



Fuses for Photo-Voltaic(PV) and Energy Storage Systems ESS) applications



HH - High Voltage Fuses International Standards for Indoor / Outdoor / Oil Submersible for AC and DC applications DIN / IEC Standards.

Power: HV (high Voltage) fuses from 2.4kV to 40.5kV. Transformer / Motor / Capacitor Protection. Siba HV fuses: Current Limiting - Full Range (True Full Range) - General Purpose - Back-UP. SIBA HV fuses are available with striker pins of force: 50N, 80N & 120N. All SIBA 80 N striker pin systems are fitted with an integral Temperature Limiter. Accessories: Fuse base In/Out Door, clips and insertion/removal tool.



**Transformer / Motor
Din Style R-Rated**



**Capacitor Protection
HHA American Standard**



**Under Oil and Motor
HHB British Standard**



**For PT and Under Oil
SSK Wind-Power/Low Losses**



Full Range Fuses

UR - Ultra Rapid® Fuses For Rectifiers, Inverters and Photovoltaic Systems. UL Recognized, UL Listed



**URDC PV Solar Photovoltaic
250VDC - 1500VDC**



**URZ Cylindrical
250VAC - 1000VAC**



**URS Square Body
500VAC - 2500VAC
& 2000VDC**

Over many decades, SIBA has developed a comprehensive product line of Ultra Rapid® fuses with worldwide acceptance. SIBA's worldwide distribution network provides technical support, and with our R&D Engineering Department, provides design partnerships for the development of new products with the most modern equipment for the design, manufacturing, and testing, to minimize development time.



**URB Size 000 & 00 DIN80
600VAC - 1000VAC**



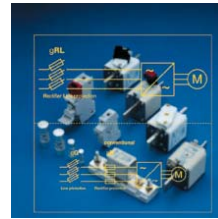
**URD ND & D
440VAC - 500VAC**



**URDC DC Fuses
440VDC - 5000VDC**



**URE British Standard
150VDC - 700VDC**



**URL Combination
690VAC - 700VAC**



**URM German Style Knife Blade
690VAC - 2000VAC**

DC Sizes: 10x38mm, 14x51mm, 22x58mm, 27x60mm, 20x127mm, 20x190mm, 36x190mm, 40x254mm, NH000 DIN80, SQB-DC0 & 2, SQB-DC2-2 (double), SQB-DC90, 1, & 2, SQB DC92-2 (double body), SQB-DC93, SQB-DC93-2 (double body), NH3, NH4.



**Battery technology
calls for the
best protection
there is**

**URDC PV Solar Photovoltaic
250 VDC - 1500 VDC**



UL Listed to 248-19

Siba Fuses is the world leader in PV Protection, Combiner & Inverters. 1500 VDC PV.



URS Square Body 500VAC - 2500VAC

SQB Size 1, 2, 3 & 4. UL & IEC. 690-2500VAC, 2000VDC. UNC & Metric Thread.



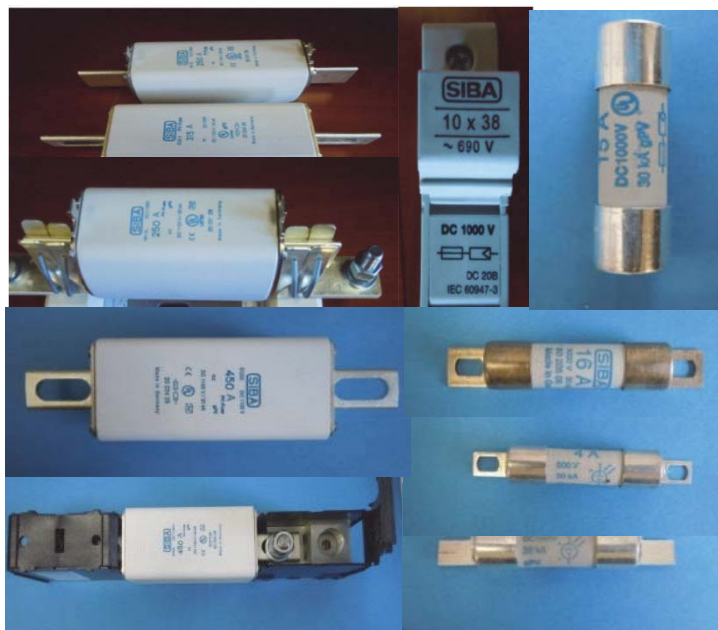
G - Miniature Fuses

SMD Miniature Cylindrical, KS, Holders & Clips. Pigtail & Panel Mount. UL / IEC / VDE / EC.



URDC-PV

World leader in innovation of Fuses for PV Semiconductor Protection

 Photo-Voltaic Systems - 600V_{DC}, 1000V_{DC}, 1100V_{DC} and 1500V_{DC}


Class:	gPV, gFP
Voltage ratings:	600V _{DC} to 1500V _{DC}
Interrupt Current:	100kA
Current: ratings:	1A to 630 A
Standards:	UL 248-19 IEC 60 269-6
Approvals:	E341342 E341490



Features and Benefits

SIBA's gPV fuses are developed to offer a compact, safe, and economic solution to Photovoltaic installations. SIBA is the world leader in innovation of fuses for PV Semiconductor Protection. SIBA has a wide range of mounting that can accommodate all kinds of mechanical designs. Voltage rating starting at 600V_{DC} up to 1500V_{DC}. It has been tested and approved by the worlds largest PV inverter manufacturers.

SIBA provides the lowest I²t as well as the lowest power losses in the industry. SIBA also has a high interrupting rating up to 100kA and the highest cyclic load in the industry.

- PV strings - module or in line
- Combiner - array level protection - modules, fuse base or bus bar
- Capacitor - protection
- Harmonic filters
- Semiconductor protection
- Ground fault protection

URDC-PV

Fuses for PV Semiconductor Protection

Article Number	Description		Selection Guide	Technical Data
400V _{DC}				
7006526	6.3x32mm	With blown fuse indication	6	
600V _{DC}				
2018926	NH00, DIN 80	With blown fuse indication	7	
2041226		With fitting for microswitch		
2018928	NH00, DIN 80	No blown fuse indication	8	
2018929		With blown fuse indication		
2041229		With fitting for microswitch		
1000V _{DC}				
5021506	10x38mm	No blown fuse indication	9	
5021606	10x38mm - PCB Mount			
5021706	10x38mm - 50.6mm mounting centers			
5021526	10x38mm	No blown fuse indication	10	
5021626	10x38mm - PCB Mount			
5021726	10x38mm - 50.6mm mounting centers			
5021826	10x38mm - For cable connection	No blown fuse indication	11	
5021528	10x38mm			
5021628	10x38mm - PCB Mount			
5021728	10x38mm - 50.6mm mounting centers		12	
5021828	10x38mm - For cable connection			
5020426	14x51mm			
5020526	14x51mm 63.5mm mounting centers	With fitting for microswitch	13	
2054427	SQB-DC101			
2054428	SQB-DC101	No blown fuse indication	14	
2054527	SQB-DC102	With fitting for microswitch		
2055620	NH1	With blown fuse indication	15	
2055621		No blown fuse indication		
2055629	NH1	With blown fuse indication	16	
2055729	NH2	With blown fuse indication	17	
2056829	NH3	With blown fuse indication	18	
5021406	14x51mm (Ground Fault)	With striker	19	
1100V _{DC}				
5023526	14x65mm	No blown fuse indication	20	
5023726	14x65mm - 77.5mm mounting centers			
5023826	10/14x85mm clip mounting			
5023926	14x65mm for cable connection	No blown fuse indication	21	
5023528	14x65mm			
5023728	14x65mm - 77.5mm mounting centers			
5023828	10/14x85mm clip mounting	With fitting for microswitch	22	
5023928	14x65mm for cable connection			
2001927	SQB1-M8	With fitting for microswitch	23	
2001928		No blown fuse indication		
2002828	NH1XL	With blown fuse indication	24	
2002829		No blown fuse indication		
2002820	NH1XL	With fitting for microswitch	25	
2002821		No blown fuse indication		
2003128	NH3L	No blown fuse indication	26	
2003129		With fitting for microswitch		
2003428	SQB2 - US Short	No blown fuse indication	27	
2003429		With fitting for microswitch		
2023128	NH3L	No blown fuse indication	28	
2023129		With fitting for microswitch		
2023428	SQB3 - US Short	No blown fuse indication	29	
2023528		No blown fuse indication		
2023529	SQB3 DIN 167mm	With fitting for microswitch		

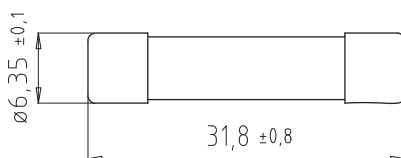
Fuses for PV Semiconductor Protection

Article Number	Description		Selection Guide	Technical Data
1500V _{DC}				
5011228	10.3x 85mm	No blown fuse indication		26
5011526	10.3x 85mm	No blown fuse indication		27
5011528	10.3x 85mm	No blown fuse indication		28
5024028	14x65mm	No blown fuse indication		29
5024228	14x65mm - 80mm			
5024328	10/14x65mm - 85mm			
5024526	14x100mm	No blown fuse indication		30
5026028	22x65mm	No blown fuse indication		31
5026228	22x65mm - 86.5mm	No blown fuse indication		
2004128	NH1XL	No blown fuse indication		32
2004129		With blown fuse indication		
2004528	SQB1 - US	No blown fuse indication		
2004529		With blown fuse indication		
2004229	NH2XL	With blown fuse indication		33
2024328	NH3L	No blown fuse indication		34
2024329		With blown fuse indication		
2024528	SQB3 - DIN 167mm	No blown fuse indication		
2024529		With blown fuse indication		
2024727	SQB3 - US Short	With blown fuse indication		
2024728		No blown fuse indication		

URDC-PV	Rated Voltage [U _n]	Rated Breaking Test Capacity	Class gPV	Standard(s) Following
6.3x32mm	400V _{DC}	30kA		IEC 60269-4

Rated current I _n [A]	Without indicator NO UL Article Number		Pre-arcing I ² t [A ² s]	Total I ² t @400V _{DC} [A ² s]	Power loss @ I _n [W]
1	7006526.1		0.58	1.1	0.6
1.25	7006526.1.25		1.1	2.2	0.63
1.6	7006526.1.6		3.2	6.5	0.6
2	7006526.2		7.1	15	0.6
2.5	7006526.2.5		14	30	0.7
3.15	7006526.3.15		11	33	0.8
4	7006526.4		23	50	0.9
5	7006526.5		42	85	1.1
6.3	7006526.6.3		63	150	1.3
8	7006526.8		150	300	1.4
Weight [kg / 1]					
0.0026					

For Time Current Curves
Contact SIBA LLC



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse Clips PCB	199429		Press on cap leads, 12.5A maximum	204100	92

URDC-PV	Rated Voltage [U _n] 600V _{DC}	Rated Breaking Test Capacity 30kA @ L/R = 2ms	Class gR	Standard(s) IEC 60269-4 VDE 0636 Part 40
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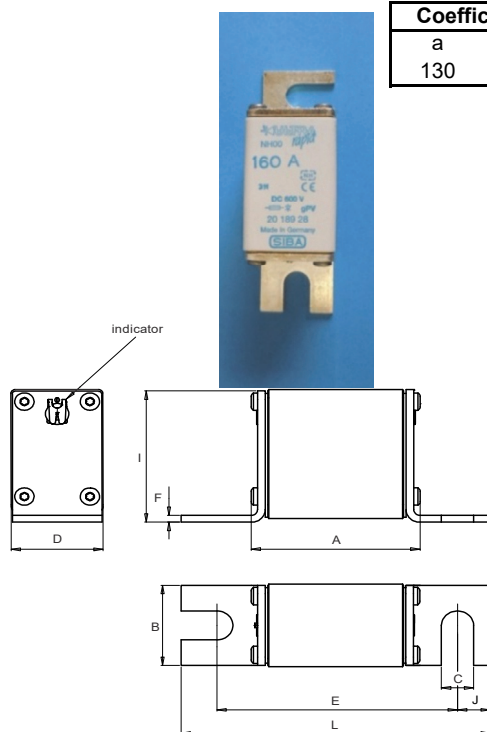
NH00-DIN80

Rated current I _n [A]	With top indicator Article Number	With top indicator and fitting for microswitch Article Number			Pre-arcing I ² t [A ² s]	Total I ² t @600V _{DC} [A ² s]	Power loss @ I _n [W]
100	2018926.100	2041226.100					
110	2018926.110	2041226.110					
125	2018926.125	2041226.125					
150	2018926.150	2041226.150					
160	2018926.160	2041226.160			4 000	24 000	21
Weight [kg / l]							
0.72							

Coefficients for Heavy Duty Applications

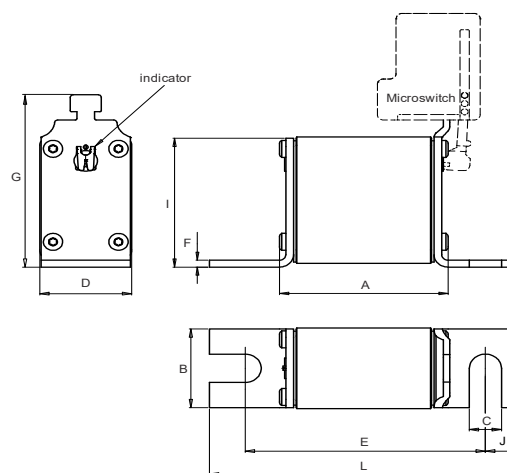
a	A2	B1 _{max}	B2	Cf3
130	0.8	1.25	0.5	0.8

For Time Current Curves
Contact SIBA LLC



2018926

	Dimensions [in / mm]
A	2.20 / 56
B	1.13 / 28.7
C	0.41 / 10.3
D	1.16 / 29.5
E	3.07 / 78
F	0.10 / 2.5
G	2.48 / 63
I	1.53 / 47
J	0.41 / 10.5
L	4.29 / 105



2041226

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base, DIN 80, UL E341490			2041226		
Use w/ microswitch	2118928	83	Microswitch (GL black hammer)		
W/ insulated terminal covers	2118908		Standard level, UL E309038	2800201	80
			Low level, UL E309038	2800203	

URDC-PV	Rated Voltage [U _n] 600V _{DC}	Rated Breaking Test Capacity 30kA @ L/R = 1 - 3ms	Class gPV	Standard(s) UL 248-19 IEC 60269-6
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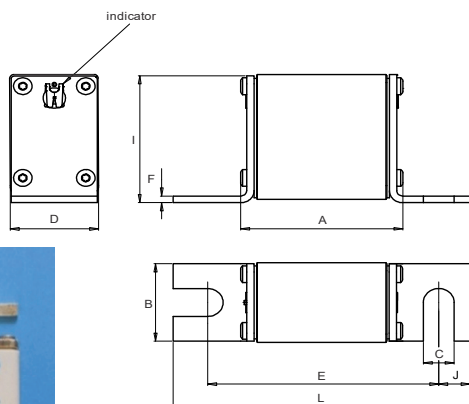
NH00-DIN80

Rated current I _n [A]	Without indicator NO UL Article Number	With top Indicator NO UL Article Number	With top indicator and fitting for microswitch Article Number		Pre-arcing I ² t [A ² s]	Total I ² t @600V _{DC} [A ² s]	Power loss @ I _n [W]
35	2018928.35	2018929.35	2041229.35		62	380	7.3
40	2018928.40	2018929.40	2041229.40		105	630	7.5
50	2018928.50	2018929.50	2041229.50		160	960	11.0
63	2018928.63	2018929.63	2041229.63		250	1 500	12.5
70	2018928.70	2018929.70	2041229.70		415	2 500	13.0
80	2018928.80	2018929.80	2041229.80		520	3 200	14.0
100	2018928.100	2018929.100	2041229.100		1 000	6 000	15.5
110	2018928.110	2018929.110	2041229.110		1 300	7 900	17.5
125	2018928.125	2018929.125	2041229.125		1 650	10 000	20.0
160	2018928.160	2018929.160	2041229.160		4 000	24 000	21.5
Weight [kg / 1]							
0.72							

Coefficients for Heavy Duty Applications

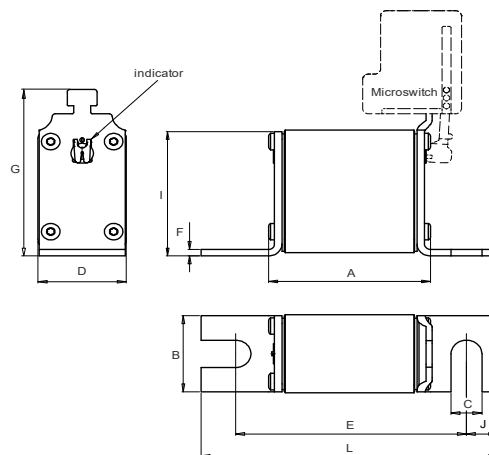
a	A2	B1 _{max}	B2	Cf3
130	0.8	1.25	0.5	0.8

For Time Current Curves
Contact SIBA LLC



2018928 / 2018929

Dimensions [in / mm]	
A	2.20 / 56
B	1.13 / 28.7
C	0.41 / 10.3
D	1.16 / 29.5
E	3.07 / 78
F	0.10 / 2.5
G	2.48 / 63
I	1.53 / 47
J	0.41 / 10.5
L	4.29 / 105



2041229

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base, DIN 80, UL E341490			2041229		
Use w/ microswitch	2118928	83	Microswitch (GL black hammer)		
W/ insulated terminal covers	2118908		Standard level, UL E309038	2800201	80
			Low level, UL E309038	2800203	

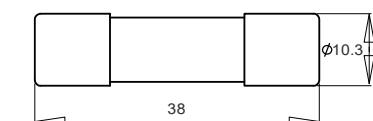
URDC-PV UL File E180276 10x38mm	Rated Voltage [U _n] 1000V _{DC} - UL 900V _{DC} - IEC	Rated Breaking Test Capacity 30kA @ L/R ≈ 1ms	Class gR	Standard(s) UL 248-13 IEC 60269-4
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Rated current I _n [A]	Without indicator Article Number	Without indicator PCB Article Number	Without indicator 50.6mm mounting Article Number	Pre-arcing I ² t [A ² s]	Total I ² t @1000V _{DC} [A ² s]	Power loss @ I _n [W]
0.5	5021506.0.5	5021606.0.5	5021706.0.5	0.2	2.2	0.2
1	5021506.1	5021606.1	5021706.1	0.46	2	0.3
2	5021506.2	5021606.2	5021706.2	1.2	3	0.4
3.5	5021506.3.5	5021606.3.5	5021706.3.5	5	27	0.5
4	5021506.4	5021606.4	5021706.4	10	30	1.8
6	5021506.6	5021606.6	5021706.6	5	40	0.7
8	5021506.8	5021606.8	5021706.8	7	55	1.1
10	5021506.10	5021606.10	5021706.10	10	77	1.5
12	5021506.12	5021606.12	5021706.12	20	155	1.6
15	5021506.15	5021606.15	5021706.15	30	230	1.9
16	5021506.16	5021606.16	5021706.16	30	230	2.1
20	5021506.20	5021606.20	5021706.20	52	395	2.5
Weight [kg / 1]						
0.01		0.01	1.1			

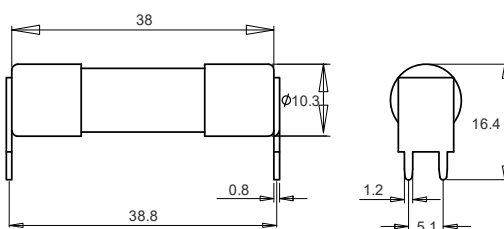
Power loss limit of fuse base has to be considered

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

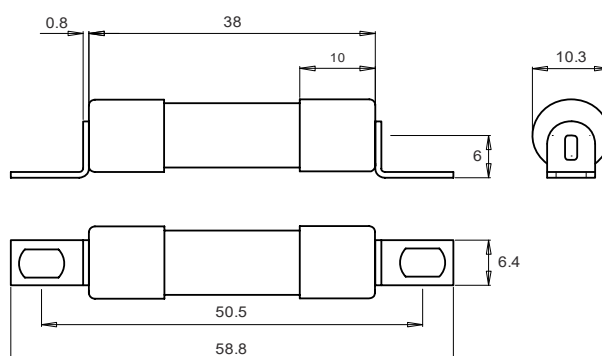
For Time Current Curves
Contact SIBA LLC



5021506



5021606



5021706

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse modules, UL E431490			Fuse clips PCB mounting	5806316	
1-Pole	5106305.1DC	87	Fuse clips PCB mounting	5806319	92
1-Pole w/ neon lamp indicator	5106305.1LDC		Fuse clips screw mounting	5806317	
2-Pole	5106305.2DC				
2-Pole w/ neon lamp indicator	5106305.2LDC				

URDC-PV



UL File E180276

10x38mm

Rated Voltage

 $[U_n]$ 1000V_{DC} - UL900V_{DC} - IEC

Rated Breaking Test

Capacity

30kA @ L/R ≈ 2ms

Voltage

1000V_{DC}

Class

gR - UL

gPV - IEC

Standard(s)

UL 248-13

IEC 60269-6

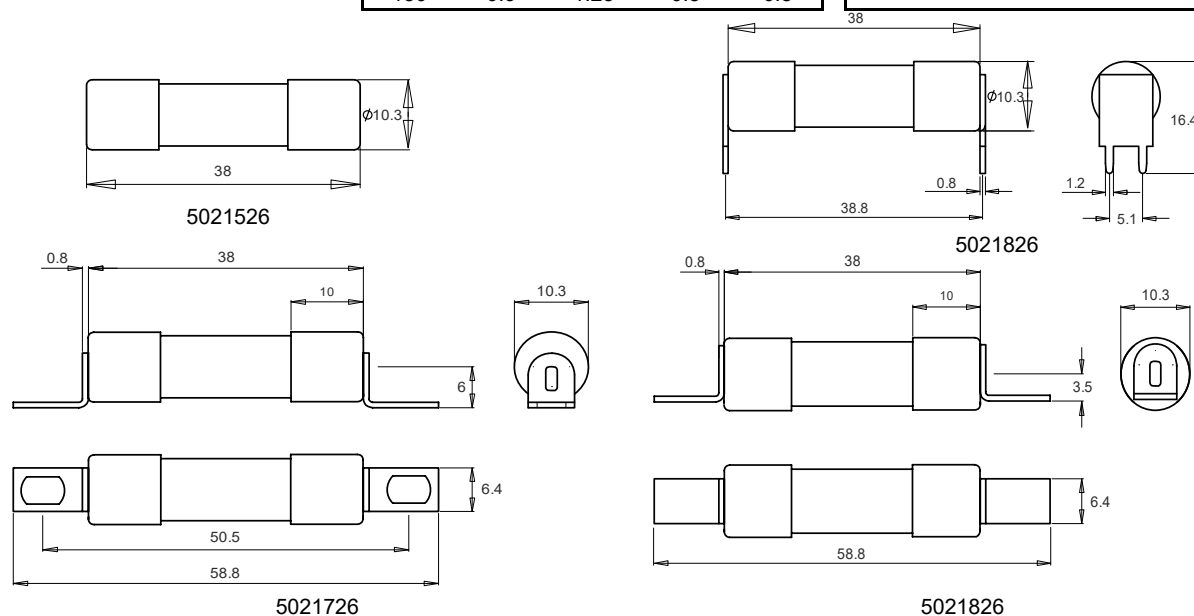
Rated current I_n [A]	Without indicator Article Number	Without indicator PCB Article Number	Without indicator 50.6mm mounting Article Number	Without indicator w/ offset tabs for cable attachment Article Number		Pre-arcing I^2t [A ² s]	Total I^2t^* @1000V _{DC} [A ² s]	Power loss @ I_n [W]
1	5021526.1	5021626.1	5021726.1	5021826.1		0.33	0.5	0.8
1.6	5021526.1.6	5021626.1.6	5021726.1.6	5021826.1.6		1.5	2	1.1
2	5021526.2	5021626.2	5021726.2	5021826.2		3	4	1.2
3	5021526.3	5021626.3	5021726.3	5021826.3		12	17	1.6
3.5 ¹⁾	5021526.3.5	5021626.3.5	5021726.3.5	5021826.3.5		8	11	1.5
4	5021526.4	5021626.4	5021726.4	5021826.4		10	14	1.8
5	5021526.5	5021626.5	5021726.5	5021826.5		20	28	2
6	5021526.6	5021626.6	5021726.6	5021826.6		32	45	2.5
8	5021526.8	5021626.8	5021726.8	5021826.8		5	50	1.6
10	5021526.10	5021626.10	5021726.10	5021826.10		7	68	2
12	5021526.12	5021626.12	5021726.12	5021826.12		10	100	2.4
15	5021526.15	5021626.15	5021726.15	5021826.15		30	290	1.9
16	5021526.16	5021626.16	5021726.16	5021826.16		30	290	2.1
20	5021526.20	5021626.20	5021726.20	5021826.20		52	500	2.5
Weight [kg / 1]						*L/R = 2ms		
0.008								
0.01								
0.01								
0.0076								

1) Not UL recognized

Power loss limit of fuse base has to be considered

Coefficients for Heavy Duty Applications

a	A2	B1 _{max}	B2	Cf3
130	0.9	1.25	0.5	0.8

For Time Current Curves
Contact SIBA LLC

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse modules, UL E431490			Fuse clips PCB mounting	5806316	92
1-Pole	5106305.1DC	87	Fuse clips PCB mounting	5806319	
1-Pole w/ neon lamp indicator	5106305.1LDC		Fuse clips screw mounting	5806317	
2-Pole	5106305.2DC				
2-Pole w/ neon lamp indicator	5106305.2LDC				

URDC-PV	Rated Voltage [U _n] 1000V _{DC}	Rated Breaking Test Capacity 30kA @ L/R = 1 -3' ms	Class gPV	Standard(s) UL 248-19 IEC 60269-6
				
UL File E341342				
10x38mm				

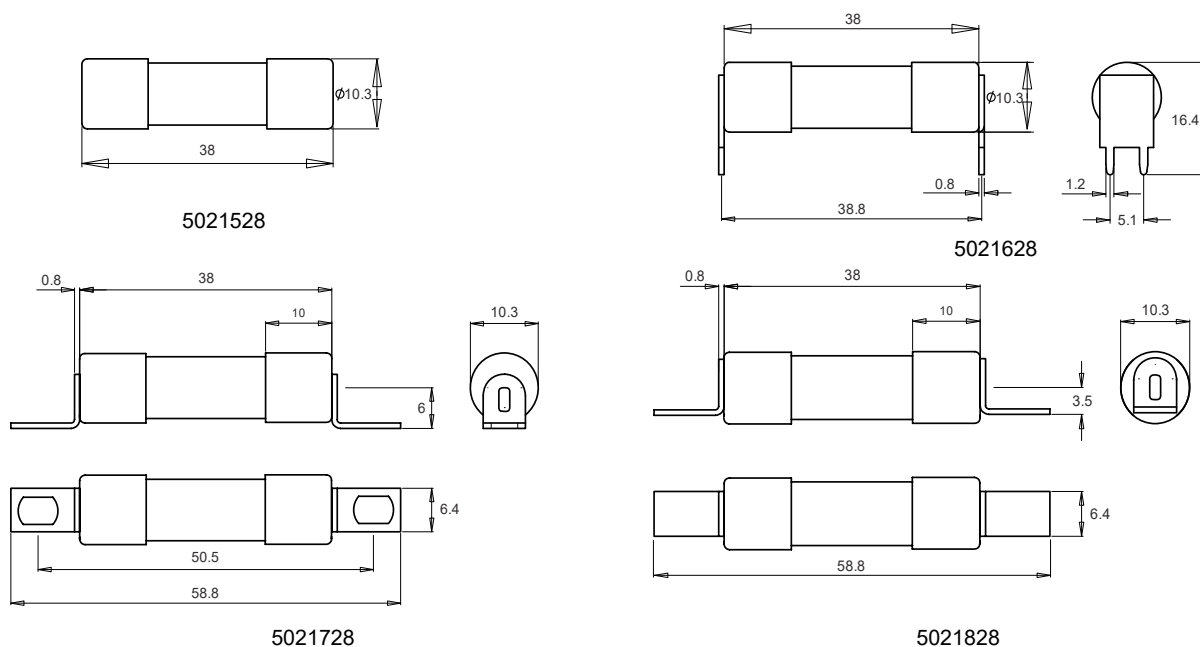
Rated current I _n [A]	Without indicator Article Number	Without indicator PCB Article Number	Without indicator 50.6mm mounting Article Number	Without indicator w/ offset tabs for cable attachment Article Number		Pre-arcing I ² t [A ² s]	Total I ² t @1000V _{DC} [A ² s]	Power loss @ I _n [W]
1	5021528.1	5021628.1	5021728.1	5021828.1		0.33	0.6	0.8
2	5021528.2	5021628.2	5021728.2	5021828.2		1.9	4	1.7
3.5	5021528.3.5	5021628.3.5	5021728.3.5	5021828.3.5		8	14	1.5
4	5021528.4	5021628.4	5021728.4	5021828.4		10	17	1.8
5	5021528.5	5021628.5	5021728.5	5021828.5		20	34	2
8	5021528.8	5021628.8	5021728.8	5021828.8		3	20	1.9
10	5021528.10	5021628.10	5021728.10	5021828.10		5	33	2.3
12	5021528.12	5021628.12	5021728.12	5021828.12		9	60	2.9
15	5021528.15	5021628.15	5021728.15	5021828.15		17	115	3.3
16	5021528.16	5021628.16	5021728.16	5021828.16		20	135	3.4
20	5021528.20	5021628.20	5021728.20	5021828.20		40	265	3.9

Weight [kg / l]			
0.01	0.01	0.01	0.01

Power loss limit of fuse base has to be considered

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

For Time Current Curves
Contact SIBA LLC



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse modules, UL E431490			Fuse clips PCB mounting	5806316	92
1-Pole	5106305.1DC	87	Fuse clips PCB mounting	5806319	
1-Pole w/ neon lamp indicator	5106305.1LDC		Fuse clips screw mounting	5806317	
2-Pole	5106305.2DC				
2-Pole w/ neon lamp indicator	5106305.2LDC				

URDC-PV	Rated Voltage [U _n] 1000V _{DC}	Rated Breaking Test Capacity 30kA @ L/R = 1 - 3ms	Class gPV	Standard(s) IEC 60269-6
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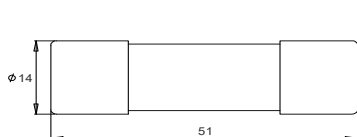
14x51mm

Rated current I _n [A]	Without indicator Article Number	Without indicator 63.5mm mounting Article Number		Pre-arcing I ² t [A ² s]	Total I ² t @1000V _{DC} [A ² s]	Power loss @ I _n [W]
10	5020426.10	5020526.10		5	40	2.9
12	5020426.12	5020526.12		12	100	3
16	5020426.16	5020526.16		30	200	3.2
20	5020426.20	5020526.20		52	330	4
25	5020426.25	5020526.25		82	510	5.1
32	5020426.32	5020526.32		150	950	6
Weight [kg / 1]						
0.02			0.02			

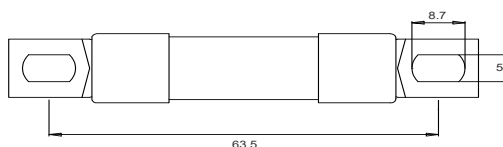
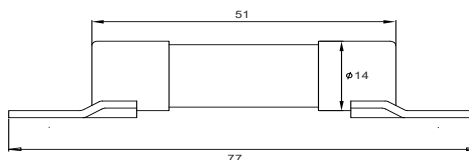
Coefficients for Heavy Duty Applications

a	A2	B1 _{max}	B2	Cf3
130	0.9	1.25	0.5	0.8

For Time Current Curves
Contact SIBA LLC



5020426



5020526

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse modules,- IEC Only			Fuse clips PCB mounting	5805806	
1-Pole	5105805.1DC	88	Fuse clips screw mounting	6100101.2	92
1-Pole w/ neon lamp indicator	5105805.1LDC		Clamping plate for 5805806	6301701	
2-Pole	5105805.2DC				
2-Pole w/ neon lamp indicator	5105805.2LDC				

URDC-PV	Rated Voltage [U _n] 1000V _{DC}	Rated Breaking Test Capacity 30kA @ L/R = 2ms	Class gPV	Standard(s) UL 248-19 IEC 60269-6
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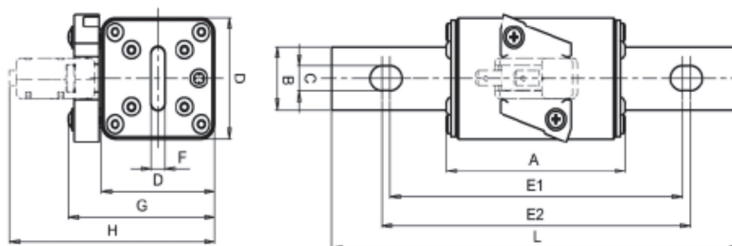
SQB-DC101

Rated current I _n [A]	With indicator and fitting for microswitch Article Number	Without indicator Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @1000V _{DC} [A ² s]	Power loss @ I _n [W]
100	2054427.100	2054428.100		1 700	6 500	19
125	2054427.125	2054428.125		3 700	14 200	23
160	2054427.160	2054428.160		5 600	21 500	26
200	2054427.200	2054428.200		9 900	38 000	32
250	2054427.250	2054428.250		18 500	61 000	40
300	2054427.300	2054428.300		27 000	120 000	53
Weight [kg / 1]				L/R = 2ms		
0.68						

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

For Time Current Curves
Contact SIBA LLC

	Dimensions [in / mm]
	2054427
A	3.15 / 80
B	1.02 / 26
C	0.41 / 10.3
D	1.97 / 50
E1	5.12 / 130
E2	5.39 / 137
F	0.24 / 6
G	2.60 / 66
H	3.50 / 89
L	7.13 / 181



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Microswitch (M), UL E309038					
Standard level	2800114	81			
Low level	2801114				

URDC-PV	Rated Voltage [U _n] 1000V _{DC}	Rated Breaking Test Capacity 30kA @ L/R = 2ms	Class gPV	Standard(s) UL 248-19 IEC 60269-6
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SQB-DC102

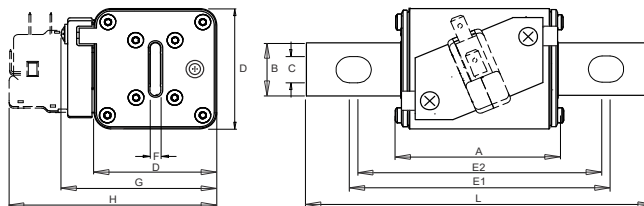
Rated current I _n [A]	With indicator and fitting for microswitch Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @1000V _{DC} [A ² s]	Power loss @ I _n [W]
200	2054527.200		9 900	47 000	32
250	2054527.250		18 500	87 000	40
300	2054527.300		27 000	126 000	50
350	2054527.350		39 700	187 000	53
400	2054527.400		64 200	305 000	57
Weight [kg / 1]			L/R = 2ms		
0.48					

Coefficients for Heavy Duty Applications

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

For Time Current Curves
Contact SIBA LLC

	Dimensions [in / mm]
	2054457
A	3.15 / 80
B	1.02 / 26
C	0.41 / 10.3
D	2.32 / 59
E1	5.12 / 130
E2	5.39 / 137
F	0.24 / 6
G	2.95 / 75
H	3.86 / 98
L	7.13 / 181



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Microswitch (M), UL E309038					
Standard level	2800114	81			
Low level	2801114				

URDC-PV	Rated Voltage [U _n] 1000V _{DC}	Rated Breaking Test Capacity 30kA @ L/R = 2ms	Class gPV	Standard(s) Following IEC 60269-6 UL 2579
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NH1

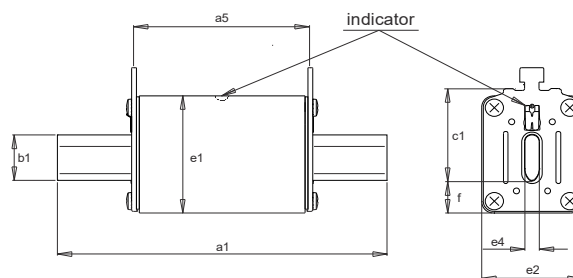
Rated current I _n [A]	With indicator and fitting for microswitch Article Number	Without indicator Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @1000V _{DC} [A ² s]	Power loss @ I _n [W]
50	2055620.50	2055621.50		251	950	12
63	2055620.63	2055621.63		415	1 600	14
80	2055620.80	2055621.80		740	2 750	18
100	2055620.100	2055621.100		1 310	4 800	20
125	2055620.125	2055621.125		2 050	7 700	28
160	2055620.160	2055621.160		3 700	13 500	34
Weight [kg / 1]				* L/R = 2ms		
0.48						

Coefficients for Heavy Duty Applications

a	A2	B1 _{max}	B2	Cf3
130	0.9	1.25	0.5	0.8

For Time Current Curves
Contact SIBA LLC

	Dimensions [in /mm]
a1	5.31 / 135
a5	2.56 / 65
b1	0.79 / 20
c1	1.57 / 40
e1	2.03 / 51.5
e2	1.65 / 42
e4	0.24 / 6
f	0.55 / 14



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base, NH1, 1-pole, UL E186970	2155601	86	2800202		
			Microswitch (GL red hammer)		
Grip handle, insertion / removal tool			Standard level, UL E309038	2800202	80
Standard	2200101	94	Low level, - UL E309038	2800204	
w/ Leather sleeve	2200105				

URDC-PV



UL File E341342

NH1

Rated Voltage

[U_n]1000V_{DC}

Rated Breaking Test

Capacity

30kA @ L/R = 2ms

Voltage

1000V_{DC}

Class

gPV

Standard(s)

UL 249-19

IEC 60269-6

VDE 0636-6

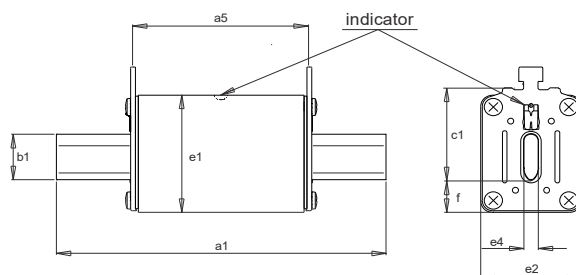
Rated current I _n [A]	With indicator and fitting for microswitch Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @1000V _{DC} [A ² s]	Power loss @ I _n [W]
63	2055629.63		414	1 500	14
80	2055629.80		740	2 600	17
100	2055629.100		1 700	6 000	19
125	2055629.125		3 700	13 000	21
160	2055629.160		5 600	19 600	27
200	2055629.200		9 900	30 300	32
Weight [kg / 1]			*L/R = 2ms		
0.7					

Coefficients for Heavy Duty Applications

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

For Time Current Curves
Contact SIBA LLC

	Dimensions [in / mm]
a1	5.31 / 135
a5	2.56 / 65
b1	0.79 / 20
c1	1.57 / 40
e1	2.03 / 51.5
e2	1.65 / 42
e4	0.24 / 6
f	0.55 / 14



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base, NH1, 1-pole, UL E341490	2155628	84	Microswitch (GL red hammer)		
			Standard level, UL E309038	2800202	80
Grip handle, insertion / removal tool			Low level, - UL E309038	2800204	
Standard	2200101	94			
w/ Leather sleeve	2200105				

Phone: 1-973-575-7422

Fax: 1-973-575-5858

16

SIBA LLC

29 Fairfield Place

West Caldwell, New Jersey 07006

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e-mail: info@sibafuse.com

URDC-PV	Rated Voltage [U _n] 1000V _{DC}	Rated Breaking Test Capacity 30kA @ L/R = 2ms	Class gPV	Standard(s) UL 248-19 IEC 60269-6 VDE 0636-6
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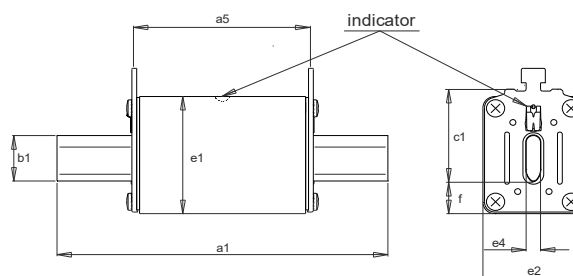
NH2

Rated current I _n [A]	With indicator and fitting for microswitch Article Number	Pre-arcing I ² t [A ² s]	Total I ² t* @1000V _{DC} [A ² s]	Power loss @ I _n [W]
200	2055729.200	10 400	39 000	31
250	2055729.250	23 700	78 000	36
Weight [kg / 1]		*L/R = 2ms		
0.7				

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

For Time Current Curves
Contact SIBA LLC

	Dimensions [in /mm]
a1	5.91 / 150
a5	2.56 / 65
b1	1.02 / 26
c1	2.32 / 48
e1	2.32 / 59
e2	2.09 / 53
e4	0.24 / 6
f	0.55 / 14



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base, NH2, 1-pole, UL E341490	2155728	85	Grip handle, insertion / removal tool		
Microswitch (GL red hammer),			Standard	2200101	94
Standard level, UL E309038	2800202	80	w/ Leather sleeve	2200105	
Low level, - UL E309038	2800204				

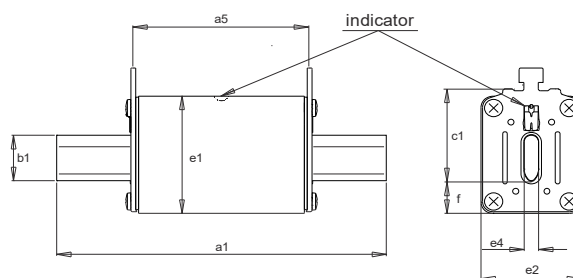
URDC-PV	Rated Voltage [U _n] 1000V _{DC}	Rated Breaking Test Capacity 30kA @ L/R = 2ms	Class gPV	Standard(s) UL 248-19 IEC 60269-6 VDE 0636-6
NH3				

Rated current I _n [A]	With indicator and fitting for microswitch Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @1000V _{DC} [A ² s]	Power loss @ I _n [W]
315	2056829.315		33 000	107 000	41
350	2056829.350		40 000	130 000	48
400	2056829.400		64 000	208 000	50
Weight [kg / 1]			* L/R = 2ms		
1.28					

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

For Time Current Curves
Contact SIBA LLC

	Dimensions [in / mm]
a1	5.91 / 150
a5	2.56 / 65
b1	1.26 / 32
c1	2.36 / 60
e1	2.87 / 73
e2	2.87 / 73
e4	0.24 / 6
f	0.63 / 16



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base, 1-pole, NH3, UL E341490	2156828	85	Grip handle, insertion / removal tool		
			Standard	2200101	94
Microswitch (GL red hammer)			w/ leather sleeve	2200105	
Standard level, UL E309038	2800202	80			
Low level, - UL E309038	2800204				

URDC-PV	Rated Voltage	Rated Breaking Test	Class	Standard(s)
UL File E180276	[U _n] 1000V _{DC}	Capacity 10kA @ L/R = 2ms	gFP	UL 248-13
14x51mm	Ground Fault Protection			

Rated current I _n [A]	With 2.5N striker ^a Article Number		Pre-arcing I ² t [A ² s]	Total I ² t @1100V _{DC} [A ² s]	Power loss [W]
1	5021406.1		0.35	2	0.8
3	5021406.3		10	31	2.0
5	5021406.5		20	100	2.7
Weight [kg / 1]		^a Striker minimum operating voltage 10V			
0.021					

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

For Time Current Curves
Contact SIBA LLC



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse module			Fuse clips PCB mounting	5805806	
1-pole, w / microswitch UL E186970	5105805.1SDC	88	Fuse clips screw mounting	6100101.2	92
			Clamping plate for 5805806	6301701	

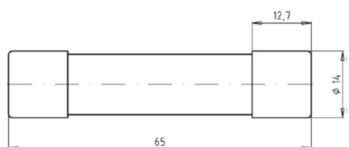
URDC-PV	Rated Voltage [U _n]	Rated Breaking Test Capacity	Class gPV	Standard(s) IEC 60269-6
	1100V _{DC}	30kA @ L/R = 1ms	8A - 25A	Proposal issued
	1000V _{DC}	10kA @ L/R = 1ms	30A	2009

14x65mm - 10/14x85mm

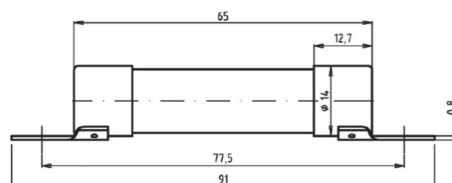
Rated current I _n [A]	Without indicator Article Number	Without indicator 77.5mm mounting Article Number	Without indicator 10/14mm clip Mount Article Number	Without indicator w/ offset tabs Article Number		Pre-arcing I ² t [A ² s]	Total I ² t @rated voltage [A ² s]	Power loss @ I _n [W]
8	5023526.8	5023726.8	5023826.8	5023926.8		5	22	2.6
10	5023526.10	5023726.10	5023826.10	5023926.10		5	24	3.3
12	5023526.12	5023726.12	5023826.12	5023926.12		13	62	3.5
16	5023526.16	5023726.16	5023826.16	5023926.16		30	143	3.8
20	5023526.20	5023726.20	5023826.20	5023926.20		53	250	4.7
25	5023526.25	5023726.25	5023826.25	5023926.25		82	560	5.9
30	5023526.30	5023726.30	5023826.30	5023926.30		118	950	7.5
Weight [kg / 1]								
	0.03	0.03	0.03	0.03				

Coefficients for Heavy Duty Applications

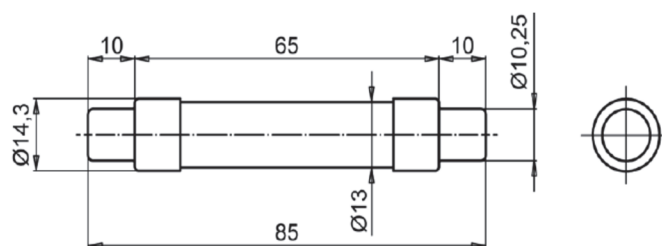
a	A2	B1 _{max}	B2	Cf3
130	0.9	1.25	0.5	0.8

For Time Current Curves
Contact SIBA LLC

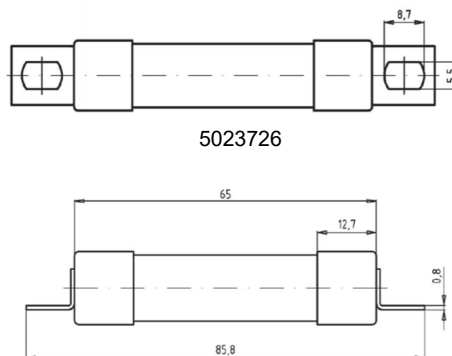
5023526



5023726



5023826



5023926

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
5023526 & 5023826			5023526		
Fuse module			Fuse clips screw mounting	6100101.2	92
1-Pole, DIN rail mount, UL E341490	5123805	91	Clamping plate for 6100101.2	6301701	
5023826			Fuse clips PCB mounting	5805806	
Fuse clips PCB mounting	5806316	92			
Fuse clips PCB mounting	5806319				
Fuse clips screw mounting	5806317				

URDC-PV	Rated Voltage	Rated Breaking Test	Class	Standard(s)
	[U _n] 1100V _{DC}	Capacity 30kA @ L/R = 1 - 3ms	gPV	UL 248-19 IEC 60269-6
UL File E341342				
14x65mm- 10/14x85mm				

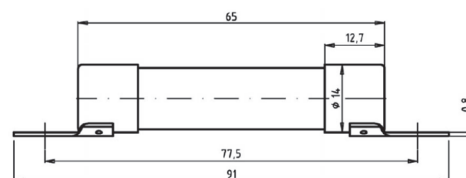
Rated current I _n [A]	Without indicator Article Number	Without indicator 77.5mm mounting Article Number	Without indicator 10/14mm clip mount Article Number	Without indicator w/ offset tabs Article Number		Pre-arcing I ² t [A ² s]	Total I ² t @1100V _{DC} [A ² s]	Power loss @ I _n [W]
10	5023528.10	5023728.10	5023828.10	5023928.10		3	21	4.0
12	5023528.12	5023728.12	5023828.12	5023928.12		7.5	51	4.1
16	5023528.16	5023728.16	5023828.16	5023928.16		16	109	4.6
20	5023528.20	5023728.20	5023828.20	5023928.20		30	205	5.5
25	5023528.25	5023728.25	5023828.25	5023928.25		82	560	5.9
Weight [kg / 1]								
	0.03	0.03	0.03	0.03				

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

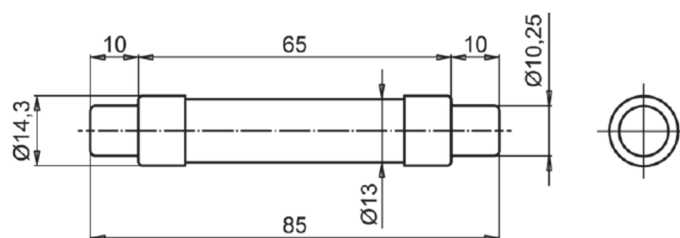
For Time Current Curves
Contact SIBA LLC



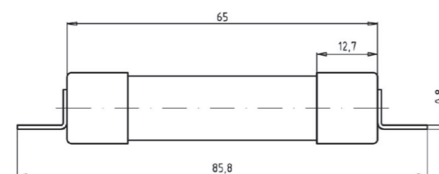
5023528



5023728



5023828



5023928

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
5023528 & 5023828			5023528		
Fuse module			Fuse clips screw mounting	6100101.2	
1-Pole, DIN rail mount, UL E341490	5123805	91	Clamping plate for 6100101.2	6301701	92
5023828			Fuse clips PCB mounting	5805806	
Fuse clips PCB mounting	5806316				
Fuse clips PCB mounting	5806319	92			
Fuse clips screw mounting	5806317				

URDC-PV	Rated Voltage [U _n] 1100V _{DC}	Rated Breaking Test Capacity 30kA @ L/R = 1 - 3ms	Class gPV	Standard(s) UL 248-19 IEC 60269-6
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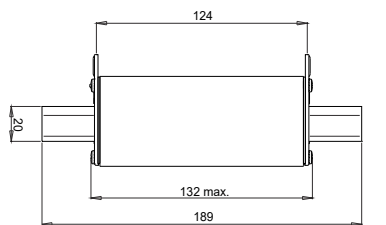
NH1XL & SQB1-M8

Rated current I _n [A]	Without indicator Article Number	With indicator and fitting for microswitch Article Number	Without indicator Article Number	With indicator and fitting for microswitch Article Number		Pre-arcing I ² t [A ² s]	Total I ² t @ 1100V _{DC} [A ² s]	Power loss @ I _n [W]
	NH1XL		SQB1-M8					
50	2002828.50	2002829.50	2001928.50	2001927.50		270	900	17
63	2002828.63	2002829.63	2001928.63	2001927.63		600	2 000	20
80	2002828.80	2002829.80	2001928.80	2001927.80		1 100	4 000	23
100	2002828.100	2002829.100	2001928.100	2001927.100		1 900	6 500	27
125	2002828.125	2002829.125	2001928.125	2001927.125		3 600	12 000	32
150	2002828.150	2002829.150	2001928.150	2001927.150		6 700	22 000	34
160	2002828.160	2002829.160	2001928.160	2001927.160		7 600	25 000	36
175	2002828.175	2002829.175	2001928.175	2001927.175		9 600	31 500	37
200	2002828.200	2002829.200	2001928.200	2001927.200		14 300	47 000	43
Weight [kg / 1]								
0.78			0.78					

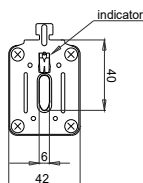
Coefficients for Heavy Duty Applications

a	A2	B _{1max}	B2	Cf3
130	0.8	1.25	0.5	0.8

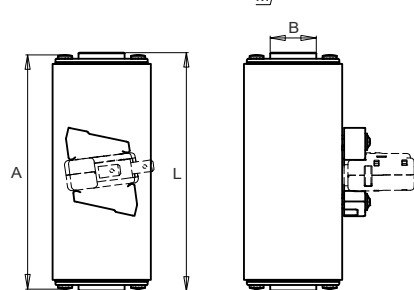
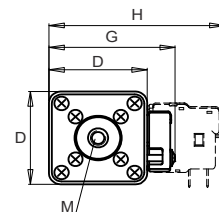
For Time Current Curves
Contact SIBA LLC



2002828 / 2002829



Dimensions [in / mm]		
2001928		2001927
5.08 / 129	A	5.08 / 129
0.94 / 24	B	0.94 / 24
2.01 / 51	D	2.01 / 51
—	G	2.60 / 66
—	H	3.58 / 91
5.18 / 131.5	L	5.18 / 131.5
M8	M	M8
Thread Depth 0.43 / 11		
Maximum Torque 22N•m 16.2lb•ft		



2001927 / 2001928

Accessories

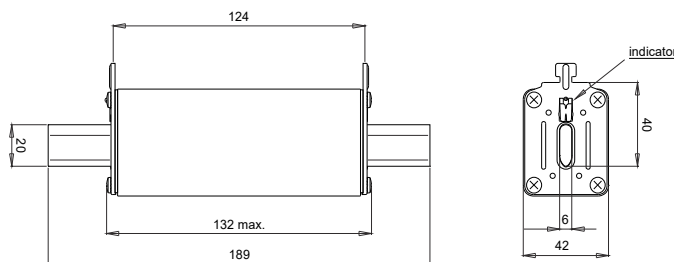
Article Description	Article Number	Page	Article Description	Article Number	Page
2002828 & 2002829			Grip handle, insertion / removal tool		
Fuse base, 1-Pole, NH1XL, UL E186970	2102801	86	Standard	2203101	94
Terminal covers	2100301.26		w/ leather sleeve	2203102	
			2001928		
Microswitch (GL red hammer), 2002829			Microswitch (M), UL E309038		
Standard level, UL E309038	2800202	80	Standard level	2800114	81
Low level, UL E309038	2800204		Low level	2801114	

URDC-PV UL File E180276 NH1XL	Rated Voltage [U _n] 1100V _{DC}	Rated Breaking Test Capacity 30kA @ L/R ≈ 10ms 30kA @ L/R ≈ 10ms 10kA @ L/R ≈ 1ms	Class gPV gR(UL)	Standard(s) IEC 60269-6 UL 248 - 13
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Rated current I _n [A]	With indicator and fitting for microswitch Article Number	Without indicator Article Number		Pre-arcing I ² t [A ² s]	Total I ² t @1200V _{DC} [A ² s]	Power loss @ I _n [W]
35	2002820.35	2002821.35		190	750	10
40	2002820.40	2002821.40		330	1 300	11
50	2002820.50	2002821.50		480	2 000	12
63	2002820.63	2002821.63		900	3 800	14
80	2002820.80	2002821.80		1 900	8 000	16
100	2002820.100	2002821.100		3 600	15 000	19
125	2002820.125	2002821.125		6 700	28 000	21
160	2002820.160	2002821.160		11 200	47 000	30
200	2002820.200	2002821.200		20 000	83 000	34
250*	2002820.250*	2002821.250*		30 200	115 000*	47
Weight [kg / 1]			* 1100V _{DC} , No UL rec.			L/R ≈ 1ms
0.78						10kA

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

For Time Current Curves
Contact SIBA LLC



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base 1-Pole, NH1XL, UL E186970	2102801	86	Grip handle, insertion / removal tool		94
Terminal covers	2100301.26		Standard	2203101	
			w/ leather sleeve	2203102	
Microswitch (GL red hammer), 2002821					
Standard level, UL E309038	2800202	80			
Low level, UL E309038	2800204				

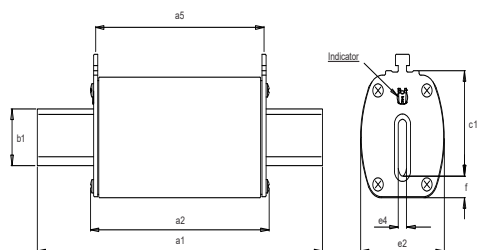
URDC-PV	Rated Voltage	Rated Breaking Test	Class	Standard(s)
	[U _n] 1100V _{DC}	Capacity 30kA @ L/R = 1 - 3ms	gPV	UL 248-19 IEC 60269-6
UL File E341342 NH3L & SQB2-US				

Rated current I _n [A]	Without indicator Article Number	With top indicator and fitting for microswitch Article Number	Without indicator Article Number	With top indicator Article Number		Pre-arcing I ² t [A ² s]	Total I ² t @ 1100V _{DC} [A ² s]	Power loss [W]
	NH3L		SQB2					NH3L SQB2
200	2003128.200	2003129.200	2003428.200	2003429.200		13 000	63 000	42 39
250	2003128.250	2003129.250	2003428.250	2003429.250		26 500	130 000	48 42
300	2003128.300	2003129.300	2003428.300	2003429.300		38 000	185 000	62 56
315	2003128.315	2003129.315	2003428.315	2003429.315		38 000	185 000	65 59
350	2003128.350	2003129.350	2003428.350	2003429.350		57 000	280 000	64 62
400	2003128.400	2003129.400	2003428.400	2003429.400		80 000	390 000	71 64
450			2003428.450	2003429.450		92 500	450 000	- 87
Weight [kg / 1]								
1.44			1.38					

Coefficients for Heavy Duty Applications

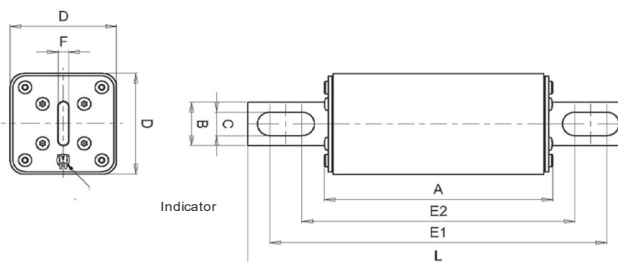
a	A2	B1 _{max}	B2	Cf3
130	0.8	1.25	0.5	0.8

For Time Current Curves
Contact SIBA LLC



2003128 / 2003129

	Dimensions [in / mm]
	2003128/29
a1	8.07 / 205
a2	5.18 / 130
a5	4.72 / 120
b1	1.26 / 32
e2	2.40 / 61
e4	0.24 / 6
c1	2.36 / 60
f	0.51 / 13



2003428 / 2003429

	Dimensions [in / mm]
	2003428/29
A	5.08 / 129
B	1.02 / 26
C	0.55 / 14
D	2.36 / 60
E1	7.48 / 190
E2	6.06 / 154
F	0.24 / 6
L	8.46 / 215

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
2003128 & 2003129			2003128 & 2003129		
Fuse base 1-Pole, NH3L, UL E34149	2103128	84	Grip handle, insertion / removal tool		
Terminal cover	2100501.26		Standard	2203101	94
			w/ leather sleeve	2203102	
Microswitch (GL red hammer), 2003128					
Standard level, UL E309038	2800202	80			
Low level, UL E309038	2800204				

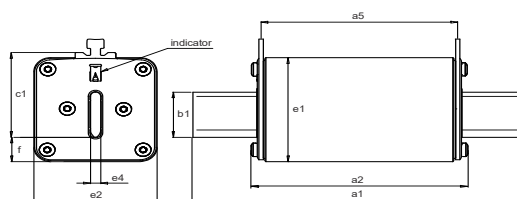
URDC-PV	Rated Voltage	Rated Breaking Test	Class	Standard(s)
	[U _n] 1100V _{DC}	Capacity 50kA @ L/R = 1 - 3ms	gPV	UL 248-19 IEC 60269-6 VDE 0636-6
UL File E341342				
NH3L - SQB3 - US - SQB3 - DIN				

Rated current I _n [A]	Without indicator Article Number	With top indicator and fitting for microswitch Article Number	Without indicator Article Number	Without indicator Article Number	With top indicator Article Number	Pre-arcing I ² t [A ² s]	Total I ² t @1100V _{DC} [A ² s]	Power loss @ I _n [W]
	UL Listed		No UL					
	NH3L		SQB3 - US	SQB3 - DIN				
200	2023128.200	2023129.200	2023428.200	2023528.200	2023529.200	19 000	81 000	36
250	2023128.250	2023129.250	2023428.250	2023528.250	2023529.250	32 500	145 000	43
315	2023128.315	2023129.315	2023428.315	2023528.315	2023529.315	57 000	257 000	55
350	2023128.350	2023129.350	2023428.350	2023528.350	2023529.350	78 000	360 000	60
400	2023128.400	2023129.400	2023428.400	2023528.400	2023529.400	106 000	476 000	64
450	2023128.450	2023129.450	2023428.450	2023528.450	2023529.450	153 500	686 000	70
500	2023128.500	2023129.500	2023428.500	2023528.500	2023529.500	189 000	847 000	80
Weight [kg / 1]								
	2.13	2.13						

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

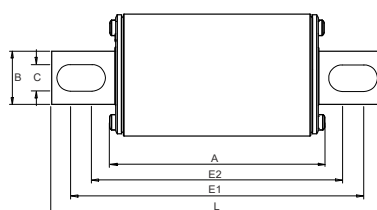
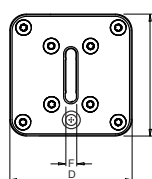
For Time Current Curves
Contact SIBA LLC

Dimensions [in / mm]	
	2023128/29
a1	8.19 / 208
a2	5.28 / 134
a5	4.92 / 125
b1	1.26 / 32
e1	2.87 / 73
e2	2.87 / 73
e4	0.24 / 6
c1	2.36 / 60
f	0.63 / 16

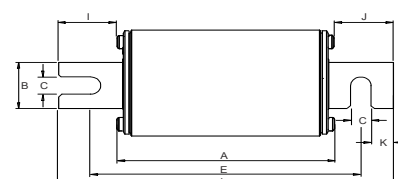
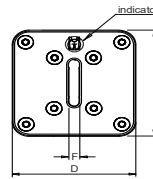


2023128 / 2023129

Dimensions [in / mm]	
	2023528/29
A	5.14 / 131
B	1.38 / 35
C	0.43 / 11
D	2.87 / 73
E	6.57 / 167
E1	—
E2	—
F	0.24 / 6
L	7.99 / 203



2023428



2023528 / 2023529

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
2023128 & 2003129			2023128 & 2003129		
Fuse base 1-pole, NH3L UL E34149	2103128	84	Grip handle, insertion / removal tool		
Terminal cover	2100501.26		Standard	2203101	94
2003129			w/ leather sleeve	2203102	
Microswitch (GL) (red hammer) 2003129					
Standard level, UL E309038	2800202	80			
Low level, UL E309038	2800204				

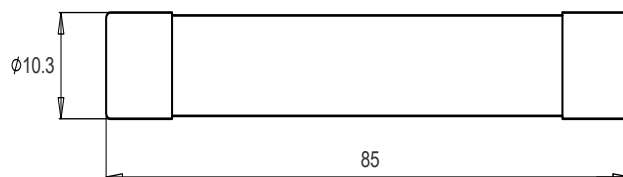
URDC-PV	Rated Voltage [U _n] 1500V _{DC}	Rated Breaking Test Capacity 100kA @ L/R ≈ 5ms	Class gPV	Standard(s) UL 248- 19 IEC 60269-6
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10x85mm

Rated current I _n [A]	Without indicator Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @1500V _{DC} [A ² s]	Power loss @ I _n [W]
20	5011228.20		82	530	4.9
25	5011228.25		160	1 220	5.6
30	5011228.30		265	2 100	6.7
Weight [kg / 1]		Power loss limit of fuse base has to be considered			*L/R = 3ms
0.016					

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

For Time Current Curves
Contact SIBA LLC



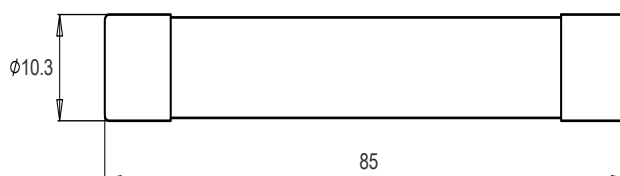
Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse module					
1-Pole, DIN rail mount, UL E341490	5123805	91			
Fuse clips PCB mounting	5806316	92			
Fuse clips PCB mounting	5806319				
Fuse clips screw mounting	5806317				

URDC-PV		Rated Voltage [U _n]	Rated Breaking Test Capacity	Voltage	Class gPV	Standard(s) IEC 60269-6	
		1500V _{DC}	100kA @ L/R ≈ 5ms	1500V _{DC}			
		1500V _{DC}	30kA @ L/R = 1 - 3ms, IEC	1500V _{DC}			
10x85mm							
Rated current I _n [A]	Without indicator Article Number				Pre-arcing I ² t [A ² s]	Total I ² t* @1500V _{DC} [A ² s]	Power loss @ I _n [W]
15	5011526.15				40	330	3.7
20	5011526.20				82	520	4.9
	Weight [kg / 1]	Power loss limit of fuse base has to be considered					
	0.016						

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

For Time Current Curves
Contact SIBA LLC



Accessories

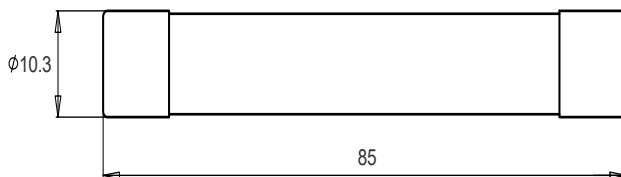
Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse module					
1-Pole, DIN rail mount, UL E341490	5123805	91			
Fuse clips PCB mounting	5806316	92			
Fuse clips PCB mounting	5806319				
Fuse clips screw mounting	5806317				

URDC-PV		Rated Voltage	Rated Breaking Test	Class	Standard(s)
 UL File E341342 10x85mm		[U _n]	Capacity	gPV	UL 248-19 IEC 60269-6
		1500V _{DC}	10kA @ L/R = 1 - 3ms, UL 1A -5A 1500V _{DC}		
		1500V _{DC}	30kA @ L/R = 1 - 3ms, UL 10A -161500V _{DC}		
		1500V _{DC}	30kA @ L/R = 1 - 3ms, IEC	1500V _{DC}	

Rated current I _n [A]	Without indicator Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @1500V _{DC} [A ² s]	Power loss @ I _n [W]
1	5011528.1		0.3	0.5	1.6
2	5011528.2		2.6	4.8	2.5
3	5011528.3		5.2	8.8	3.5
4	5011528.4		20	32	4.0
5	5011528.5		30	45	4.2
10	5011528.10		7.5	62	3.4
12	5011528.12		17	140	3.5
15	5011528.15		30	250	3.8
16	5011528.16		40	330	3.9
Weight [kg / 1]		Power loss limit of fuse base has to be considered			*L/R = 3ms
0.015					

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

For Time Current Curves
Contact SIBA LLC



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse module					
1-pole, DIN rail mount, UL E341490	5123805	91			
Fuse clips PCB mounting	5806316	92			
Fuse clips PCB mounting	5806319				
Fuse clips screw mounting	5806317				

URDC-PV	Rated Voltage	Rated Breaking Test	Class	Standard(s)
	[U _n]	Capacity	gPV	UL 248-19
UL File E341342	1500V _{DC}	30kA @ L/R = 1 - 3ms	1500V _{DC}	IEC 60269-6
14x65mm - 14x65/85mm				

Rated current I _n [A]	Without indicator 14x65mm Article Number	Without indicator 77.5mm mounting Article Number	Without indicator 10/14mm Clip Mount Article Number			Pre-arcing I ² t [A ² s]	Total I ² t* @1500V _{DC} [A ² s]	Power loss @ I _n [W]
10	5024028.10	5024228.10	5024328.10			5	41	4.0
12	5024028.12	5024228.12	5024328.12			12	100	4.2
15	5024028.15	5024228.15	5024328.15			21	170	4.5
16	5024028.16	5024228.26	5024328.16			26	210	4.7
20	5024028.20	5024228.20	5024328.20			66	540	5.0
25	5024028.25	5024228.25	5024328.25			90	730	6.0
30	5024028.30	5024228.30	5024328.30			149	1 350	7.0
Weight [kg / 1]				Power loss limit of fuse base has to be considered				

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

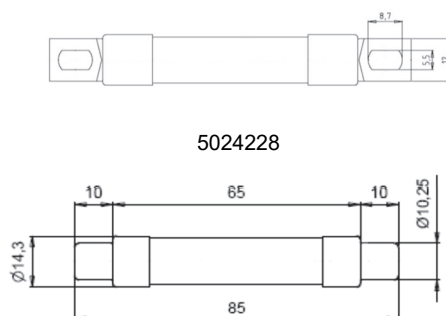
For Time Current Curves
Contact SIBA LLC



5024028



5024228



5024328

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
5024028 & 5024328			5024328		
Fuse module			Fuse clips screw mounting	6100101.2	92
1-Pole, DIN rail mount, UL E341490	5123805	91	Clamping plate for 6100101.2	6301701	
			Fuse clips PCB mounting	5805806	

URDC-PV	Rated Voltage [U _n] 1500V _{DC}	Rated Breaking Test Capacity 30kA @ L/R = 3ms	Class gPV	Standard(s) IEC 60269 - 6
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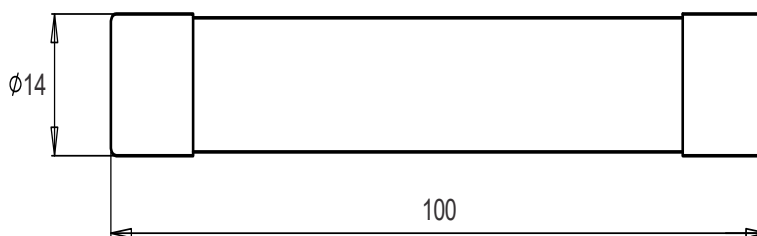
14x100mm

Rated current I _n [A]	Without indicator Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @1500V _{DC} [A ² s]	Power loss @ I _n [W]
12	5024526.12		14	140	4.2
16	5024526.16		30	290	5.5
20	5024526.20		53	510	6.5
25	5024526.25		91	880	7.5
Weight [kg / 1]					

Coefficients for Heavy Duty Applications

a	A2	B1 _{max}	B2	Cf3
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For Time Current Curves
Contact SIBA LLC

Accessories

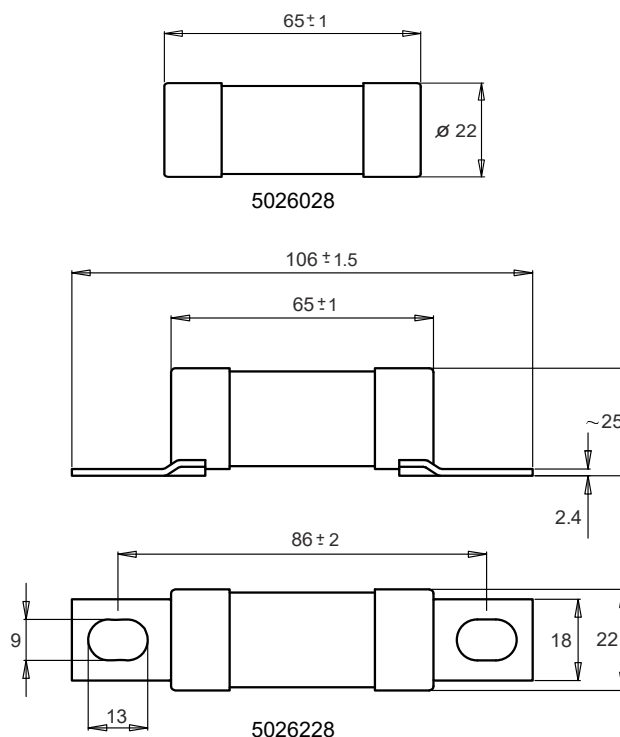
Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse clips screw mounting	6100101.2	92			
Clamping plate for 6100101.2	6301701				
Fuse clips PCB mounting	5805806				

URDC-PV	Rated Voltage	Rated Breaking Test	Class	Standard(s)
	[U _n] 1500V _{DC}	Capacity 50kA @ L/R = 1 - 3ms	gPV 1500V _{DC}	UL 248-19 IEC 60269-6
UL File E341342				
22x65mm				

Rated current I _n [A]	Without indicator 22x65mm Article Number	Without indicator 86.2mm mounting				Pre-arcing I ² t [A ² s]	Total I ² t* @1500V _{DC} [A ² s]	Power loss @ I _n [W]
	UL	No UL						
32	5026028.32	5026228.32*				185	1 700	7.0
40	5026028.40	5026228.40*				415	3 700	7.0
50	5026028.50	5026228.50*				737	6 600	9.0
	Weight [kg / 1]							
	0.06							

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

For Time Current Curves
Contact SIBA LLC



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
5026028			5026028		
Fuse module			Fuse clips PCB mounting	5806316	92
1-Pole, DIN rail mount, UL E341490	5126005.1	90	Fuse clips PCB mounting	5806319	
			Fuse clips screw mounting	5805806	

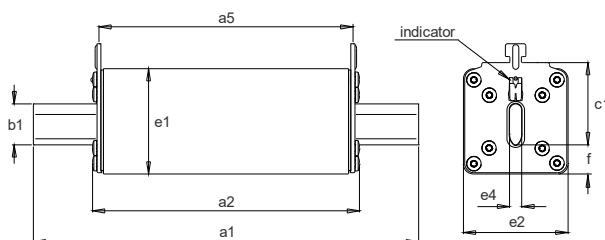
URDC-PV	Rated Voltage	Rated Breaking Test	Class	Standard(s)
	[U _n] 1500V _{DC}	Capacity 100kA @ L/R ≤ 3ms	gPV	UL 248-19 IEC 60269-6
UL File E341342 NH1XL / SQB1				

Rated current I _n [A]	Without indicator Article Number	With indicator and fitting for microswitch Article Number	Without indicator Article Number	With indicator Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @1500V _{DC} [A ² s]	Power loss @ I _n [W]
	NH1XL	NH1XL	SQB1	SQB1				
50	2004128.50	2004129.50	2004528.50	2004529.50		361	2 200	18
63	2004128.63	2004129.63	2004528.63	2004529.63		480	2 900	22
80	2004128.80	2004129.80	2004528.80	2004529.80		1 060	6 400	24
100	2004128.100	2004129.100	2004528.100	2004529.100		1 650	9 900	25
125	2004128.125	2004129.125	2004528.125	2004529.125		2 950	18 000	27
160	2004128.160	2004129.160	2004528.160	2004529.160		5 600	34 000	37
200	2004128.200	2004129.200	2004528.200	2004529.200		14 300	85 000	44
Weight [kg / 1]								
	1	1	1	1				

Coefficients for Heavy Duty Applications

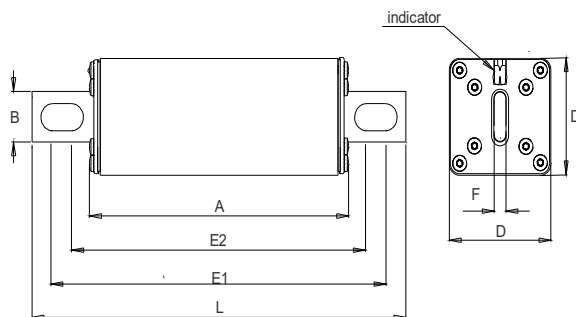
a	A2	B1 _{max}	B2	Cf3
130	0.8	1.25	0.5	0.8

For Time Current Curves
Contact SIBA LLC



2004128 / 2004129

	Dimensions [in / mm]
	2004128/29
a1	7.60 / 193
a2	5.08 / 129
a5	4.88 / 124
b1	0.79 / 20
e1	2.01 / 51
e2	2.01 / 51
e4	0.24 / 6
c1	1.57 / 40
f	0.57 / 14.5



2004528 / 2004529

	Dimensions [in / mm]
	2004528/29
A	5.08 / 129
B	1.02 / 26
C	0.55 / 14
D	2.01 / 51
E1	7.48 / 190
E2	6.06 / 154
F	0.24 / 6
L	8.46 / 215

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
2004128 & 2004129			Grip handle, insertion / removal tool		
Fuse base, 1-pole, NH1XL, UL rec only, UL E186970	2102801	86	Standard	2203101	94
2004129			w/ leather sleeve	2203102	
Microswitch (GL red hammer)					
Standard level, UL E309038	2800202	80			
Low level, UL E309038	2800204				

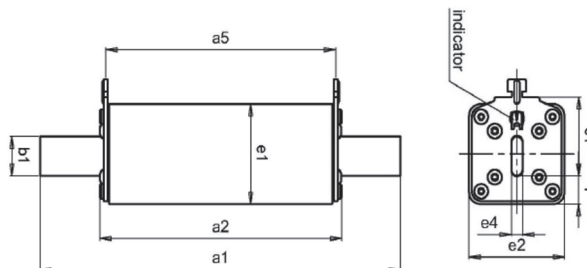
URDC-PV	Rated Voltage	Rated Breaking Test	Class	Standard(s)
	[U _n] 1500V _{DC}	Capacity 50kA @ L/R = 1ms - 3ms	gPV 1500V _{DC}	UL 248-19 IEC 60269-6
UL File E341342				
NH2XL				

Rated current I _n [A]	With indicator and fitting for microswitch Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @1500V _{DC} [A ² s]	Power loss @ I _n [W]
160	2004229.160		11 200	46 000	29
200	2004229.200		19 200	79 000	36
250	2004229.250		31 400	129 000	45
315	2004229.315		55 800	230 000	54
	Weight [kg / 1]				
	1.29				

Coefficients for Heavy Duty Applications

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

	Dimensions [in / mm]
a1	8.11 / 206
a2	5.08 / 129
a5	4.88 / 124
b1	1.02 / 26
e1	2.36 / 60
e2	2.36 / 60
e4	0.24 / 6
c1	1.89 / 48
f	0.57 / 14.5



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base, 1-pole, NH3L,			Grip handle, insertion / removal tool		
UL rec only, UL E186970	2103101	86	Standard	2203101	94
			w/ leather sleeve	2203102	
Microswitch (GL red hammer)					
Standard level, UL E309038	2800202	80			
Low level, UL E309038	2800204				

URDC-PV



UL File E341342

NH3L / SQB3

Rated Voltage

[U_n]1500V_{DC}

Rated Breaking Test

Capacity

100kA @ L/R ≤ 3ms

Voltage

1500V_{DC}

Class

gPV

Standard(s)

UL 248-19

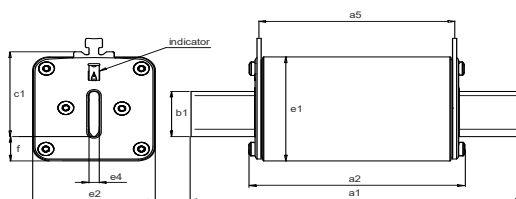
IEC 60269-6

Rated current I _n [A]	Without indicator Article Number	With indicator Article Number	Without indicator Article Number	With indicator and fitting for microswitch Article Number	With indicator and fitting for microswitch Article Number	Without indicator Article Number	Pre-arcing I ² t [A ² s]	Total I ² t* @1500V _{DC} [A ² s]	Power loss @ I _n [W]
	NH3L		SQB3 - DIN		SQB3 - US				
200	2024328.200	2024329.200	2024528.200	2024529.200	2024727.200	2024728.200	19 200	108 000	37
250	2024328.250	2024329.250	2024528.250	2024529.250	2024727.250	2024728.250	32 000	192 000	43
315	2024328.315	2024329.315	2024528.315	2024529.315	2024727.315	2024728.315	57 000	342 000	54
350	2024328.350	2024329.350	2024528.350	2024529.350	2024727.350	2024728.350	77 000	480 000	60
400	2024328.400	2024329.400	2024528.400	2024529.400	2024727.400	2024728.400	106 000	640 000	65
450	2024328.450	2024329.450	2024528.450	2024529.450	2024727.450	2024728.450	153 000	920 000	70
500	2024328.500	2024329.500	2024528.500	2024529.500	2024727.500	2024728.500	189 000	1 010 000	80
Weight [kg / 1]							*L/R = 3ms		
	2.06	2.06	2.08	2.08	2.10	2.10			

Coefficients for Heavy Duty Applications

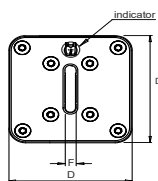
a	A2	B1 _{max}	B2	Cf3
130	0.8	1.25	0.5	0.8

Dimensions [in / mm]	
2024328/29	
a1	8.19 / 208
a2	5.28 / 134
a5	4.92 / 125
b1	1.26 / 32
e1	2.87 / 73
e2	2.87 / 73
e4	0.24 / 6
c1	2.36 / 60
f	0.63 / 16

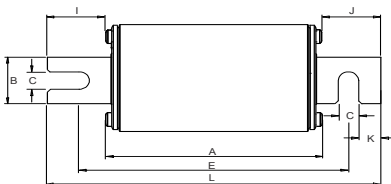


2024328 / 2024329

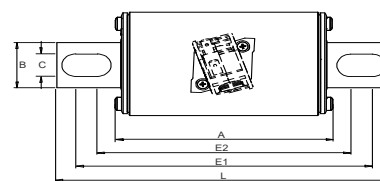
Dimensions [in / mm]	
2024528/29	2047272/8
5.14 / 130.5	A 5.14 / 130.5
1.38 / 35	B 1.38 / 35
	C 0.63 / 16
2.87 / 73	D 2.87 / 73
6.57 / 167	E -
-	E1 7.48 / 190
-	E2 6.14 / 156
0.24 / 6	F 0.24 / 6
-	G 3.46 / 88
-	H 4.80 / 122
7.80 / 198	L 8.46 / 215



2024528 / 2024529



Accessories



2024727 / 2024728

Article Description	Article Number	Page	Article Description	Article Number	Page
2024328 & 2024329			Microswitch (B), No UL		
Fuse base, 1-pole, NH3L			Standard level	2800310	82
UL rec only, UL E186970	2103101	86	Low level	2800410	
2024329			Microswitch (M), preferred		
Microswitch (GL red hammer)		80	Standard level, UL E309038	2800114	81
Standard level, UL E309038	2800202		Low level, UL E309038	2801114	
Low level, UL E309038	2800204				
Grip handle, insertion / removal tool					
Standard	2203101	94			
w/ leather sleeve	2203102				

Fuses for DC Energy Storage Systems (ESS) Applications



Class: aR / gR / gRL(gS)

Voltage ratings: 150V_{DC} to 1500V_{DC}

Current ratings: 6A to 2000A

Interrupt rating: 200kAIR / 340kA peak

Standards: UL 248-13 IEC 60269-1
& 4 VDE 0636-4

SIBA DC ESS fuses are designed for use in the following applications;

- DC Drives
- Power Conversion
- High Power rectifiers
- DC - AC inverters
- Traction Substations
- DC Common Buses
- UPS systems

Features and Benefits



SIBA SQB-DC154 - First in the world of its kind 1500V_{DC}, Ultra-Rapid class aR, with the highest breaking capacity in the industry of 200kAIR/340kA peak. The fuse is available in mounting styles, 2-hole M12 or 4-hole M10 thread. With pure silver elements embedded inside the finest ceramic available, SIBA provides the lowest I^2t value, low peak let thru current and highest cycling capability used in the industry. All SIBA SQB fuses are available with an option for microswitch fitting for use with a microswitch to provide remote blown fuse indication, without the microswitch provides visual blown fuse indication.



SIBA fuses provide optimal short protection for DC-DC converters, AC inverters used in Battery Energy Storage Systems (BESS), bus combining, photo-voltaic and wind turbine installations,



Check the URS section of catalog for series 207xx32.amp for fuse suitable for ESS applications

Fuses for DC Energy Storage Systems (ESS) Applications

Article Number	Description	Selection Guide	Technical Data
150V _{DC}			
5005438	35x30mm - 59mm mounting centers	No blown fuse indication	38
5007138	2x35xmm - 59mm mounting centers, double body	No blown fuse indication	39
5007838	35x30mm - 59mm mounting centers	No blown fuse indication	40
250V _{DC}			
5004838	17.6x27mm - 41.8mm mounting centers	No blown fuse indication	41
5004938	17.6x27mm - PCB mounting	No blown fuse indication	
5005038	17.6x27mm - PCB mounting	No blown fuse indication	
5015436	22x58mm	No blown fuse indication	42
5015536	22x58mm - 80mm mounting centers	No blown fuse indication	
660V _{DC}			
5019006	27x60mm	No blown fuse indication	43
5019106	27x60mm	w / 2.5N striker	
5019206	27x60mm - 80mm mounting centers	No blown fuse indication	
700V _{DC}			
5011806	14x51mm	No blown fuse indication	44
5020106	14x51mm	No blown fuse indication	45
5020206	14x51mm - 63.5mm mounting centers		
5020306	14x51mm - PCB mounting		
5020606	14x65mm	No blown fuse indication	46
800V _{DC}			
5012006	14x65mm	No blown fuse indication	47
5028006	22x58mm	No blown fuse indication	48
5028106	22x58mm - 80mm mounting centers		
5026806	22x65mm		
5026534	22x65mm	No blown fuse indication	50
5026634	22x65mm - 86mm mounting centers		
900V _{DC}			
5020434	14x51mm	No blown fuse indication	51
5020534	14x51mm - 63.5mm mounting centers		
2055634	NH1	With fitting for microswitch	52
2054534	SBB-DC082 Bladed - Through Hole	With fitting for microswitch	53
2003134	NH3L/ SQB-DC93 - knife blade	No blown fuse indication	54 - 55
2003433	SQB-DC93 - DIN 170	No blown fuse indication	
2003434	SQB-DC93 - DIN 170	With blown fuse indication	
2003435	SQB-DC93 - DIN 170	With fitting for microswitch	
2003533	SQB-DC93 - US short	No blown fuse indication	
2003535	SQB-DC93 - US short	With fitting for microswitch	
2003633	SQB-DC93 - M12	No blown fuse indication	
2003635	SQB-DC93 - M12	With fitting for microswitch	
1000V _{DC}			
9008010	20mm x 127 mm	No blown fuse indication	56
9008210	20mm x 127 mm	With blown fuse indication	
2058521	NH0	With fitting for microswitch	57
9054025	SQB DC101 - DIN	No blown fuse indication	58
9054026		With fitting for microswitch	
9054425	SQB DC101 - US	No blown fuse indication	59
9054426		With fitting for microswitch	
9028026	SQB DC103 - M12	With fitting for microswitch	59
9028125	SQB DC103 - Bladed - US Long	With fitting for microswitch	
9028126		No blown fuse indication	
9029025	SQB DC104 - 2M12	No blown fuse indication	60
9029026		With fitting for microswitch	
9029125	SQB DC104 - 4M10	No blown fuse indication	
9029126		With fitting for microswitch	



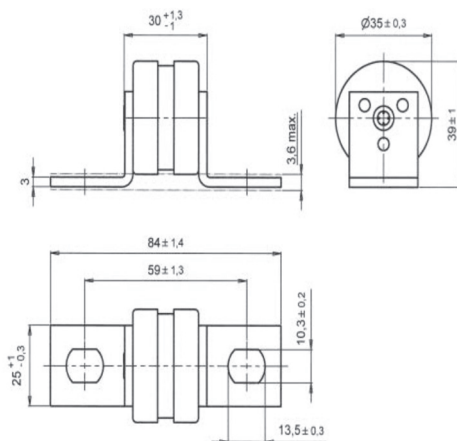
Fuses for DC Energy Storage Systems (ESS) Applications

Article Number	Description		Selection Guide	Technical Data
1200V _{DC}				
5024034	14mmx65mm, Full Range	No blown fuse indication	61	
5024234	14mmx65mm, bolted, Full Range	No blown fuse indication		
5024334	10/14mmx85mm, clip mounting, Full Range	No blown fuse indication		
2002834	NH1XL with flap Indicaror	With blown fuse indication	61	
2002933	NH1XL-SM160	No blown fuse indication		
2002934		With fitting for microswitch		
2024333	NH3L	No blown fuse indication	63 - 64	
2024334		No blown fuse indication		
2024533	SQB-DC123-DIN	No blown fuse indication		
2024534		No blown fuse indication		
2024733	SQB-DC123-US	No blown fuse indication		
2024735		With fitting for microswitch		
2024833	SQB-DC123-M12	No blown fuse indication		
2024835		With fitting for microswitch		
9039025	SQB DC94 - 2M12	No blown fuse indication	65	
9039026		With fitting for microswitch		
9039125	SQB DC94 - 4M10	No blown fuse indication		
9039126		With fitting for microswitch		
1500V _{DC} Breaking Capacity 100kA				
5027106	27,5x88mm - SM140	No blown fuse indication	66	
5027206	27,5x88mm - SM110	No blown fuse indication		
9044125	NH1XL	No blown fuse indication	67	
9044126		With fitting for microswitch		
9044525	SQB1 - Bladed - US Short	No blown fuse indication		
9044526		With blown fuse indication		
9022338	SQB-DC0	No blown fuse indication	67	
9022339		With fitting for microswitch		
9020338	SQB-DC2	No blown fuse indication	69	
9020339		With fitting for microswitch		
9021338	SQB-DC2-2	No blown fuse indication	70	
9021339		With fitting for microswitch		
2024336	NH3L	No blown fuse indication	71 - 72	
2024337		With fitting for microswitch		
2024536	SQB-DC153 - Bladed - DIN	No blown fuse indication		
2024537		With fitting for microswitch		
2024736	SQB-DC153 - Bladed - US	No blown fuse indication		
2024737		With fitting for microswitch		
2024836	SQB-DC153 - M12	No blown fuse indication		
2024837		With fitting for microswitch		
9044325	NH3L	No blown fuse indication	73 - 74	
9044326		With blown fuse indication		
9044725	SQB-DC153 - Bladed - US	No blown fuse indication		
9044727		With fitting for microswitch		
9044825	SQB-DC153 - Bladed - DIN	No blown fuse indication		
9044826		With blown fuse indication		
9044925	SQB-DC153 - M12	No blown fuse indication		
9044927		With blown fuse indication		
9044738	SQB-DC153 - Bladed - US	No blown fuse indication	75	
9044739		With blown fuse indication		
9044838	SQB-DC153 - Bladed - DIN	No blown fuse indication		
9044938	SQB-DC153 - M12	No blown fuse indication		
9044939		With fitting for microswitch		
9039225	SQB DC154 - 2M12	No blown fuse indication	76	
9039226		With fitting for microswitch		
9039325	SQB DC154 - 4M10	No blown fuse indication		
9039326		With blown fuse indication		

URDC-ESS		Rated Voltage [U _n] 150V _{DC}	Rated Breaking Test Capacity 40kA @ L/R ≈ 7ms	Voltage 150V _{DC}	Class aR	Standard(s) UL 248-13
35x30mm-59mm						
Rated current I _n [A]	Without indicator Article Number			Pre-arcing I ² t [A ² s]	Total I ² t* @ 150V _{DC} [A ² s]	Power loss @ I _n [W]
100	5005438.100			620	2 350	13
125	5005438.125			840	3 200	20
150	5005438.150			1 000	3 800	28
160	5005438.160			1 300	4.900	29
180	5005438.180			2 050	7 700	30
200	5005438.200			2 500	9 400	32
225	5005438.225			3 500	13 100	33
250	5005438.250			4 600	17 500	34
300	5005438.300			7 800	29 500	37
315	5005438.325			7 800	29 500	37
355	5005438.355			12 600	47 000	44
400	5005438.400			18 000	67 500	48
450	5005438.450			29 600	99 500	54
Weight [kg/1]		*L/R ≈ 7ms				
0.48						

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

For Time Current Curves
Contact SIBA LLC



Accessories

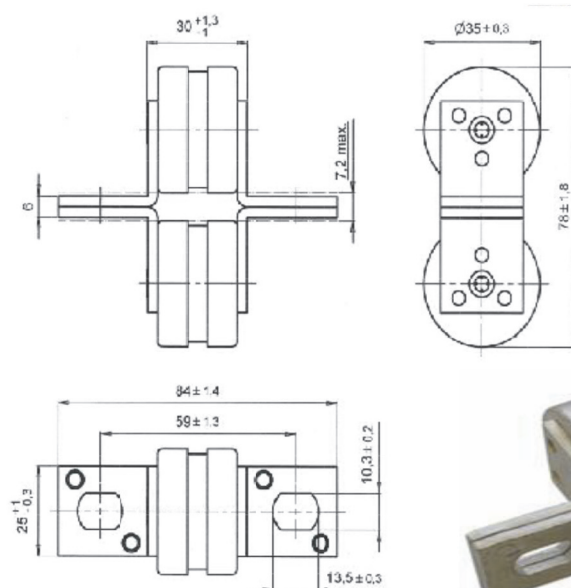
Article Description	Article Number	Page	Article Description	Article Number	Page

URDC-ESS	Rated Voltage	Rated Breaking Test	Class	Standard(s)
UL File E180276	$[U_n]$ 150V _{DC}	Capacity 40kA @ L/R ≈ 7ms	aR	UL 248-13
2x35x30mm-59mm				

Rated current I_n [A]	Without indicator Article Number		Pre-arcing I^2t [A ² s]	Total I^2t @ 150V _{DC} [A ² s]	Power loss @ I_n [W]
300	5007138.300		5 300	20 000	46
350	5007138.350		8 200	30 500	48
400	5007138.400		10 000	37 000	68
450	5007138.450		18 500	68 000	50
500	5007138.500		34 000	125 000	45
630	5007138.630		50 000	140 000	73
710	5007138.710		70 000	195 000	77
800	5007138.800		106 000	294 000	81
900	5007138.900		145 000	402 000	98
Weight [kg/1]			L/R ≈ 7ms		
0.30					

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

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Accessories

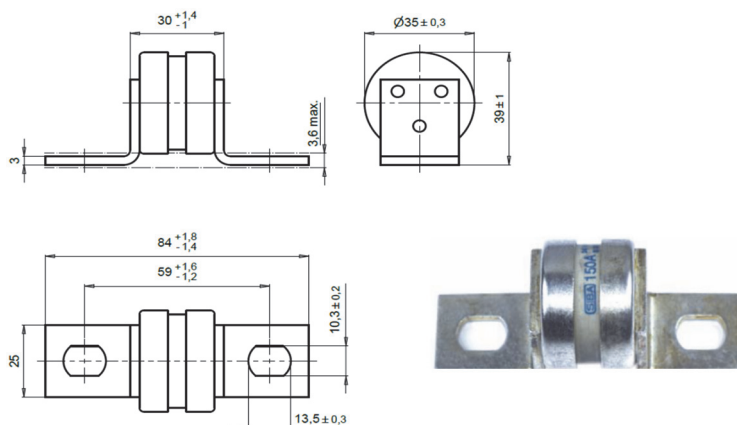
Article Description	Article Number	Page	Article Description	Article Number	Page

URDC-ESS  UL File E180276 35x30mm-59mm	Rated Voltage [U _n] 150V _{DC}	Rated Breaking Test Capacity 25kA @ L/R ≈ 9ms	Class aR	Standard(s) UL 248-13
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Rated current I _n [A]	Without indicator Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @ 150V _{DC} [A ² s]	Power loss @ I _n [W]
35	5007838.35		14 000	15 000	1.8
40	5007838.40		20 000	21 500	2.2
50	5007838.50		36 000	38 500	2.5
63	5007838.63		56 000	60 000	3
80	5007838.80		95 000	102 000	4
100	5007838.100		144 000	153 000	5
125	5007838.125		225 000	240 000	6
160	5007838.160		380 000	405 000	7
200	5007838.200		576 000	615 000	9
250	5007838.250		900 000	960 000	12
315	5007838.315		1 242 000	1 325 000	18
355	5007838.355		1 764 000	1 880 000	23
400	5007838.400		2 025 000	2 160 000	24
450	5007838.450		2 800 000	2 984 000	26
500	5007838.500		3 422 000	3 650 000	33
600	5007838.600		4 865 000	5 185 000	39
Weight [kg/1]			L/R ≈ 9ms		
0.148					

Coefficients for Heavy Duty Applications				
a	A2	B1 _{max}	B2	Cf3
130	0.9	1.25	0.6	0.8

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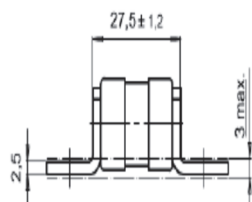
Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page

URDC-ESS	Rated Voltage	Rated Breaking Test	Class	Standard(s)
	[U _n] 250V _{DC}	Capacity 100kA @ L/R= 1 - 3ms	aR	UL 248-13
UL File E180276				
17.5x25.5mm				

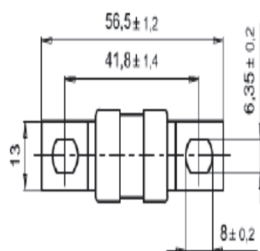
Rated current I _n [A]	Without indicator Bolted Article Number	Without indicator PCB mount Article Number	Without indicator PCB mount Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @ 250V _{DC} [A ² s]	Power loss* @ I _n [W]
12	5004838.12	5004938.12	5005038.12		8	39	2.0
16	5004838.16	5004938.16	5005038.16		18	87	2.4
20	5004838.20	5004938.20	5005038.20		25	120	3.3
25	5004838.25	5004938.25	5005038.25		39	190	3.6
32	5004838.32	5004938.32	5005038.32		40	200	4.5
40	5004838.40	5004938.40	5005038.40		100	480	5.3
50	5004838.50	5004938.50	5005038.50		130	630	6.7
63	5004838.63	5004938.63	5005038.63		250	1 200	7.7
80	5004838.80	5004938.80	5005038.80		420	2 000	10
100	5004838.100	5004938.100	5005038.100		620	2 900	13
125	5004838.125	5004938.125	5005038.125		1 000	4 800	16
160	5004838.160	5004938.160	5005038.160		1 500	7 200	22
180	5004838.180	5004938.180	5005038.180		2 300	11 000	24
Weight [kg/1]						* L/R = 1-3ms	
0.031							
				0.031			

* Depends on the mounting of the fuse insert, width and thickness of the conductor tracks as well as adjacent components.

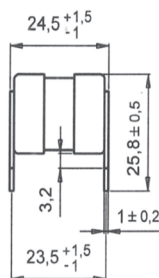


Coefficients for Heavy Duty Applications				
a	A2	B1 _{max}	B2	Cf3

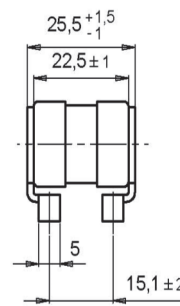
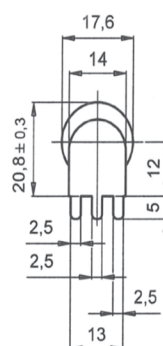
For Time Current Curves
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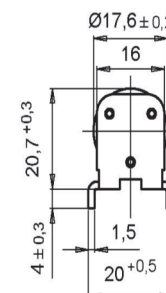
5004838



5004938



5005038



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page

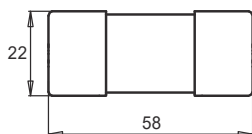
URDC-ESS	Rated Voltage	Rated Breaking Test	Class	Standard(s)
	[U _n] 250V _{DC}	Capacity 100kA @ L/R = 3.8ms	gR	UL 248-13
UL File E180276				
22x58mm				

Rated current I _n [A]	Without indicator Article Number	Without indicator 80mm Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @ 250V _{DC} [A ² s]	Power loss** @ I _n [W]
12	5015436.12	5015536.12		60	140	1.7
16	5015436.16	5015536.16		90	200	2.4
20	5015436.20	5015536.20		130	290	2.9
25	5015436.25	5015536.25		360	800	3.1
32	5015436.32	5015536.32		700	1 600	3.8
40	5015436.40	5015536.40		1 450	3 200	4.4
50	5015436.50	5015536.50		2 450	5 400	5.9
63	5015436.63	5015536.63		4 650	10 500	6.8
80	5015436.80	5015536.80		8 300	18 500	8.0
100	5015436.100	5015536.100		14 750	35 000	9.2
125	5015436.125	5015536.125		25 400	56 000	11.8
160	5015436.160	5015536.160		39 000	89 000	18.5
Weight [kg/1]		** Power loss limit of fuse-base has to be considered			* L/R = 3.8ms	
					0.075	

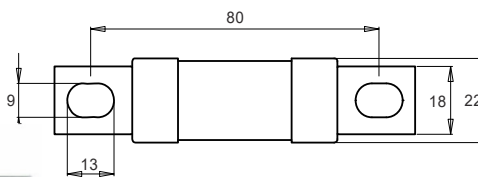
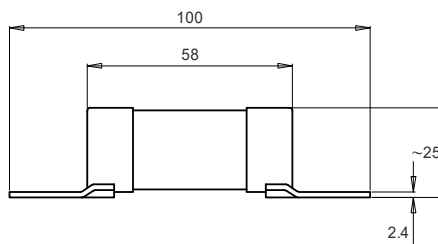
Coefficients for Heavy Duty Applications

a	A2	B1 _{max}	B2	Cf3
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For Time Current Curves
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5015436



5015536

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
5015436 ≤ 100A			5015436		
Fuse Modules			Fuse clips screw mounting	6100201.3	
1 - pole	5106005.1, 1L	89	Clamping plate for 61002 01.3	6300201	93
2 - pole	5106005.2, 2L		Terminal link for 6100201.3	6100201.4	
3 - pole	5106005.3, 3L		Fuse clips PCB mounting	5806006	

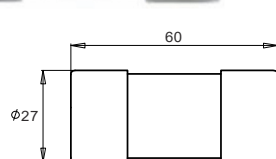
URDC-ESS	Rated Voltage	Rated Breaking Test	Class	Standard(s)
	[U _n]	Capacity	gR	UL 248-13
UL File E180276	660V _{DC}	30kA @ L/R = 10ms		IEC 60269-4
27x60mm	440V _{DC}			VDE 0636 - 4
				DIN EN 60269-4

Rated current I _n [A]	Without indicator Article Number	With 2.5N Striker ¹⁾ Article Number	Without indicator 80mm mounting Article Number	Rated voltage		Pre-arcing I ² t [A ² s]	Total I ² t* @ 660V _{DC} [A ² s]	Power loss** @ I _n [W]
				UL [V _{DC}]	IEC [V _{DC}]			
		No UL rec						
8	5019006.8	5019106.8	5019206.8	660	660	4	20	2.0
10	5019006.10	5019106.10	5019206.10	660	660	8	40	2.2
12	5019006.12	5019106.12	5019206.12	660	660	12	60	2.7
16	5019006.16	5019106.16	5019206.16	660	660	32	160	3.1
20	5019006.20	5019106.20	5019206.20	660	660	62	310	3.5
25	5019006.25	5019106.25	5019206.25	660	660	130	650	3.9
32	5019006.32	5019106.32	5019206.32	660	660	250	1 250	4.6
40	5019006.40	5019106.40	5019206.40	660	660	420	2 100	6.6
50	5019006.50	5019106.50	5019206.50	660	660	620	3 100	7.5
63	5019006.63	5019106.63	5019206.63	660	660	1 200	6 000	8.9
80	5019006.80	5019106.80	5019206.80	660	660	2 100	10 500	10.9
100	5019006.100	5019106.100	5019206.100	660	660	3 500	17 500	13.5
110	5019006.110	5019106.110	5019206.110	660	660	4 600	23 000	14.2
125	5019006.125	5019106.125	5019206.125	—	440	7 800	29 600	16.0
160	5019006.160	5019106.160	5019206.160	—	440	11 800	44 900	19.0
Weight [kg/1]				** Power loss limit of fuse-base has to be considered				*L/R = 10ms
	0.10	0.10	0.115					

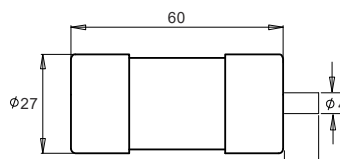
¹⁾ Minimum operating voltage 10V

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

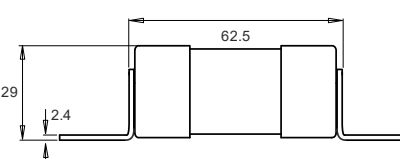
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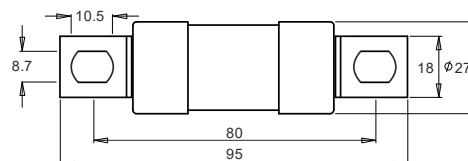
5019006



5019106



5019206



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
5019006 & 5019106					
Fuse clips screw mounting	6100401.3	93			
Clamping plate for 61002 01.3	6300201				
Terminal link for 6100201.3	6100201.4				



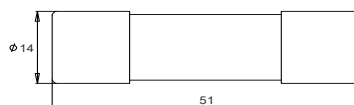
FUSES

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

Rated current I _n [A]	Without indicator Article Number	UL rec.		Pre-arcing I ² t [A ² s]	Total I ² t @ 700V _{DC} [A ² s]	Power loss @ I _n [W]
6	5011806.6	✓		2.0	12	1.3
8	5011806.8	✓		2.9	17	1.7
10	5011806.10	✓		3.9	25	2.6
12	5011806.12	✓		6.5	41	3.1
16	5011806.16	✓		8.0	52	4.7
20	5011806.20	✓		12	70	6.0
25	5011806.25	✓		20	130	7.6
30	5011806.30	✓		32	190	9.8
35	5011806.35	—		71	430	10.3
40	5011806.40	—		103	620	11.2
50	5011806.50	—		128	770	12.6
Weight [kg/1]						
0.02						

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

For Time Current Curves
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Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse modules - IEC only			5011806		
1 - pole	5105805.1DC	88	Fuse clips PCB mounting	5805806	92
1- pole, w neon lamp indicator	5105805.1LDC		Fuse clips screw mounting	6100101.2	
2 - pole	5105805.2DC		Clamping plate for 5805806	6301701	
2- pole, w neon lamp indicator	5105805.2LDC				

URDC-ESS	Rated Voltage	Rated Breaking Test	Class	Standard(s)
	[U _n] 700V _{DC}	Capacity 30kA	aR	UL 248-13
UL File E180276				
14x51mm				

Rated current I _n [A]	Without indicator Article Number	Without indicator 63.5mm mounting Article Number	Without indicator PB mounting Article Number		Pre-arcing I ² t [A ² s]	Total I ² t @ 700V _{DC} [A ² s]	Power loss** @ I _n [W]
	UL rec.	No UL rec	No UL rec				
10	5020106.10	5020206.10	5020306.10		12	67	1.1
12	5020106.12	5020206.12	5020306.12		20	120	1.2
16	5020106.16	5020206.16	5020306.16		32	190	2.0
20	5020106.20	5020206.20	5020306.20		63	360	2.3
25	5020106.25	5020206.25	5020306.25		82	480	3.1
32	5020106.32	5020206.32	5020306.32		130	740	4.4
40	5020106.40	5020206.40	5020306.40		250	1 460	4.6
50	5020106.50	5020206.50	5020306.50		330	1 900	7.0
63	5020106.63	5020206.63	5020306.63		512	3 900	9.5

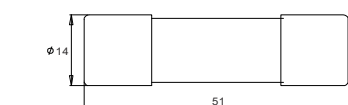
Weight [kg/1]		
0.02	0.02	

** Power loss limit of fuse-base has to be considered

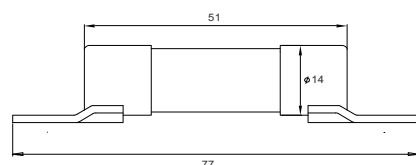
* Power loss limit of fuse base has to be considered

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

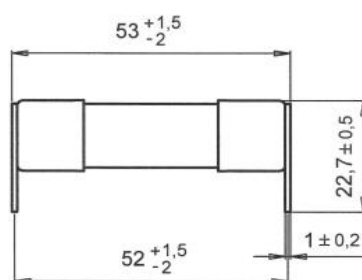
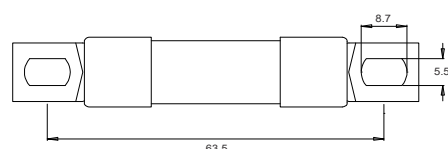
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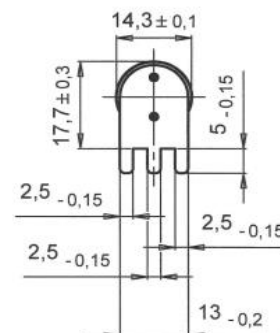
5020106



5020206



5020306



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
5011806			5011806 & 5020206		
Fuse modules - IEC only			Fuse clips PCB mounting	5805806	92
1 - pole	5105805.1DC	88	Fuse clips screw mounting	6100101.2	
1- pole, w neon lamp indicator	5105805.1LDC		Clamping plate for 5805806	6301701	
2 - pole	5105805.2DC				
2- pole, w neon lamp indicator	5105805.2LDC				

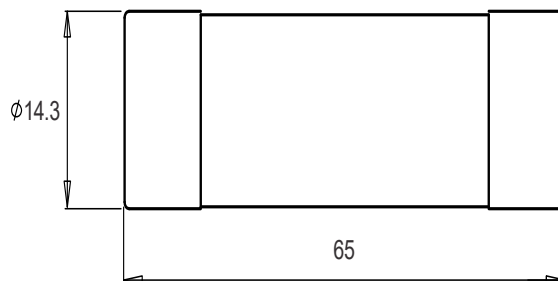
URDC-ESS	Rated Voltage [U _n] 720V _{DC}	Rated Breaking Test Capacity 30kA	Class aR	Standard(s) UL 248-13
 UL File E180276 14x65mm				

Rated current I _n [A]	Without indicator Article Number		Pre-arcing I ² t [A ² s]	Total I ² t @ 700V _{DC} [A ² s]	Power loss @ I _n [W]
63	5020606.63 ¹⁾		510	4 200	12
80	5020606.80 ²⁾		1 000	6 000	16
	Weight [kg/1]				
	0.03				

¹⁾ 63A- Minimum breaking current 4xI_n @ 720V_{DC}
²⁾ 80A- Minimum breaking current 6xI_n @ 720V_{DC}

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

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Accessories

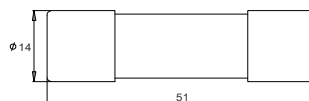
Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse clips PCB mounting	5805806	92			
Fuse clips screw mounting	6100101.2				
Clamping plate for 5805806	6301701				

URDC-ESS  UL File E180276 14x51mm	Rated Voltage [U _n] 800V _{DC}	Rated Breaking Test Capacity 30kA	Voltage 880V _{DC}	Class gR	Standard(s) UL 248-13
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Rated current I _n [A]	Without indicator Article Number		Pre-arcing I ² t [A ² s]	Total I ² t @ 880V _{DC} [A ² s]	Power loss* @ I _n [W]
20	5012006.20		46	370	3.2
25	5012006.25		90	715	4.0
32	5012006.32		120	950	5.5
Weight [kg/1]		* Power loss limit of fuse base has to be considered			
0.02					

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

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Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse modules - IEC Only					
1 - pole	5105805.1DC	88	Fuse clips PCB mounting	5805806	92
2 - pole, with neon lamp indicator	5105805.1LDC		Fuse clips screw mounting	6100101.2	
2 - pole	5105805.2DC		Clamping plate for 5805806	6301701	
2 - pole, with neon lamp indicator	5105805.2LDC				

URDC-ESS	Rated Voltage	Rated Breaking Test	Class	Standard(s)
 UL File E180276 22x58mm	[U _n] 700V _{DC}	Capacity 50kA @ L/R = 10ms	aR	UL 248-13

Rated current I_n [A]	Without indicator Article Number	Without indicator 80mm mounting Article Number		Pre-arcing I^2t [A ² s]	Total I^2t^* @ 700V _{DC} [A ² s]	Power loss* @ I_n [W]
16	5028006.16	5028106.16		12	125	3.5
20	5028006.20	5028106.20		21	350	4.5
25	5028006.25	5028106.25		32	400	6.0
32	5028006.32	5028106.32		63	700	7.5
40	5028006.40	5028106.40		141	1 500	8.0
50	5028006.50	5028106.50		208	2 500	10.0
63	5028006.63	5028106.63		512	5 400	10.5
80	5028006.80	5028106.80		1 005	10 400	11.0
100	5028006.100	5028106.100		2 050	21 200	12.0
	Weight [kg/1]		*Power loss limit of fuse base has to be considered			*L/R = 10ms
	0.055	0.078				

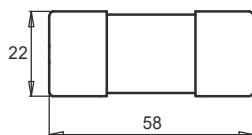
Coefficients for Heavy Duty Applications

a A2 B1_{max} B2 Cf3

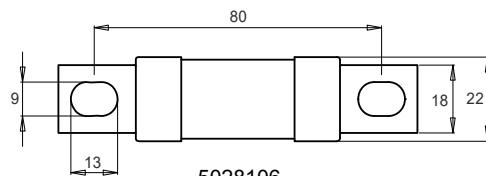
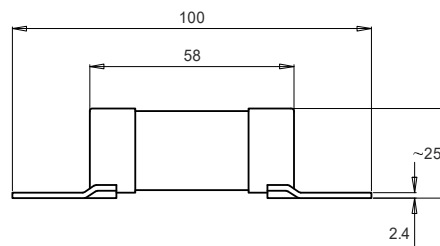
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Fuse clips screw mounting	6100201.3
Clamping plate for 61002 01.3	6300201
Terminal link for 6100201.3	6100201.4
Fuse clips PCB mounting	5806006



5028006



5028106

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
5028006			5028006		
Fuse modules - IEC only			Fuse clips screw mounting	6100201.3	93
1 - pole	5106005.1,1L	88	Clamping plate for 61002 01.3	6300201	
2 - pole	5106005.2,2L		Terminal link for 6100201.3	6100201.4	
3 - pole	5106005.3,3L		Fuse clips PCB mounting	5806006	

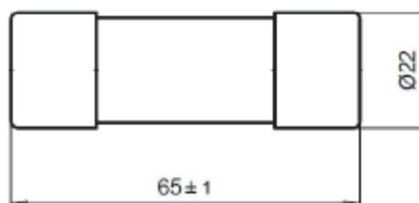
URDC-ESS	Rated Voltage [U _n] 800V _{DC}	Rated Breaking Test Capacity 100kA @ L/R ≈ 12ms	Class aR	Standard(s) IEC 60269-1 IEC 60269-4
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22x65mm

Rated current I _n [A]	Without indicator Article Number		Pre-arcing I ² t [A ² s]	Total I ² t @ 880V _{DC} [A ² s]	Power loss @ I _n [W]
100	5026806.100		2 050	10 500	23
125	5026806.125		3 460	17 000	35
	Weight [kg/1]			L/R ≈ 12ms	

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

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**Accessories**

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse clips screw mounting	6100201.3	93			
Clamping plate for 61002 01.3	6300201				
Terminal link for 6100201.3	6100201.4				
Fuse clips PCB mounting	5806006				

URDC-ESS	Rated Voltage [U _n] 800V _{DC}	Rated Breaking Test Capacity 120kA	Class gRL (gS)	Standard(s) IEC 60269-1 IEC 60269-4
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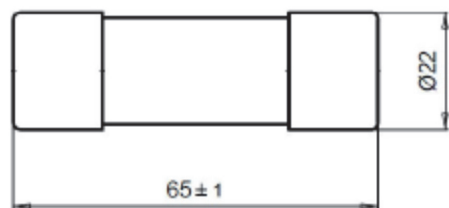
22x65mm

Rated current I _n [A]	Without indicator Article Number	Without indicator 86mm mounting Article Number		Pre-arcing I ² t [A ² s]	Total I ² t @ 880V _{DC} [A ² s]	Power loss @ I _n [W]
10	5026534.10	5026634.10		20	280	1.8
12	5026534.12	5026634.12		30	400	2.0
16	5026534.16	5026634.16		50	700	2.5
20	5026534.20	5026634.20		85	1 150	3.5
25	5026534.25	5026634.25		100	1 350	4.5
30	5026534.30	5026634.30		220	3 000	4.6
32	5026534.32	5026634.32		250	3 400	4.8
35	5026534.35	5026634.35		330	4 500	5.0
40	5026534.40	5026634.40		420	5 700	6.0
50	5026534.50	5026634.50		900	12 200	6.5
63	5026534.63	5026634.63		1 300	17 500	8.5
80	5026534.80	5026634.80		2 500	28 000	10.5
100	5026534.100	5026634.100		4 600	46 000	11.5
Weight [kg/1]						
0.06						

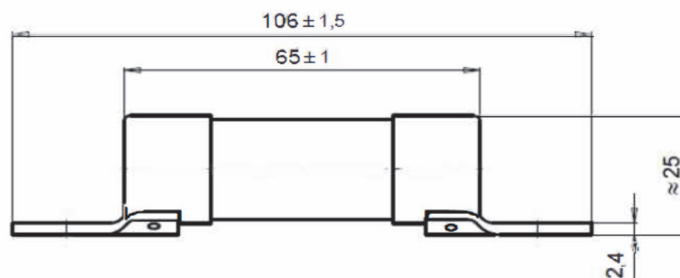
Coefficients for Heavy Duty Applications

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

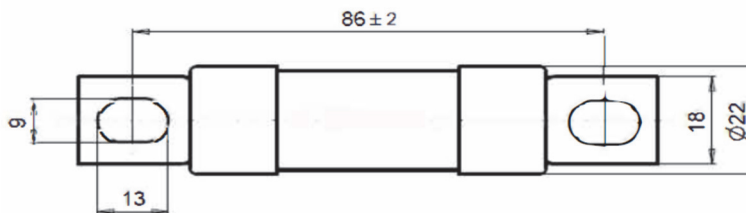
For Time Current Curves
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5026534



5026634



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
5026534					
Fuse clips screw mounting	6100201.3	93			
Clamping plate for 61002 01.3	6300201				
Terminal link for 6100201.3	6100201.4				
Fuse clips PCB mounting	5806006				

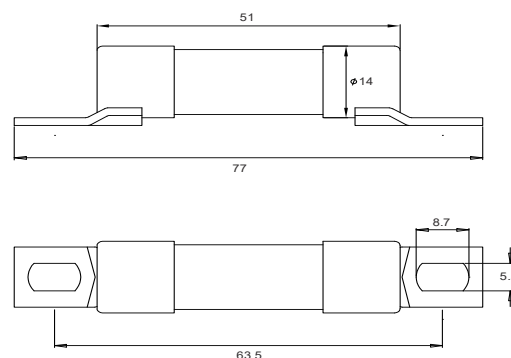
URDC-ESS			Rated Voltage	Rated Breaking Test		Class	Standard(s)	
 UL File E180276 14x51mm			[U _n]	Capacity	Voltage	gR	UL 248-13	
			900V _{DC} - UL	30kA @ L/R ≈ 10ms	900V _{DC}	gRL(gS)	IEC 60269-4	
			800V _{DC} - IEC	100kA @ L/R = 1 - 3ms	900V _{DC}			
			30kA @ L/R = 1 - 3ms	1000V _{DC}				
Rated current I _n [A]	Without indicator Article Number	Without indicator 63.5mm mounting Article Number				Pre-arcing I ² t [A ² s]	Total I ² t* @ 900V _{DC} [A ² s]	Power loss** @ I _n [W]
10	5020434.10	5020534.10				12	80	2
16	5020434.16	5020534.16				30	200	3
20	5020434.20	5020534.20				82	510	3.5
25	5020434.25	5020534.25				150	950	4
	Weight [kg/1]		** Rated power acceptance of fuse-base has to be considered					* L/R≈8ms
	0.020							

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

For Time Current Curves
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5020434



5020534



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
5020434			5020434		
Fuse modules - IEC Only			Fuse clips PCB mounting	5805806	92
1 - pole	5105805.1DC	88	Fuse clips screw mounting	6100101.2	
1 - pole, with neon lamp indicator	5105805.1LDC		Clamping plate for 5805806	6301701	
2 - pole	5105805.2DC				
2 - pole, with neon lamp indicator	5105805.2LDC				

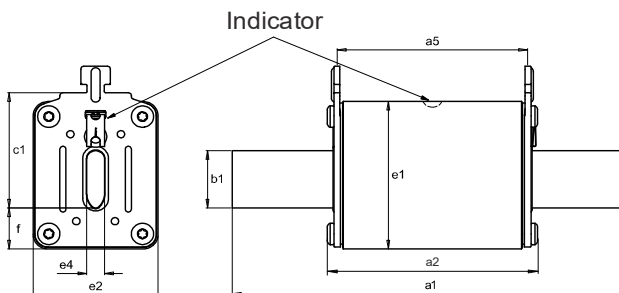
URDC-ESS	Rated Voltage	Rated Breaking Test	Class	Standard(s)
UL	[U _n]	Capacity	gR	UL 248-13
UL File E180276	900V _{DC} - UL	100kA @ L/R ≈ 8ms	gRL(gS)	IEC 60269-4
NH1	800V _{DC} - IEC	900V _{DC}		

Rated current I _n [A]	With indicaor and fitting for microswitch Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @ 900V _{DC} [A ² s]	Power loss** @ I _n [W]
32	2055634.32		105	650	7
40	2055634.40		250	1 250	7.5
50	2055634.50		420	2 000	8
63	2055634.63		750	3 550	10
80	2055634.80		1 350	6 250	12
100	2055634.100		2 050	9 500	15
125	2055634.125		3 700	17 000	19
160	2055634.160		7 800	35 000	21
Weight [kg/l]		** Rated power acceptance of fuse-base has to be considered			* L/R ≈ 8ms
0.50					

Coefficients for Heavy Duty Applications

a A2 B1_{max} B2 Cf3For Time Current Curves
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	Dimensions [in / mm]
a1	5.32 / 135
a2	2.76 / 70
a5	2.56 / 65
b1	0.79 / 20
e1	2.03 / 51.5
e2	1.65 / 42
e4	0.24 / 6
c1	1.57 / 40
f	0.57 / 14.5



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse base, NH1, 1-pole, UL E186970	2155601	86	Fuse handel insertion / removal tool		
			Standard	2200102	94
Microswitch (GL red hammer)			w/ Leather sleeve	2200105	
Standard level, UL E309038	2800202	80			
Low, UL E309038	2800204				

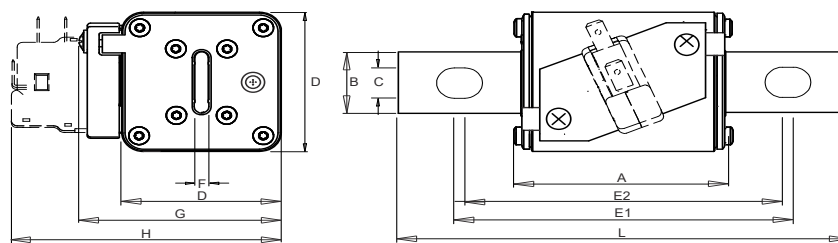
URDC-ESS  UL File E180276 SQB-DC082	Rated Voltage [U _n] 900V _{DC}	Rated Breaking Test Capacity 226kA @ L/R = 2.7ms	Class gR gRL(gS)	Standard(s) UL 248-13 IEC 60269-4 VDE 0636-4
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Rated current I _n [A]	Bolted blade with fitting for microswitch Article Number		Pre-arcing I ² _t [A ² s]	Total I ² _t [*] @ 900V _{DC} [A ² s]	Power loss @ I _n [W]
63	2054534.63		865	2 600	12
80	2054534.80		1 300	3 900	13
100	2054534.100		2 500	7 500	14
125	2054534.125		4 600	13 600	18
160	2054534.160		7 800	23 100	22
200	2054534.200		12 300	36 500	28
250	2054534.250		23 700	70 200	34
315	2054534.315		42 400	126 000	37
350	2054534.350		55 400	164 000	43
Weight [kg/1]			*L/R = 2.7ms		
0.88					

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

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Dimensions [in / mm]	
A	3.15 / 80
B	1.02 / 26
C	0.41 / 10.3
D	2.32 / 59
E1	5.12 / 130
E2	5.39 / 137
F	0.24 / 6
G	2.95 / 75
H	3.86 / 98
L	7.13 / 181



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Microswitch (M)					
Standard level, UL E309038	2800114	81			
Low level, UL E309038	2801114				

URDC-ESS	Rated Voltage	Rated Breaking Test	Class	Standard(s)
	[U _n]	Capacity	gR	UL 248-13
UL File E180276	900V _{DC} - UL	100kA @ L/R ≈ 8ms	gRL(gS)	IEC 60269-4
NH3L & SQB-DC93	900V _{DC} / 800V _{DC} - IEC	50kA @ L/R ≈ 10ms		

Rated current I _n [A]	NH3L with fitting for microswitch Article Number	UL gR	IEC gRL(gS)					Pre-arcing i ² _t [A ² s]	Total i ² _t @ 900V _{DC} [A ² s]	Power loss @ I _n [W]
125	2003134.125	900V	900V					5 400	30 000	22
160	2003134.160	900V	900V					9 500	52 000	27
200	2003134.200	900V	900V					21 500	116 000	30
250	2003134.250	900V	900V					38 200	206 000	34
315	2003134.315	900V	900V					57 100	307 000	50
350	2003134.350	900V	900V					79 700	428 000	52
*L/R ≈ 10ms										

	SQB-DC93 with fitting for microswitch Article Number	SQB-DC93 - DIN without indicator Article Number	SQB-DC93 - DIN with indicator Article Number	SQB-DC93 - DIN with fitting for microswitch Article Number	UL gR	IEC gRL(gS)	Pre-arcing i ² _t [A ² s]	Total i ² _t @ 900V _{DC} [A ² s]	Power loss @ I _n [W]
400	2003134.400	2003433.400	2003434.400	2003435.400	900V	800V	106 000	561 000	58
450	2003134.450	2003433.450	2003434.450	2003435.450	900V	800V	153 000	790 000	62
500	2003134.500	2003433.500	2003434.500	2003435.500	900V	800V	189 000	975 000	74
550	2003134.550	2003433.550	2003434.550	2003435.550	900V	800V	258 000	1 330 000	79
630	2003134.630	2003433.630	2003434.630	2003435.630	900V	800V	331 000	1 700 000	90
Weight [kg/1]								*L/R ≈ 10ms	
1.37 / 2.15									

Rated current I _n [A]	SQB-DC93 - US without indicator Article Number	SQB-DC93 - US with fitting for microswitch Article Number	SQB-DC93 - M12 without indicator Article Number	SQB-DC93 - M12 with fitting for microswitch Article Number	UL gR	IEC gRL(gS)	Pre-arcing i ² _t [A ² s]	Total i ² _t @ 900V _{DC} [A ² s]	Power loss @ I _n [W]
400	2003533.400	2003535.400	2003633.400	2003635.400	900V	800V	106 000	561 000	58
450	2003533.450	2003535.450	2003633.450	2003635.450	900V	800V	153 000	790 000	62
500	2003533.500	2003535.500	2003633.500	2003635.500	900V	800V	189 000	975 000	74
550	2003533.550	2003535.550	2003633.550	2003635.550	900V	800V	258 000	1 330 000	79
630	2003533.630	2003535.630	2003633.630	2003635.630	900V	800V	331 000	1 700 000	90
Weight [kg/1]								*L/R ≈ 10ms	

Coefficients for Heavy Duty Applications

a	A2	B1 _{max}	B2	Cf3
130	0.9	1.25	0.5	0.8

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Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
2003134			2003435, 2003535 & 2003635		
Fuse base, 1-pole, NH3L, UL - E186907	2103101	86	Microswitch (M), preferred		
Microswitch (GL red hammer)			Standard level, UL E309038	2800114	81
Standard level, UL E309038	2800202	80	Low level, UL E309038	2801114	
Low level, UL E309038	2800204				
Fuse handel insertion / removal tool			Microswitch (B), No UL		
Standard	2203101	94	Standard level	2800310	82
w/ Leather sleeve	2203102		Low level	2800410	

URDC-ESS



UL File E180276

NH3L & SQB-DC93

Rated Voltage

[U_n]900V_{DC} - UL900V_{DC} / 800V_{DC} - IEC

Rated Breaking Test

Capacity

100kA @ L/R ≈ 8ms

50kA @ L/R ≈ 10ms

Voltage

900V_{DC}1000V_{DC}

Class

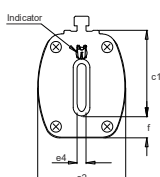
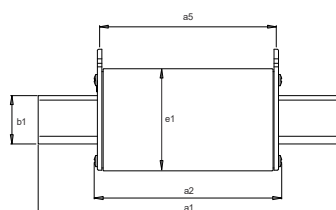
gR

gRL(gS)

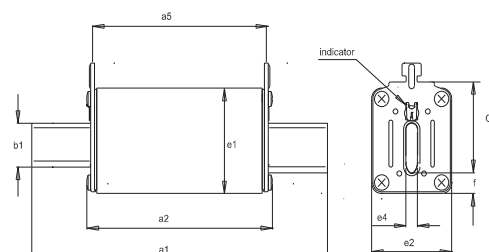
Standard(s)

UL 248-13

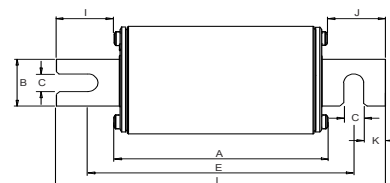
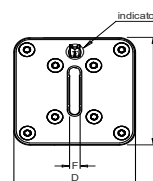
IEC 60269-4



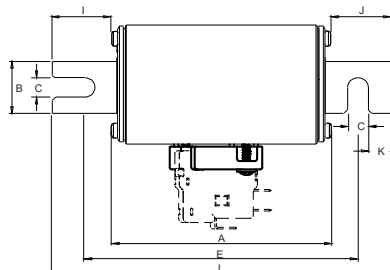
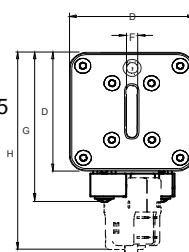
Dimensions [in / mm]			
2003134			
125A - 350A		400A - 630A	
8.11 / 206	a1	8.19 / 208	
5.00 / 127	a2	5.23 / 134	
4.72 / 120	a5	4.92 / 125	
1.26 / 32	b1	1.26 / 32	
2.36 / 60	c1	2.36 / 60	
2.68 / 68	e1	2.87 / 73	
2.36 / 60	e2	2.87 / 73	
0.24 / 6	e4	0.24 / 6	
0.47 / 12	f	0.63 / 16	



Dimensions [in / mm]			
2003433	2003434		2003435
5.14 / 130.5	5.14 / 130.5	A	5.14 / 130.5
1.39 / 35	1.39 / 35	B	1.39 / 35
0.43 / 11	0.43 / 11	C	0.43 / 11
2.87 / 73	2.87 / 73	D	2.87 / 73
6.57 / 167	6.57 / 167	E	6.57 / 167
0.24 / 6	0.24 / 6	F	0.24 / 6
		G	3.46 / 88
		H	4.37 / 111
1.24 / 31.5	1.24 / 31.5	I	1.24 / 31.5
1.44 / 36.5	1.44 / 36.5	J	1.44 / 36.5
0.35 / 9	0.35 / 9	K	0.35 / 9
7.80 / 198	7.80 / 198	L	7.80 / 198

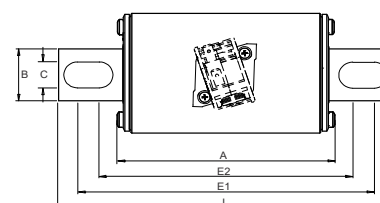
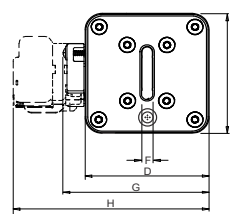
2003433
2003434

2003435

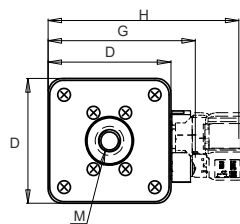
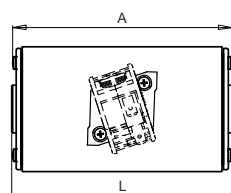


Dimensions [in / mm]			
2003533		2003535	
5.14 / 130.5	A	5.14 / 130.5	
1.38 / 35	B	1.38 / 35	
0.63 / 16	C	0.63 / 16	
2.87 / 73	D	2.87 / 73	
7.48 / 190	E1	7.48 / 190	
6.14 / 156	E2	6.14 / 156	
0.24 / 6	F	0.24 / 6	
-	G	3.46 / 88	
-	H	4.80 / 122	
8.46 / 215	L	8.46 / 215	

2003533 / 2003535



2003633 / 2003635



Dimensions [in / mm]			
2003633		2003635	
5.14 / 130.5	A	5.14 / 130.5	
1.14 / 28	B	1.14 / 28	
2.87 / 73	D	2.87 / 73	
-	G	3.46 / 88	
-	H	4.80 / 122	
5.51 / 140	L	5.51 / 140	
M12	M	M12	
Thread depth - 0.39 / 10			
Torque max. - 48N•m / 35.4lb•ft			

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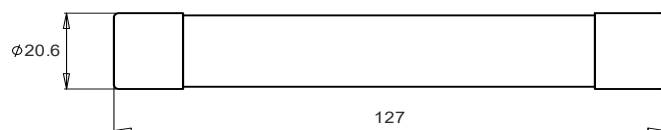
20x127mm

Rated current I _n [A]	With indicator ≥ 6A Article Number	With 2.5N striker Article Number		Pre-arcing I ² t [A ² s]	Total I ² t @ 1000V _{DC} [A ² s]	Power loss @ I _n [W]
3.15	9008010.3.15	aR		2	13	4.1
6	9008010.6	gR	9008210.6	3	17	3.0
8	9008010.8	gR	9008210.8	7	42	3.2
10	9008010.10	gR	9008210.10	13	75	3.4
12	9008010.12	gR	9008210.12	20	120	4.6
16	9008010.16	gR	9008210.16	52	300	5.7
20	9008010.20	gR	9008210.20	82	470	6.8
25	9008010.25	gR	9008210.25	118	670	8.1
32	9008010.32	gR	9008210.32	184	1 050	10
40	9008010.40	gR	9008210.40	472	2 700	12
50	9008010.50	gR	9008210.50	737	4 200	13
63	9008010.63	gR	9008210.63	1 300	7 500	19
Weight [kg/1]						
0.12						

Coefficients for Heavy Duty Applications

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

For Time Current Curves
Contact SIBA LLC



9008010.3.15



9008010 / 9008210
≥6A



Accessories

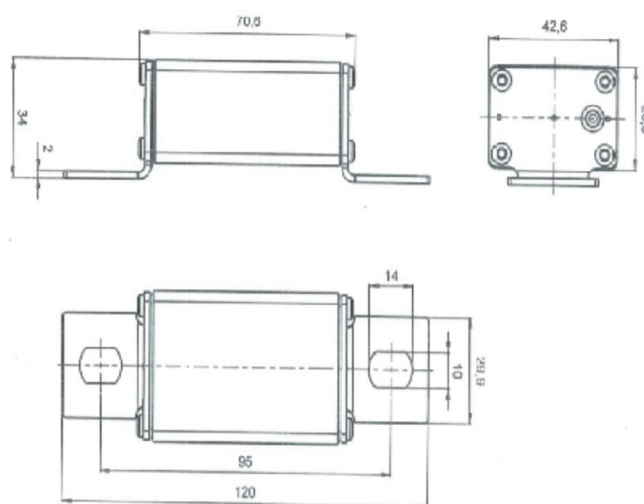
Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse module, 1-pole	9108001	91	Fuse clips screw mounting	6100201.3	93
Fuse module, 2-pole	9108001.2		Clamping plate for 6100201.3	6300201	
Fuse base, 1-pole	9108001-B1		Terminal link for 6100201.3	6100201.4	
			Fuse clips PCB mounting	5806006	
Fuse module, 1-pole w/ microswitch fitting	9108003	91			

URDC-ESS UL UL File E180276 NH0-SM95	Rated Voltage [U _n] 1000V _{DC}	Rated Breaking Test Capacity 100kA @ L/R < 3ms	Voltage 1000V _{DC}	Class gR / aR	Standard(s) UL 248-13 IEC 60269-4
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Rated current I _n [A]	Without indicator Article Number		Pre-arcing I ² t [A ² s]	Total I ² t @ 1000V _{DC} [A ² s]	Power loss @ I _n [W]
63	2058521.63	gR	620	1 900*	13
80	2058521.80	gR	1 000	3 000*	15
100	2058521.100	gR	1 660	4 900*	19
125	2058521.125	aR	3 700	8 900**	21
160	2025521.160	aR	6 600	16 000**	29
200	2058521..200	aR	9 900	24 000**	33
Weight [kg/1]				*L/R ≈ 2.9ms	
				**L/R ≈ 4ms	

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

For Time Current Curves
Contact SIBA LLC



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page

URDC-ESS



UL File E180276

SQB-DC101

Rated Voltage

 $[U_n]$ 1000V_{DC}

Rated Breaking Test

Capacity

200kA @ L/R ≈ 3ms

Voltage

1000V_{DC}

Class

aR

Standard(s)

UL 248-13

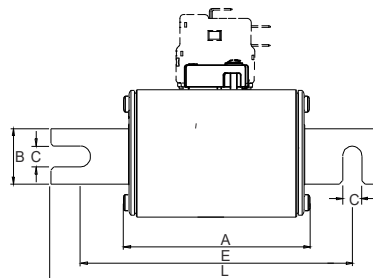
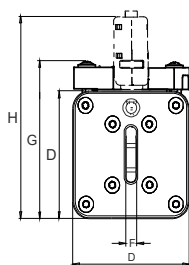
Rated current I_n [A]	SQB-DC101-DIN Without indicator Article Number	SQB-DC101-DIN With fitting for microswitch Article Number	SQB-DC101-US Without indicator	SQB-DC101-US With fitting for microswitch Article Number		Pre-arcing I^2t [A ² s]	Total I^2t^* @ 1000V _{DC} [A ² s]	Power loss @ I_n [W]
63	9054025.63	9054026.63	9054425.63	9054426.63		330	1 600	18
80	9054025.80	9054026.80	9054425.80	9054426.80		620	3 000	24
100	9054025.100	9054026.100	9054425.100	9054426.100		1 300	6 400	27
125	9054025.125	9054026.125	9054425.125	9054426.125		2 050	10 000	30
160	9054025.160	9054026.160	9054425.160	9054426.160		3 700	14 500	39
200	9054025.200	9054026.200	9054425.200	9054426.200		5 600	21 500	55
225	9054025.225	9054026.225	9054425.225	9054426.225		7 800	37 500	65
250	9054025.250	9054026.250	9054425.250	9054426.250		9 900	38 000	74
315	9054025.315	9054026.315	9054425.315	9054426.315		18 500	61 000	80
350	9054025.350	9054026.350	9054425.350	9054426.350		27 000	130 000	83
400	9054025.400	9054026.400	9054425.400	9054426.400		39 000	190 000	85
Weight [kg/1]						* L/R ≈ 3ms		
0.68		0.68		0.63				

Coefficients for Heavy Duty Applications

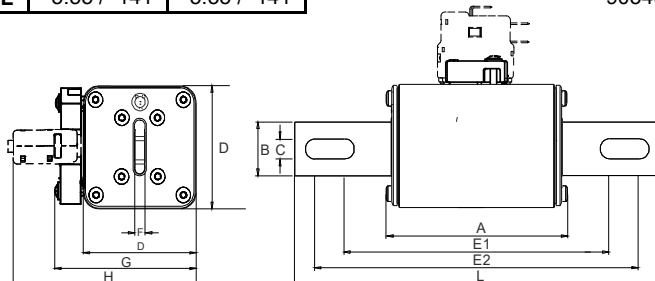
a	A2	B1 _{max}	B2	Cf3
130	0.6	1.25	0.6	0.8

For Time Current Curves
Contact SIBA LLC

Dimensions [in / mm]		
	9054025	9054026
A	3.19 / 81	3.19 / 81
B	1.02 / 26	1.02 / 26
C	0.43 / 11	0.43 / 11
D	1.97 / 50	1.97 / 50
E	4.25 / 108	4.25 / 108
F	0.24 / 6	0.24 / 6
G	—	2.56 / 65
H	—	3.46 / 88
L	5.55 / 141	5.55 / 141



9054025 / 9054026



9054425 / 9054426

Dimensions [in / mm]		
	9054025	9054026
A	3.19 / 81	3.19 / 81
B	1.02 / 26	1.02 / 26
C	0.55 / 14	0.55 / 14
D	1.97 / 50	1.97 / 50
E1	4.13 / 105	4.13 / 105
E2	5.55 / 141	5.55 / 141
F	0.24 / 6	0.24 / 6
G	—	2.56 / 65
H	—	3.46 / 88
L	6.54 / 166	6.54 / 166

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Microswitch(M), preferred					
Standard level, UL E309038	2800114	81			
Low level, UL E309038	2801114				

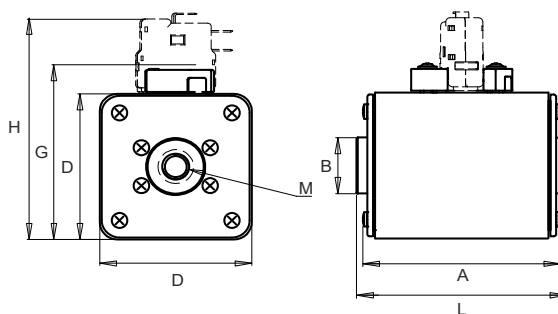
URDC-ESS	Rated Voltage	Rated Breaking Test	Class	Standard(s)
	[U _n] 1000V _{DC}	Capacity 135kA @ L/R ≈ 3ms	aR	UL 248-13
UL File E180276				
SQB DC103				

Rated current I _n [A]	SQB-DC103-M12 With fitting for microswitch Article Number	SQB-DC103-US Without indicator Article Number	SQB-DC103-US With fitting for microswitch Article Number			Pre-arcing i ² t [A ² s]	Total i ² t* @ 1000V _{DC} [A ² s]	Power loss @ I _n [W]
400	9028026.400	9028125.400	9028126.400			31 150	115 000	94
450	9028026.450	9028125.450	9028126.450			39 650	145 000	98
500	9028026.500	9028125.500	9028126.500			64 200	232 000	102
550	9028026.550	9028125.550	9028126.550			89 200	325 000	105
630	9028026.630	9028125.630	9028126.630			124 600	450 000	110
Weight [kg/1]			1.48					

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

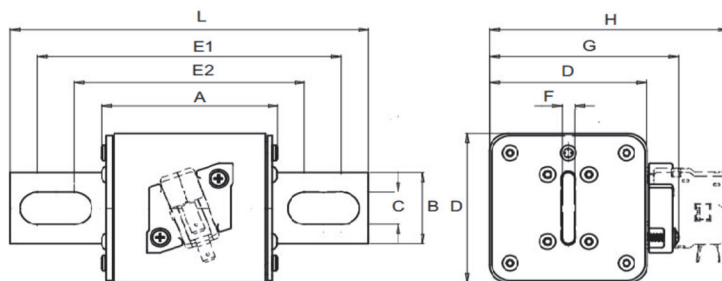
For Time Current Curves
Contact SIBA LLC

Dimensions [in / mm]	
9028026	
A	3.23 / 82
B	1.10 / 28
D	2.87 / 73
G	3.46 / 88
H	4.37 / 111
L	3.58 / 91
M	M12
Thread depth - 0.47 / 12	
Torque max. - 52N•m / 38.3lb•ft	



9028026

Dimensions [in / mm]		
9028125		9028126
3.23 / 82	A	3.23 / 82
1.38 / 35	B	1.38 / 35
0.63 / 16	C	0.63 / 16
2.87 / 73	D	2.87 / 73
4.21 / 107	E1	4.21 / 107
5.54 / 141	E2	5.54 / 141
0.24 / 6	F	0.24 / 6
—	G	3.46 / 88
—	H	4.37 / 111
6.57 / 166	L	6.57 / 166



9028125 / 9028126

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
			Microswitch (M), preferred		
			Standard level, UL E309038	2800114	81
			Low level, UL E309038	2801114	

URDC-ESS



UL File E180276

SQB - DC104

Rated Voltage

[U_n]1000V_{DC}

Rated Breaking Test

Capacity

135kA @ L/R ≈ 6ms

Voltage

1000V_{DC}

Class

aR

Standard(s)

UL 248-13

Rated current I _n [A]	SQB-DC104-2M12 Without indicator Article Number	SQB-DC104-2M12 With fitting for microswitch Article Number	SQB-DC104-4M10 Without indicator Article Number	SQB-DC104-4M10 With fitting for microswitch Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @ 1000V _{DC} [A ² s]	Power loss @ 0.8I _n [W]
800	9029025.800	9029026.800	9029125.800	9029126.800		150 000	710 000	100
900	9029025.900	9029026.900	9029125.900	9029126.900		200 000	960 000	110
1000	9029025.1000	9029026.1000	9029125.1000	9029126.1000		257 000	1 210 000	116
1100	9029025.1100	9029026.1100	9029125.1100	9029126.1100		346 000	1 630 000	120
1250	9029025.1250	9029026.1250	9029125.1250	9029126.1250		498 000	2 345 000	122
1400	9029025.1400	9029026.1400	9029125.1400	9029126.1400		678 000	3 200 000	140
1600	9029025.1600	9029026.1600	9029125.1600	9029126.1600		1 000 000	4 710 000	153
Weight [kg/l]						L/R ≈ 6ms		
	2.93	2.93	2.93	2.93				

Coefficients for Heavy Duty Applications

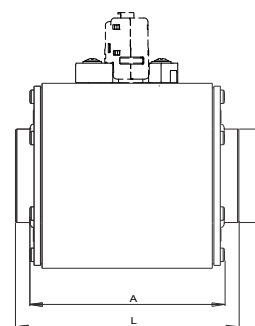
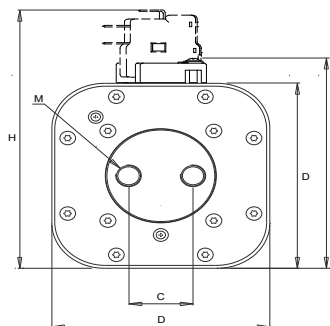
a	A2	B1 _{max}	B2	Cf3
130	0.6	1.25	0.6	0.8

For Time Current Curves
Contact SIBA LLC

Dimensions

[in / mm]

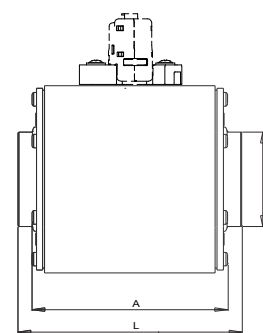
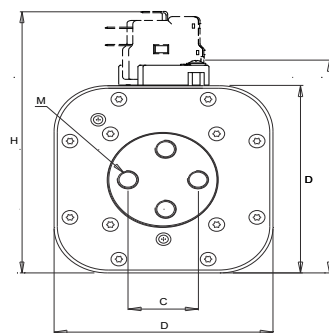
9029025		9029026
3.74 / 95	A	3.74 / 95
2.05 / 52	B	2.05 / 52
1.18 / 30	C	1.18 / 30
4.06 / 103	D	4.06 / 103
—	G	4.65 / 118
—	H	5.55 / 141
4.19 / 106.5	L	4.19 / 106.5
M12	M	M12
Thread depth - 0.39 / 10		
Torque max. - 52N•m / 38.3lb•ft		



Dimensions

[in / mm]

9029125		9029126
3.74 / 95	A	3.74 / 95
2.05 / 52	B	2.05 / 52
1.30 / 33	C	1.30 / 33
4.06 / 103	D	4.06 / 103
—	G	4.65 / 118
—	H	5.55 / 141
4.19 / 106.5	L	4.19 / 106.5
M10	M	M10
Thread depth - 0.39 / 10		
Torque max. - 39N•m / 28.7lb•ft		



Accessories

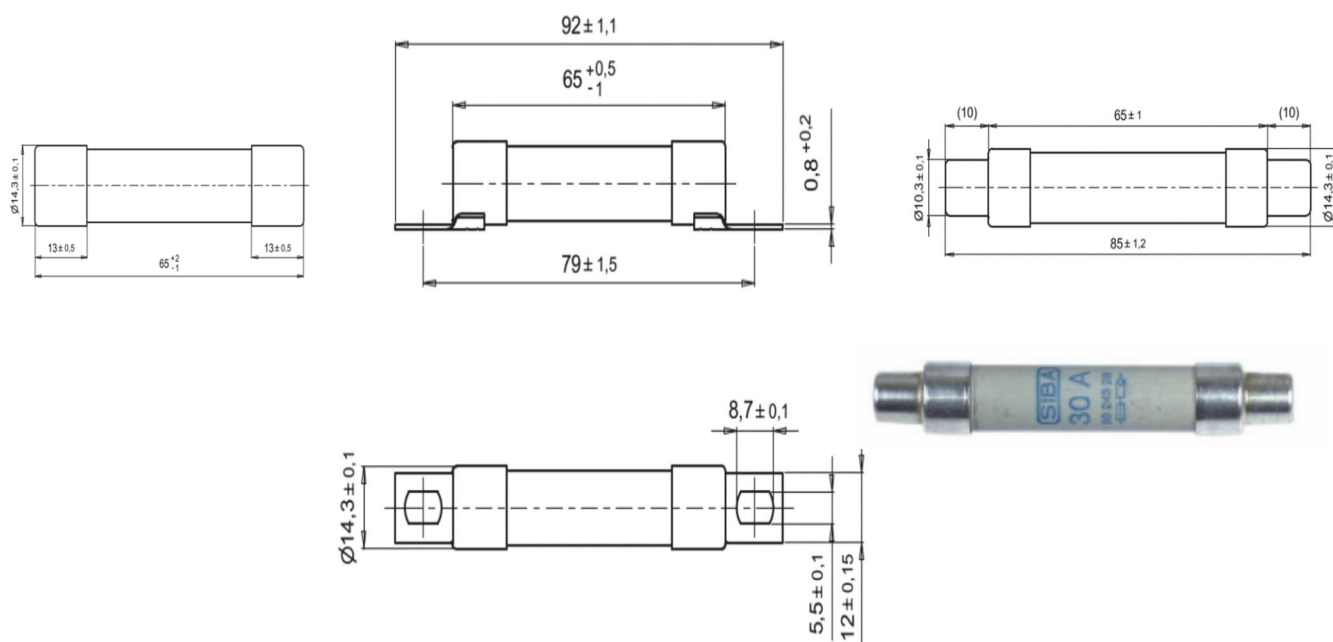
Article Description	Article Number	Page	Article Description	Article Number	Page
			Microswitch (M), preferred		
			Standard level, UL E309038	2800114	81
			Low level, UL E309038	2801114	

URDC-ESS		Rated Voltage	Rated Breaking Test		Class	Standard(s)	
		[U _n]	Capacity	Voltage	gR	UL 248-13	
UL File E180276		1200V _{DC} - UL	100kA @ L/R ≈ 7ms	1200V _{DC}	gRL(gS)	IEC 60269-4	
14x65mm, 10/14x85mm							
Rated current I _n [A]	14x65mm Without indicator Article Number	14x65mm Without indicator 80mm center Article Number	10/14x85mm Without indicator Article Number		Pre-arcing I ² _t [A ² s]	Total I ² _t @ 1000V _{DC} [A ² s]	Power loss @ I _n [W]
10	5024034.10	5024234.10	5024334.10		10	60	2
12	5024034.12	5024234.12	5024334.12		30	180	2.5
16	5024034.16	5024234.16	5024334.16		55	330	3.5
20	5024034.20	5024234.20	5024334.20		90	540	4
25	5024034.25	5024234.25	5024334.25		150	900	5
	Weight [kg/1]					*L/R ≈ 7ms	

Coefficients for Heavy Duty Applications

a	A2	B1 _{max}	B2	Cf3
130	0.9	1.25	0.5	0.8

For Time Current Curves
Contact SIBA LLC



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse clips PCB mounting	5806316	92	5024034 & 5024334		
Fuse clips PCB mounting	5806319		Fuse module, 1-pole	5123805	91
Fuse clips screw mounting	5806317				

URDC-ESS



UL File E180276

NH1XL

Rated Voltage

[U_n]1100V_{DC}

Rated Breaking Test

Capacity

100kA @ L/R = 10ms

Voltage

1200V_{DC}

Class

gR - UL

gRL - IEC

Standard(s)

UL 248-13

IEC 60269-4

VDE 0636-4

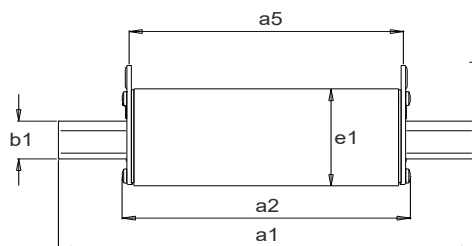
Rated current I _n [A]	NH1XL With flap indicator Article Number	NH1XL-SM160 Without indicator Article Number	NH1XL-SM160 With ifitting for microswitch Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @ 1200V _{DC} [A ² s]	Power loss @ I _n [W]
50	2002834.50	2002933.50	2002934.50		360	1 900	14
63	2002834.63	2002933.63	2002934.63		900	7 300	15
75	2002834.75	2002933.75	2002934.75		1 400	4 700	17
80	2002834.80	2002933.80	2002934.80		1 700	8 900	18
100	2002834.100	2002933.100	2002934.100		3 600	19 000	19
125	2002834.125	2002933.125	2002934.125		6 700	35 000	21
150	2002834.160	2002933.160	2002934.160		11 200	59 000	25
160	2002834.160	2002933.160	2002934.160		11 200	59 000	30
175	2002834.175	2002933.175	2002934.175		14 900	98 000	32
200	2002834.200	2002933.200	2002934.200		19 200	126 000	38
Weight [kg/1]					* L/R = 10ms		
0.77							
0.77							
0.78							

Coefficients for Heavy Duty Applications

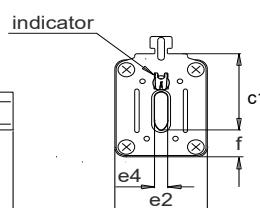
a	A2	B1 _{max}	B2	Cf3
130	0.9	1.25	0.5	0.8

For Time Current Curves
Contact SIBA LLC

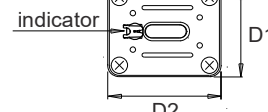
	Dimensions [in / mm]
a1	7.44 / 189
a2	5.20 / 132
a5	4.88 / 124
b1	0.79 / 20
e1	2.05 / 52
e2	1.67 / 42.5
e4	0.24 / 6
c1	1.57 / 40
f	0.55 / 14



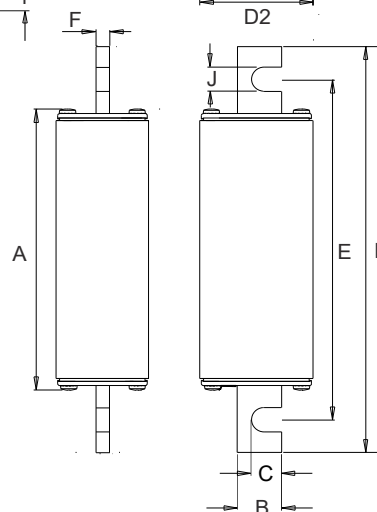
2002834



2002933 / 2002934



	Dimensions [in / mm]
A	5.20 / 132
B	0.79 / 20
C	0.43 / 11
D1	1.65 / 42
D2	2.02 / 51.3
E	6.30 / 160
F	0.24 / 6
J	0.35 / 9
L	7.44 / 189



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
2002834			2002834		
Fuse base, 1-pole, NH1XL, UL E186870	2102801	86	Fuse handel insertion / removal tool		
Contact covers	2100301.26		Standard	2203101	94
Microswitch (GL red hammer)			w/ Leather sleeve	2203102	
Standard level, UL E309038	2800202	80			
Low level, UL E309038	2800204				



FUSES

URDC-ESS UL File E180276 NH3L & SQB-DC123	Rated Voltage [U _n] 1200V _{DC} - UL 1100V _{DC} - IEC	Rated Breaking Test Capacity 100kA @ L/R = 7ms	Class gR gRL(gS)	Standard(s) UL 248-13 IEC 60269-4 VDE 0636-4
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Rated current I _n [A]	NH3L Without indicator Article Number	NH3L With flap indicator Article Number	SQB-DC123-DIN Without indicator Article Number	SQB-DC123-DIN With flap indicator Article Number	UL	IEC	Pre-arcing i ² t [A ² s]	Total i ² t* @ 900V _{DC} [A ² s]	Power loss @ I _n [W]
200	2024333.200	2024334.200	2024533.200	2024534.200	gR	gRL	—	—	—
225	2024333.225	2024334.225	2024533.225	2024534.225	gR	gRL	30 000	126 000	36
250	2024333.250	2024334.250	2024533.250	2024534.250	gR	gRL	45 000	190 000	38
315	2024333.315	2024334.315	2024533.315	2024534.315	gR	gRL	70 000	300 000	48
350	2024333.350	2024334.350	2024533.350	2024534.350	gR	gRL	95 000	400 000	53
400	2024333.400	2024334.400	2024533.400	2024534.400	gR	gRL	135 000	570 000	55
450	2024333.450	2024334.450	2024533.450	2024534.450	gR	gRL	190 000	800 000	60
500	2024333.500	2024334.500	2024533.500	2024534.500	gR	gR	230 000	960 000	75

Weight [kg/1]

L/R = 7ms

Rated current I _n [A]	SQB-DC123-US Without indicator Article Number	SQB-DC123-US with fitting for microswitch Article Number	SQB-DC123-M12 Without indicator Article Number	SQB-DC123-M12 with fitting for microswitch Article Number	UL	IEC	Pre-arcing i ² t [A ² s]	Total i ² t* @ 900V _{DC} [A ² s]	Power loss [W]
200	2024733.200	2024735.200	2024833.200	2024835.200	gR	gRL	—	—	—
225	2024733.225	2024735.225	2024833.225	2024835.225	gR	gRL	30 000	126 000	36
250	2024733.250	2024735.250	2024833.250	2024835.250	gR	gRL	45 000	190 000	38
315	2024733.315	2024735.315	2024833.315	2024835.315	gR	gRL	70 000	300 000	48
350	2024733.350	2024735.350	2024833.350	2024835.350	gR	gRL	95 000	400 000	53
400	2024733.400	2024735.400	2024833.400	2024835.400	gR	gRL	135 000	570 000	55
450	2024733.450	2024735.450	2024833.450	2024835.450	gR	gRL	190 000	800 000	60
500	2024733.500	2024735.500	2024833.500	2024835.500	gR	gR	230 000	960 000	75

Weight [kg/1]

L/R = 7ms

Coefficients for Heavy Duty Applications

a	A2	B1 _{max}	B2	Cf3
130	0.9	1.25	0.5	0.8

For Time Current Curves
Contact SIBA LLC

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
2024333 & 2024334			2023736 & 2024835		
Fuse base, 1-pole, NH3L, UL - E186907	2103101	86	Microswitch (M), preferred		
2044334			Standard level, UL E309038	2800114	81
Microswitch (GL red hammer)			Low level, UL E309038	2801114	
Standard level, UL E309038	2800202	80			
Low level, UL E309038	2800204				
Fuse handel insertion / removal tool					
Standard	2203101	94			
w/ Leather sleeve	2203102				

URDC-ESS



UL File E180276

NH3L & SQB-DC123

Rated Voltage

[U_n]1200V_{DC} - UL1100V_{DC} - IEC

Rated Breaking Test

Capacity

100kA @ L/R = 7ms

Class

Voltage

1200V_{DC}

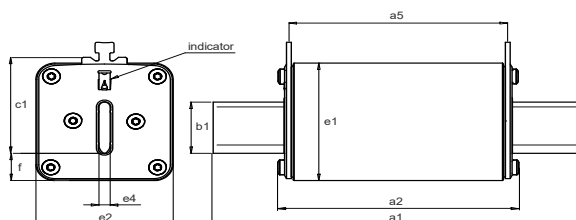
Standard(s)

UL 248-13

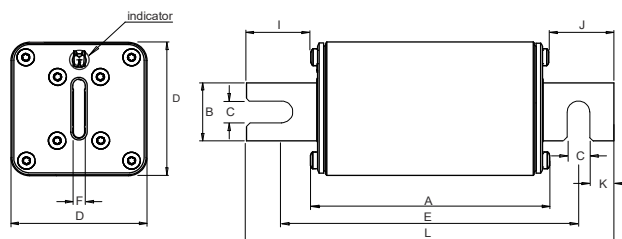
IEC 60269-4

VDE 0636-4

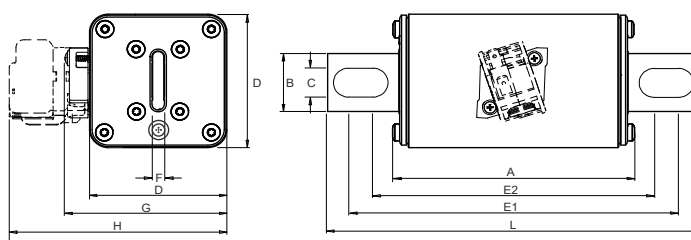
Dimensions [in / mm]	
2024333/4	
a1	8.19 / 208
a2	5.28 / 134
a5	4.92 / 125
b1	1.26 / 32
e1	2.87 / 73
e2	2.87 / 73
e4	0.24 / 6
c1	2.36 / 60
f	0.63 / 16



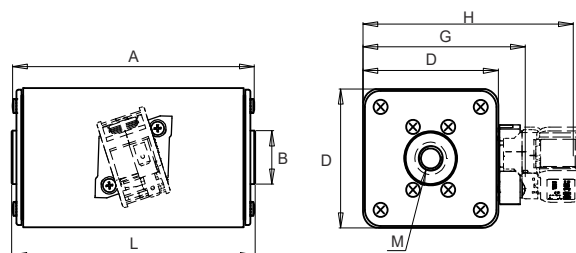
Dimensions [in / mm]	
2024533/4	
A	5.14 / 130.5
B	1.39 / 35
C	0.43 / 11
D	2.87 / 73
E	6.57 / 167
F	0.24 / 6
I	1.24 / 31.5
J	1.44 / 36.5
K	0.35 / 9
L	7.80 / 198



Dimensions [in / mm]			
2024733		2024735	
5.14 / 130.5	A	5.14 / 130.5	
1.38 / 35	B	1.38 / 35	
0.63 / 16	C	0.63 / 16	
2.87 / 73	D	2.87 / 73	
7.48 / 190	E1	7.48 / 190	
6.14 / 156	E2	6.14 / 156	
0.24 / 6	F	0.24 / 6	
-	G	3.46 / 88	
-	H	4.80 / 122	
8.46 / 215	L	8.46 / 215	



Dimensions [in / mm]			
2024833		2024835	
5.14 / 130.5	A	5.14 / 130.5	
1.10 / 28	B	1.10 / 28	
2.87 / 73	D	2.87 / 73	
-	G	3.46 / 88	
-	H	4.80 / 122	
5.51 / 140	L	5.51 / 140	
M12	M	M12	
Thread depth - 0.39 / 10			
Torque max. - 48N•m / 35.4lb•ft			



URDC-ESS		Rated Voltage		Rated Breaking Test		Class	Standard(s)	
		[U _n]		Capacity		Voltage	aR	UL 248-13
UL File E180276		1200V _{DC}		170kA @ L/R = 10ms		1200V _{DC}		
SQB-DC124		SQB-DC124						
Rated current I _n [A]	SQB-DC124-2M12 Without indicator Article Number	SQB-DC124-2M12 With fitting for microswitch Article Number	SQB-DC124-4M10 Without indicator Article Number	SQB-DC124-4M10 With fitting for microswitch Article Number		Pre-arcing I ² _t [A ² s]	Total I ² _t * @ 1200V _{DC} [A ² s]	Power loss @ 0.8I _n [W]
800	9039025.800 ¹	9039026.800 ¹	9039125.800 ¹	9039126.800 ¹		210 000	1 400 000	140
900	9039025.900 ¹	9039026.900 ¹	9039125.900 ¹	9039126.900 ¹		270 000	1 800 000	145
1000	9039025.1000	9039026.1000	9039125.1000	9039126.1000		388 000	2 500 000	150
1100	9039025.1100	9039026.1100	9039125.1100	9039126.1100		468 000	3 100 000	155
1250	9039025.1250	9039026.1250	9039125.1250	9039126.1250		664 000	4 320 000	160
1400	9039025.1400	9039026.1400	9039125.1400	9039126.1400		955 000	6 210 000	175
1500	9039025.1500	9039026.1500	9039125.1500	9039126.1500		1 120 000	7 300 000	190
1600	9039025.1600	9039026.1600	9039125.1600	9039126.1600		1 300 000	8 450 000	215
1800	9039025.1800	9039026.1800	9039125.1800	9039126.1800		1 920 000	12 500 000	220
2000	9039025.2000	9039026.2000	9039125.2000	9039126.2000		2 450 000	15 900 000	230
	Weight [kg/1]				¹ Not UL recognized	*L/R = 10ms		
	3.94	3.94	3.94	3.94				

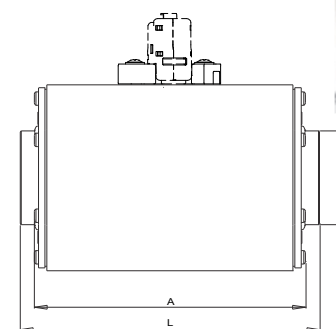
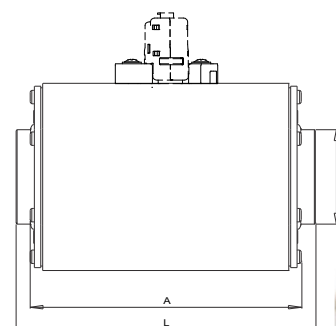
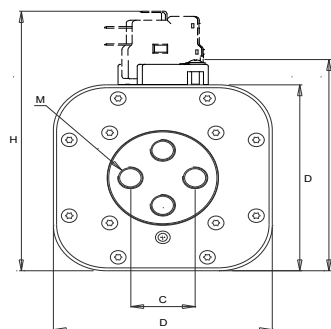
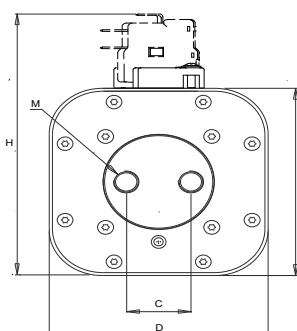
Coefficients for Heavy Duty Applications

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

For Time Current Curves
Contact SIBA LLC

Dimensions [in / mm]		
9039025		9039026
5.16 / 131	A	5.16 / 131
2.05 / 52	B	2.05 / 52
1.18 / 30	C	1.18 / 30
4.06 / 103	D	4.06 / 103
—	G	4.65 / 118
—	H	5.55 / 141
5.67 / 144	L	5.67 / 144
M12	M	M12
Thread depth - 0.39 / 10		
Torque max. - 52N•m / 38.3lb•ft		

Dimensions [in / mm]		
9039125		9039126
5.16 / 131	A	5.16 / 131
2.05 / 52	B	2.05 / 52
1.30 / 33	C	1.30 / 33
4.06 / 103	D	4.06 / 103
—	G	4.65 / 118
—	H	5.55 / 141
5.67 / 144	L	5.67 / 144
M10	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
			9039026 & 9039126		
			Microswitch (M), preferred		
			Standard level, UL E309038	2800114	81
			Low level, UL E309038	2801114	

URDC-ESS



UL File E180276

27.5x88mm

Rated Voltage

[U_n]1500V_{DC}

Rated Breaking Test

Capacity

100kA @ L/R ≈ 6ms

Voltage

1500V_{DC}

Class

aR

Standard(s)

UL 248-13

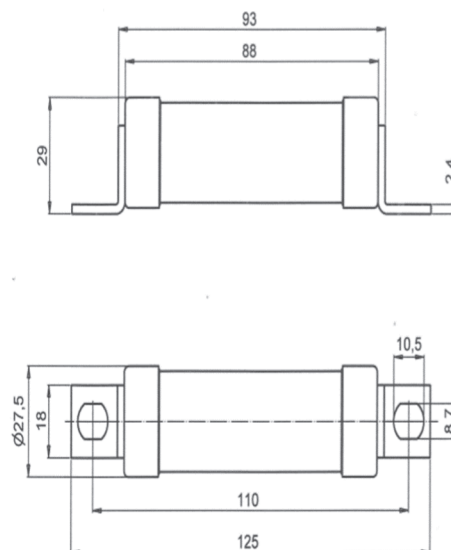
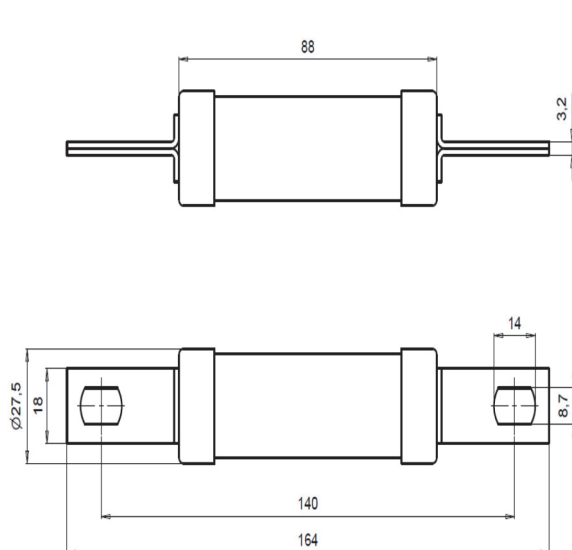
IEC 60269-4

Rated current I _n [A]	SM 140 Without indicator Article Number	SM 110 Without indicator Article Number				Pre-arcing I ² t [A ² s]	Total I ² t* @ 1500V _{DC} [A ² s]	Power loss @ I _n [W]
70	5027106.70	5027206.70				1 300	12 800	16
80	5027106.80	5027206.80				1 500	14 500	22
100	5027106.100	5027206.100				1 900	18 500	33
125	5027106.125	5027206.125				2 950	28 900	46
Weight [kg/1]							*L/R ≈ 6ms	

Coefficients for Heavy Duty Applications

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

For Time Current Curves
Contact SIBA LLC

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page

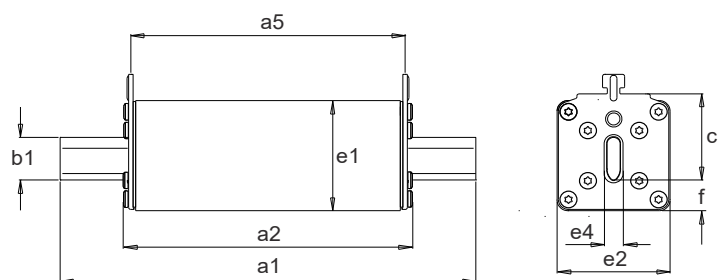
URDC-ESS	Rated Voltage	Rated Breaking Test	Class	Standard(s)
	[U _n] 1500V _{DC}	Capacity 100kA @ L/R ≈ 10ms	aR	UL 248-13
UL File E180276				
NH1XL and SQB-DC151				

Rated current I _n [A]	NH1XL Without indicator Article Number	NH1XL With flap indicator Article Number	SQB-DC151- US Without indicator Article Number	SQB-DC151- US With flap indicator Article Number		Pre-arcing i ² _t [A ² s]	Total i ² _t * @ 1500V _{DC} [A ² s]	Power loss @ I _n [W]
63	9044125.63	9044126.63	9044525.63	9044526.63		600	3 800	20
80	9044125.80	9044126.80	9044525.80	9044526.80		1 250	7 900	25
100	9044125.100	9044126.100	9044525.100	9044526.100		1 900	12 000	32
125	9044125.125	9044126.125	9044525.125	9044526.125		3 600	23 000	37
160	9044125.160	9044126.160	9044525.160	9044526.160		6 600	42 000	43
200	9044125.200	9044126.200	9044525.200	9044526.200		14 300	90 000	45
Weight [kg/1]						*L/R ≈ 10ms		

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

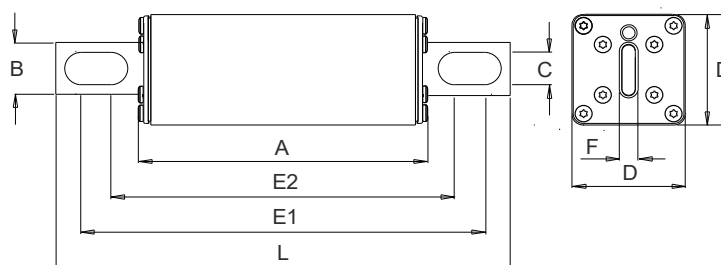
For Time Current Curves
Contact SIBA LLC

	Dimensions [in / mm]
a1	7.44 / 189
a2	5.08 / 129
a5	4.88 / 124
b1	0.79 / 20
e1	2.01 / 51
e2	2.01 / 51
e4	0.24 / 6
c1	1.57 / 40
f	0.57 / 14.5



9044125

	Dimensions [in / mm]
A	5.08 / 129
B	1.02 / 26
C	0.55 / 14
D	2.01 / 51
E1	7.48 / 190
E2	6.06 / 154
F	0.24 / 6
L	8.46 / 215



9044525

Accessories

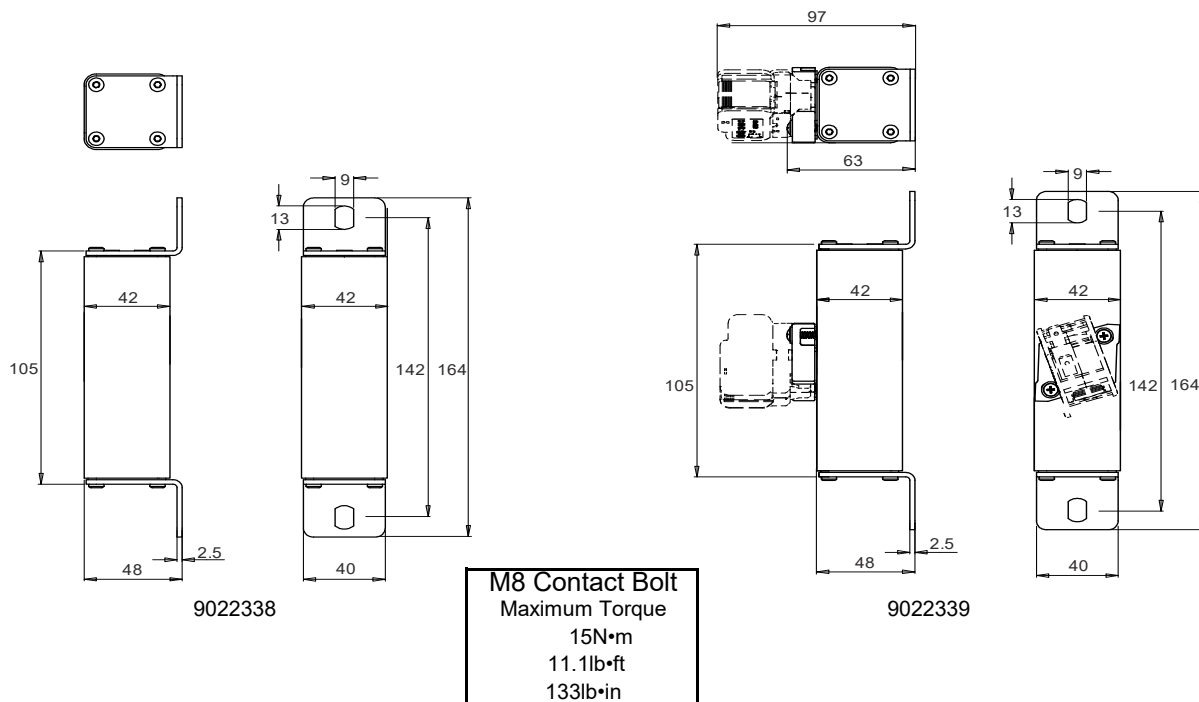
Article Description	Article Number	Page	Article Description	Article Number	Page
9044125)					
Fuse base, 1-pole NH1XL, UL E186970	2102801	86			
Contact covers	2100301.26				
Fuse handel insertion / removal tool					
Standard	2203101	94			
w/ Leather sleeve	2203102				

URDC-ESS	Rated Voltage	Rated Breaking Test Capacity	Class	Standard(s)
	1500V _{DC}	100kA @ L/R ≈ 2.1ms	aR	UL 248-13
UL File E180276	1000V _{DC}	200kA @ L/R < 3ms		IEC 60269-4
SQB-DC0				

Rated current I_n [A]	Without indicator Article Number	With microswitch adapter Article Number	Pre-arcing I^2t [A ² s]	Total I^2t^* @1500V _{DC} [A ² s]	Power loss @ I_n [W]
100	9022338.100	9022339.100	1 000	7 600	50
125	9022338.125	9022339.125	1 650	12 500	58
160	9022338.160	9022339.160	2 500	19 000	70
180	9022338.180	9022339.180	4 000	30 500	73
200	9022338.200	9022339.200	6 600	50 500	66
Weight [kg / 1]			*L/R = 2ms		

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

For Time Current Curves
Contact SIBA LLC



Accessories

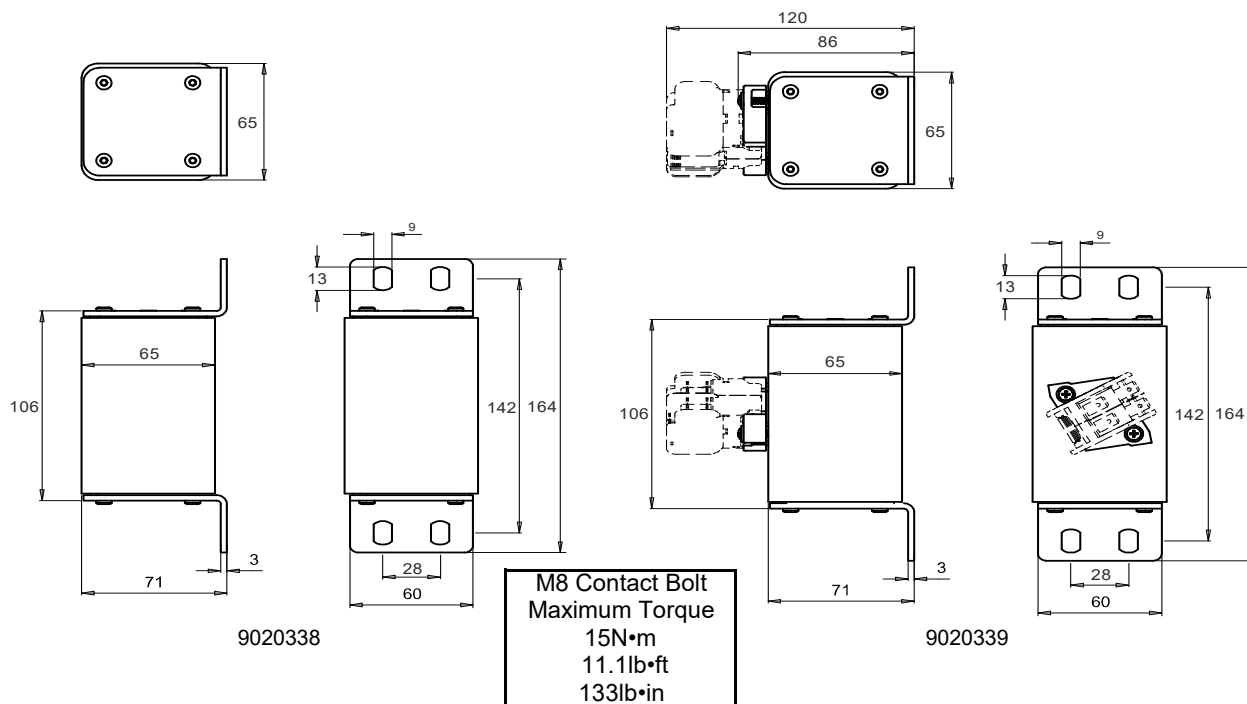
Article Description	Article Number	Page	Article Description	Article Number	Page
9022326			Alternative		
Microswitch (M), preferred -			Microswitch (B), No UL		
Standard level, UL E309038	2800114	81	Standard level	2800311	82
Low level, UL E309038	2801114		Low level	2800411	

URDC-ESS	Rated Voltage	Rated Breaking Test	Class	Standard(s)
	1500V _{DC}	Capacity 100kA @ L/R ≈ 6ms	aR	UL 248-13
UL File E180276		Voltage 1500V _{DC}		
SQB-DC2				

Rated current I_n [A]	Without indicator Article Number	With microswitch adaptor Article Number		Pre-arcing I^2t [A ² s]	Total I^2t^* @1500V _{DC} [A ² s]	Power loss @ I_n [W]
125	9020338.125	9020339.125		1 150	7 950	68
160	9020338.160	9020339.160		2 050	14 100	78
200	9020338.200	9020339.200		4 000	27 500	86
250	9020338.250	9020339.250		8 200	56 500	99
300	9020338.300	9020339.300		11 800	81 200	118
315	9020338.315	9020339.315		15 000	103 200	122
350	9020338.350	9020339.350		18 500	127 500	135
400	9020338.400	9020339.400		26 600	183 000	152
Weight [kg / 1]				*L/R = 6ms		

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

For Time Current Curves
Contact SIBA LLC



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
9020339			Alternative		
Microswitch (M), preferred			Microswitch (B), No UL		
Standard level, UL E309038	2800114	81	Standard level	2800311	82
Low level, UL E309038	2801114		Low level	2800411	

URDC-ESS

Rated Voltage

Rated Breaking Test

Class

Standard(s)

1500V_{DC}Capacity
170kA(200kA peak)Voltage
1500V_{DC}

aR

UL 248-13

UL File E180276

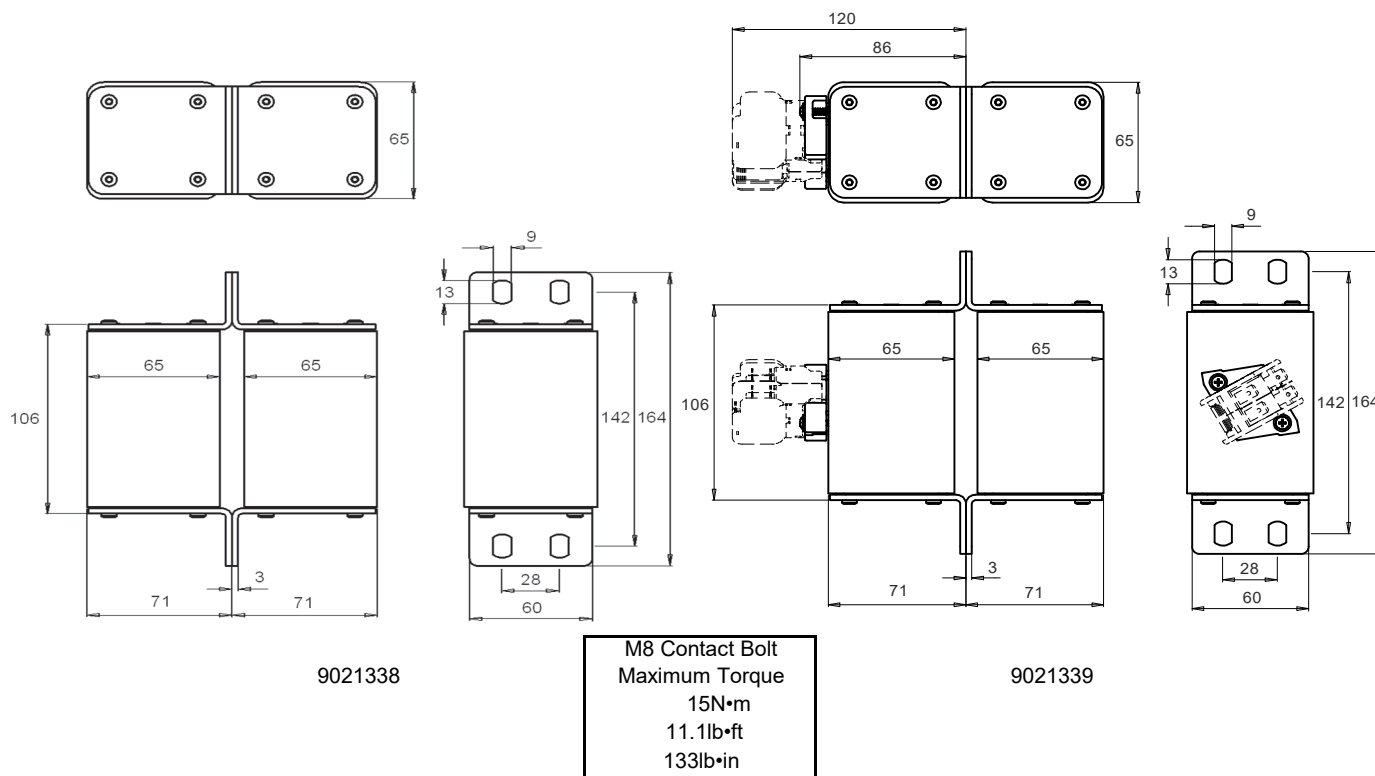
@ L/R ≈ 3ms

SQB-DC2-2

Rated current I_n [A]	Without indicator Article Number	With microswitch adaptor Article Number		Pre-arcing I^2t [A ² s]	Total I^2t^* @1500V _{DC} [A ² s]	Power loss @ I_n [W]
250	9021338.250	9021339.250		4 600	36 500	143
320	9021338.320	9021339.320		8 200	65 000	165
400	9021338.400	9021339.400		16 000	128 000	180
500	9021338.500	9021339.500		32 800	260 000	205
600	9021338.600	9021339.600		47 200	375 000	245
630	9021338.630	9021339.630		60 000	480 800	260
700	9021338.700	9021339.700		74 000	590 000	285
800	9021338.800	9021339.800		106 400	845 000	320
Weight [kg / 1]					*L/R ≈ 3ms	

Coefficients for Heavy Duty Applications

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

For Time Current Curves
Contact SIBA LLC

9021338

9021339

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

Article Description	Article Number	Page	Article Description	Article Number	Page
9020339			Alternative		
Microswitch (M), preferred			Microswitch (B), No UL		
Standard level, UL E309038	2800114	81	Standard level	2800311	82
Low level, UL E309038	2801114		Low level	2800411	

URDC-ESS	Rated Voltage	Rated Breaking Test	Class	Standard(s)
	Capacity	Voltage	gR	UL 248-13
UL File E180276	1500V _{DC}	170kA @ L/R ≈ 3ms	1500V _{DC}	
NH3L and SQB-DC153	For higher breaking capacity contact SIBA LLC			

Rated current I _n [A]	NH3L Without indicator Article Number	NH3L With microswitch adapter Article Number	SQB3_DC153 DIN Without indicator Article Number	SQB3_DC153 DIN With microswitch adapter Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @1500V _{DC} [A ² s]	Power loss @ I _n [W]
100	2024336.100	2024337.100	2024536.100	2024537.100		3 000	30 000	20
125	2024336.125	2024337.125	2024536.125	2024537.125		5 800	47 000	24
160	2024336.160	2024337.160	2024536.160	2024537.160		9 500	80 000	33
200	2024336.200	2024337.200	2024536.200	2024537.200		18 000	126 000	38
250	2024336.250	2024337.250	2024536.250	2024537.250		31 500	220 000	45
315	2024336.315	2024337.315	2024536.315	2024537.315		56 000	392 000	55
350	2024336.350	2024337.350	2024536.350	2024537.350		77 000	540 000	60
400	2024336.400	2024337.400	2024536.400	2024537.400		106 000	745 000	66
450	2024336.450	2024337.450	2024536.450	2024537.450		153 000	1 075 000	74
500	2024336.500	2024337.500	2024536.500	2024537.500		189 000	1 325 000	82
Weight [kg / 1]						*L/R ≈ 3ms		
2.12		2.12						

Rated current I _n [A]	SQB3_DC153 US Without indicator Article Number	SQB3_DC153 US With flap indicator Article Number	SQB3_DC153 M12 Without indicator Article Number	SQB3_DC153 M12 With flap indicator Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @1500V _{DC} [A ² s]	Power loss @ I _n [W]
100	2024736.100	2024737.100	2024836.100	2024837.100		3 000	30 000	20
125	2024736.125	2024737.125	2024836.125	2024837.125		5 800	47 000	24
160	2024736.160	2024737.160	2024836.160	2024837.160		9 500	80 000	33
200	2024736.200	2024737.200	2024836.200	2024837.200		18 000	126 000	38
250	2024736.250	2024737.250	2024836.250	2024837.250		31 500	220 000	45
315	2024736.315	2024737.315	2024836.315	2024837.315		56 000	392 000	55
350	2024736.350	2024737.350	2024836.350	2024837.350		77 000	540 000	60
400	2024736.400	2024737.400	2024836.400	2024837.400		106 000	745 000	66
450	2024736.450	2024737.450	2024836.450	2024837.450		153 000	1 075 000	74
500	2024736.500	2024737.500	2024836.500	2024837.500		189 000	1 325 000	82
Weight [kg / 1]						*L/R ≈ 3ms		

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

For Time Current Curves
Contact SIBA LLC

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
2024332 & 2024337			2024337, 2024537, 2024737 & 2024837		
Fuse base, 1-pole, NH3L, UL - E186907	2103101	86	Microswitch (M), preferred		
			Standard level, UL E309038	2800114	81
Fuse handel insertion / removal tool			Low level, UL E309038	2801114	
Standard	2203101	94			
w/ Leather sleeve	2203102				

URDC-ESS

Rated Voltage

Rated Breaking Test

Class

Standard(s)

1500V_{DC}Capacity
170kA @ L/R ≈ 3msVoltage
1500V_{DC}

gR

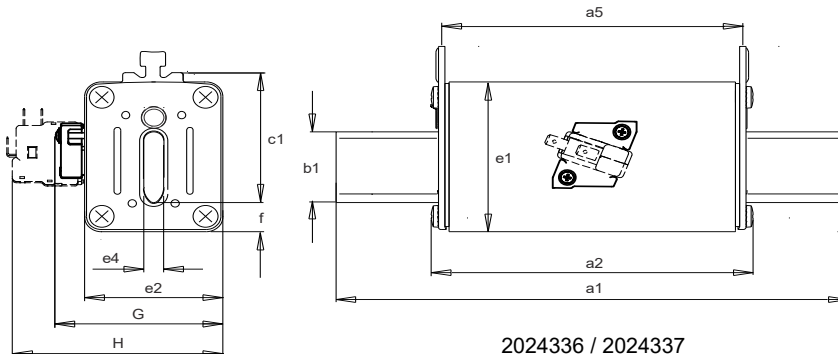
UL 248-13

UL File E180276

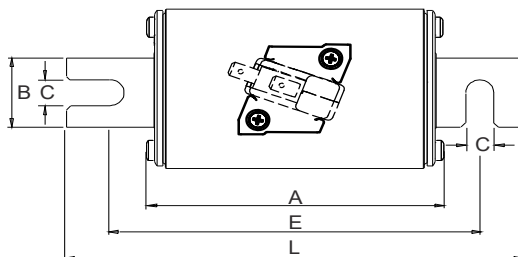
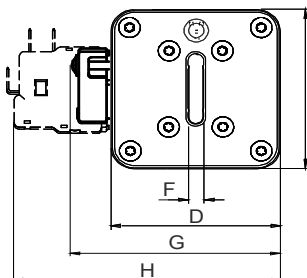
NH3L and SQB-DC153

For higher breaking capacity contact SIBA LLC

Dimensions [in / mm]		
2024336		2024337
8.19 / 208	a1	8.19 / 208
5.32 / 135	a2	5.32 / 135
4.92 / 125	a5	4.92 / 125
1.26 / 32	b1	1.26 / 32
2.87 / 73	e1	2.87 / 73
2.87 / 73	e2	2.87 / 73
0.24 / 6	e4	0.24 / 6
2.36 / 60	c1	2.36 / 60
0.71 / 18	f	0.71 / 18
–	G	3.46 / 88
–	H	4.37 / 111



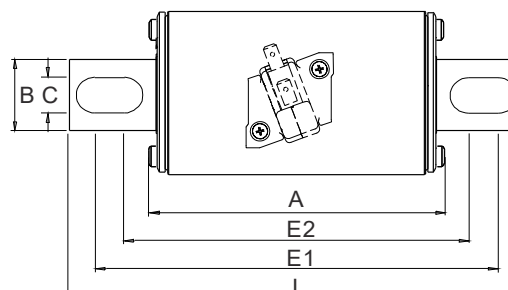
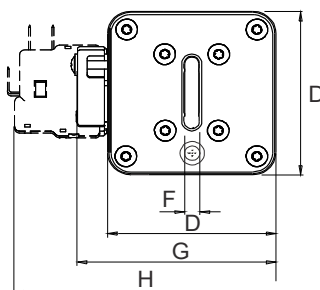
2024336 / 2024337



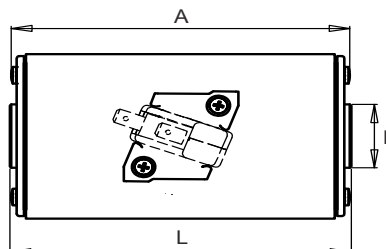
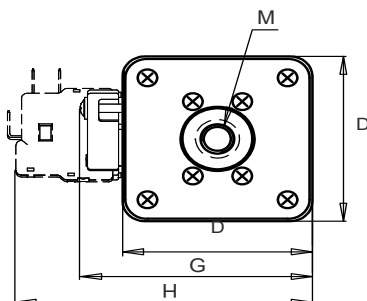
2024536 / 2024537

Dimensions [in / mm]		
2024536		2024537
5.20 / 132	A	5.20 / 132
1.38 / 35	B	1.38 / 35
0.43 / 11	C	0.43 / 11
2.87 / 73	D	2.87 / 73
6.54 / 167	E	6.54 / 167
0.24 / 6	F	0.24 / 6
–	G	3.46 / 88
–	H	4.37 / 111
7.80 / 198	L	7.80 / 198

Dimensions [in / mm]		
2024736		2024737
5.20 / 132	A	5.20 / 132
1.38 / 35	B	1.38 / 35
0.63 / 16	C	0.63 / 16
2.87 / 73	D	2.87 / 73
7.48 / 190	E1	7.48 / 190
6.14 / 156	E2	6.14 / 156
0.24 / 6	F	0.24 / 6
–	G	3.46 / 88
–	H	4.37 / 111
8.46 / 215	L	8.46 / 215



2024736 / 2024737



2024836 / 2024837

Dimensions [in / mm]		
2024836		2024837
5.20 / 132	A	5.20 / 132
1.14 / 28	B	1.14 / 28
2.87 / 73	D	2.87 / 73
–	G	3.46 / 88
–	H	4.37 / 111
5.51 / 140	L	5.51 / 140
M12	M	M12
Thread depth - 0.39 / 10		
Torque max. - 48N•m / 35.4lb•ft		



FUSES

URDC-ESS  UL File E180276	Rated Voltage 1500V _{DC}	Rated Breaking Test Capacity 100kA @ L/R ≈ 5ms	Class aR	Standard(s) UL 248-13
NH3L and SQB-DC153 For higher breaking capacity contact SIBA LLC				

current I _n [A]	NH3L Without indicator Article Number	NH3L With flap indicator Article Number	SQB-DC153-US Without indicator Article Number	SQB-DC153-US With microswitch adapter Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @1500V _{DC} [A ² s]	Power loss @ I _n [W]
200	9044325.200	9044326.200	9044725.200	9044727.200		11 200	58 000	54
250	9044325.250	9044326.250	9044725.250	9044727.250		19 200	99 000	62
315	9044325.315	9044326.315	9044725.315	9044727.315		32 000	165 000	71
350	9044325.350	9044326.350	9044725.350	9044727.350		57 000	294 000	75
400	9044325.400	9044326.400	9044725.400	9044727.400		77 000	397 000	81
450	9044325.450	9044326.450	9044725.450	9044727.450		106 000	545 000	87
500	9044325.500	9044326.500	9044725.500	9044727.500		153 000	790 000	96
550	9044325.550	9044326.550	9044725.550	9044727.550		189 000	975 000	105
630	9044325.630	9044326.630	9044725.630	9044727.630		272 000	1 400 000	120
700	9044325.700	9044326.700	9044725.700	9044727.700		290 000	1 900 000	145
750	9044325.750	9044326.750	9044725.750	9044727.750		356 000	2 300 000	155
							*L/R = 5ms	

Rated current I _n [A]	SQB-DC153-DIN Without indicator Article Number	SQB-DC153-DIN With flap indicator Article Number	SQB-DC153-M12 Without indicator Article Number	SQB-DC153-M12 With microswitch adapter Article Number		Pre-arcing I ² t [A ² s]	Total I ² t* @1500V _{DC} [A ² s]	Power loss @ I _n [W]
200	9044825.200	9044826.200	9044925.200	9044927.200		11 200	58 000	54
250	9044825.250	9044826.250	9044925.250	9044927.250		19 200	99 000	62
315	9044825.315	9044826.315	9044925.315	9044927.315		32 000	165 000	71
350	9044825.350	9044826.350	9044925.350	9044927.350		57 000	294 000	75
400	9044825.400	9044826.400	9044925.400	9044927.400		77 000	397 000	81
450	9044825.450	9044826.450	9044925.450	9044927.450		106 000	545 000	87
500	9044825.500	9044826.500	9044925.500	9044927.500		153 000	790 000	96
550	9044825.550	9044826.550	9044925.550	9044927.550		189 000	975 000	105
630	9044825.630	9044826.630	9044925.630	9044927.630		272 000	1 400 000	120
700	9044825.700	9044826.700	9044925.700	9044927.700		290 000	1 900 000	145
750	9044825.750	9044826.750	9044925.750	9044927.750		356 000	2 300 000	155
Weight [kg / 1]							*L/R = 5ms	
2.09 2.09 2.1 2.1								

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

For Time Current Curves
Contact SIBA LLC

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
9044325 & 9044326			9044727 & 9044927		
Fuse base, 1-pole, NH3L, UL - E186907	2103101	86	Microswitch (M), preferred		
			Standard level, UL E309038	2800114	81
Fuse handel insertion / removal tool			Low level, UL E309038	2801114	
Standard	2203101	94			
w/ Leather sleeve	2203102				

Phone: 1-973-575-7422
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URDC-ESS



UL File E180276

NH3L and SQB-DC153

Rated Voltage

1500V_{DC}

Rated Breaking Test

Capacity

100kA @ L/R ≈ 5ms

Voltage

1500V_{DC}

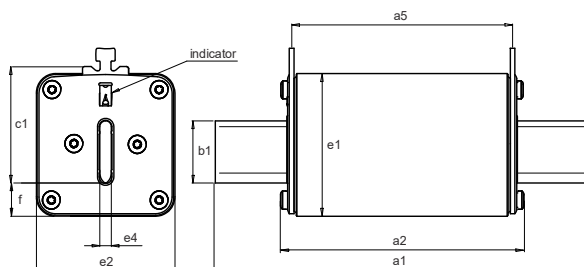
Class

aR

Standard(s)

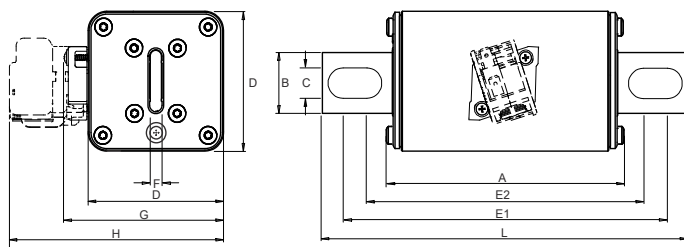
UL 248-13

For higher breaking capacity contact SIBA LLC



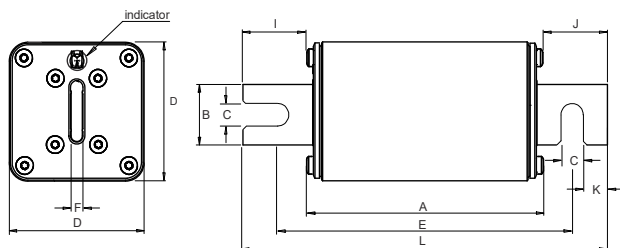
9044325 / 9044326

Dimensions [in / mm]	
a1	8.19 / 208
a2	5.32 / 135
a5	4.92 / 125
b1	1.26 / 32
e1	2.87 / 73
e2	2.87 / 73
e4	0.24 / 6
c1	2.36 / 60
f	0.71 / 18



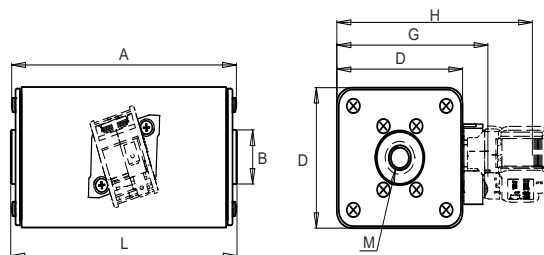
9044725 / 9044727

Dimensions [in / mm]		
9044725		9044727
5.20 / 132	A	5.20 / 132
1.38 / 35	B	1.38 / 35
0.63 / 16	C	0.63 / 16
2.87 / 73	D	2.87 / 73
7.48 / 190	E1	7.48 / 190
6.14 / 156	E2	6.14 / 156
0.24 / 6	F	0.24 / 6
–	G	3.46 / 88
–	H	4.80 / 122
8.46 / 215	L	8.46 / 215



9044825 / 9044826

Dimensions [in / mm]	
A	5.20 / 132
B	1.38 / 35
C	0.43 / 11
D	2.87 / 73
E	6.54 / 167
F	0.24 / 6
I	1.24 / 31.5
J	1.44 / 36.5
K	0.35 / 9
L	7.80 / 198



9044925 / 9044926

Dimensions [in / mm]		
9044925		9044927
5.20 / 132	A	5.20 / 132
1.14 / 28	B	1.14 / 28
2.87 / 73	D	2.87 / 73
–	G	3.46 / 88
–	H	4.80 / 122
5.51 / 140	L	5.51 / 140
M12	M	M12
Thread depth - 0.39 / 10		
Torque max. - 48N•m / 35.4lb•ft		

URDC-ESS	Rated Voltage	Rated Breaking Test	Class	Standard(s)
	1500V _{DC}	Capacity 170kA(200kA _{peak}) @ L/R ≈ 3ms 1500V _{DC}	aR	UL 248-13 IEC 60269-4
UL File E180276 - Pending	For higher breaking capacity contact SIBA LLC			

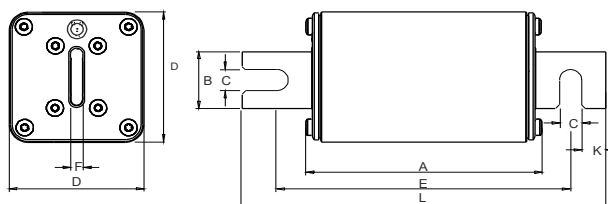
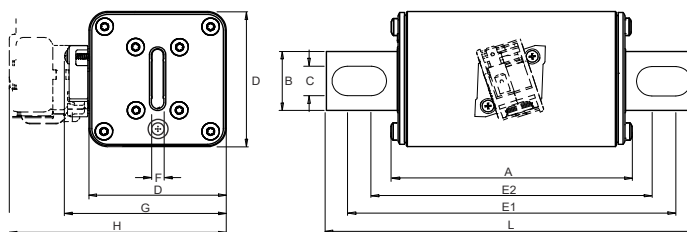
Rated current I _n [A]	SQB-DC153-US Without indicator Article Number	SQB-DC153-US With microswitch adapter Article Number	SQB-DC153-DIN Without indicator Article Number	SQB-DC153-M12 Without indicator Article Number	SQB-DC153-M12 With microswitch adapter Article Number	Pre-arcing I ² t [A ² s]	Total I ² t* @1500V _{DC} [A ² s]	Power loss @ I _n [W]
750	9044738.750	9044739.750	9044838.750	9044938.750	9044939.750	230 000	1 300 000	230
800	9044738.800	9044739.800	9044838.800	9044938.800	9044939.800	270 000	1 550 000	250
900	9044738.900	9044739.900	9044838.900	9044938.900	9044939.900	370 000	2 100 000	270
1 000	9044738.1000	9044739.1000	9044838.1000	9044938.1000	9044939.1000	500 000	2 850 000	300
1 100	9044738.1100	9044739.1100	9044838.1100	9044938.1100	9044939.1100	660 000	3 800 000	320
1 250	9044738.1250	9044739.1250	9044838.1250	9044938.1250	9044939.1250	960 000	5 500 000	340
Weight [kg / 1]							*L/R=3ms	

Coefficients for Heavy Duty Applications

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

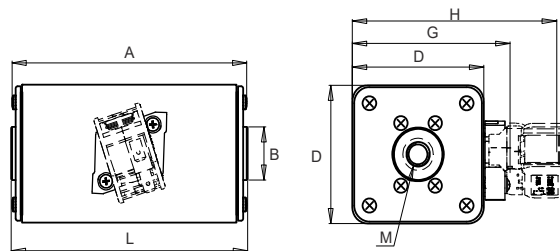
For Time Current Curves
Contact SIBA LLC

Dimensions [in / mm]		
9044738		9044739
5.20 / 132	A	5.20 / 132
1.38 / 35	B	1.38 / 35
0.63 / 16	C	0.63 / 16
2.87 / 73	D	2.87 / 73
7.48 / 190	E1	7.48 / 190
6.14 / 156	E2	6.14 / 156
0.24 / 6	F	0.24 / 6
—	G	3.46 / 88
—	H	4.80 / 122
8.46 / 215	L	8.46 / 215



Dimensions [in / mm]		
9044938		9044939
5.20 / 132	A	5.20 / 132
1.14 / 28	B	1.14 / 28
2.87 / 73	D	2.87 / 73
—	G	3.46 / 88
—	H	4.80 / 122
5.51 / 140	L	5.51 / 140
M12	M	M12
Thread depth - 0.39 / 10		
Torque max. - 48N•m / 35.4lb•ft		

Dimensions [in / mm]	
9044838	
A	5.20 / 132
B	1.38 / 35
C	0.43 / 11
D	2.87 / 73
E	6.54 / 167
F	0.24 / 6
K	0.35 / 9
L	7.80 / 198



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
9044739 & 9044939			Alternative		
Microswitch (M), preferred			Microswitch (B), No UL		
Standard level, UL E309038	2800114	81	Standard level	2800311	82
Low level, UL E309038	2801114		Low level	2800411	

URDC-ESS	Rated Voltage	Rated Breaking Test Capacity	Class	Standard(s)
	1500V _{DC} - UL	100kA @ L/R ≈ 10ms	aR	UL 248-13
UL File E180276	1350V _{DC} - IEC	170kA(200kA _{peak}) @ L/R ≈ 3ms		IEC 60269-4
SQB-DC154	For higher breaking capacity contact SIBA LLC			

Rated current I_n [A]	DC154-2M12 Without indicator Article Number	DC154-2M12 With microswitch adapter Article Number	DC154-4M10 Without indicator Article Number	DC154-4M10 With microswitch adapter Article Number	Rated Voltage UL IEC [V _{DC}] [V _{DC}]	Pre-arcing I^2t [A ² s]	Total I^2t^* @1500V _{DC} [A ² s]	Power loss @ 0.8I _n [W]
630	9039225.630	9039226.630	9039325.630	9039326.630	1 500 1 350	145 000	800 000	90
700	9039225.700	9039226.700	9039325.700	9039326.700	1 500 1 350	210 000	1 200 000	100
750	9039225.750	9039226.750	9039325.750	9039326.750	1 500 1 350	230 000	1 300 000	110
800	9039225.800	9039226.800	9039325.800	9039326.800	1 500 1 350	270 000	1 500 000	115
900	9039225.900	9039226.900	9039325.900	9039326.900	1 500 1 350	350 000	1 950 000	135
1 000	9039225.1000	9039226.1000	9039325.1000	9039326.1000	1 500 1 350	400 000	2 250 000	140
1 100	9039225.1100	9039226.1100	9039325.1100	9039326.1100	1 500 1 350	500 000	2 800 000	155
1 250	9039225.1250	9039226.1250	9039325.1250	9039326.1250	1 500 1 350	720 000	4 000 000	160
1 400	9039225.1400	9039226.1400	9039325.1400	9039326.1400	1 500 1 350	980 000	5 450 000	175
1 500	9039225.1500	9039226.1500	9039325.1500	9039326.1500	1 500 1 350	1 150 000	6 400 000	190
1 600	9039225.1600	9039226.1600	9039325.1600	9039326.1600	1 500 —	1 300 000	7 200 000	210
1 800	9039225.1800	9039226.1800	9039325.1800	9039326.1800	1 500 —	1 600 000	8 900 000	230

Weight [kg / 1]

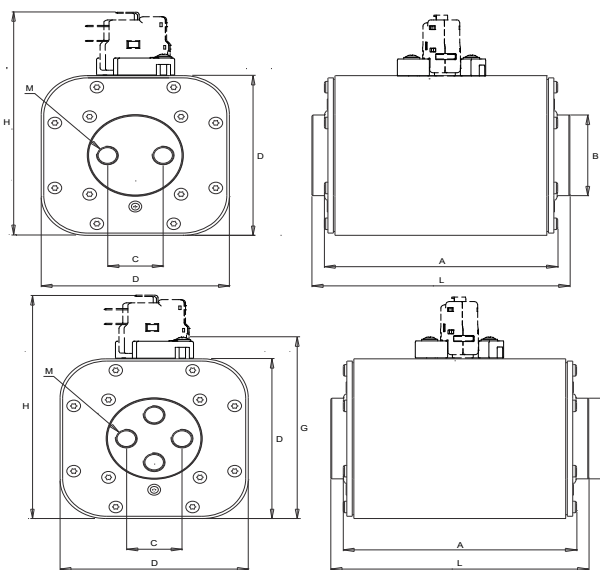
*L/R ≈ 3ms

Dimensions
[in / mm]

9039225		9039226
5.20 / 132	A	5.20 / 132
2.05 / 52	B	2.05 / 52
1.18 / 30	C	1.18 / 30
4.06 / 103	D	4.06 / 103
—	G	4.65 / 118
—	H	5.55 / 141
5.67 / 144	L	5.67 / 144
M12	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

For Time Current Curves
Contact SIBA LLCDimensions
[in / mm]

9039325		9039326
5.20 / 132	A	5.20 / 132
2.05 / 52	B	2.05 / 52
1.30 / 33	C	1.30 / 33
4.06 / 103	D	4.06 / 103
—	G	4.65 / 118
—	H	5.55 / 141
5.67 / 144	L	5.67 / 144
M10	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
9039226 & 9039326			Alternative		
Microswitch (M), preferred			Microswitch (B), No UL		
Standard level, UL E309038	2800104	81	Standard level	2800311	82
Low level, UL E309038	2801104		Low level	2800411	

Fuse Accessories



Feature for Fuse Accessories



Microswitches



Fuse bases



Fuse modules



Fuse clips

Fuses Accessories

Article	Description		Selection Guide	Technical Data
GL Microswitches for NH series fuses				
2800201	Standard level	Single changeover circuit	80	
2800202	Standard level	Single changeover circuit		
2800203	Low level	Single changeover circuit		
2800204	Low level	Single changeover circuit		
M Microswitches for SQB series fuses				
2800114	Standard level	Single changeover circuit	81	
2801114	Low level	Single changeover circuit		
B Microswitches SQB and DC fuses				
2800310	Standard level	Single changeover circuit	82	
2800311	Standard level	Single changeover circuit		
2800312	Standard level	Single changeover circuit		
2800410	Low level	Single changeover circuit		
2800411	Low level	Single changeover circuit		
2800412	Low level	Single changeover circuit		
Fuse Bases 600V _{DC} - UL, NH00 DIN 80mm PV Fuses				
2118928	Standard	Suitable for use w/ GL microswitches	83	
2119028	With Terminal Covers	No microswitch capability		
Fuse Bases for Knife Blade Fuses				
2102828	1-Pole, NH1XL, 1500V _{DC}	External wall, terminal covers available	84	
2103128	1-Pole, NH3L, 1500V _{DC}	External wall, terminal covers available		
2155628	1-Pole, NH1, 1000V _{DC}	External wall, terminal covers available		
2155728	1-Pole, NH2, 1000V _{DC}	External wall, terminal covers available	85	
2156828	1-Pole, NH3, 1000V _{DC}	External wall, terminal covers available		
2155601	1-Pole, NH1, 1000V _{DC}	External wall, terminal covers available	85	
2102801	1-Pole, NH1XL, 1500V _{DC}	External wall, terminal covers available		
2103101	1-Pole, NH3L, 1500V _{DC}	External wall, terminal covers available		
Fuse Modules				
5106305.1DC	1-Pole, 10x38mm, 1000V _{DC} -UL & CSA		87	
5106305.1LDC	1-Pole, 10x38mm, 1000V _{DC} -UL & CSA	With neon lamp blown fuse indication		
5106305.2DC	2-Pole, 10x38mm, 1000V _{DC} -UL & CSA	No blown fuse indication		
5106305.2LDC	2-Pole, 10x38mm, 1000V _{DC} -UL & CSA	With neon lamp blown fuse indication	88	
5105805.1DC	1-Pole, 14x51mm, 1000V _{DC} -UL & CSA	No blown fuse indication		
5105805.1LDC	1-Pole, 14x51mm, 1000V _{DC} -UL & CSA	With neon lamp blown fuse indication		
5105805.1SDC	1-Pole, 14x51mm, 1000V _{DC} -UL & CSA	With microswitch		
5105805.2DC	2-Pole, 14x51mm, 1000V _{DC} -UL & CSA	No blown fuse indication		
5105805.2LDC	2-Pole, 14x51mm, 1000V _{DC} -UL & CSA	With neon lamp blown fuse indication		
5106005.1	1-Pole, 22x58mm, 750V _{DC} -IEC	No blown fuse indication	89	
5106005.1L	1-Pole, 22x58mm, 750V _{DC} -	With neon lamp blown fuse indication		
5106005.1S	1-Pole, 22x58mm, 750V _{DC} -	With microswitch		
5106005.2	2-Pole, 22x58mm, 750V _{DC} -	No blown fuse indication		
5106005.2L	2-Pole, 22x58mm, 750V _{DC} -	With neon lamp blown fuse indication		
5106005.2S	2-Pole, 22x58mm, 750V _{DC} -	With microswitch		
5106005.3	3-Pole, 22x58mm, 750V _{DC} -	No blown fuse indication		
5106005.3L	3-Pole, 22x58mm, 750V _{DC} -	With neon lamp blown fuse indication		
5106005.3S	3-Pole, 22x58mm, 750V _{DC} -	With microswitch		
5126005.1	1-Pole, 22x58mm, 1500V _{DC} IUL & IEC	No blown fuse indication	90	
5123805	1-Pole, 10/14x85 mm, 1500V _{DC} -UL	No blown fuse indication	91	
9108001	1-Pole, 20x127mm, 1500V _{DC} -IEC	No blown fuse indication		
9108003	1-Pole, 20x127mm, 1500V _{DC} -IEC	With microswitch		



FUSES

Fuses Accessories

Article	Description	Selection Guide	Technical Data
Fuse Clips for Cylindrical Fuses			
5806316	Fuse clips, 10mm dia.	PCB mount	92
5806317	Fuse clips, 10mm dia.	Bolt mounting	
5806319	Fuse clips, 10mm dia.	PCB mount	
6301701	Clamping plate for fuse clips		
6301701.3	Terminal bar for 5806319		
6100101.2	Fuse clips, 14mm dia.	Bolt mounting	
6301701	Clamping plate for fuse clips 6100101.2		
204100	Press on wire leeds, 6.3mm dia, 12.5A		
204100	Press on wire leeds, 6.3mm dia, 20A		
5805806	Fuse clips, 14mm dia.	PCB mount	
6100201.3	Fuse clips, 22mm dia.	Bolt mounting	93
6300201	Clamping plate for fuse clips 6100201.3		
6100201.4	Terminal bar for 6100201.3		
5806006	Fuse clips, 22mm dia.	PCB mount	
6100401.3	Fuse clips, 27mm dia.	Bolt mounting	
6300201	Clamping plate for 6100401.3		
NH Fuse Insertion/ Removal Tool			
2200102	NH000-3 Insertion/removal tool 690V _{AC}	Standard	93
2200105	NH000-3 Insertion/removal tool 690V _{AC}	With leather sleeve	
2203101	NH1XL-3L Insertion/removal tool 1500V _{DC}	Standard	
2203102	NH1XL-3L Insertion/removal tool 1500V _{DC}	With leather sleeve	



UL File E309038

Accessories

GL Microswitch

Standard(s)

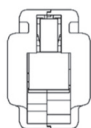
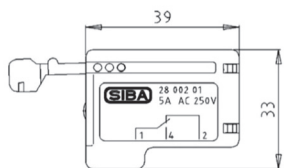
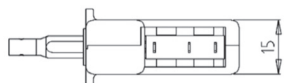
Single Change Over Circuit

Standard Level

Article Number	Weight [kg / 1]	Terminals	Temperature range	" UL94" Flammability	Interrupt Rating			
					AC		DC	
					[V]	[A]	[V]	[A]
2800201	0.02	AMP 2.8x0.5	-40°C to +80°C	VO	250	5 - resistive	33	3 - resistive
2800202						3 - inductive	26	3 - inductive L/R =10ms

Low Level

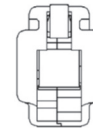
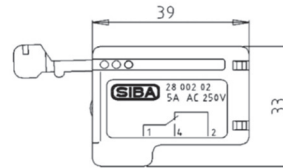
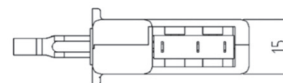
Article Number	Weight [kg / 1]	Terminals	Temperature range	" UL94" Flammability	Interrupt Rating			
					Minimum		Maximum	
2800203	0.02	AMP 2.8x0.5	-40°C to +80°C	VO	5V _{AC/DC} - resistive	1mA	30V _{AC/DC}	0.3A
2800204								



2800201 / 2800203

(Black Hammer)

For Fuses NH00 DIN80, SQB1 - SQB3



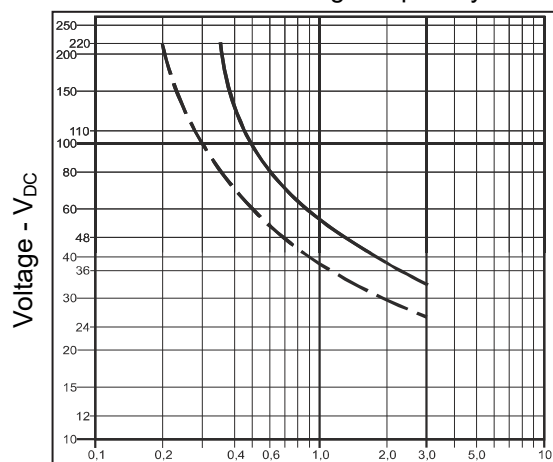
2800202 / 2800204

(Red Hammer)

For Fuses NH000 DIN80, NH000 - NH4

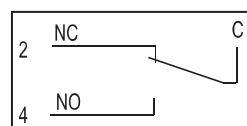
Standard Level

Maximum DC Voltage Capability

Current - A_{DC}

— Resistive circuit

- - - Inductive circuit cosφ = 0.3, τ = L/R = 10ms



Fuse has not operated

Phone: 1-973-575-7422

Fax: 1-973-575-5858

80

SIBA LLC

29 Fairfield Place

West Caldwell, New Jersey 07006

portal: www.siballc.net

e-mail: info@sibafuse.com



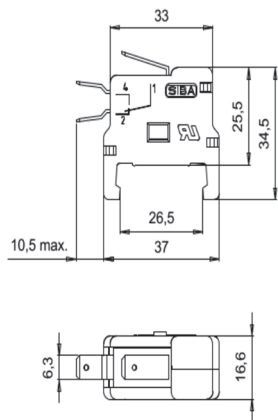
UL File E309038

Accessories

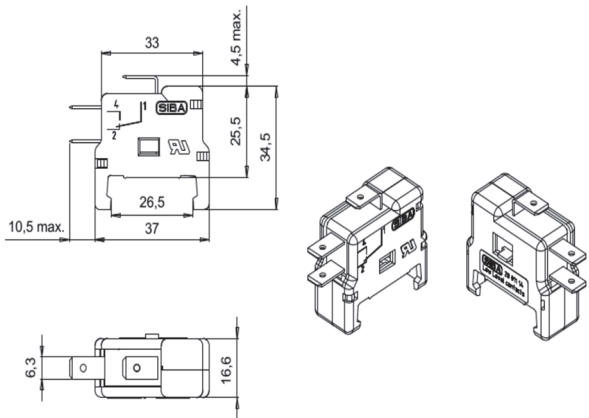
M Microswitch

Standard(s)

Single Change Over Circuit								
Standard Level								
Article Number	Weight [kg / 1]	Terminals	Temperature range	" UL94" Flammability	Interrupt Rating			
					Minimum		Maximum	
2800114	0.02	AMP 3.8x 08	-40°C to +80°C		30V _{AC/DC} - (resistive)	10mA	250V _{AC/DC}	10A
Low Level								
2801114	0.02	AMP 3.8x0.8	-40°C to +80°C		5V _{AC/DC} - resistive	1mA	250V _{AC} - resistive 30V _{DC} - resistive	10A 1A

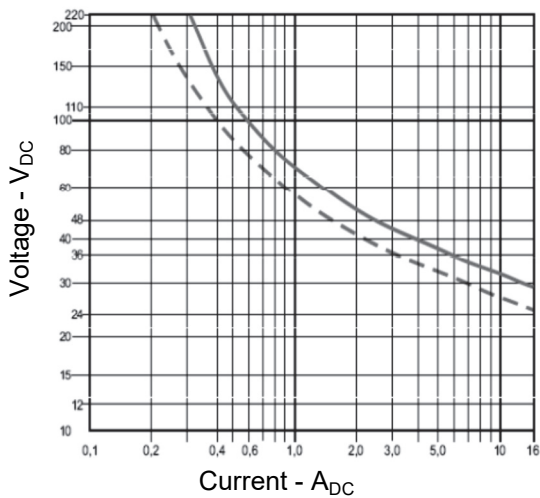


2800114

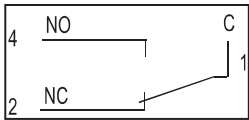


2801114

Standard Level
Maximum DC Voltage Capability



— Resistive circuit
- - - Inductive circuit $\cos\phi = 0.3$, $\tau = L/R = 10\text{ms}$



Fuse has not operated

Accessories

Standard(s)

B Microswitch

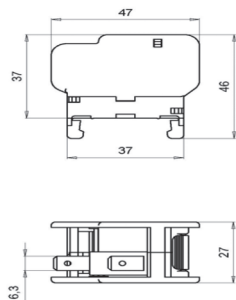
Single Change Over Circuit

Standard Level

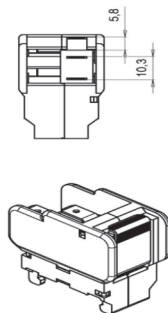
Article Number	Insulating voltage [V]	Weight [kg / 1]	Terminals	Temperature range	Interrupt Rating			
					Minimum		Maximum	
2800310	1250	0.025	AMP 6.3x0.8	-40°C to +85°C	5V _{AC/DC} - resistive	50mA	250V _{AC/DC} - resistive	12A
2800311	2200	0.025			30V _{AC/DC} - resistive	10mA	250V _{AC/DC} - resistive	6A
2800312	5500	0.025			100V _{AC/DC} - resistive	5mA	35V _{DC} - resistive	10A*
Low Level								
2800410	1250	0.025	AMP 6.3x0.8	-40°C to +85°C	5V _{AC/DC} - resistive	1mA	250V _{AC} - resistive	10A**
2800411	2200	0.025					250V _{AC} - inductive	4A**
2800412	5500	0.025					35V _{DC} - resistive	1A

* See chart - Maximum DC Voltage Capability

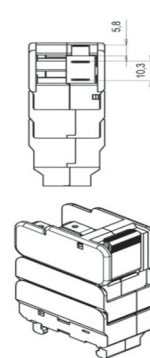
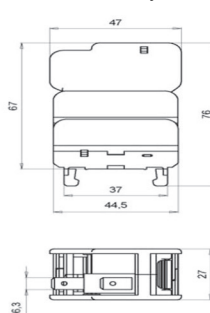
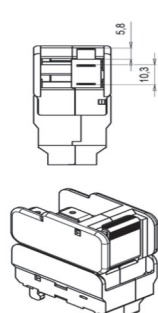
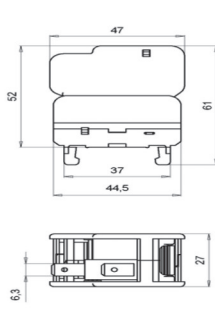
** Operation at this level - one time only



2800310 / 2800410

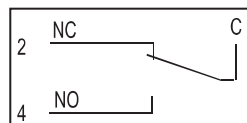
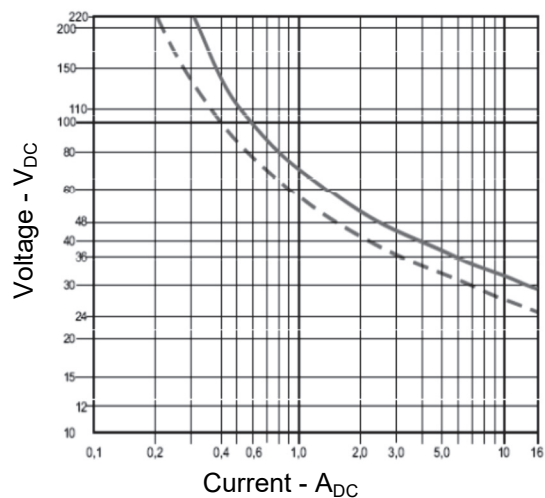


2800311 / 2800411



2800312 / 2800412

Standard Level
Maximum DC Voltage Capability



Fuse has not operated

— Resistive circuit
- - - Inductive circuit $\cos\phi = 0.3$, $\tau = L/R = 10\text{ms}$

Phone: 1-973-575-7422

Fax: 1-973-575-5858



FUSES



Accessories

Fuse Bases For DC NH000 and NH00 DIN 80mm

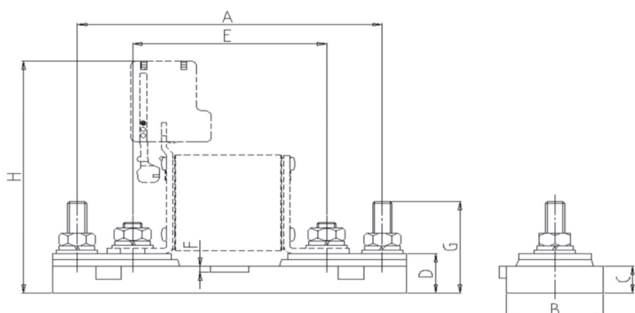
Standard(s)

UL 4248-18

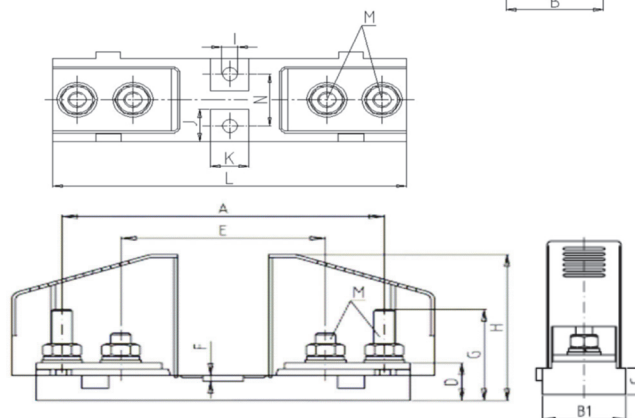
IEC 60269-2

UL File E341490

Article Number	Rated voltage [V]	Rated current [A]	Rated power acceptance [W]	Interrupt rating [kA]	"UL94" Flammability	Connecting contacts	Connecting terminals	Maximum torque	
								M8 Nut	Base plate
2118928	600	200	34	30	V0	copper silver plated	M8 stainless	12N•m	4N•m
2119028								106lb•in	35lb•in



2118928



2119028

	Dimensions [in / mm]	
	2118928	2119028
A	4.96 / 126	4.96 / 126
B	1.57 / 40	—
B ₁	—	1.57 / 40
B ₂	—	1.34 / 34
C	0.50 / 13	0.50 / 13
D	0.75 / 19	0.75 / 19
E	3.15 / 80	3.15 / 80
F	0.12 / 3	0.12 / 3
G	1.81 / 46	1.81 / 46
G ₁	—	—
G ₂	—	—
H	4.40 / 112	2.91 / 74
I	0.26 / 6.5	0.26 / 6.5
J	0.60 / 15.5	0.60 / 15.5
K	0.63 / 16	0.63 / 16
L _{max}	5.75 / 146	—
L ₁	—	5.75 / 146
L ₂	—	6.50 / 165
M	M8	M8
N	0.98 / 25	0.98 / 25
	Max M8 nut torque 12N•m 8.8lb•ft 106lb•in	
	Max base mounting torque 4N•m 3lb•ft 35lb•in	



Accessories

Fuse Bases For Knife Blade Fuses

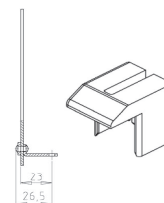
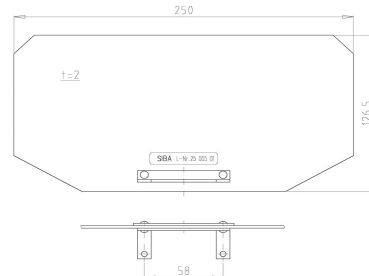
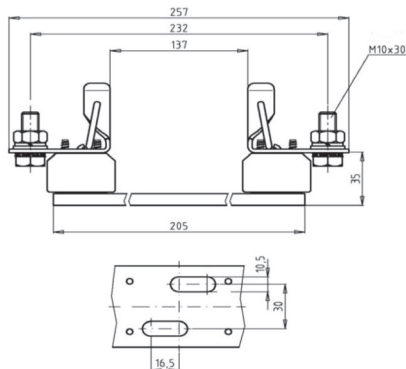
Standard(s)

UL 4248-18

IEC 60269-2

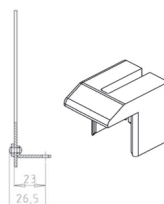
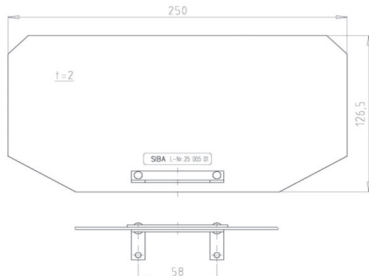
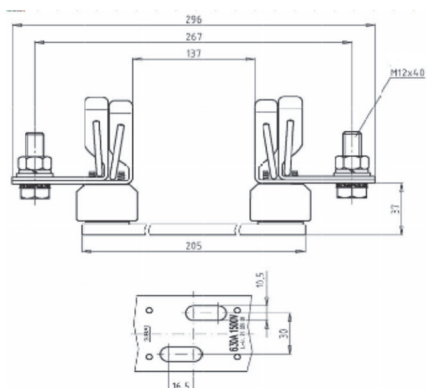
UL File E341490

Fuse size	Fuse base	Rated voltage	Rated current	Breaking capacity	Rated power acceptance	External wall	Insulating contact covers		Maximum torque [N•m]	
									Cables	Base plate
1 - Pole	2102828	1500	250	31	32	2500501	2100301.26		32	16



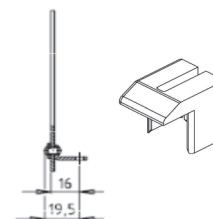
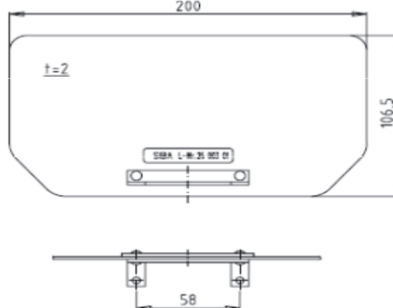
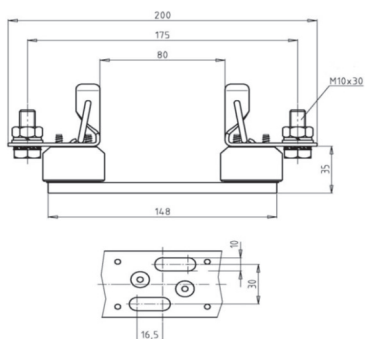
Paralleling fuse base center to center spacing $\geq 55\text{mm}$
Cable connection requires use of two wrenches for counter torque

Fuse size	Fuse base	Rated voltage	Rated current	Breaking capacity	Rated Power acceptance	External wall	Insulating contact covers		Maximum torque [N•m]	
									Cables	Base plate
1 - Pole	2103128	1500	600	31	60	2500501	2100501.26		38	16



Paralleling fuse base center to center spacing $\geq 74\text{mm}$
Cable connection requires use of two wrenches for counter torque

Fuse size	Fuse base	Rated voltage	Rated current	Breaking capacity	Rated power acceptance	External wall	Insulating contact covers		Maximum torque [N•m]	
									Cables	Base plate
1 - Pole	2155628	1000	250	31	32	2500301	2100301.26		32	16



Paralleling fuse base center to center spacing $\geq 58\text{mm}$
Cable connection requires use of two wrenches for counter torque



FUSES



Accessories

Fuse Bases For Knife Blade Fuses

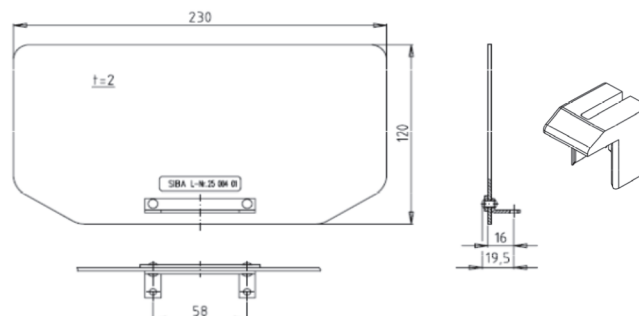
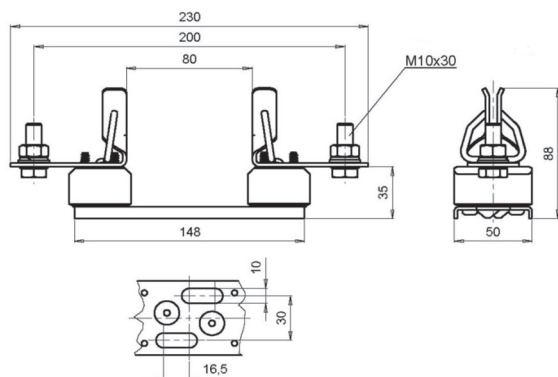
Standard(s)

UL 4248-18

IEC 60269-2

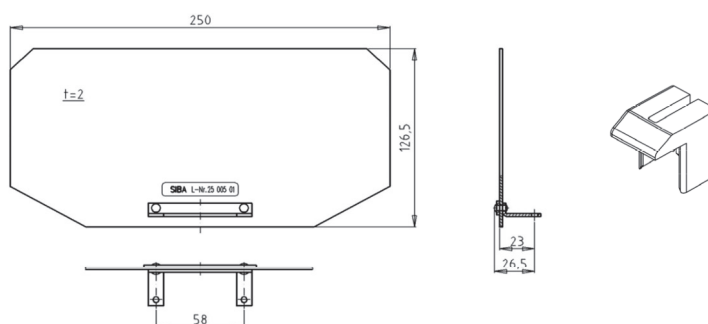
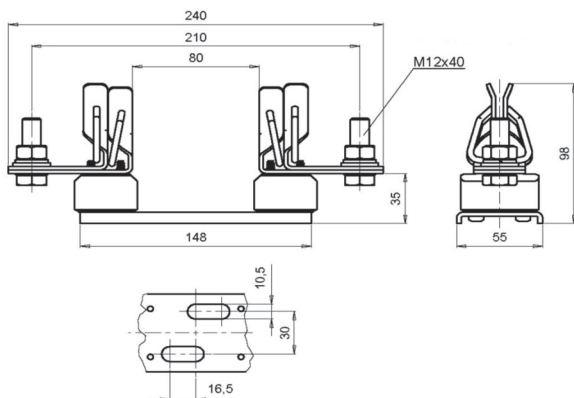
UL File E341490

Fuse size	Fuse base	Rated voltage	Rated current	Breaking capacity	Rated power acceptance	External wall	Insulating contact covers	Maximum torque [N•m]	
NH2	Article No.	[V _{dc}]	[A]	[kA]	[W]	Article No.	Article No.	Cables	Base plate
1 - Pole	2155728	1000	250	31	45	2500401	2100401.26	32	16

Paralleling fuse base center to center spacing ≥ 65 mm

Cable connection requires use of two wrenches for counter torque

Fuse size	Fuse base	Rated voltage	Rated current	Breaking capacity	Rated power acceptance	External wall	Insulating contact covers	Maximum torque [N•m]	
NH3	Article No.	[V _{dc}]	[A]	[kA]	[W]	Article No.	Article No.	Cables	Base plate
1 - Pole	2156828	1000	600	31	60	2500501	2100501.26	38	16

Paralleling fuse base center to center spacing ≥ 75 mm

Cable connection requires use of two wrenches for counter torque

Accessories

Standard(s)

UL 4248-18

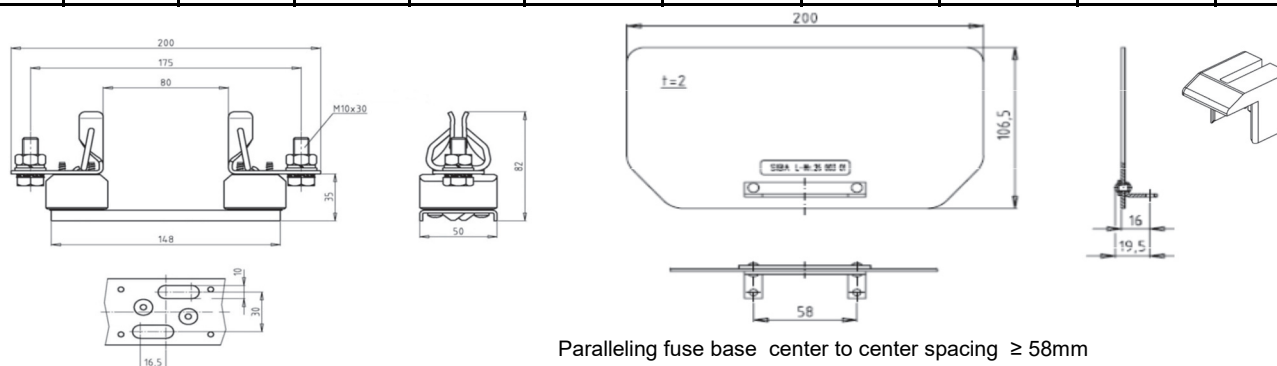
IEC 60269-2



Fuse Base With Microswitch For Knife Blade Fuses

UL File E186970

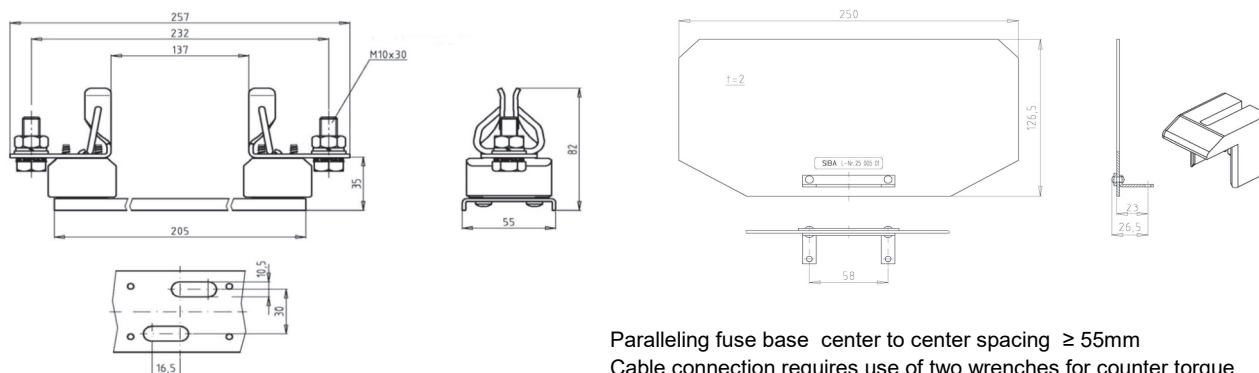
Fuse size NH3	Fuse base Article No.	Rated voltage [V_{DC}]	Rated current [A]	Breaking capacity [kA]	Rated power acceptance [W]	External wall Article No.	Partion wall Article No.	Insulating contact covers Article No.	Maximum torque [N·m]	
									Cables	Base plate
1 - Pole	2155601	1000	400	100	32	2500301		2100301.26	32	20



Paralleling fuse base center to center spacing $\geq 58\text{mm}$

Cable connection requires use of two wrenches for counter torque

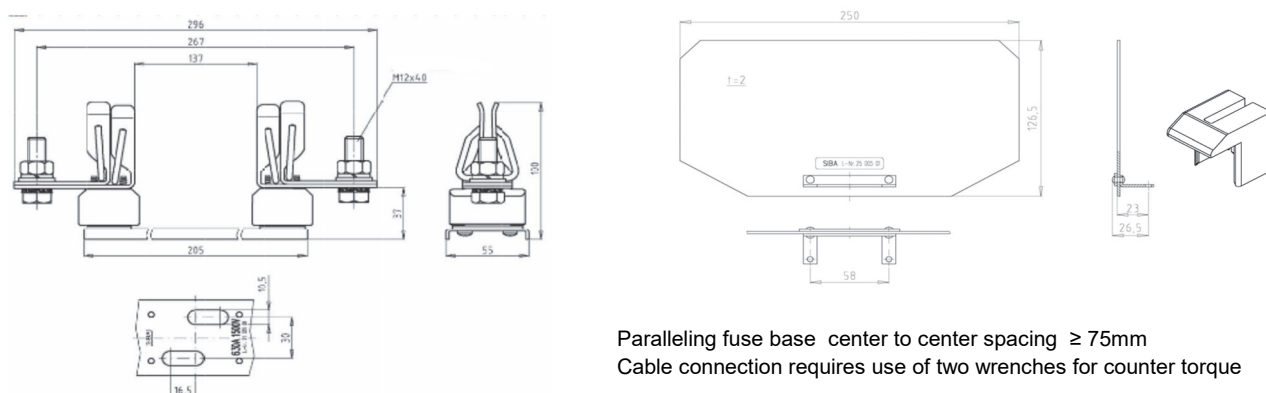
Fuse size	Fuse base	Rated voltage	Rated current	Breaking capacity	Rated power acceptance	External wall	Insulating contact covers		Maximum torque [N·m]	
NH1XL	Article No.	[V _{DC}]	[A]	[kA]	[W]	Article No.	Article No.		Cables	Base plate
1 - Pole	2102801	1500	250	100	32	2500501	2100301.26		32	16



Paralleling fuse base center to center spacing $\geq 55\text{mm}$

Cable connection requires use of two wrenches for counter torque

Fuse size	Fuse base	Rated voltage	Rated current	Breaking capacity	Rated Power acceptance	External wall	Insulating contact covers		Maximum torque [N·m]	
NH3L	Article No.	[V _{DC}]	[A]	[kA]	[W]	Article No.	Article No.		Cables	Base plate
1 - Pole	2103101	1500	750	100	60	2500501	2100501.26		38	16



Paralleling fuse base center to center spacing $\geq 75\text{mm}$

Cable connection requires use of two wrenches for counter torque



FUSES



Rated Voltage
1 000V_{DC} - UL

Accessories

Standard(s)
UL 4248-1 & -18, UL 486E
CSA 22.2
IEC 60269-1 & 2
IEC 60947-1 & 3

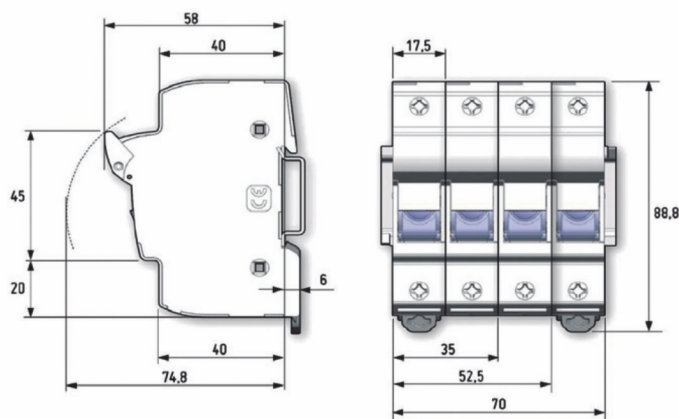
w/lamp indicator

UL File E341490 / CSA 262029

Fuse Modules

5106305 DC Series for 10x38mm 1 000V_{DC} Fuse Links

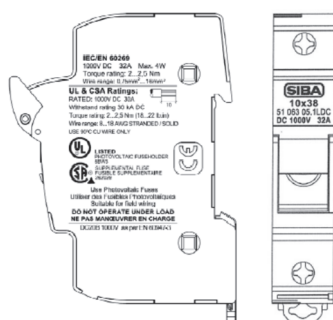
Article No.	Description	
5106305.1DC	1-Pole	No indicator
5106305.1LDC		W/ neon lamp indicator
5106305.2DC	2-Pole	No indicator
5106305.2LDC		W/ neon lamp indicator



10x38mm DIN Rail Mounting
Rated voltage; UL / IEC 1 000V _{DC} / IEC 690V _{AC}
Rated current; 30A UL, 32A IEC
Rated power acceptance; 4W
Utilization category; AC - 21B 690V _{AC} , DC - 20B 1000V _{DC}
Rated insulating voltage; U _{imp} = 6kV
Contacts; copper-silver plated
Conductor; 0.75mm ² - 16mm ² solid wire or stranded wire, 90°C. *
Maximum torque; 2.5N•m
Degree of protection; IP-20**, consult SIBA flexible wire ≤ 6mm ² solid wire ≤ 10mm ²
Pollution degree 3
Construction, body & handle; Thermoplastic polyester
Flammability "UL 94"; V2
Rating of indicator; 350V _{DC} - 1000V _{DC}
Storage and operating temperature range; -50°C to +85°C
Handling of lever during installation and maintenance below -20°C must be avoided.
Do Not Open Under Load
Suitable for field wiring

* Stranded wire with or without ferrules

** Depends on connection and mounting parts



Fuse module current de-rating for adjacent poles with direct contact	
Number of poles	De-rating factor
1 - 4	1X _{I_n}
5 - 6	0.8X _{I_n}
7 - 9	0.7X _{I_n}
≥ 10	0.6X _{I_n}



UL File E186970 / CSA 262029

Rated Voltage
1 000V_{DC} - UL / IEC

Accessories

w/lamp indicator or w/microswitch

Fuse Modules

Standard(s)

UL 4248-1

CSA 22.2

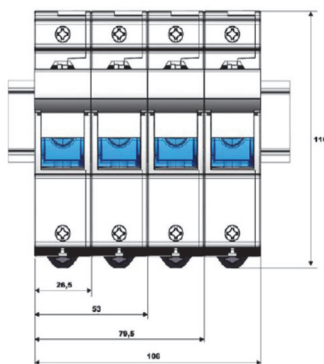
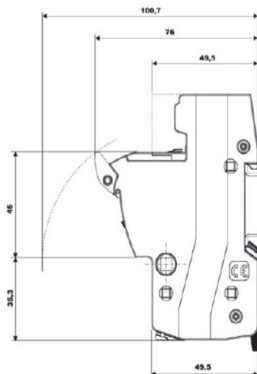
IEC 60269-1 & 2

IEC 60947-1 & 3

5105805DC Series for 14x51mm Fuse Links

Article No.	Description	
5105805.1DC	1-Pole	No indicator
5105805.1LDC		W/ neon lamp indicator
5105805.1SDC*		W/ microswitch
5105805.2DC	2-Pole	No indicator
5105805.2LDC		W/ neon lamp indicator

* UL



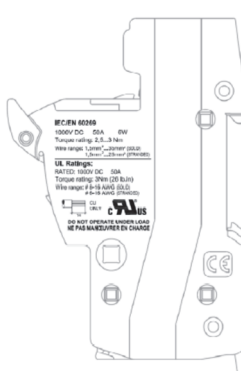
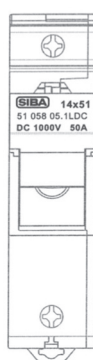
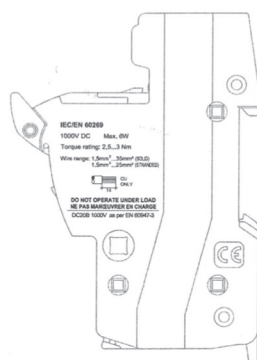
14x51mm DIN Rail Mounting
Rated voltage; 1 000V _{DC} - * UL(rec), 1 000V _{DC} / 690V _{AC} - IEC
Rated current; 50A UL, 50A IEC
Rated power acceptance; 6W
Utilization Category AC-21B 690V _{AC} , DC-20B 1000V _{DC}
Rated insulation voltage; U _{imp} = 8kV
Contacts; copper-silver plated
Conductor solid; 1.5mm ² - 35mm ²
Conductor stranded; 1.5mm ² - 25mm ² , with or without ferrules
Maximum torque; 2.5N•m - 3N•m
Degree of protection; IP-20** (cable size < 10mm ² contact SIBA)
Pollution degree; 3
Construction, body & handle; Thermoplastic polyester
Flammability "UL 94"; V2
Rating of indicator 350V _{DC} - 1 000V _{DC}
Storage and operating temperature range; -50°C to +85°C
Handling of lever during installation and maintenance below -20°C must be avoided.
Do Not Open Under Load

** Depends on connection and mounting parts



Microswitch making and breaking capacity according to EN/IEC 60947.5.1 (6000 cycles)

Utilization category	24V	48V	110 / 127V	220 / 240V	380 / 440V	480V
AC-12	5A	5A	5A	5A	5A	5A
DC 12	5A	2A	0.4A	0.2A	—	—



IEC

5105805.1SDC*

Fuse module current de-rating for adjacent poles with direct contact	
Number of poles	De-rating factor
1 - 4	1X _{I_n}
5 - 6	0.8X _{I_n}
7 - 9	0.7X _{I_n}
≥ 10	0.6X _{I_n}



FUSES



UL File E186970

Rated Voltage
 750V_{AC} - UL
 690V_{AC} / 750V_{DC} - IEC
 w/lamp indicator

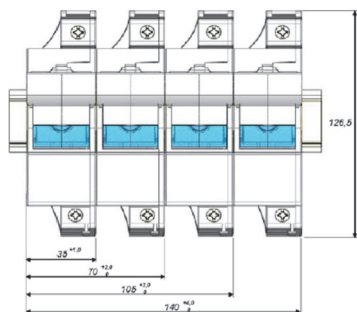
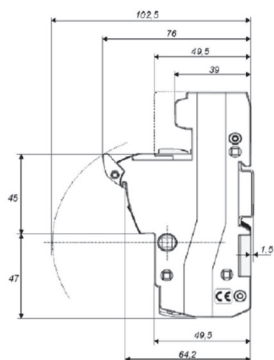
Accessories

Fuse Modules

Standard(s)
 UL 4248-1
 IEC 60269-1 & 2
 IEC 60947-1 & 3

5106005 Series for 22x58mm Fuse Links

Article No.	Description	
5106005.1	1-Pole	No indicator
5106005.1L		W/ neon lamp indicator
5106005.1S		W/ microswitch
5106005.2	2-Pole	No indicator
5106005.2L		W/ neon lamp indicator
5106005.2S		W/ microswitch
5106005.3	3-Pole	No indicator
5106005.3L		W/ neon lamp indicator
5106005.3S		W/ microswitch



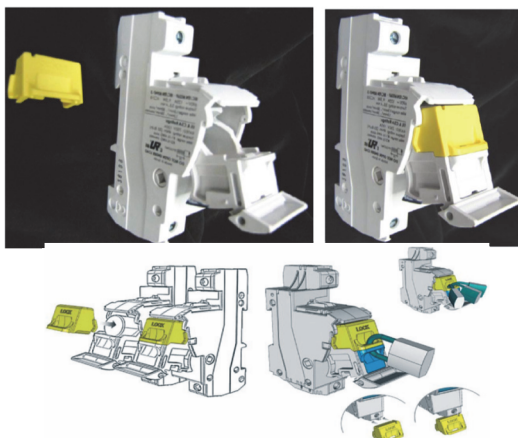
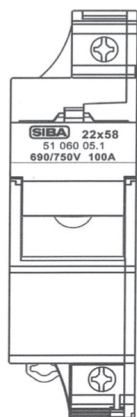
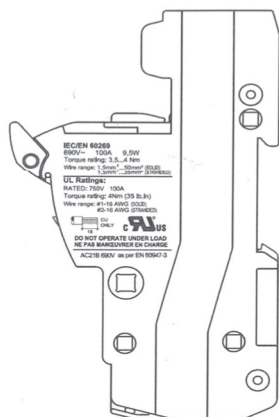
22x58mm DIN Rail Mounting
Rated voltage; 750V _{AC} UL(rec), 690V _{AC} / 750V _{DC} IEC
Rated current; 100A UL, 100A* IEC
Rated power acceptance; 9.5W
Peak withstand current; 200kA -UL 4248, 120kA IEC 60269
Conductor solid; 1.5mm ² - 50mm ² , Conductor stranded; 1.5mm ² - 35mm ² , with or without ferrules
Maximum Torque; 3.5N•m - 4N•m
Utilization Category AC 21B 690V _{AC}
Pollution degree; 3
Rated insulation voltage; U _{imp} = 8kV
Degree of protection; IP-20**, consult SIBA flexible wire ≤ 16mm ² solid wire ≤ 25mm ²
Contacts; copper-silver plated
Flammability "UL 94"; V0
Construction, body & handle; Thermoplastic polyester
Operating and storage temperature range; -50°C to +85°C
Handling of lever during installation and maintenance below -20°C must be avoided.
Do Not Open Under Load
Rating of light indicator; 230V _{AC/DC} - 750V _{AC/DC} .

** Depends on connection and mounting parts

750V_{AC} / 100A

Microswitch making and breaking capacity according to EN/IEC 60947.5.1 (6000 cycles)

Utilization category	24V	48V	110 / 127V	220 / 240V	380 / 440V	480V
AC-12	5A	5A	5A	5A	5A	5A
DC 12	5A	2A	0.4A	0.2A	—	—



Fuse module current de-rating for adjacent poles with direct contact	
Number of poles	De-rating factor
1 - 4	1X _{I_n}
5 - 6	0.8X _{I_n}
7 - 9	0.7X _{I_n}
≥ 10	0.6X _{I_n}

Lockout Clip
 5106005.101

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

SIBA LLC
 29 Fairfield Place
 West Caldwell, New Jersey 07006

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



UL File E341490

Rated Voltage
1 500V_{DC} - UL / IEC
1 000V_{AC} - IEC

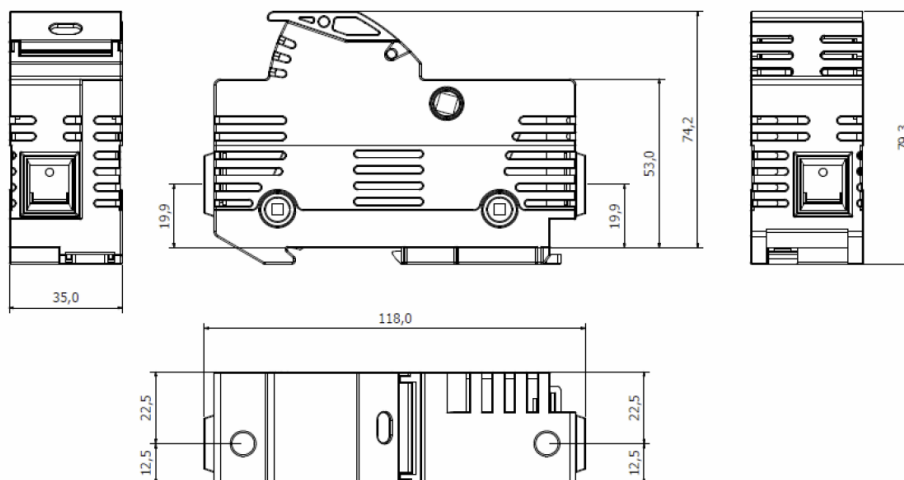
Accessories

Fuse Modules

Standard(s)
UL 4248-1
CSA 22.2
IEC 60269-1
IEC 60947-2

5126005.1 for 22x65mm Fuse Links

Arriving soon - Contact SIBA LLC for additional information





FUSES



UL File E341490

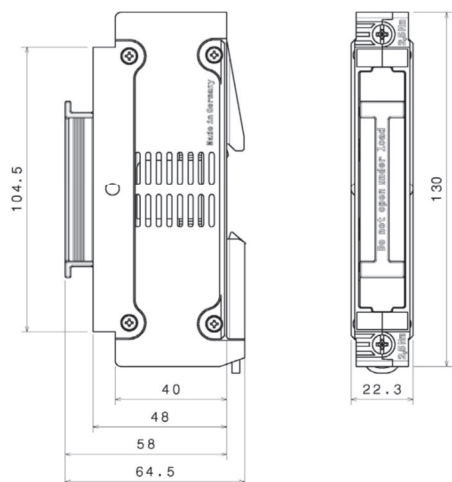
Rated Voltage
 1 500V_{DC} - UL / IEC
 1 000V_{AC} - IEC

Accessories

Fuse Modules

Standard(s)
 UL 4248 - 18
 Following IEC 20269-1 & 2

5123805 Series for 10mmx85mm and 10/14mmx85mm Fuse Links



Fuse module current de-rating for adjacent poles with direct contact	
Number of poles	De-rating factor
2 - 3	0.9I _n
4 - 5	0.8I _n
6 - 9	0.7I _n
≥ 10	0.6I _n

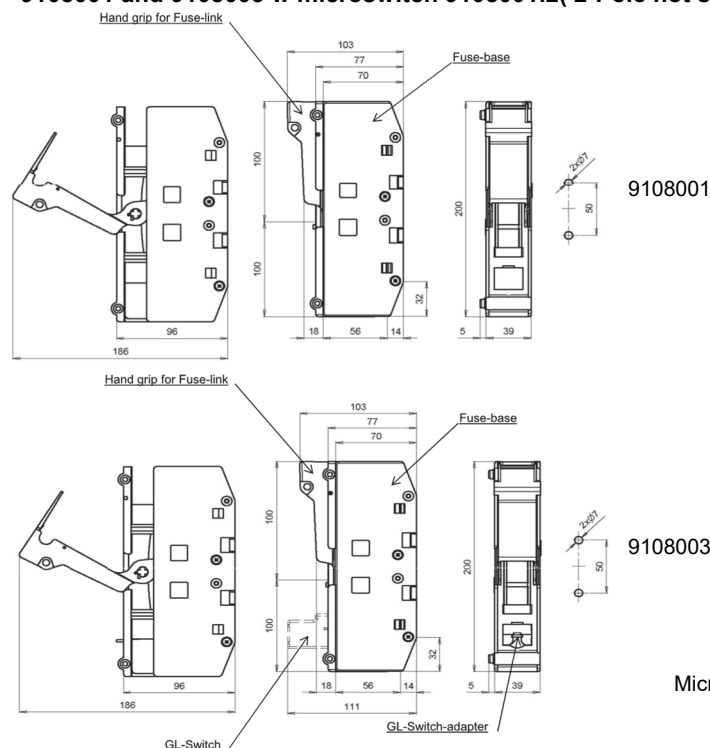
10mmx85mm, 10/14mmx85mm DIN Rail Mounting
Rated voltage; 1 500V _{DC} UL(listed), 1 000V _{AC} IEC
Rated current; 30A UL, 32A IEC
Rated power acceptance; 6W
Peak withstand current; 15kA (1 500V _{DC})
Conductor solid; 0.75mm ² - 25mm ²
Conductor stranded; 0.75mm ² - 25mm ²
Maximum Torque; 2.5N•m
Utilization Category AC 21B 690V _{AC}
Rated insulation voltage; U _{imp} = 6kV
Contacts; steel-zinc plated
Flammability "UL 94"; V0
Construction, body & handle; Thermoplastic Polyester
Contacts; steel-zinc plated
Operating and storage temperature range; -25°C to +85°C
Do Not Open Under Load

Rated Voltage
 1500V_{AC/DC} - IEC

Accessories

Fuse Modules

Standard(s)
 IEC 6947-3: AC20B, DC20B

9108001 and 9108003 w microswitch 9108001.2(2-Pole not shown) for 1 000V_{DC} and 1 500V_{DC} 20mmx127mm fuses

20mmx127mm,
Rated voltage; 1 500V _{AC/DC} - IEC
Rated current; 63A IEC
Rated power acceptance; 15W
Peak withstand current; 15kA (1500V _{DC})
Conductor solid; 50mm ² maximum
Conductor stranded; 50mm ² maximum
Maximum Torque; 10N•m
Rated insulation voltage contact to metal base plate; AC = 6kV DC = 12kV
Flammability "UL 94"; V0
Do Not Open Under Load

Microswitch 2800201

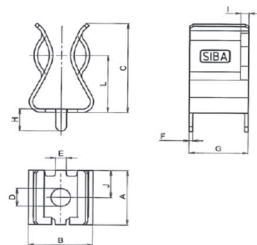
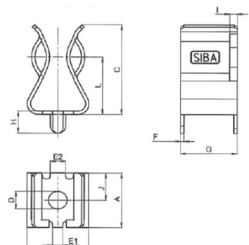
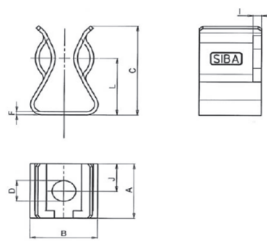
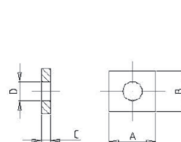
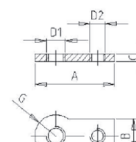
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portal: www.siballc.net
 e-mail: info@sibafuse.com

Accessories

Fuse Clips for 10mm Diameter Contacts

PCB mount
5806316PCB mount
5806319Bolted
5806317Clamping plate
6301701Terminal link
6101701.3

	Dimensions [in / mm]				
	5806316	5806319	5806317	6301701	6301701.3
A	0.43 / 11.0	0.43 / 11.0	0.43 / 11.0	0.39 / 10.0	0.83 / 21.0
B	0.47 / 12.0	0.47 / 12.0	0.47 / 12.0	0.35 / 9.0	0.24 / 6.0
C	0.71 / 18.0	0.71 / 18.0	0.71 / 18.0	0.08 / 2.0	0.08 / 2.0
D	0.14 / 3.6	0.14 / 3.6	0.17 / 4.2	0.17 / 4.2	
D ₁	—	—	—	—	— / M5
D ₂	—	—	—	—	— / M4
E	0.08 / 2.0	—	—	—	—
E ₁	—	0.08 / 2.0	—	—	0.61 / 15.5
E ₂	—	0.12 / 3.0	—	—	—
F	0.03 / 0.65	0.03 / 0.65	0.03 / 0.65	—	0.43 / 11.0
G	0.43 / 11.0	0.43 / 11.0	—	—	0.22 / 5.5
H	0.18 / 4.45	0.18 / 4.45	—	—	—
I	0.06 / 1.5	0.06 / 1.5	0.06 / 1.5	—	—
J	0.22 / 5.5	0.22 / 5.5	0.22 / 5.5	—	—
L	0.45 / 11.5	0.45 / 11.5	0.45 / 11.5	—	—

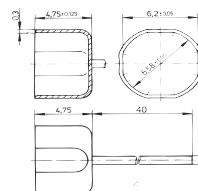
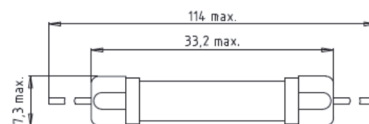
Press-on Leads for Ø 6.3mm



Ø 6.3mm

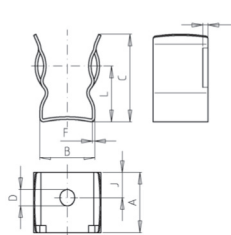
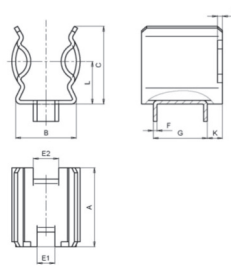
204100 Max 12.5A D=0.8mm

204101 Max 20A D=1mm



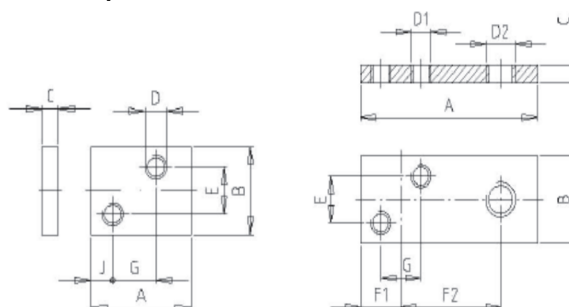
Fuse clips for 14mm diameter contacts

	Dimensions [in / mm]		
	6100101.2	6301701	5805806
A	0.61 / 15.5	0.39 / 10.0	0.63 / 16.0
B	0.61 / 15.5	0.35 / 9.0	0.47 / 12.0
C	0.90 / 22.8	0.08 / 2.0	0.61 / 15.5
D	0.17 / 4.2	0.17 / 4.2	—
E	—	—	—
E ₁	—	—	0.14 / 3.5
E ₂	—	—	0.20 / 5.0
F	0.03 / 0.7	—	0.03 / 0.70
G	—	—	0.42 / 10.7
H	—	—	—
I	0.06 / 1.5	—	0.04 / 1.0
J	0.26 / 6.5	—	—
K	—	—	0.12 / 3.0
L	0.57 / 14.5	—	0.33 / 8.5

Bolted
6100101.2Clamping plate
6301701PCB mount
5805806

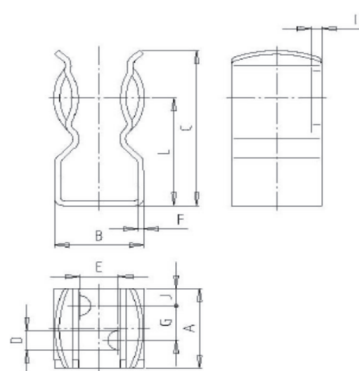
Accessories

Fuse clips for 22mm diameter contacts



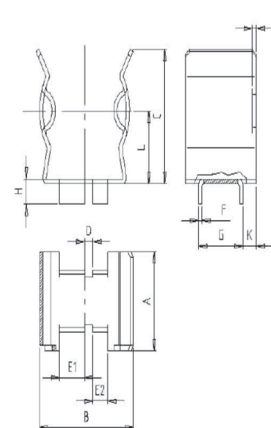
6300201
Clamping plate

6100201.4
Terminal link



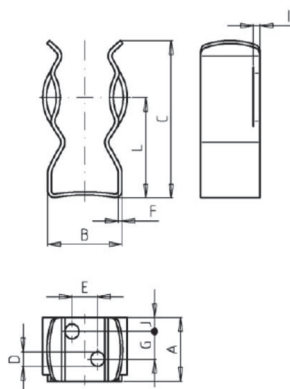
6100201.3
Bolted

Dimensions [in / mm]				
	6100201.3	6300201	6100201.4	5806006
A	0.73 / 18.5	0.73 / 18.5	1.40 / 35.5	0.67 / 17.0
B	0.72 / 18.4	0.59 / 15.0	0.59 / 15.0	0.79 / 20.0
C	1.42 / 36.0	0.12 / 3.0	0.12 / 3.0	0.91 / 23.0
D	0.18 / 4.2	— / M4	—	0.08 / 2.0
D ₁	—	—	— / M4	—
D ₂	—	—	— / M6	—
E	0.31 / 8.0	0.31 / 8.0	0.31 / 8.0	—
E ₁	—	—	—	0.24 / 6.0
E ₂	—	—	—	0.14 / 3.5
F	0.05 / 1.2	—	—	0.03 / 0.8
F ₁	—	—	0.30 / 7.5	—
F ₂	—	—	0.31 / 8.0	—
G	0.31 / 8.0	0.31 / 8.0	0.31 / 8.0	0.42 / 10.7
H	—	—	—	—
I	0.08 / 2.0	—	—	0.04 / 1.0
J	0.16 / 4.0	0.16 / 4.0	—	—
K	—	—	—	0.13 / 3.2
L	0.98 / 25.0	—	—	0.49 / 12.5



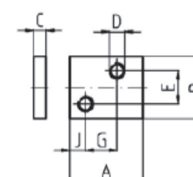
5806006
PCB mount

Fuse clips for 27mm diameter contacts



6100401.3
Bolted

Dimensions [in / mm]		
6100401.3		6300201
0.73 / 18.5	A	0.73 / 18.5
0.91 / 23.2	B	0.59 / 15.0
1.79 / 45.5	C	0.12 / 3.0
0.17 / 4.3	D	— / M4
0.31 / 8.0	E	0.31 / 8.0
0.05 / 1.2	F	—
0.31 / 8.0	G	0.31 / 8.0
0.08 / 2.0	I	—
0.16 / 4.0	J	0.16 / 4.0
1.14 / 29.0	L	—



6300201
Clamping plate

Accessories

European NH Knife Blade Fuse Insertion / Removal Grip Handle

Fuse System to 1000V_{AC}

NH000 - NH3



2200102 (Standard)



2200105 (with leather sleeve)

Do Not Operate Under Load!

Fuse System to 1600V_{AC}

NH1XL - NH3L (a₅ =120mm - 124mm)



2203101 (Standard)

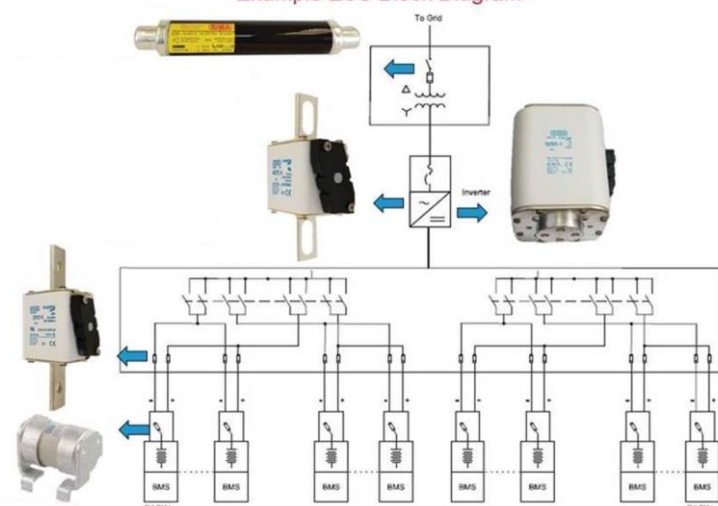


2203102 (with leather sleeve)

Do Not Operate Under Load!

SIBA Fuses is a worldwide leader in (ESS) Energy Storage Systems with the help of our global partners such as GE, Filnor, SOCOMEC disconnect, Nuvation, AES Distributed Energy, NextEra, Alencon, LeClanche, Dynapower, Primus Power, Lockheed Flow Batteries, Nidec, Powin, Corvus Energy, Fluence-Siemens, Greensmith, Sabre Building Systems, NEC, EPC Power and many more.

Siba Product Offering
Example ESS Block Diagram



SIBA Fuses covers the whole (BESS) Battery Energy Storage System spectrum, starting from the small module fuses, rack fuses, combiner fuses, inverter (DC/AC) fuses, and all the way to the high voltage grid fuses.

SIBA has developed an in-depth analysis of our ESS market and applications. We were the first in the industry to compile a list of questions, requirements and steps in order to offer true protection; all based on our engineering know how and experience. Below are examples of some of the forms we provide our OEMS, many of which have come to rely on our experience and expertise in the industry in the initial planning stages.

Phone: (973) 575-7422
Fax: (973) 575-5858

SIBA FUSES

Email: info@sibafuse.com
Web: www.siba-fuses.com

New Fuse Application and Requirements Questionnaire

- What are the Pulse Currents? Time duration? Waveform?
- Is this a Repetitive Current? What is the Cycling time?
- If it is not repetitive, what is the Current Waveform?
- Are there any Extraneous Current Requirements?
- What is the Ambient Operating Temperature? F or C?
- Do you require any samples? If so, please complete sample request form.

Phone: (973) 575-7422
Fax: (973) 575-5858

SIBA FUSES

Email: info@sibafuse.com
Web: www.siba-fuses.com

New Fuse Application and Requirements Questionnaire

Company Name: _____

Address: _____

Contact Name: _____ Email address: _____

Phone Number: _____ Fax Number: _____

- What is the application?
- Is there a project name associated with this request?
- What is the quantity potential?
- What fuse are you currently using?
- Is a Circuit Diagram Available? yes / no
- Will you provide us with the Circuit Diagram? yes / no email or fax?
- Have you considered using a competitor's part? If so, what is the part number?
- What are you protecting? Model and manufacturer?
- If model and manufacturer are unknown, what is the P/N and description?
- Are approvals required? If so, please specify UL, IEC, ANSI, IEEE, CSA etc.
- What is the Operating Voltage? AC or DC?
- What is the Operating Current?
- What is the Mounting Configuration?
- What is the Maximum Available Fault Current Amps (kA) 50?
- What is the Minimum Melting Current (amps)?

30 Fairfield Place, West Caldwell, NJ 07008

Page 1 of 2

