Voltage [U _n] UL 248-13 [V _{AC}]	Rated Voltage [U _n] UL 248-13 [V _{DC}]		Pre-arcing i ² t [A ² s]	Total i ² t @ 1000V _{AC} [A ² s]	Power loss [W]
315	1 250	1 300	900		11 000	60 000	83
350	1 250	1 300	900		15 000	90 000	85
400	1 250	1 300	900		22 000	130 000	92
450	1 250	1 300	900		33 000	190 000	99
500	1 250	1 300	900		42 000	230 000	110
550	1 250	1 300	900		56 000	320 000	115
630	1 250	1 300	900		83 000	480 000	120
700	1 250	1 300	900		113 000	640 000	131
800	1 250	1 300	900		201 000	1 070 000	135
900	1 200	1 300	—		236 000	1 300 000	140
1 000	1 000	1 000	—		350 000	1 900 000	150
1 100	1 000	1 000	—		443 000	2 400 000	174
1 250	900	—	—		652 000	3 300 000	198
1 400	900	—	—		852 000	3 900 000	210



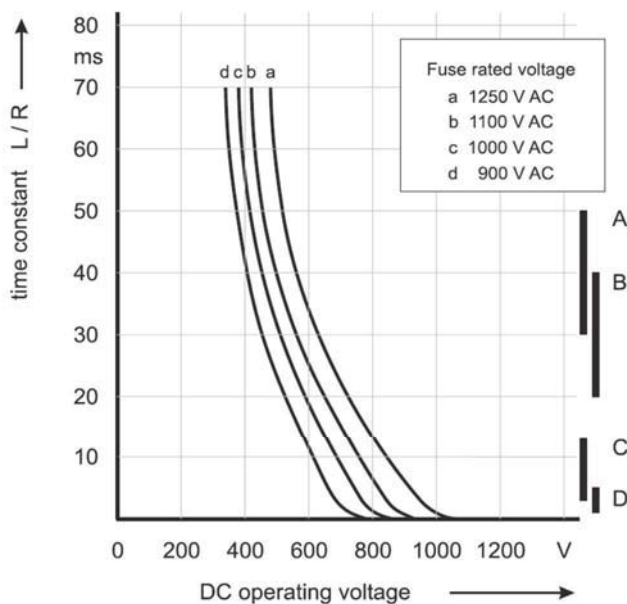
Coefficients for Heavy Duty Applications

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

DC tested breaking capacity

I_{min}: 10xI_n @ 900V_{DC}, L/R=2ms

DC Application



The use under DC-Voltage needs to consider the following

- the DC-Circuit voltage
- the time constant
- the smallest fault current

typical applications

- A Traction
- B DC-Drives
- C Battery circuits
- D DC-Link, VSI, USV, PV



As a first assumption the minimum fault current should be 10 times the planned fuse rating. If smaller fault currents are expected our application engineers should be consulted.

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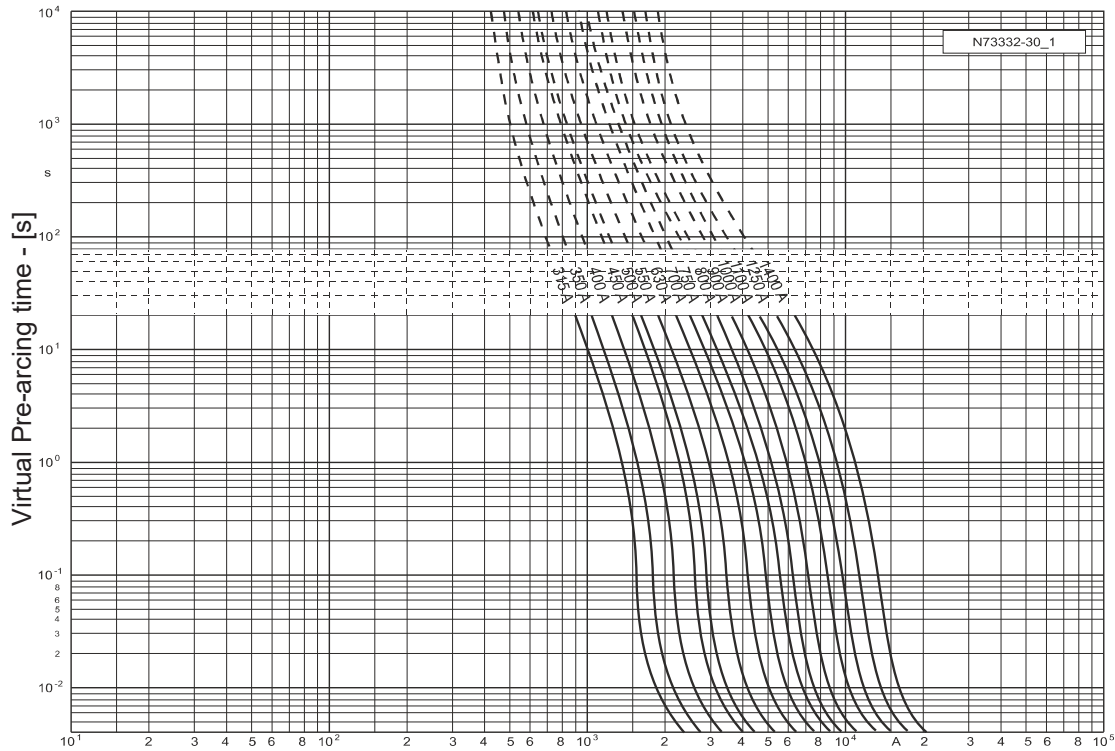
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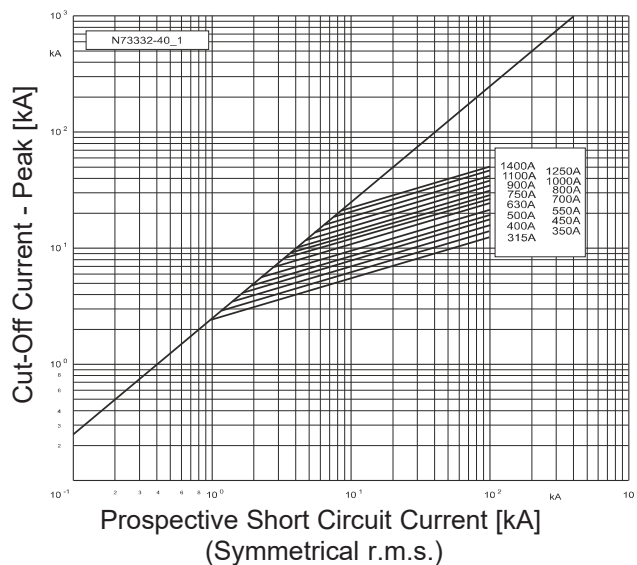
URS - SQB3	Rated Voltage [U _n]	Rated Breaking Test Class Capacity	Standard(s)
cRU[®] US	1300V _{AC} - UL	100kA	UL 248-13
UL File E180276	1250V _{AC} - IEC	200kA @ L/R = 2.7ms*	IEC 60269-4
	900V _{DC} - UL*		VDE 0636-4
			*ES (Energy Storage)

Time-Current Characteristics

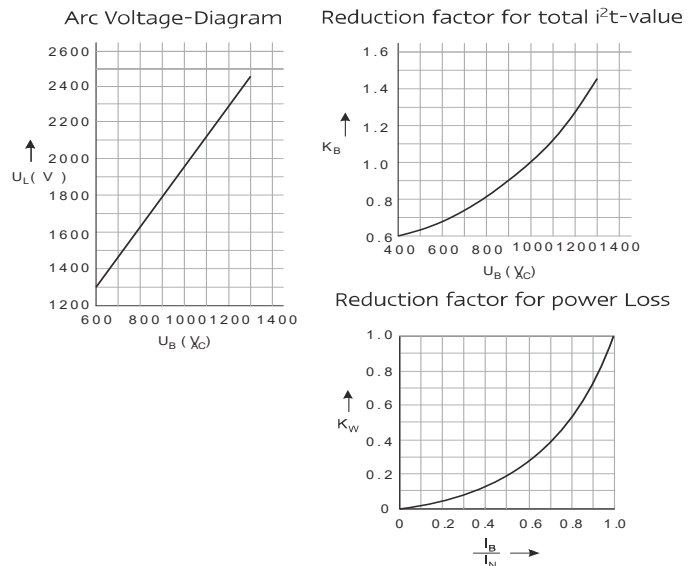


R.M.S. Prospective Current [A]
Full size graphs available upon request

Cut-Off Current Characteristics



Correction Curves

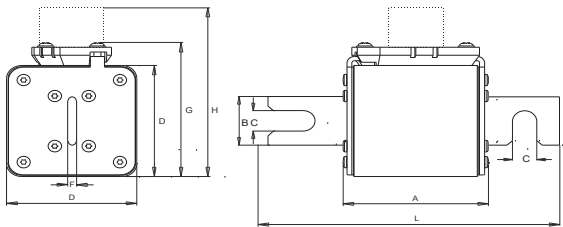


URS - SQB3-70	Rated Voltage [U _n] 1250V _{AC}	Rated Breaking Test Capacity 100kA	Class aR	Standard(s) IEC 60269-4 VDE 0636-4
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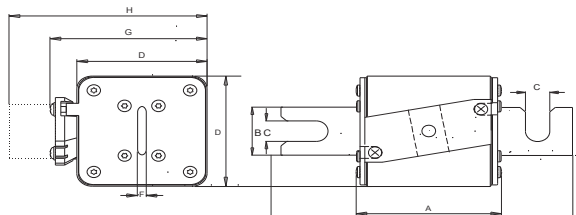
DIN 43653

Rated current I_n [A]	M12 With fitting for microswitch Article Number	DIN 110mm With fitting for microswitch Article Number	US Long With fitting for microswitch Article Number	DIN 110mm With fitting for microswitch Article Number		Rated voltage $[U_n]$ IEC 60269-4 [V]	Pre-arcing I^2t [A ² s]	Total I^2t @ 1000V _{AC} [A ² s]	Power loss @ 0.8x I_n [W]								
1 000	2078152.1000 ¹	2073552.1000 ²	2073852.1000 ³	2078652.1000 ²		1 250	346 000	1 000 000	90								
1 100	2078152.1100 ¹	2073552.1100 ²	2073852.1100 ³	2078652.1100 ²		1 250	486 000	1 400 000	99								
1 250	2078152.1250 ¹	2073552.1250 ²	2073852.1250 ³	2078652.1250 ²		1 250	678 000	2 000 000	109								
1 400	2078152.1400 ¹	2073552.1400 ²	2073852.1400 ³	2078652.1400 ²		1 000	903 000	3 600 000	118								
1 500	2078152.1500 ¹	2073552.1500 ²	2073852.1500 ³	2078652.1500 ²		900	1 126 000	5 000 000	128								
1 600	2078152.1600 ¹	2073552.1600 ²	2073852.1600 ³	2078652.1600 ²		900	1 374 000	6 100 000	137								
	UNC - 1/2"US With fitting for microswitch Article Number	DIN 110mm With fitting for microswitch 90° Article Number	Without indicator Article Number	Coefficients for Heavy Duty Applications <table><tr><td>aCf3</td><td>A2</td><td>B1_{max}</td><td>B2</td></tr><tr><td>130</td><td>0.61.25</td><td></td><td>0.6 0.8</td></tr></table>						aCf3	A2	B1 _{max}	B2	130	0.61.25		0.6 0.8
	aCf3	A2	B1 _{max}							B2							
	130	0.61.25								0.6 0.8							
	¹⁾ 2078452.(Amp)	²⁾ 2078652.(Amp)	³⁾ 2073951.(Amp)														
	Weight [kg / 1]																
1.03	1.03	1.03															
Dimensions [in / mm]																	
A	3.23 / 82	3.23 / 82	3.23 / 82														
B	1.10 / 28	1.38 / 35	1.38 / 35														
C		0.43 / 11	0.63 / 16														
D	2.87 / 73	2.87 / 73	2.87 / 73														
E	—	4.17 / 106	—														
E1	—	—	5.59 / 142														
E2	—	—	4.25 / 108														
F	—	0.24 / 6	0.24 / 6														
G	3.46 / 88.346	88.46 / 88															
H	4.37 / 111	4.37 / 111	4.37 / 111														
L	3.58 / 91	5.43 / 138	6.57 / 167														
M	M12 or 1/2" UNC Thread depth 0.39 / 10 Torque max - 52N•m / 38.3lb•ft		— — —														

2073552

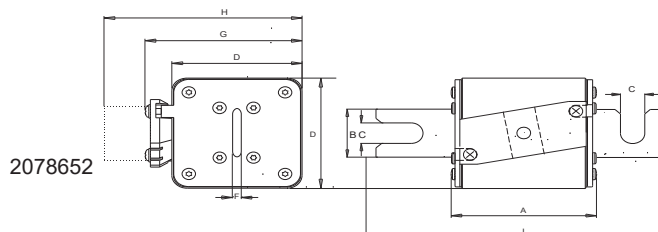
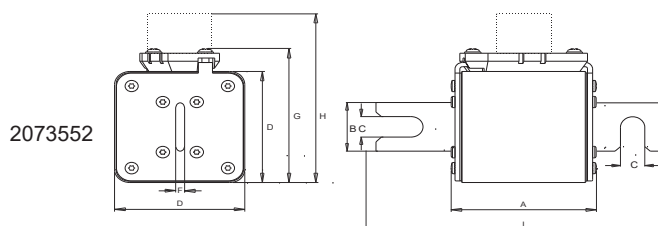


2078652



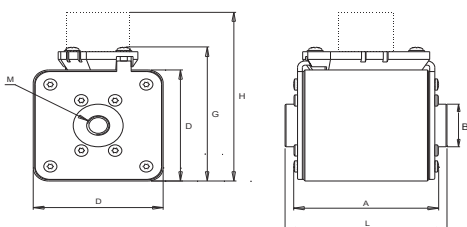
Coefficients for Heavy Duty Applications

aCf3	A2	B1 _{max}	B2
130	0.61.25	0.6	0.8

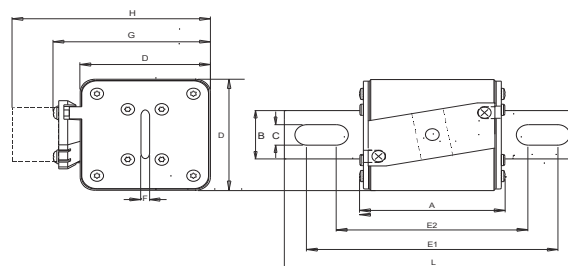


Microswitch rotated 90°

For DC Application see page 458



2078152 / 2078452



2073852 / 2073951

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
			Microswitch - N0-NC, UL E309038		
			Standard level	2800114	541
			Low level	2801114	

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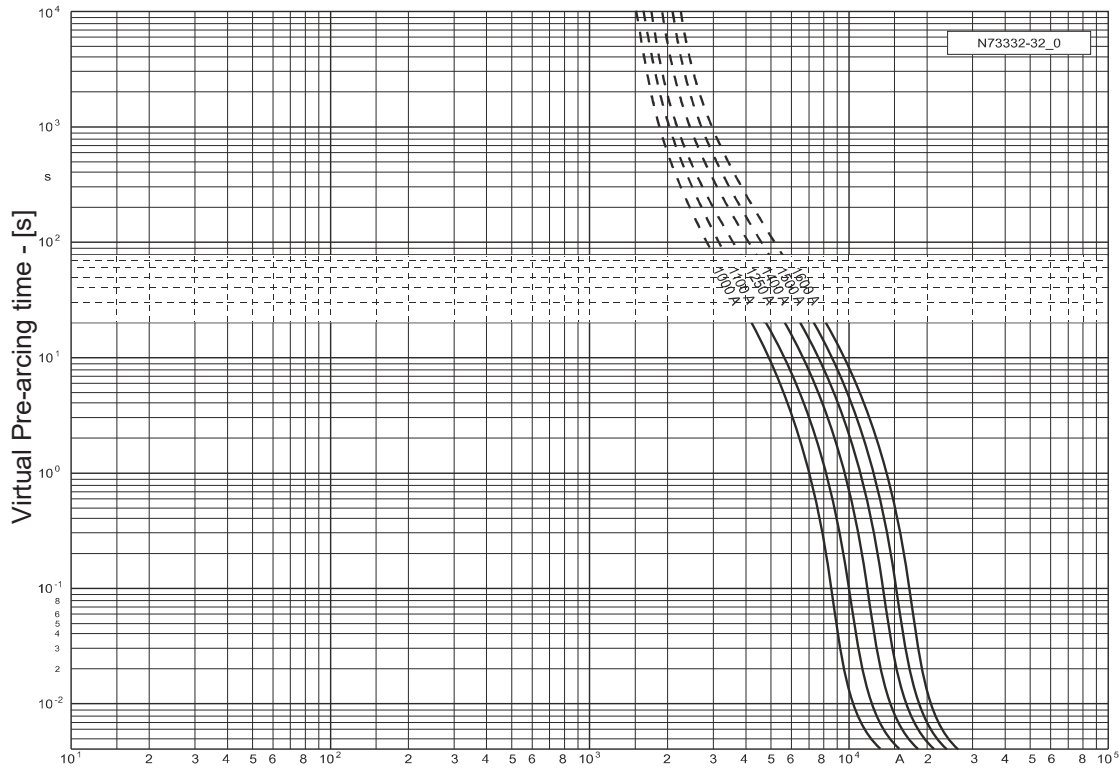
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 Fax 1-973-575-5858

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 e-mail: info@sibafuse.com

URS - SQB3-70	Rated Voltage [U _n] 1250V _{AC}	Rated Breaking Test Capacity 100kA	Class aR Voltage @ U _n	Standard(s) IEC 60269-4 VDE 0636-4
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DIN 43653

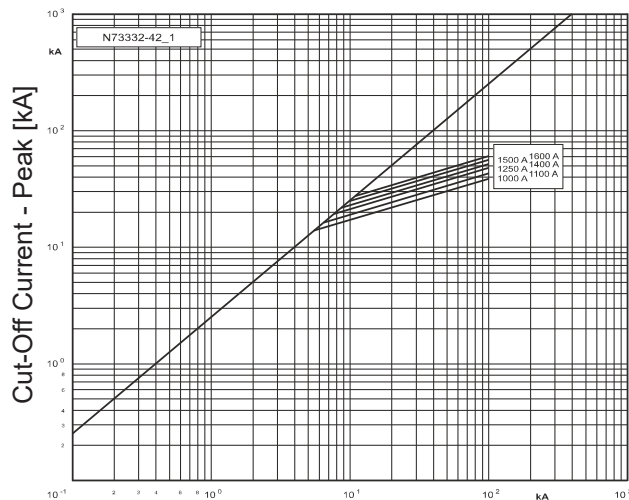
Time-Current Characteristics



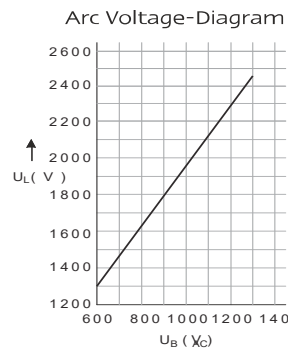
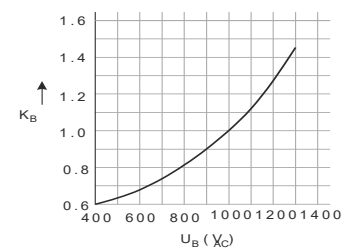
R.M.S. Prospective Current [A]

Full size graphs available upon request

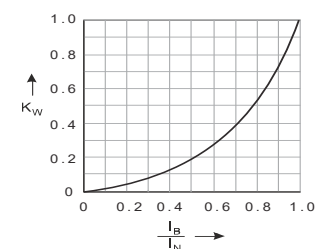
Cut-Off Current Characteristics

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

Correction Curves

Reduction factor for total i²t-value

Reduction factor for power Loss



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URS - SQB3x2	Rated Voltage [U _n] 1250V _{AC}	Rated Breaking Test Capacity 120kA	Class aR	Standard(s) IEC 60269-4 VDE 0636-4
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DIN 43653

Rated current I _n [A]	SQB3x-2 With fitting for microswitch Article Number	Rated voltage [U _n] IEC 60269-4 [V]	Rated voltage [U _n] UL 248-13 [V]		Pre-arcing I ² t [A ² s]	Total I ² t @ 1000V _{AC} [A ² s]	Power loss @ I _n [W]
800	2078832.800	1 250	—		88 000	520 000	193
900	2078832.900	1 250	—		132 000	760 000	208
1 000	2078832.1000	1 250	—		168 000	920 000	231
1 250	2078832.1250	1 250	—		332 000	1 920 000	252
1 400	2078832.1400	1 250	—		452 000	2 560 000	275
1 600	2078832.1600	1 250	—		804 000	4 280 000	284
1 800	2078832.1800	1 200	—		944 000	5 200 000	294
2 000	2078832.2000	1 000	—		1 400 000	7 600 000	315
2 200	2078832.2200	1 000	—		1 772 000	9 600 000	365
2 500	2078832.2500	900	—		2 600 000	13 200 000	416
2 800	2078832.2800	900	—		3 400 000	15 600 000	441

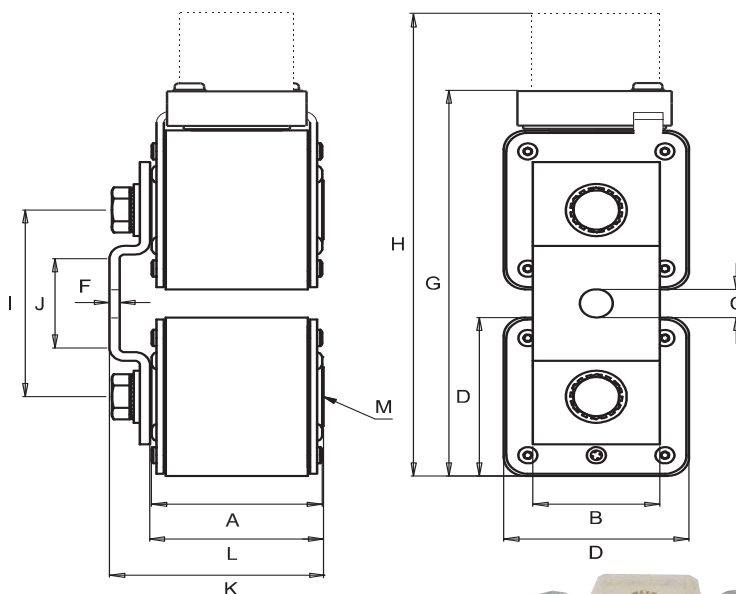
Weight [kg / 1]

2.65

Coefficients for Heavy Duty Applications

a1	A2	B1 _{max}	B2	Cf3
130	0.6	1.25	0.6	0.8

	Dimensions [in / mm]
A	2.83 / 72
B	1.97 / 50
C	0.50 / 13
D	2.87 / 73
F	0.16 / 4
G	6.85 / 174
H	7.76 / 197
I	3.39 / 86
J	1.57 / 40
K	3.54 / 90
L	2.89 / 73.5
M	M12
Thread depth 0.47 / 12	
Torque max. - 52N•m / 38.3lb•ft	



For DC Application see pages 458

Accessories



Article Description	Article Number	Page	Article Description	Article Number	Page
			Microswitch - N0-NC, UL E309038		
			Standard level	2800114	541
			Low level	2801114	

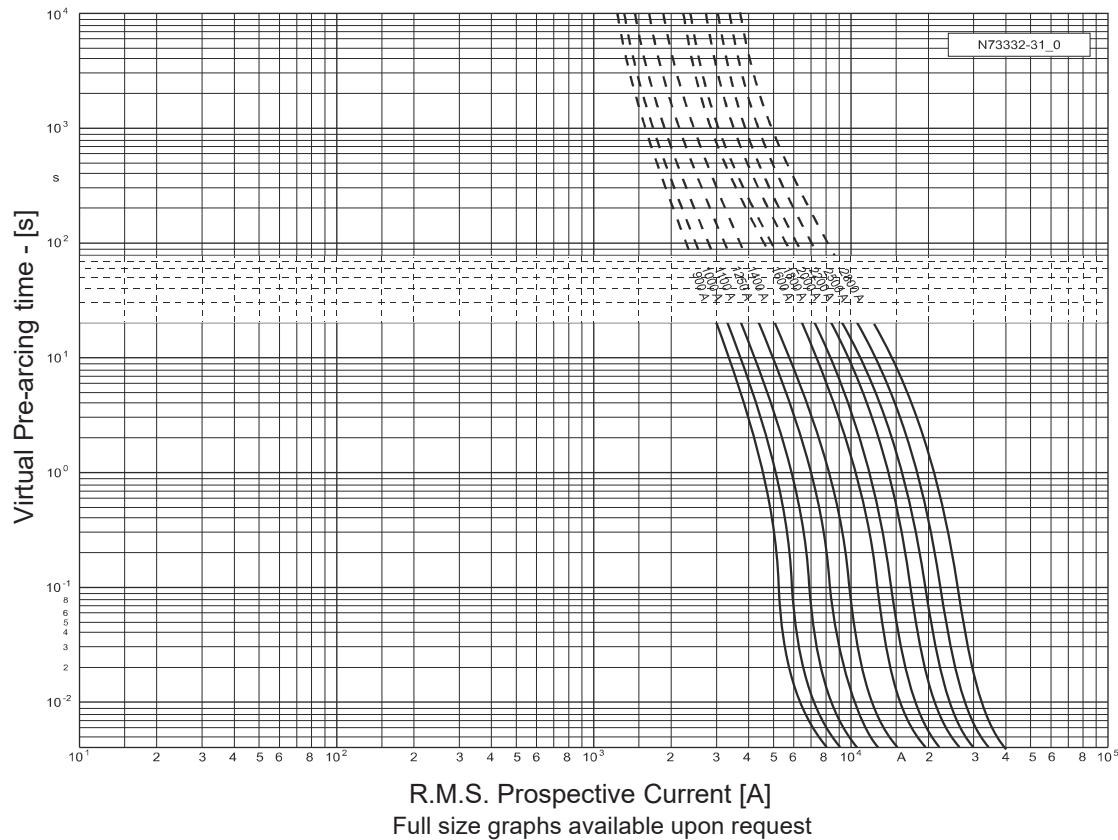
SIBA LLC

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

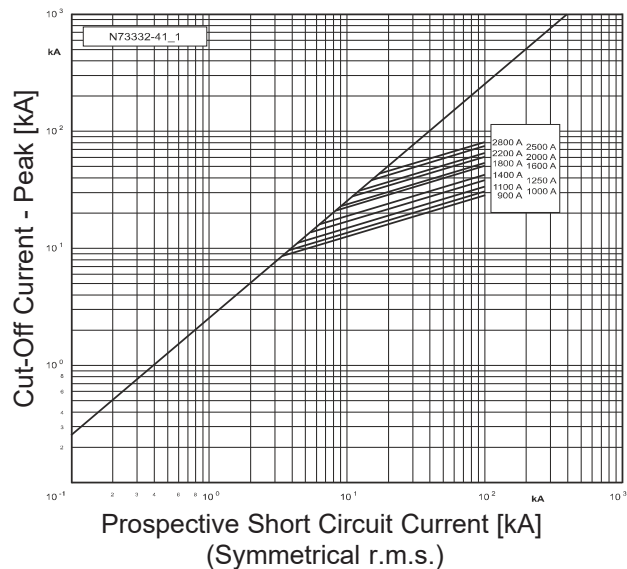
URS - SQB3x2	Rated Voltage [U _n] 1250V _{AC}	Rated Breaking Test Capacity 120kA	Class aR	Standard(s) IEC 60269-4 VDE 0636-4
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DIN 43653

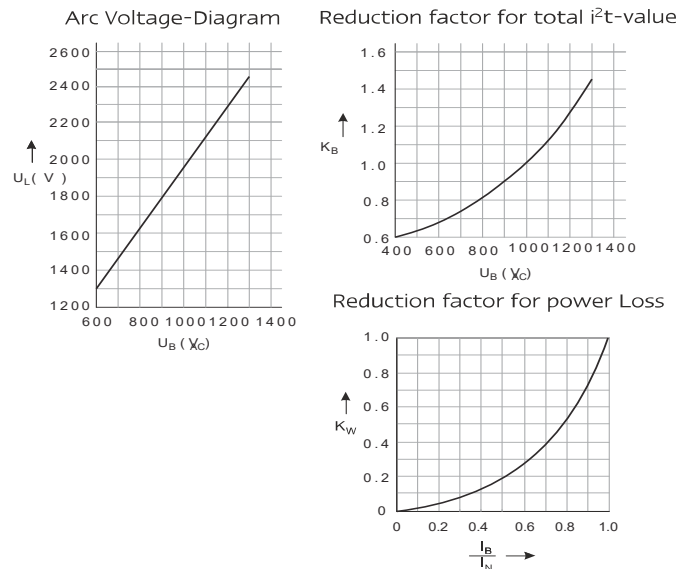
Time-Current Characteristics



Cut-Off Current Characteristics



Correction Curves



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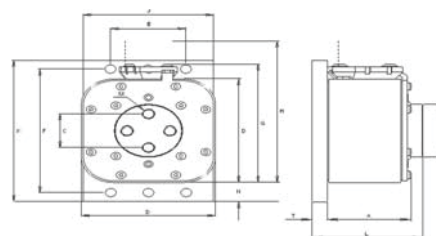
URS - SQB4	Rated Voltage [U _n] 1100V _{AC}	Rated Breaking Test Capacity 100kA	Class aR	Standard(s) Following IEC 60269-4
DIN 43653				

Rated current I _n [A]	4XM10 With fitting for microswitch Article Number	4XM10 / flange With fitting for microswitch Article Number	4XM10 / flange With fitting for microswitch Article Number	Rated voltage [U _n] IEC 60269-4 [V]	Pre-arcing i ² t [A ² s]	Total i ² t @ 1000V _{AC} [A ² s]	Power loss @ 0.8xI _n [W]
1 000	2079532.1000	2079632.1000	2079732.1000	—	—	—	—
1 100	2079532.1100	2079632.1100	2079732.1100	—	—	—	—
1 500	2079532.1500	2079632.1500	2079732.1500	—	—	—	—
1 600	2079532.1600	2079632.1600	2079732.1600	1 100	635 000	3 200 000	180
1 700	2079532.1700	2079632.1700	2079732.1700	—	—	—	—
1 800	2079532.1800	2079632.1800	2079732.1800	1 100	886 000	4 800 000	185
2 000	2079532.2000	2079632.2000	2079732.2000	1 000	1 180 000	5 560 000	190
2 200	2079532.2200	2079632.2200	2079732.2200	1 000	1 770 000	8 350 000	195
2 400	2079532.2400	2079632.2400	2079732.2400	900	2 720 000	12 800 000	199
2 500	2079532.2500	2079632.2500	2079732.2500	—	—	—	—
2 700	2079532.2700	2079632.2700	2079732.2700	—	—	—	—
						i ² t @ 880V _{AC} [A ² s]	
3 000	2079532.3000	2079632.3000	2079732.3000	800	3 613 000	22 300 000	235
3 200	2079532.3200	2079632.3200	2079732.3200	800	4 640 000	28 640 000	260

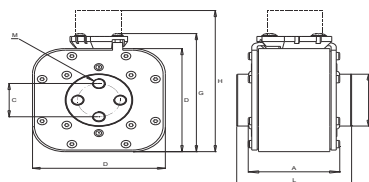
	Weight [kg / 1]		
	1.9		
	Dimensions [in / mm]		
A	2.95 / 75	2.76 / 70	2.76 / 70
B	2.05 / 52	2.05 / 52	2.05 / 52
C	1.30 / 33	1.30 / 33	1.30 / 33
D	4.06 / 103	4.06 / 103	4.06 / 103
E	—	2.76 / 70	2.76 / 70
F	—	5.04 / 128	5.04 / 128
G	4.65 / 118	4.65 / 118	4.65 / 118
H	5.55 / 141	5.55 / 141	5.55 / 141
J	—	3.94 / 100	3.94 / 100
K	—	5.75 / 146	5.75 / 146
L	3.46 / 88	3.31 / 84	3.31 / 84
M	M10 Thread depth 0.38 / 10, Torque max - 39N•m / 28.7lb•ft		
N		0.85 / 22	0.85 / 22
T		0.31 / 8	0.31 / 8

Coefficients for Heavy Duty Applications

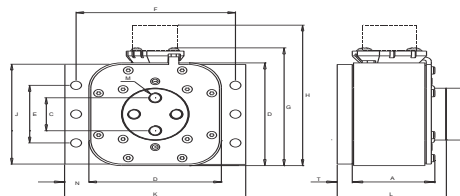
a	A2	B ₁ max	B2	Cf3
130	0.6	1.25	0.6	0.8



2079732



2079532



2079632

Accessories

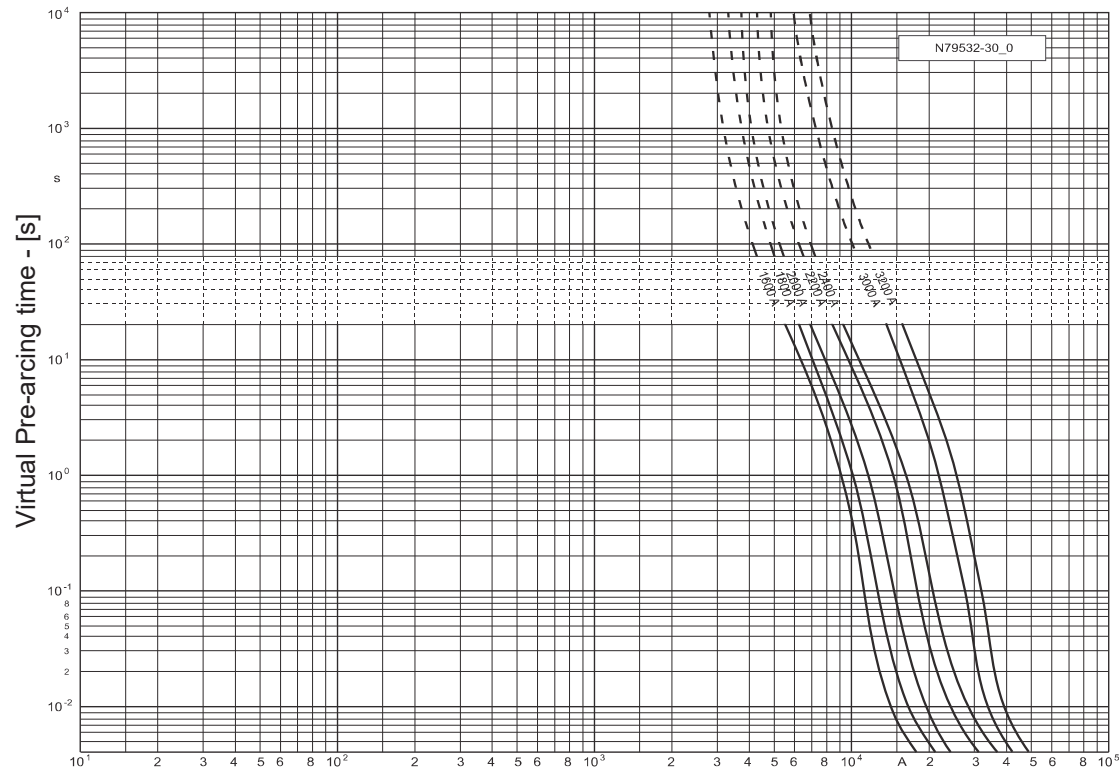
Article Description	Article Number	Page	Article Description	Article Number	Page
			Microswitch - N0-NC, UL E309038		
			Standard level	2800114	541
			Low level	2801114	

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URS - SQB4	Rated Voltage [U _n] 1100V _{AC}	Rated Breaking Test Capacity 100kA	Class aR	Standard(s) Following IEC 60269-4
DIN 43653			1000V _{AC} 800V _{AC}	

Time-Current Characteristics



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



URS - SQB4	Rated Voltage [U _n] 1250V _{AC}	Rated Breaking Test Capacity 100kA	Class aR	Standard(s) Following IEC 60269-4
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DIN 43653

Rated current I _n [A]	SQB4-4M10 With fitting for microswitch Article Number	Press-pack Contact SIBA Article Number		Rated voltage [U _n] IEC 60269-4 [V]	Pre-arcing i ² t [A ² s]	Total i ² t @ 1250V _{AC} [A ² s]	Power loss @ 0.7xI _n [W]
1 600	2079552.1600	—		1 250	888 200	5 850 000	130
			Higher current ratings				
			upon request				

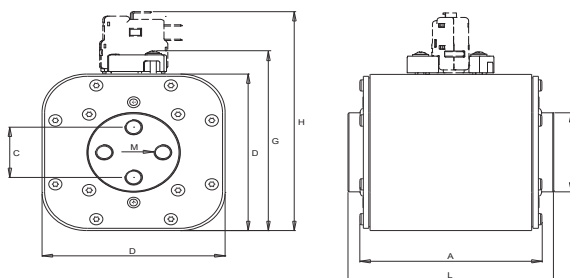
Coefficients for Heavy Duty Applications

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

For Time - Current Characteristic Curves, Contact SIBA 973 -575 7422 or e-mail info@sibafuse.com

	Dimensions [in / mm]
A	3.66 / 93
B	2.05 / 52
C	1.30 / 33
D	4.06 / 103
E	—
F	—
G	4.65 / 118
H	5.55 / 141
J	—
K	—
L	4.19 / 106.5
M	M10 Thread depth 0.39 / 10

Torque max. - 39N•m / 28.7lb•ft



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
			Microswitch - N0-NC, UL E309038		
			Standard level	2800114	541
			Low level	2801114	

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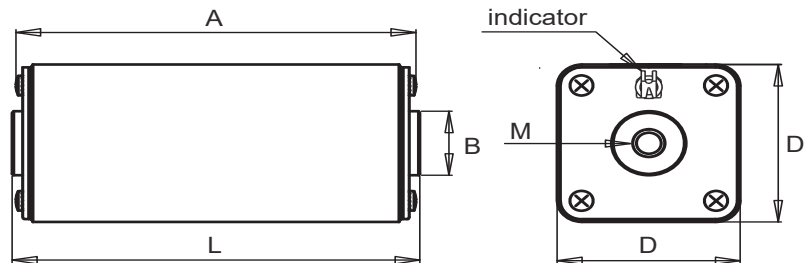
Phone 1-973-575-7422
Fax 1-973-575-5858

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

URS - SQB2		Rated Voltage [U _n] 1400V _{AC}	Rated Breaking Test Capacity 30kA	Voltage 1400V _{AC}	Class aR	Standard(s) Company Standard
Rated current I _n [A]	SQB2-M10 With flap indicator Article Number			Pre-arcing I ² t I [A ² s]	Total ² t @ 1400V _{AC} [A ² s]	Power loss @ 0.8xI _n [W]
300	9042118.300			486 000	2 140 000	45
500	9042118.500			903 000	3 970 000	112
	Weight [kg / 1]					
	1.6					

Coefficients for Heavy Duty Applications					
a	A2	B1 _{max}	B2	Cf3	
139	0.6	1.25	0.5	0.8	

	Dimensions [in / mm]
A	6.18 / 157
B	0.964 / 24
C	—
D	2.36 / 60
E	—
F	—
G	—
H	—
J	—
K	—
L	6.26 / 159
M	M10 Thread depth 0.39 / 10
Torque max. - 39N•m / 28.7lb•ft	



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page

URS - SQB2

Rated Voltage

[U_n]1400V_{AC}

Rated Breaking Test

Capacity

30kA

Voltage

1400V_{AC}

Class

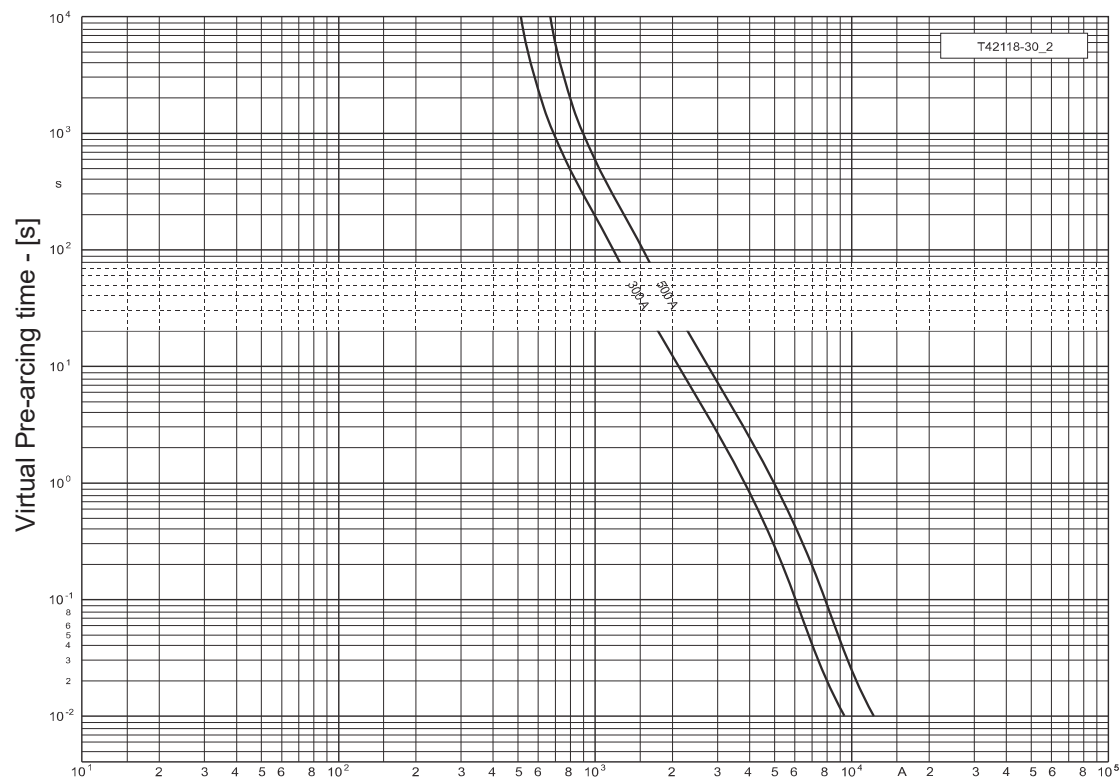
aR

Standard(s)

Company

Standard

Time-Current Characteristics



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

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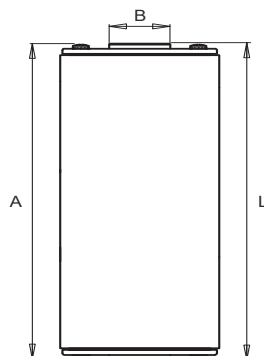
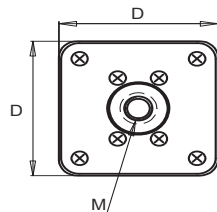
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URS - SQB3	Rated Voltage [U _n] 2000V _{AC}	Rated Breaking Test Capacity 100kA	Rated Breaking Test Voltage 2000V _{AC}	Class aR	Standard(s) IEC 60269 - 4 VDE 0636 - 40
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DIN 43653

Rated current I _n [A]	SB3-M12 Without indicator Article Number	SB3-M12 With fitting for microswitch Article Number	Rated Voltage [U _n] IEC 60269-4 [V]	Rated Voltage [U _n] UL 248-13 [V]		Pre-arcing I ² t [A ² s]	Total I ² t @ 2000V _{AC} [A ² s]	Power loss @ I _n [W]
250	2075331.250	2075332.250	2 000	—		56 500	356 000	121
450	2075331.450	2075332.450	2 000	—		66 500	419 000	131
500	2075331.500	2075332.500	2 000	—		89 200	562 000	135
550	2075331.550	2075332.550	2 000	—		124 600	785 000	138
630	2075331.630	2075332.630	2 000	—		220 000	1 390 000	142
700	2075331.700	2075332.700	2 000	—		329 000	2 250 000	145
Weight [kg / l]								
2.1								
Dimensions [in / mm]								
A	5.61 / 142.5	5.61 / 142.5						
B	1.10 / 28	1.10 / 28						
D	2.86 / 73	2.86 / 73						
G	3.46 / 88	3.46 / 88						
H	4.45 / 113	4.45 / 113						
L	5.65 / 143.5	5.65 / 143.5						
M12								
Thread depth 0.47 / 12								
Torque max. - 52N•m / 38.3lb•ft								

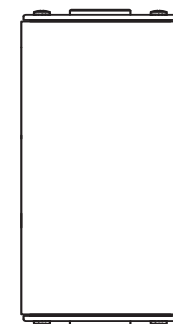
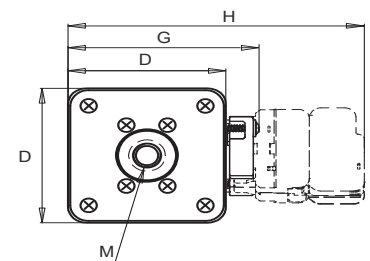
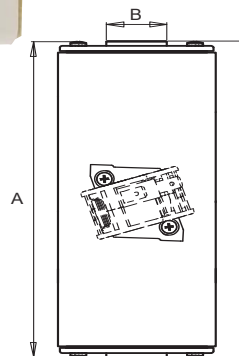


Coefficients for Heavy Duty Applications					
a	A2	B1 _{max}	B2	Cf3	
130	0.6	1.25	0.5	0.8	



2075331

2075332



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Microswitch - N0-NC			Microswitch - 2x - N0-NC		
Standard level	2800311	542	Standard level	2800321	543
Low level	2800411		Low level	2800421	

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URS - SQB3

Rated Voltage

[U_n]2000V_{AC}

Rated Breaking Test

Capacity

100kA

Voltage

2000V_{AC}

Class

aR

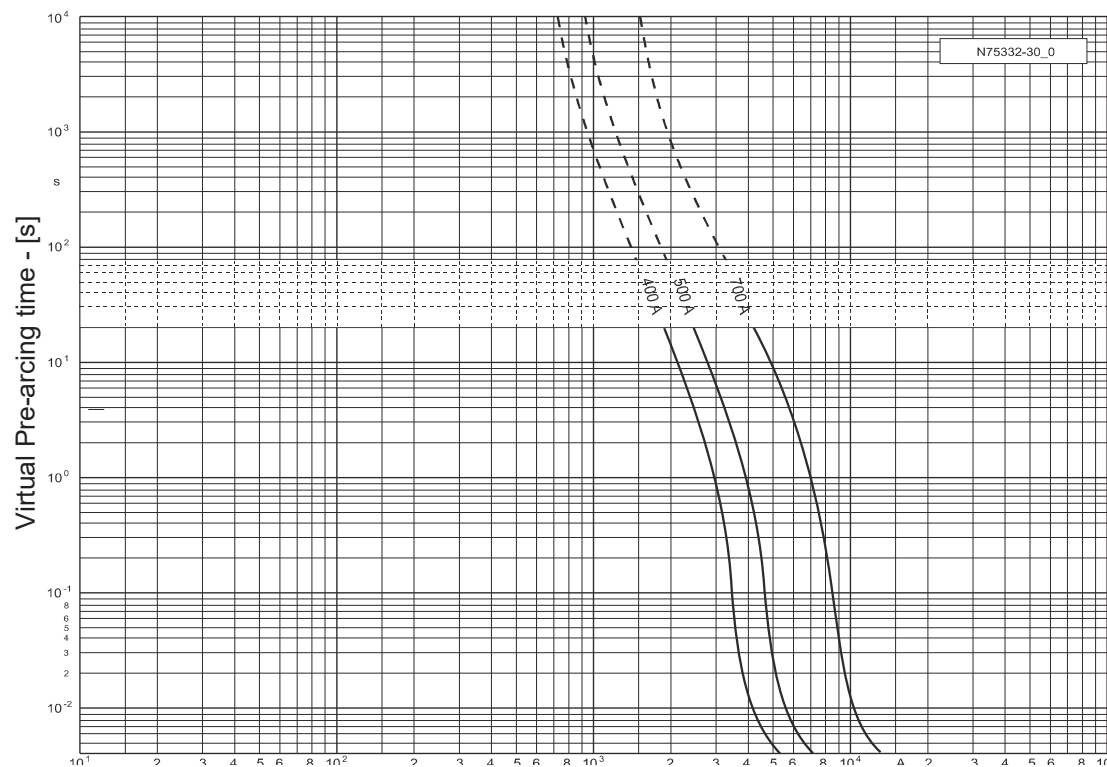
Standard(s)

IEC 60269 - 4

VDE 0636 - 40

DIN 43653

Time-Current Characteristics



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

URS - SQB3	Rated Voltage [U _n]	Rated Breaking Test Capacity	Class aR	Standard(s) Company Standard following IEC 60269 - 4
	2500V _{AC}	100kA	2500V _{AC}	
	1500V _{DC}	30kA @ L/R = 15ms	1500V _{DC}	
DIN 43653	2000V _{DC}	40kA @ L/R = 10ms	2000V _{DC}	

Rated current I _n [A]	SQB3-M12 With fitting for microswitch Article Number	Rated voltage [U _n] IEC 60269-4 [V]	Rated voltage [U _n] UL 248-13 [V]	Pre-arcing I ² t [A ² s]	Total I ² t @ 2500V _{AC} [A ² s]	Power loss @ I _n [W]
250	2079152.250	2 500	—	18 400	122 000	105
315	2079152.315	2 500	—	34 900	230 000	111
350	2079152.500	2 500	—	49 000	323 000	117
400	2079152.400	2 500	—	81 000	533 000	123
450	2079152.450	2 500	—	121 000	798 000	128
500	2079152.500	2 500	—	166 000	1 100 000	132
550	2079152.550	2 500	—	248 000	1 632 000	136
630	2079152.630	2 500	—	357 000	2 350 000	142
700	2079152.700	2 500	—	486 000	3 200 000	146
800	2079152.800*	2 000*	—	903 000	5 050 000*	71
1 000	2079152.1000	1 800*	—	1 160 000	5 450 000*	111

*Tested at 1.1U_n

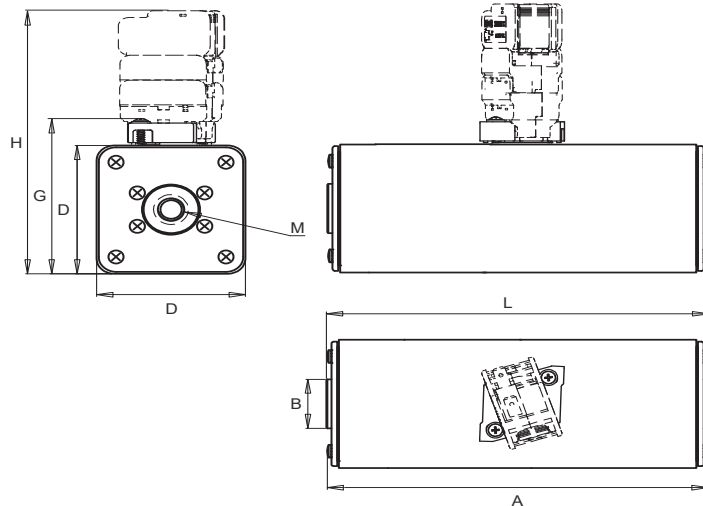
Weight [kg / 1]

2.6

Coefficients for Heavy Duty Applications

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

Dimensions	
	[in / mm]
A	7.17 / 182
B	1.10 / 28
D	2.87 / 73
G	3.46 / 88
H	5.98 / 152
L	7.52 / 191
M	M12
	Thread depth 0.39 / 10
Torque max. - 52N•m / 38.3lb•ft	



Accessories

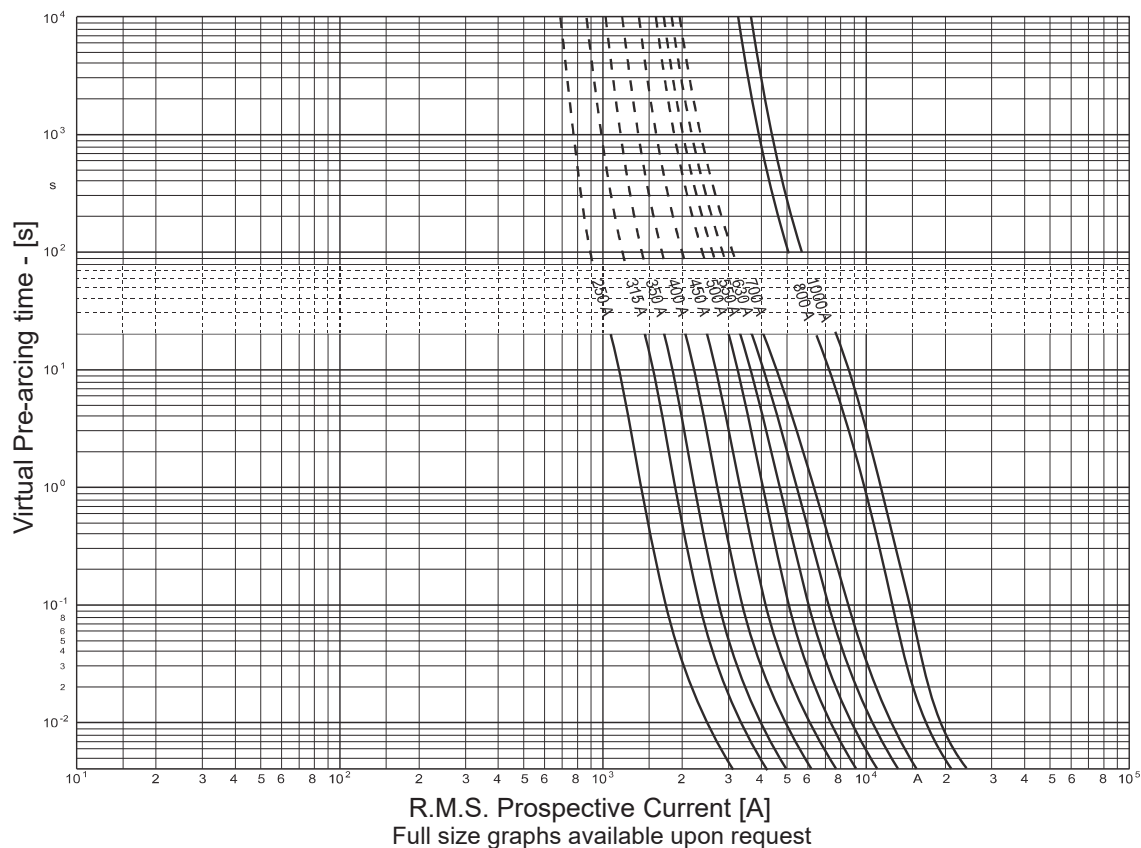
Article Description	Article Number	Page	Article Description	Article Number	Page
Microswitch - N0-NC			Microswitch - 2x - N0-NC		
Standard level	2800312	542	Standard level	2800322	543
Low level	2800412		Low level	2800422	

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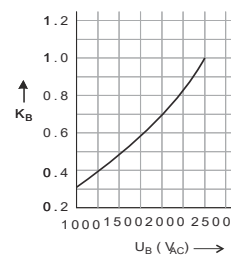
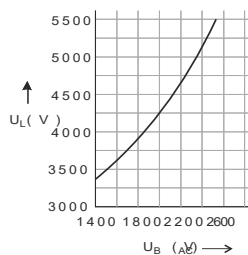
URS - SQB3	Rated Voltage	Rated Breaking Test		Class aR	Standard(s) Company Standard following IEC 60269 - 4
	[U _n]	Capacity	Voltage		
	2500V _{AC}	100kA	2500V _{AC}		
	1500V _{DC}	30kA @ L/R = 15ms	1500V _{DC}		
DIN 43653	2000V _{DC}	40kA @ L/R = 10ms	2000V _{DC}		

Time-Current Characteristics

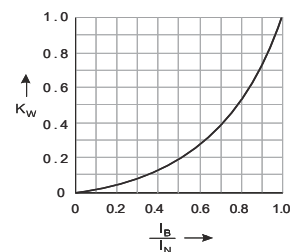


Correction Curves

Arc Voltage-Diagram

Reduction factor for total i^2t -value

Reduction factor for power Loss



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