

URZ

Fuses for Semiconductor Protection - Cylindrical Fuses

SIBA cylindrical Ultra-Rapid fuses are available in six different sizes. They can be ordered with an integral striker for blown fuse indication or operation of micro-switch for remote monitoring or without the striker.

Class: gR, aR and gRL(gS)

Voltage ratings: 250V_{AC} to 1000V_{AC}

Current ratings: 16 A to 400 A

Standards: UL 248-13
IEC 60269-1 & 4
DIN VDE 0636-40
DIN 43653

Approvals:  E180276

Features and Benefits

High interrupt ratings, up to 300kA



Power semiconductor protection according to IEC 60269-1 & 4



Fuse classes according to IEC 60269-4 and DIN VDE 0636-40



Accessories available are fuse bases, micro-switches and fuse clips.

URZ

Fuses for Semiconductor Protection - Cylindrical

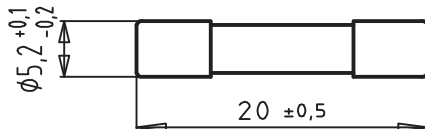
Article Number	Description		Selection Guide	Technical Data
250V _{AC}				
7000140	5x20mm, aR,	No blown fuse indication	499	
400V _{AC}				
7000740	5x20mm, aR,	No blown fuse indication	500	
7006584	6.35x32mm, gRL(gS)	No blown fuse indication	501	
600V _{AC}				
6003434	10x38mm, gRL(gS)	No blown fuse indication	502	502 - 503
6006434	10x38mm, gRL(gS), PCB mount	No blown fuse indication		
6007534	10x38mm, gRL(gS), 50.6mm centers	No blown fuse indication		
6003305	10x38mm, aR	No blown fuse indication	504	504 - 505
600V _{AC} /500V _{AC}				
5005806	14x51mm, aR	No blown fuse indication	506	506 - 507
5005906	14x51mm, aR	With striker		
5006006	22x58mm, aR	No blown fuse indication	508	508 - 509
5006106	22x58mm, aR	With striker		
660V _{AC} /500V _{AC}				
5019320	27x60mm, aR	No blown fuse indication	510	510 - 511
5019420	22x58mm, aR	With striker		
5017020	27x60mm, aR, 80mm centers	No blown fuse indication		
660V _{DC}				
5019006	27x60mm, aR	No blown fuse indication	512	512 - 513
5019106	27x60mm, aR	With striker		
5019206	27x60mm, aR, 80mm centers	No blown fuse indication		
700V _{AC} - UL/ 690V _{AC} - IEC				
5012406	14x51mm, gR	No blown fuse indication	514	514 - 515
5012606	14x51mm, gR	With striker		
5012906	14x51mm, gR, 63mm centers	No blown fuse indication		
5012434	14x51mm, gRL(gS)	No blown fuse indication	516	516 - 517
5012634	14x51mm, gRL(gS)	With striker		
5012934	14x51mm, gRL(gS), 63mm centers	No blown fuse indication		
5014006	22x58mm, gR/aR	No blown fuse indication	518	518 - 519
5014206	22x58mm, gR/aR	With striker		
5014506	22x58mm, gR/aR, 80mm centers	No blown fuse indication		
5014034	22x58mm, gRL(gS),	No blown fuse indication	520	520 - 521
5014234	22x58mm, gRL(gS),	With striker		
5014534	22x58mm, gRL(gS), 80mm centers	No blown fuse indication		
5014634	22x58mm, gRL(gS), PCB mount	No blown fuse indication		
700V _{AC} /500V _{AC}				
7012540	6.35x32mm, ceramic, aR	No blown fuse indication	522	522 - 523
5017906	10x38mm, gR	No blown fuse indication	524	524 - 525
5018006	10x38mm, gR, 50.6mm centers	With blown fuse indicator		
5018106	10x38mm, gR, PCB mount	No blown fuse indication		
700V _{DC}				
5011806	14x51mm, aR	No blown fuse indication	526	526 - 527
5020106	14x51mm, aR	No blown fuse indication	528	528 - 529
5020206	14x51mm, aR, 63mm centers	No blown fuse indication		
1000V _{AC} , 1000V _{AC/DC}				
5019620	27x60mm, aR	No blown fuse indication	532	530 -531
5019720	27x60mm, aR	With striker		
7017240	6.35x32mm, aR, DMI	No blown fuse indication	532	
5021006	10x35mm, aR	No blown fuse indication	533	
5019906	10x38mm, gR	No blown fuse indication	534	534 - 535

URZ - 5x20mm	Rated Voltage [U _n] 250V _{AC}	Rated Breaking Test Capacity 200kA 100mA - 5A 1.5kA 6.3A - 12.5A	Class FF	Standard(s) Company
				
UL File E180276				

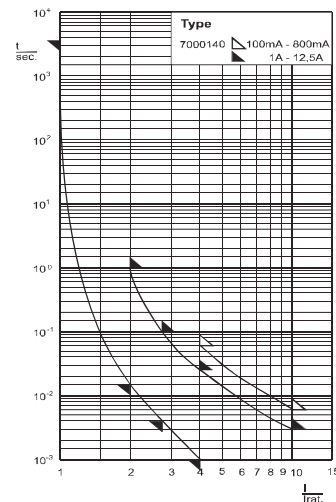
Rated current I _n [A]	Without indicator Article Number	UL rec	Rated breaking current [A]	Voltage drop @ I _n [mV]	Pre-arcing I ² t [A ² s]	Total I ² t @ 250V _{AC} [A ² s]	Power loss @ 1.0I _n [W]
0.100	7000140.0.100	✓	200kA @ 250V _{AC}	1 000	0.0016	0.0023	0.1
0.125	7000140.0.125	✓	200kA @ 250V _{AC}	950	0.0024	0.0034	0.5
0.160	7000140.0.160	✓	200kA @ 250V _{AC}	1 300	0.004	0.0056	0.3
0.200	7000140.0.200	✓	200kA @ 250V _{AC}	600	0.01	0.011	0.2
0.250	7000140.0.250	✓	200kA @ 250V _{AC}	550	0.02	0.027	0.2
0.315	7000140.0.315	✓	200kA @ 250V _{AC}	500	0.04	0.042	0.2
0.400	7000140.0.400	✓	200kA @ 250V _{AC}	500	0.07	0.084	0.2
0.500	7000140.0.500	✓	200kA @ 250V _{AC}	550	0.07	0.091	0.3
0.630	7000140.0.630	✓	200kA @ 250V _{AC}	600	0.15	0.24	0.4
0.800	7000140.0.800	✓	200kA @ 250V _{AC}	600	0.32	0.42	0.5
1	7000140.1	✓	200kA @ 250V _{AC}	600	0.32	0.45	0.6
1.25	7000140.1.25	✓	200kA @ 250V _{AC}	400	0.20	0.28	0.5
1.6	7000140.1.6	✓	200kA @ 250V _{AC}	400	0.31	0.51	0.7
2	7000140.2	✓	200kA @ 250V _{AC}	400	0.64	1.0	0.8
2.5	7000140.2.5	✓	200kA @ 250V _{AC}	400	0.88	1.5	1.0
3.15	7000140.3.15	✓	200kA @ 250V _{AC}	400	1.6	2.7	1.3
4	7000140.4	✓	200kA @ 250V _{AC}	350	3.2	5.4	1.4
5	7000140.5	✓	200kA @ 250V _{AC}	350	5.9	10	1.8
6.3	7000140.6.3		1.5kA @ 250V _{AC}	300	10	17	1.9
8	7000140.8		1.5kA @ 250V _{AC}	300	19	32	2.4
10	7000140.10		1.5kA @ 250V _{AC}	300	30	54	3.0
12.5	7000140.12.5		1.5kA @ 250V _{AC}	200	115	210	2.5
Weight [kg / 1]							
0.003							

Fusing Time Limits

Rated Current	1.1I _n	2.0I _n	2.75I _n	4I _n	10I _n
100mA Ä 800mA	> 1hr	—	—	< 60ms	< 6ms
1A Ä 12.5A	> 1hr	< 1s	4ms Ä 100ms	1ms Ä 25ms	< 3ms



Normalized Current, Time-Current Characteristics



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse clips PCB	199073	565	Press on cap leads, 6.3A maximum	204000	565
	199207		Press on cap leads, 10A maximum	204001	
	199429		Press on cap leads, 16A maximum	204002	

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URZ - 5x20mm

Rated Voltage

Rated Breaking Test

Class

Standard(s)

[U_n]

Capacity

Voltage

FF

Company

400V_{AC}

10kA

100mA - 4A

400V_{AC}250V_{AC}

300kA

6.3A - 12.5A

250V_{AC}

UL File E180276

125V_{AC}

10kA

16A

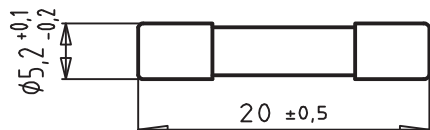
125V_{AC}

Rated current I _n [A]	Without indicator Article Number	UL rec	Rated breaking current [A]	Voltage drop @ I _n [mV]	Pre-arcing I ² t [A ² s]	Total I ² t @ 400V _{AC} [A ² s]	Power loss @ 1.0I _n [W]
0.100	7000740.0.100		10kA @ 400V _{AC} ¹	4 000	0.0016	0.0035	0.4
0.125	7000740.0.125		10kA @ 400V _{AC} ¹	3 500	0.0024	0.0053	0.5
0.160	7000740.0.160		10kA @ 400V _{AC} ¹	1 300	0.004	0.009	0.3
0.200	7000740.0.200		10kA @ 400V _{AC} ¹	600	0.01	0.022	0.2
0.250	7000740.0.250		10kA @ 400V _{AC} ¹	550	0.02	0.044	0.2
0.315	7000740.0.315		10kA @ 400V _{AC} ¹	500	0.04	0.09	0.2
0.400	7000740.0.400		10kA @ 400V _{AC} ¹	500	0.07	0.15	0.2
0.500	7000740.0.500		10kA @ 400V _{AC} ¹	550	0.07	0.15	0.3
0.630	7000740.0.630		10kA @ 400V _{AC} ¹	600	0.15	0.34	0.4
0.800	7000740.0.800		10kA @ 400V _{AC} ¹	600	0.32	0.7	0.5
1	7000740.1		10kA @ 400V _{AC} ¹	600	0.32	0.7	0.6
1.25	7000740.1.25		10kA @ 400V _{AC} ¹	400	0.20	0.44	0.5
1.6	7000740.1.6		10kA @ 400V _{AC} ¹	400	0.31	0.68	0.7
2	7000740.2		10kA @ 400V _{AC} ¹	400	0.64	1.4	0.8
2.5	7000740.2.5		10kA @ 400V _{AC} ¹	400	0.88	1.9	1.0
3.15	7000740.3.15		10kA @ 400V _{AC} ¹	400	1.6	3.5	1.3
4	7000740.4		10kA @ 400V _{AC} ¹	350	3.2	7.0	1.4
6.3	7000740.6.3	✓	200kA @ 250V _{AC} ²	300	1.6	4.8	2.8*
8	7000740.8	✓	200kA @ 250V _{AC} ²	300	4.5	14	3.0*
10	7000740.10	✓	200kA @ 250V _{AC} ²	300	8.8	26	3.4*
12.5	7000740.12.5	✓	200kA @ 250V _{AC} ²	200	15	44	4.0*
16	7000740.16	✓	10kA @ 125V _{AC} ²	130	46	100	3.8*
Weight [kg / 1]			¹ @ cosφ = 0.7				
0.003			² @ cosφ = 0.2				

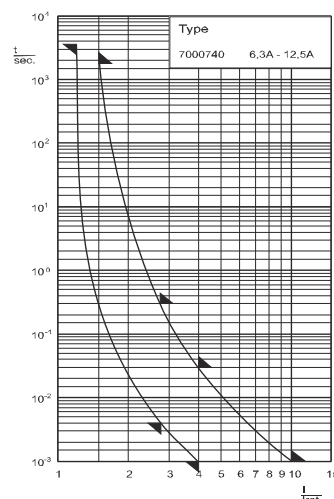
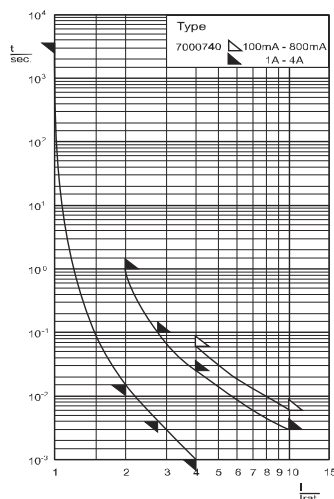
* @ 1.5I_n

Fusing Time Limits

Rated Current	1.0I _n	2.0I _n	2.75I _n	4I _n	10I _n
100mA ▼ 800mA	> 1hr	—	—	< 60ms	< 6ms
1A ▼ 4A	> 1hr	< 1s	4ms ▼ 100ms	1ms ▼ 25ms	< 3ms
Rated Current	1.2I _n	2.0I _n	2.75I _n	4I _n	10I _n
6.3A ▼ 12.5A	> 1hr	< 30m	4ms ▼ 300ms	1ms ▼ 30ms	< 1ms



Normalized Current, Time-Current Characteristics



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse Clips PCB	199073	565	Press on cap leads, 6.3A maximum	204000	565
	199207		Press on cap leads, 10A maximum	204001	
	199429		Press on cap leads, 16A maximum	204002	

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URZ - 6.3x32mm



Rated Voltage
[U_n]
400V_{AC}

Rated Breaking Test
Capacity
120kA

Voltage
400V_{AC}

Class
gRL
(gS)

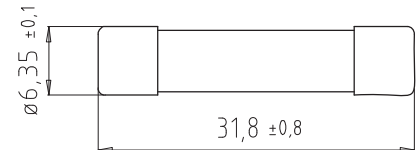
Standard(s)
IEC60 269-4
VDE 0636-4

UL File E180276

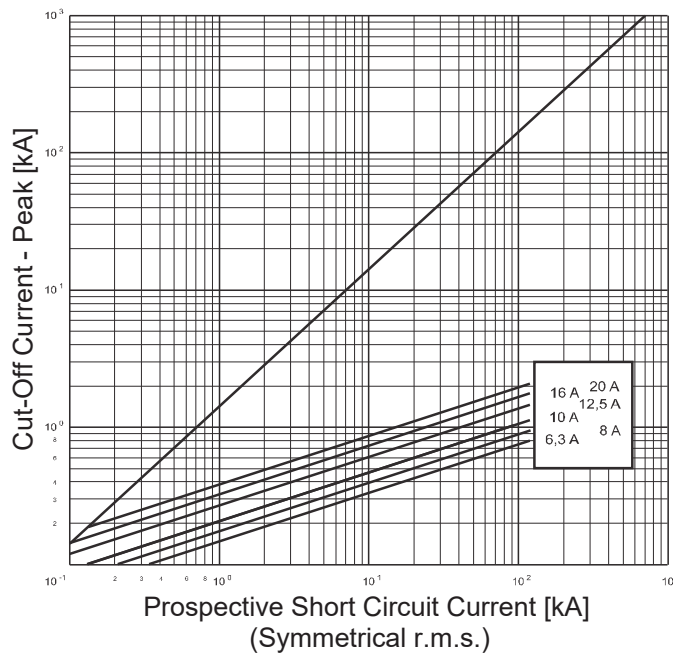
Rated current I _n [A]	Without indicator Article Number	UL rec	Rated breaking current [kA]	Voltage drop @ I _n [mV]	Pre-arcing I ² t [A ² s]	Total I ² t @ 400V _{AC} [A ² s]	Power loss @ I _n [W]
6.3	7006584.6.3	✓	120	190	1.8	11	1.2
8	7006584.8	✓	120	190	3.0	18	1.5
10	7006584.10	✓	120	180	5.1	31	1.8
12.5	7006584.12.5	✓	120	150	12	69	1.9
16	7006584.16	✓	120	150	20	120	2.3
20	7006584.20*	✓	120	160	35	210	3.2
Weight [kg / 1]		* Additional tested breaking capacity: 30kAIR @400V _{DC} , L/r=7ms					
0.003							



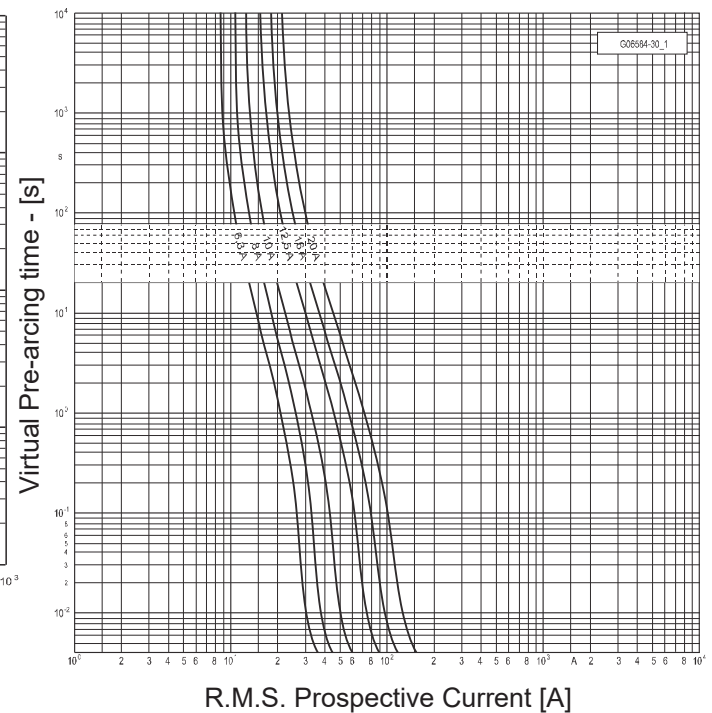
Coefficients for Heavy Duty Applications				
a	A2	B1 _{max}	B2	Cf3
130	0.8	1.25	0.8	0.8



Cut-Off Current Characteristics



Time-Current Characteristics



Full size graphs available upon request

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse Clips PCB	199073	565	Press on cap leads, 6.3A maximum	204000	565
	199207		Press on cap leads, 10A maximum	204001	
	199429		Press on cap leads, 16A maximum	204002	

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URZ - 10x38mm



Rated Voltage

[U_n]600V_{AC} - UL500V_{AC} - IEC

Capacity

200kA

Rated Breaking Test

Voltage

500V_{AC}

Class

gRL

(gS)

Standard(s)

UL 248-13

IEC 60 269-4

VDE 0636-40

UL File E180276

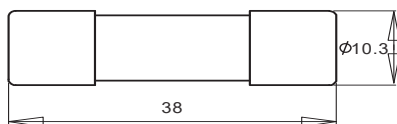
Rated current I _n [A]	Without indicator Article Number	UL rec	Without indicator PCB Article Number	UL rec	Without indicator 50.6mm Article Number	UL rec	Pre-arcing I ² t [A ² s]	Total I ² t @ 500V _{AC} [A ² s]	Power loss [W]
6	6003434.6	✓	6006434.6	✓	6007534.6	✓	2.5	20	1.0
8	6003434.8	✓	6006434.8	✓	6007534.8	✓	3.3	36	1.3
10	6003434.10	✓	6006434.10	✓	6007534.10	✓	5.1	41	1.1
12	6003434.12	✓	6006434.12	✓	6007534.12	✓	8.7	69	1.9
16	6003434.16	✓	6006434.16	✓	6007534.16	✓	17	130	2.4
20	6003434.20	✓	6006434.20	✓	6007534.20	✓	29	240	3.5
25	6003434.25	✓	6006434.25	✓	6007534.25	✓	66	530	3.8
30	6003434.30	✓	6006434.30	✓	6007534.30	✓	120	950	4.3

Weight [kg / 1]

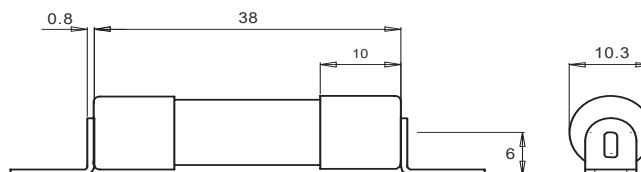
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Coefficients for Heavy Duty Applications

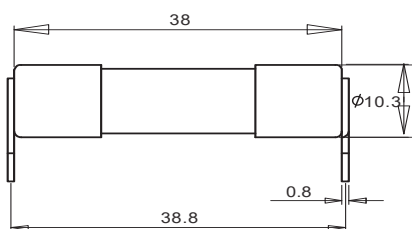
a	A2	B1 _{max}	B2	Cf3
150	1	1.25	0.5	0.8



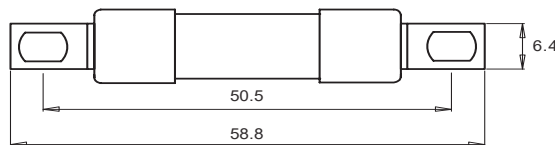
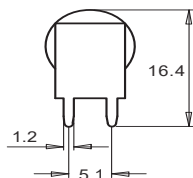
60003434



6007534



6006434



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse module, 1-Pole	5106305.1	559	Fuse clips PCB mounting	5806316	563
Fuse module, 1-Pole w/neon lamp indicator	5106305.1L		Fuse clips PCB mounting	5806319	
Fuse module, 2-Pole	5106305.2		Fuse clips screw mounting	5806317	
Fuse module, 2-Pole w/neon lamp indicator	5106305.2L		Clamping plate for 5806301	6301701	
Fuse module, 3-Pole	5106305.3		Terminal bar for 5806301	6301701.3	
Fuse module, 3-Pole w/neon lamp indicator	5106305.3L				

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URZ - 10x38mm



UL File E180276

Rated Voltage

 $[U_n]$ 600V_{AC} - UL500V_{AC} - IEC

Rated Breaking Test

Capacity

200kA

Voltage

500V_{AC}

Class

gRL

(gS)

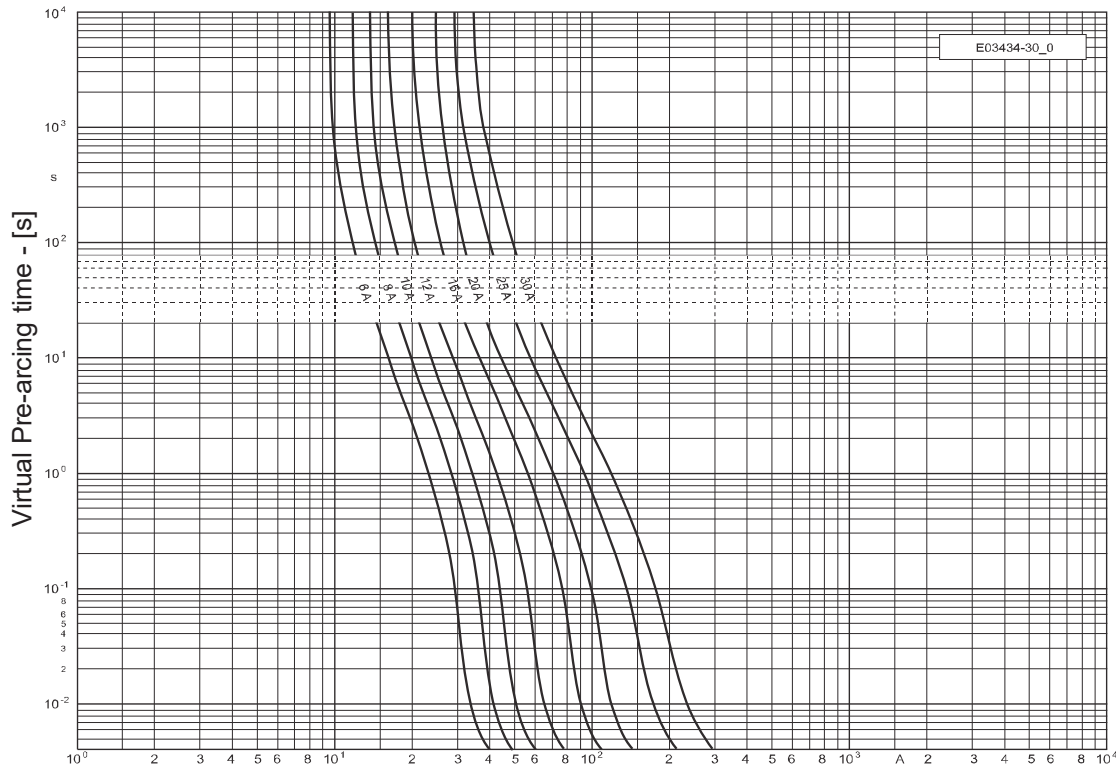
Standard(s)

UL 248-13

IEC 60 269-4

VDE 0636-40

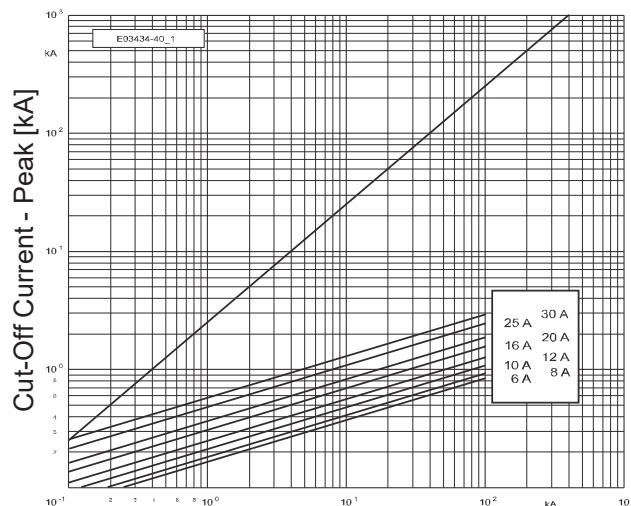
Time-Current Characteristics



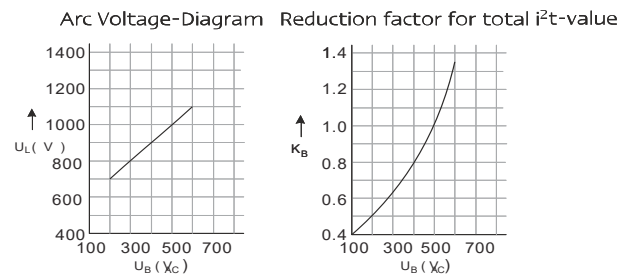
R.M.S. Prospective Current [A]

Full size graphs available upon request

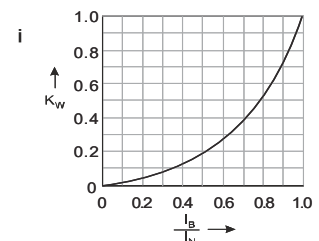
Cut-Off Current Characteristics

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

Correction Curves



Reduction factor for power Loss



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URZ - 10x38mm

Rated Voltage

[U_n]
600V_{AC}

Rated Breaking Test

Capacity
200kAVoltage
600V_{AC}

Class

aR

Standard(s)

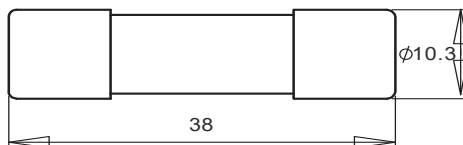
UL 248-13
IEC 60 269-4
VDE 0636-40

UL File E180276

Rated current I _n [A]	Without indicator Article Number	UL rec		Pre-arcing I ² t [A ² s]	Total I ² t @ 600V _{AC} [A ² s]	Power loss [W]
1	6003305.1	✓		0.1	0.9	1.0
2	6003305.2	✓		0.64	5.8	1.8
4	6003305.4	✓		1.1	6	1.1
5	6003305.5	✓		1.3	12	1.4
6	6003305.6	✓		2	18	1.6
8	6003305.8	✓		3	28	1.8
10	6003305.10	✓		5.1	48	2.1
12	6003305.12	✓		7.4	63	2.5
16	6003305.16	✓		13	120	3.0
20	6003305.20	✓		29	200	3.6
25	6003305.25	✓		52	420	4.5
30	6003305.30	✓		81	730	5.8
Weight [kg / 1]						
0.009						

Coefficients for Heavy Duty Applications

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



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse module, 1-Pole	5106305.1	559	Fuse clips PCB mounting	5806316	563
Fuse module, 1-Pole w/neon lamp indicator	5106305.1L		Fuse clips PCB mounting	5806319	
Fuse module, 2-Pole	5106305.2		Fuse clips screw mounting	5806317	
Fuse module, 2-Pole w/neon lamp indicator	5106305.2L		Clamping plate for 5806301	6301701	
Fuse module, 3-Pole	5106305.3		Terminal bar for 5806301	6301701.3	
Fuse module, 3-Pole w/neon lamp indicator	5106305.3L				

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URZ - 10x38mm

Rated Voltage

Rated Breaking Test

Class

Standard(s)


 $[U_n]$
 600V_{AC}

 Capacity
 200kA

 Voltage
 600V_{AC}

aR

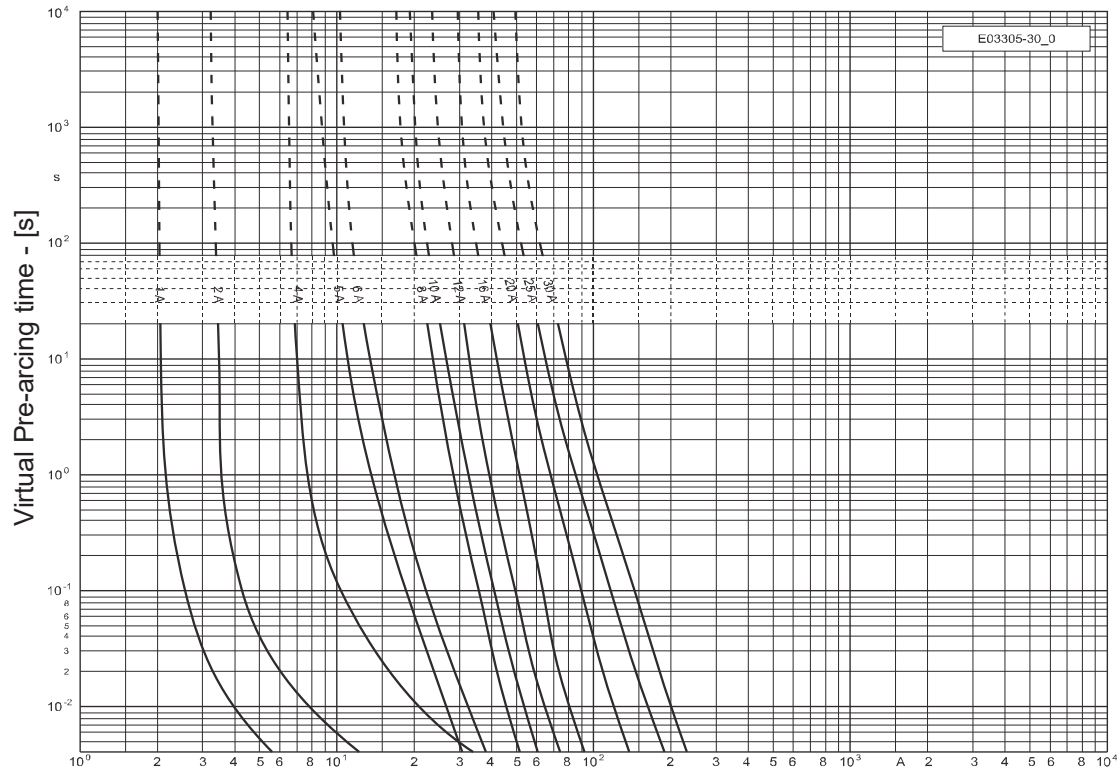
UL 248-13

IEC 60 269-4

VDE 0636-40

UL File E180276

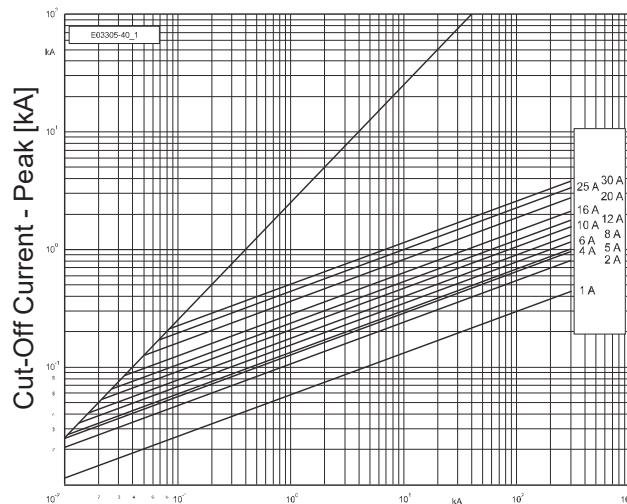
Time-Current Characteristics



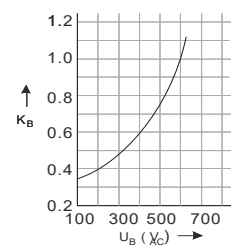
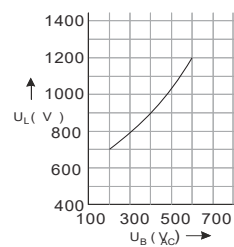
R.M.S. Prospective Current [A]

Full size graphs available upon request

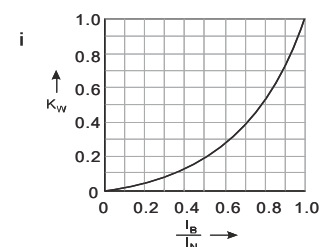
Cut-Off Current Characteristics


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

Correction Curves

Arc Voltage-Diagram Reduction factor for total i^2t -value

Reduction factor for power Loss



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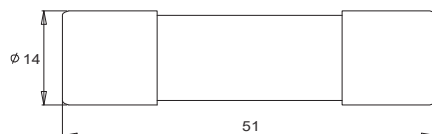
URZ - 14x51mm	Rated Voltage [U _n] 600V _{AC} 500V _{AC} - 50A	Rated Breaking Test Capacity 100kA	Class aR	Standard(s) IEC 60 269-4 DIN EN 60269-4 VDE 0636-4 acc. to UL 248-13
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Rated current I _n [A]	Without indicator Article Number	With striker Article Number		Pre-arcing I ² t [A ² s]	Total I ² t @500V _{AC} [A ² s]	Power loss [W]
6	5005806.6	5005906.6		3	18	1.3
8	5005806.8	5005906.8		5	27	1.7
10	5005806.10	5005906.10		8	48	2.4
12	5005806.12	5005906.12		12	93	2.1
16	5005806.16	5005906.16		21	150	4.0
20	5005806.20	5005906.20		32	250	4.6
25	5005806.25	5005906.25		63	400	6.4
32	5005806.32	5005906.32		104	680	8.2
40	5005806.40	5005906.40		140	1 200	9.1
50	5005806.50 ¹	5005906.50 ¹		230	1 600	12

Weight [kg / 1]	1 - 500V _{AC}
0.02	
Units per Package	
10	

Coefficients for Heavy Duty Applications

a	A2	B1 _{max}	B2	Cf3
170	0.6	1.25	0.6	0.8



5005806



5005906



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse module, 1-Pole	5105805.1	560	Fuse clips PCB mounting	5805806	563
Fuse module, 1-Pole w/neon lamp indicator	5105805.1L		Fuse clips screw mounting	6100101.2	
Fuse module, 1-Pole w/ microswitch	5105805.1S		Clamping plate for 5805806	6301701	
Fuse module, 2-Pole	5105805.2				
Fuse module, 2-Pole w/neon lamp indicator	5105805.2L				
Fuse module, 2-Pole w/ microswitch	5105805.2S				
Fuse module, 3-Pole	5105805.3				
Fuse module, 3-Pole w/neon lamp indicator	5105805.3L				
Fuse module, 3-Pole w/ microswitch	5105805.3S				

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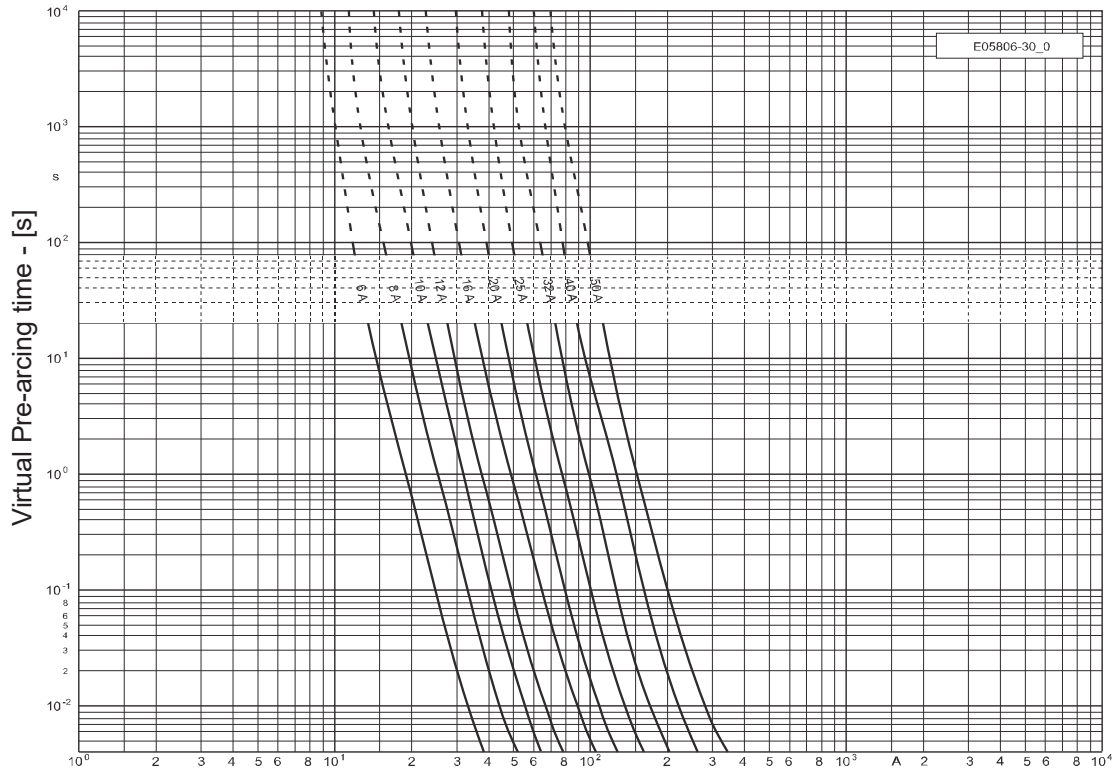
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portal: www.siballc.nete-mail: info@sibafuse.com

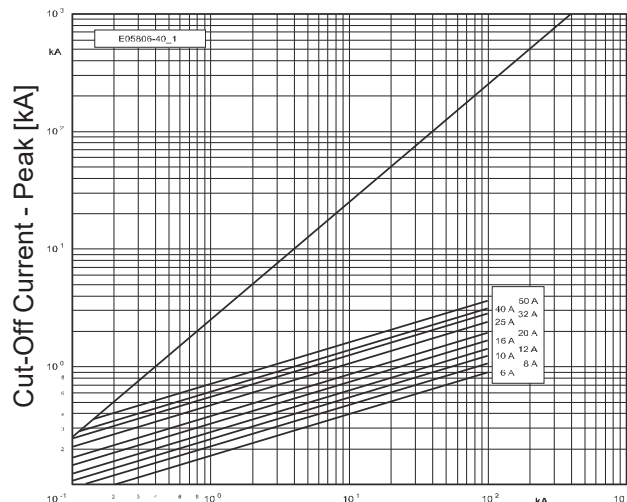
URZ - 14x51mm	Rated Voltage [U _n]	Rated Breaking Test Capacity	Class aR	Standard(s)
	600V _{AC} 500V _{AC} - 50A	100kA		IEC 60 269-4 DIN EN 60269-4 VDE 0636-4 acc. to UL 248-13

Time-Current Characteristics



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

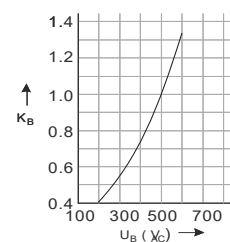
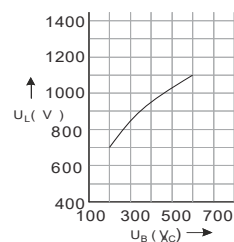
Cut-Off Current Characteristics



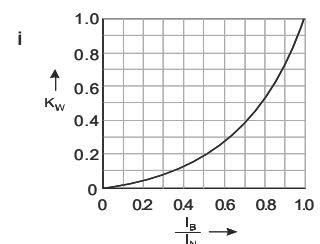
Prospective Short Circuit Current [kA]
(Symmetrical r.m.s.)

Correction Curves

Arc Voltage-Diagram Reduction factor for total i^2t -value



Reduction factor for power Loss



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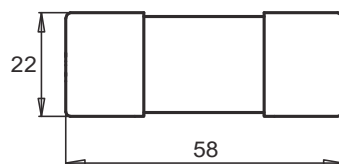
portal: www.siballc.net
e-mail: info@sibafuse.com

URZ - 22x58mm	Rated Voltage [U _n] 600V _{AC}	Rated Breaking Test Capacity 100kA	Class aR	Standard(s) IEC 60 269-4 DIN EN 60269-4 VDE 0636-4 acc. to UL 248-13
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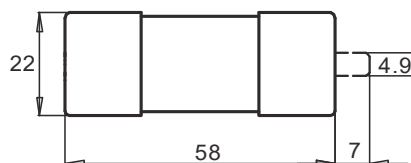
Rated current I _n [A]	Without indicator Article Number	With striker Article Number		Pre-arcing I ² t [A ² s]	Total I ² t @ 500V _{AC} [A ² s]	Power loss [W]
12	5006006.12	5006106.12		16	93	2.1
16	5006006.16	5006106.16		21	170	3.6
20	5006006.20	5006106.20		32	250	4.6
25	5006006.25	5006106.25		63	400	5.3
32	5006006.32	5006106.32		104	730	8.2
40	5006006.40	5006106.40		140	1 000	8.6
50	5006006.50	5006106.50		230	1 800	11
63	5006006.63	5006106.63		350	2 600	15
80	5006006.80	5006106.80		740	5 000	18
100	5006006.100	5006106.100		1 400	10 000	20
Weight [kg / 1]						
0.06						

Coefficients for Heavy Duty Applications

a	A2	B1 _{max}	B2	Cf3
170	0.6	1.25	0.6	0.8



5006006



5006106

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse module, 1-Pole	5106005.1	561	Fuse clips screw mounting	6100201.3	564
Fuse module, 1-Pole w/neon lamp indicator	5106005.1L		Clamping plate for 61002 01.3	6300201	
Fuse module, 1-Pole w/ microswitch	5106005.1S		Terminal link for 6100201.3	6100201.4	
Fuse module, 2-Pole	5106005.2		Fuse clips PCB mounting	5806006	
Fuse module, 2-Pole w/neon lamp indicator	5106005.2L				
Fuse module, 2-Pole w/ microswitch	5106005.2S				
Fuse module, 3-Pole	5106005.3				
Fuse module, 3-Pole w/neon lamp indicator	5106005.3L				
Fuse module, 3-Pole w/ microswitch	5106005.3S				

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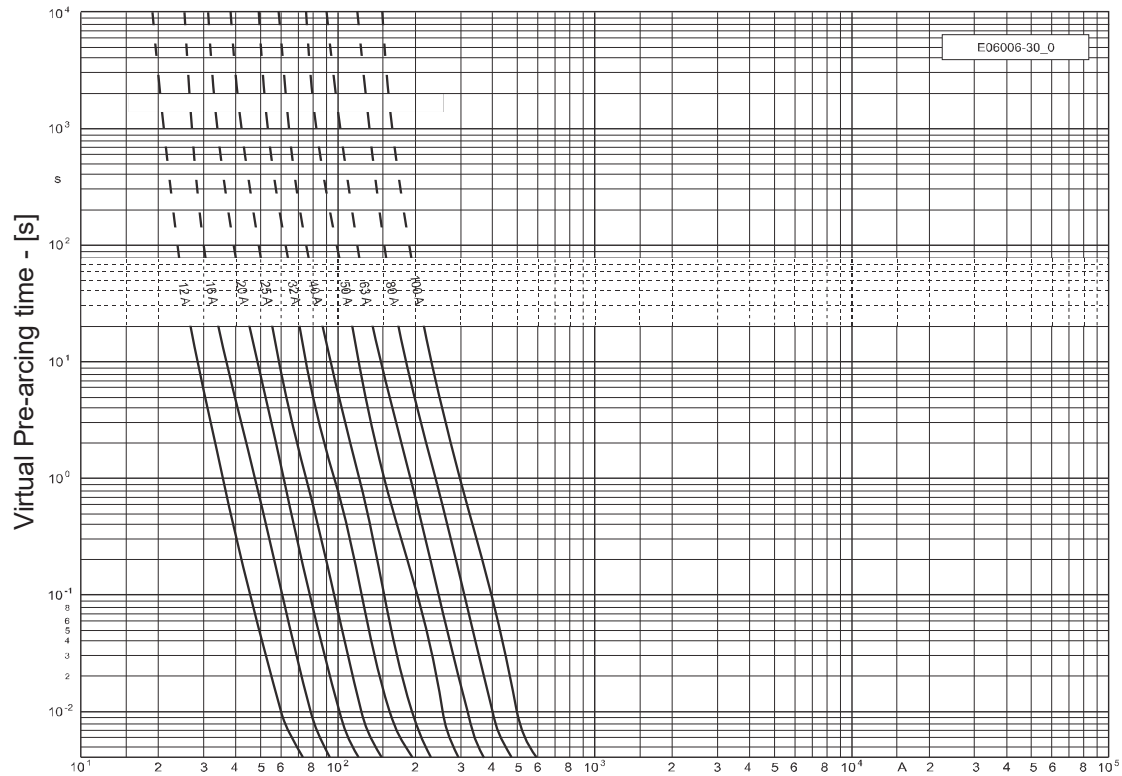
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URZ - 22x58mm	Rated Voltage [U _n] 600V _{AC}	Rated Breaking Test Capacity 100kA	Class aR	Standard(s) IEC 60 269-4 DIN EN 60269-4 VDE 0636-4 acc. to UL 248-13
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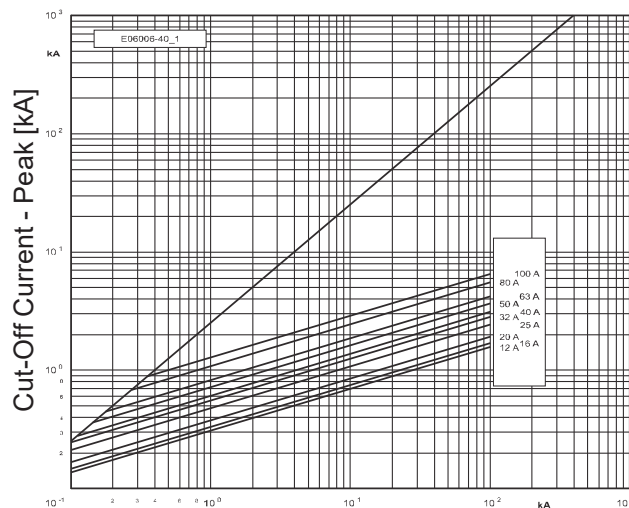
Time-Current Characteristics



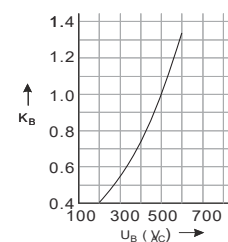
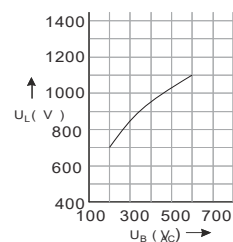
R.M.S. Prospective Current [A]

Full size graphs available upon request

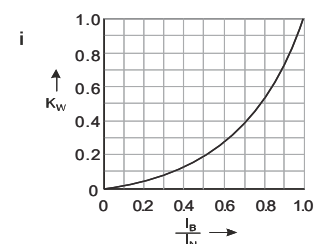
Cut-Off Current Characteristics

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

Correction Curves

Arc Voltage-Diagram Reduction factor for total i^2t -value

Reduction factor for power Loss



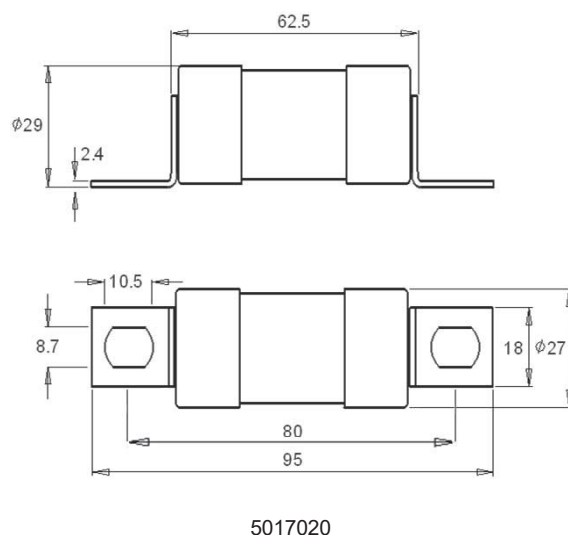
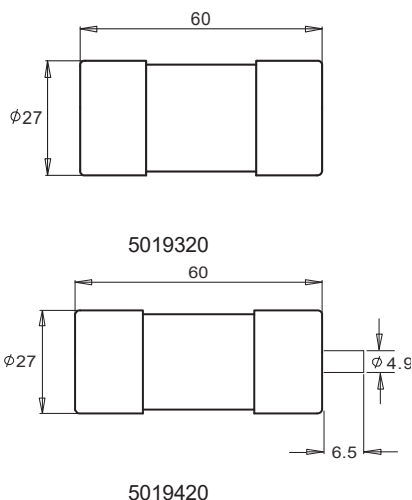
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URZ - 27x60mm	Rated Voltage [U _n] 660V _{AC}	Rated Breaking Test Capacity 200kA	Class aR	Standard(s) IEC 60 269-4 VDE 0636-40
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Rated current I _n [A]	Without indicator Article Number	With striker Article Number	Without indicator 80mm Article Number		Pre-arcing I ² t [A ² s]	Total I ² t @ 660V _{AC} [A ² s]	Power loss [W]
20	5019320.20	5019420.20	5017020.20		17	100	8
25	5019320.25	5019420.25	5017020.25		30	180	9
32	5019320.32	5019420.32	5017020.32		67	400	10
40	5019320.40	5019420.40	5017020.40		90	550	13
50	5019320.50	5019420.50	5017020.50		150	900	15
63	5019320.63	5019420.63	5017020.63		330	2 000	16
80	5019320.80	5019420.80	5017020.80		570	2 900	22
100	5019320.100	5019420.100	5017020.10		850	5 400	25
125	5019320.125	5019420.125	5017020.125		1 310	7 900	30
160	5019320.160	5019420.160	5017020.160		2 950	17 700	32
200	5019320.200	5019420.200	5017020.200		5 000	30 000	37
250	5019320.250	5019420.250	5017020.250		8 100	49 000	43
Weight [kg / 1]							
0.10							

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

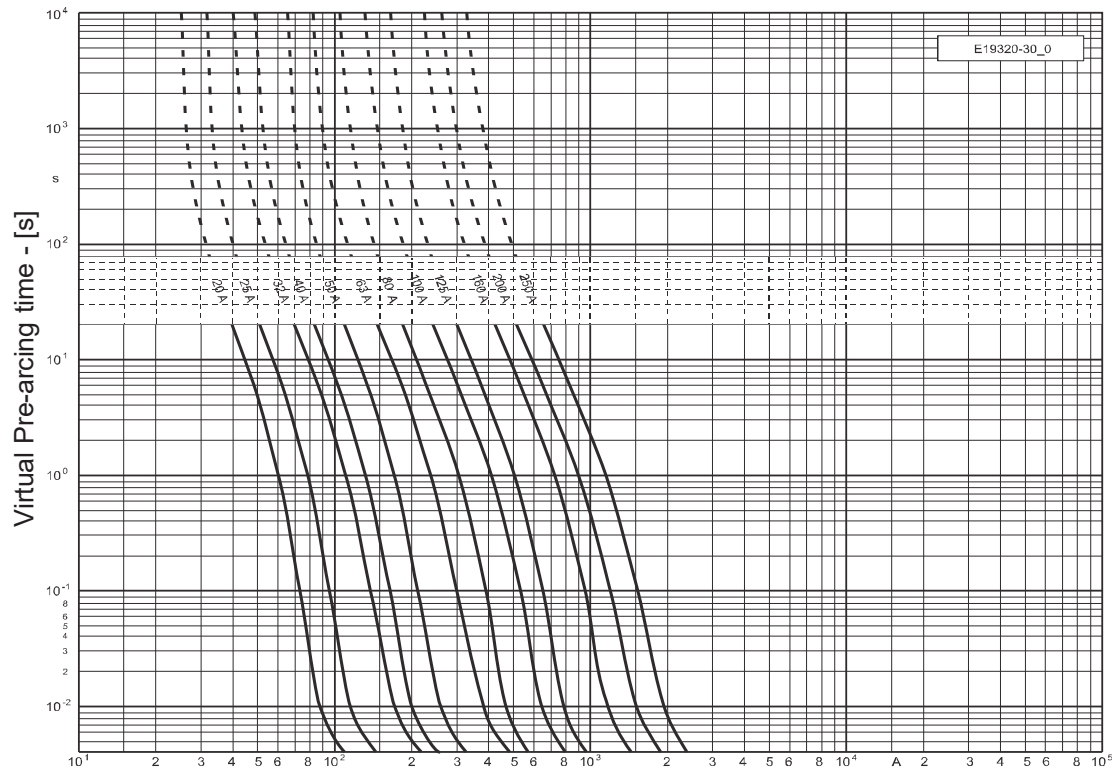


Accessories

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

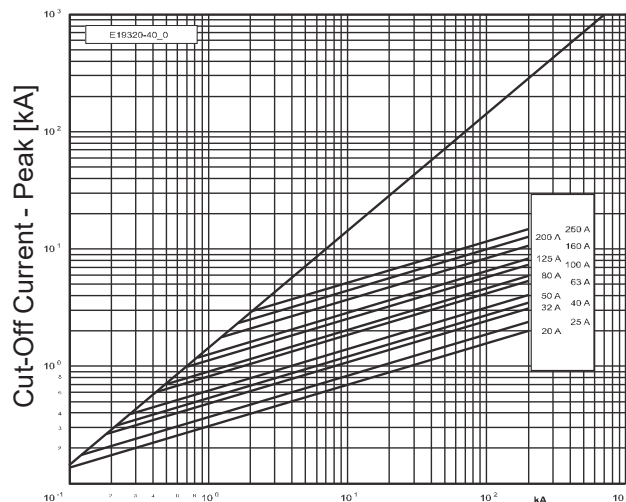
URZ - 27x60mm	Rated Voltage [U _n] 660V _{AC}	Rated Breaking Test Capacity 200kA	Class aR	Standard(s) IEC 60 269-4 VDE 0636-40
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Time-Current Characteristics



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

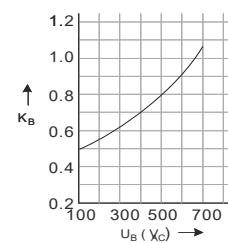
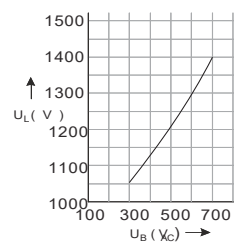
Cut-Off Current Characteristics



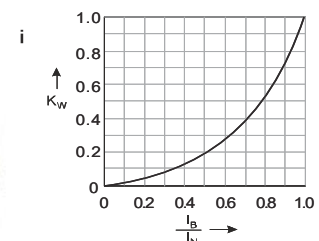
Prospective Short Circuit Current [kA]
(Symmetrical r.m.s.)

Correction Curves

Arc Voltage-Diagram Reduction factor for total i^2t -value



Reduction factor for power Loss



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URZ - 27x60mm



UL File E180276

Rated Voltage

[U_n]660V_{DC} - UL660V_{DC} - IEC440V_{DC} - IEC

Rated Breaking Test

Capacity

30kA @ L/R=10ms

30kA @ L/R=10ms

Voltage

660V_{DC} I_n ≤ 110A440V_{DC} I_n ≥ 125A

Class

gR

Standard(s)

UL 248-13

IEC 60 269-4

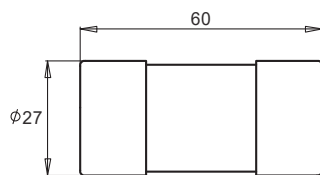
DIN EN 60269-4

VDE 0636-4

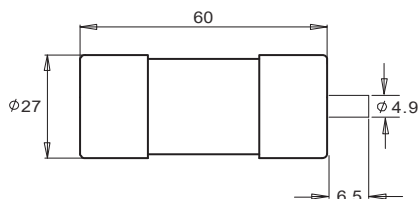
Rated current I _n [A]	Without indicator Article Number	UL rec	With striker Article Number	Without indicator 80mm Article Number	UL rec	Pre-arcing I ² t [A ² s]	Total* I ² t @ 660V _{DC} [A ² s]	Power loss [W]
8	5019006.8	✓	5019106.8	5019206.8	✓	4	20	2.0
10	5019006.10	✓	5019106.10	5019206.10	✓	8	40	2.2
12	5019006.12	✓	5019106.12	5019206.12	✓	12	60	2.7
16	5019006.16	✓	5019106.16	5019206.16	✓	32	160	3.1
20	5019006.20	✓	5019106.20	5019206.20	✓	62	310	3.5
25	5019006.25	✓	5019106.25	5019206.25	✓	130	650	3.9
32	5019006.32	✓	5019106.32	5019206.32	✓	250	1 250	4.6
40	5019006.40	✓	5019106.40	5019206.40	✓	420	2 100	6.6
50	5019006.50	✓	5019106.50	5019206.50	✓	620	3 100	7.5
63	5019006.63	✓	5019106.63	5019206.63	✓	1 200	6 000	8.9
80	5019006.80	✓	5019106.80	5019206.80	✓	2 100	10 500	10.9
100	5019006.100	✓	5019106.100	5019206.100	✓	3 500	17 500	13.5
110	5019006.110	✓	5019106.110	5019206.110	✓	4 600	23 000	14.2
125	5019006.125 ¹	—	5019106.125 ¹	5019206.125 ¹	—	7 800	29 600	16.0
160	5019006.160 ¹	—	5019106.160 ¹	5019206.160 ¹	—	11 800	44 900	19.0
Weight [kg / 1]						¹ 440 _{ADC}		
0.06				0.11				*L/R=10ms

Coefficients for Heavy Duty Applications

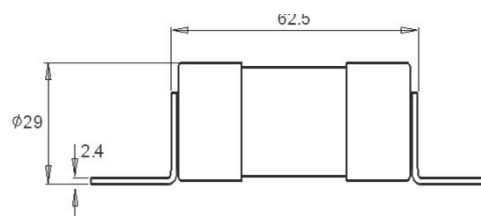
a	A2	B1 _{max}	B2	Cf3
130	0.6	1.25	0.6	0.8



5019006



5019106



5019206

Accessories

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

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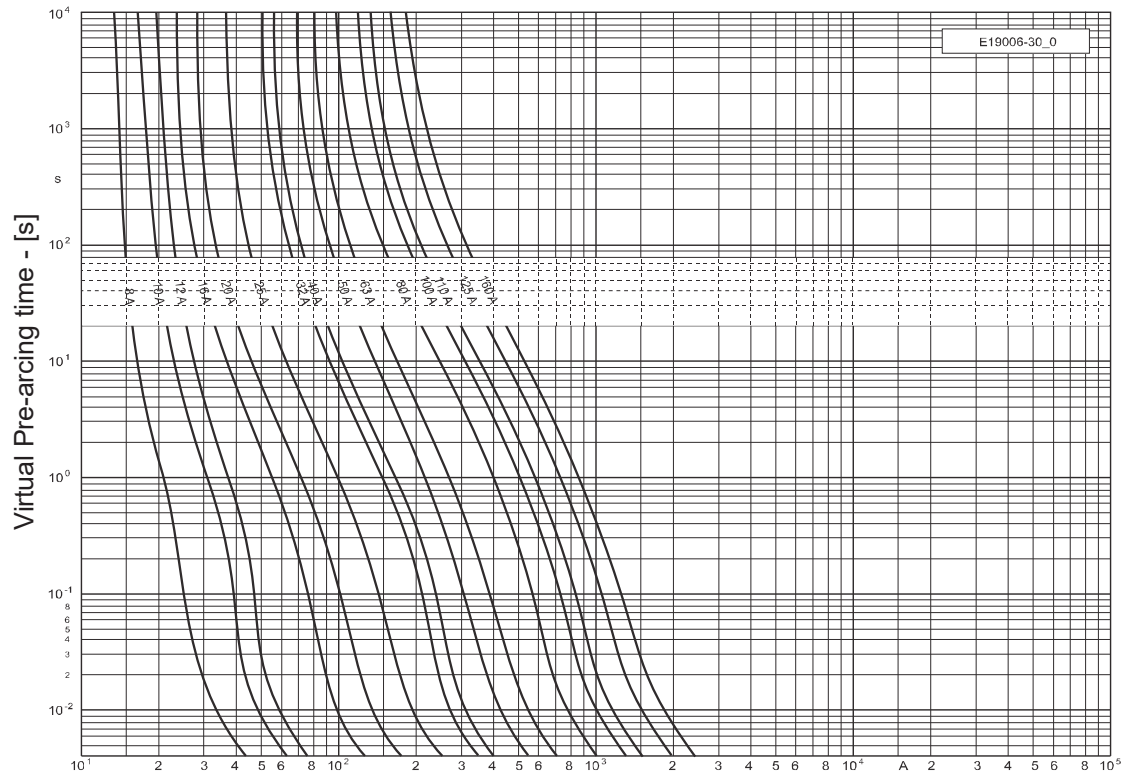
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URZ - 27x60mm	Rated Voltage [U _n]	Rated Breaking Test Capacity	Class gR	Standard(s)
	660V _{DC} - UL	30kA @ L/R=10ms	660V _{DC} I _n ≤ 110A	UL 248-13
	660V _{DC} - IEC			IEC 60 269-4
	UL File E180276	440V _{DC} - IEC	30kA @ L/R=10ms	440V _{DC} I _n ≥ 125A

Time-Current Characteristics

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

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URZ - 14x51mm

Rated Voltage

Rated Breaking Test

Class

Standard(s)

[U_n]

Capacity

Voltage

gR

UL 248-13

700V_{AC} - UL

200kA

660V_{AC}

IEC 60 269-4

690V_{AC} - IEC

VDE 0636-40

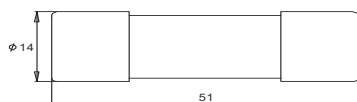
UL File E180276

Rated current I _n [A]	Without indicator Article Number	UL rec	With striker Article Number	UL rec	Without indicator 63mm Article Number	UL rec	Pre-arcing I ² t [A ² s]	Total I ² t @ 660V _{AC} [A ² s]	Power loss [W]
1	5012406.1	—	5012606.1	—	5012906.1	—	0.6	1.9	0.5
2	5012406.2	—	5012606.2	—	5012906.2	—	2.6	7.7	1.7
3	5012406.3	—	5012606.3	—	5012906.3	—	5.0	15	1.5
4	5012406.4	—	5012606.4	—	5012906.4	—	10	30	2'0
6	5012406.6	✓	5012606.6	✓	5012906.6	✓	2.9	18	1.3
8	5012406.8	✓	5012606.8	✓	5012906.8	✓	5.1	28	1.7
10	5012406.10	✓	5012606.10	✓	5012906.10	✓	7.7	39	2.6
12	5012406.12	✓	5012606.12	✓	5012906.12	✓	8.1	75	3.1
16	5012406.16	✓	5012606.16	✓	5012906.16	✓	11	150	4.7
20	5012406.20	✓	5012606.20	✓	5012906.20	✓	21	190	6.0
25	5012406.25	✓	5012606.25	✓	5012906.25	✓	32	340	7.6
32	5012406.32	✓	5012606.32	✓	5012906.32	✓	63	620	9.5
40	5012406.40	✓	5012606.40	✓	5012906.40	✓	140	1 050	10
50	5012406.50	✓	5012606.50	✓	5012906.50	✓	250	1 900	12
Weight [kg/1]									
0.02		0.02		0.02					



Coefficients for Heavy Duty Applications

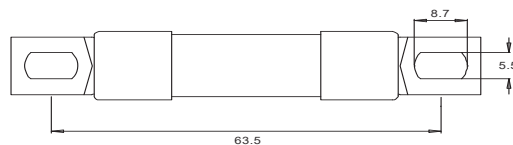
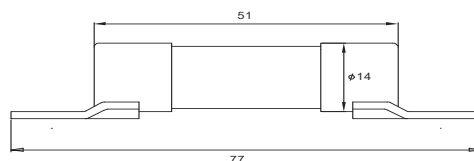
a	A2	B1 _{max}	B2	Cf3
170	0.6	1.25	0.6	0.8



5012406



5012606



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse module, 1-Pole	5105805.1	560	Fuse clips PCB mounting	5805806	563
Fuse module, 1-Pole w/neon lamp indicator	5105805.1L		Fuse clips screw mounting	6100101.2	
Fuse module, 1-Pole w/ microswitch	5105805.1S		Clamping plate for 5805806	6301701	
Fuse module, 2-Pole	5105805.2				
Fuse module, 2-Pole w/neon lamp indicator	5105805.2L				
Fuse module, 2-Pole w/ microswitch	5105805.2S				
Fuse module, 3-Pole	5105805.3				
Fuse module, 3-Pole w/neon lamp indicator	5105805.3L				
Fuse module, 3-Pole w/ microswitch	5105805.3S				

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URZ - 14x51mm



UL File E180276

Rated Voltage

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

Rated Breaking Test

Capacity

200kA

Voltage

660V_{AC}

Class

gR

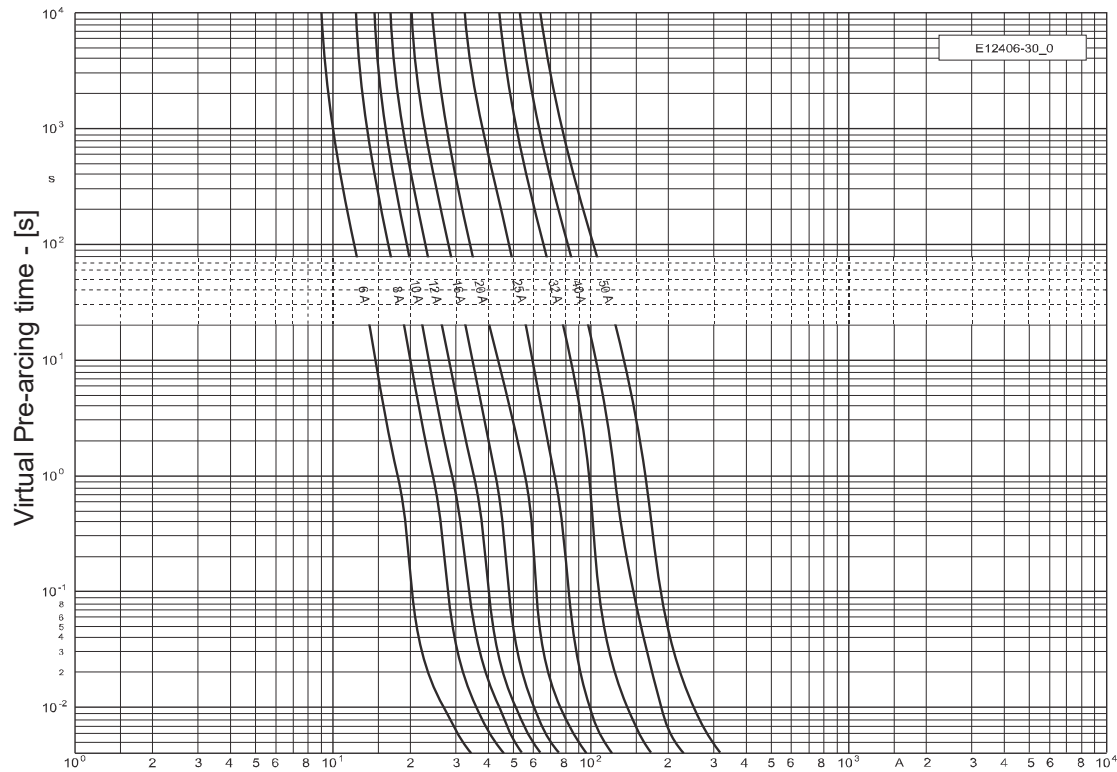
Standard(s)

UL 248-13

IEC 60 269-4

VDE 0636-40

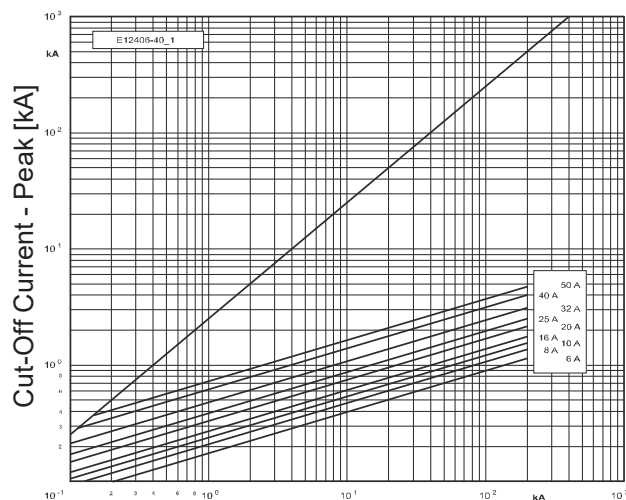
Time-Current Characteristics



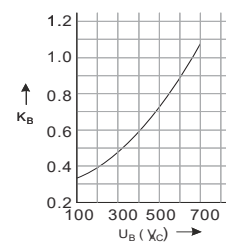
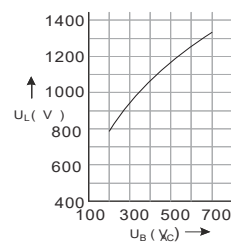
R.M.S. Prospective Current [A]

Full size graphs available upon request

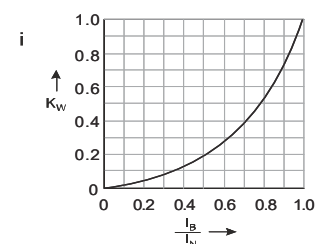
Cut-Off Current Characteristics

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

Correction Curves

Arc Voltage-Diagram Reduction factor for total i^2t -value

Reduction factor for power Loss



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URZ - 14x51mm



Rated Voltage

[U_n]700V_{AC} - UL
690V_{AC} - IEC

Rated Breaking Test

Capacity

200kA

Voltage

690V_{AC}

Class

gRL
(gS)

Standard(s)

UL 248-13
IEC 60 269-4
VDE 0636-40

UL File E180276

440V_{DC}

30kA @ L/R=30ms

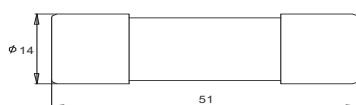
440V_{DC}

Rated current I _n [A]	Without indicator Article Number	UL rec	With striker Article Number	UL rec	Without Total indicator 63mm Article Number	UL rec	Pre-arcing I ² t [A ² s]	I ² t @ 690V _{AC} [A ² s]	Total* I ² t @ 440V _{DC} [A ² s]	Power loss [W]
10	5012434.10	✓	5012634.10	✓	5012934.10	✓	8	60	70	1.9
12	5012434.12	✓	5012634.12	✓	5012934.12	✓	12	90	105	2.3
16	5012434.16	✓	5012634.16	✓	5012934.16	✓	25	190	210	2.8
20	5012434.20	✓	5012634.20	✓	5012934.20	✓	46	340	400	3.0
25	5012434.25	✓	5012634.25	✓	5012934.25	✓	100	740	850	3.2
30	5012434.30	✓	5012634.30	✓	5012934.30	✓	190	1 400	1 000	3.8
32	5012434.32	✓	5012634.32	✓	5012934.32	✓	250	1 900	2 100	4.0
35	5012434.35	✓	5012634.35	✓	5012934.35	✓	370	2 800	3 150	4.2
40	5012434.40	✓	5012634.40	✓	5012934.40	✓	420	3 100	3 600	4.4
Weight [kg/1]										*L/R = 30ms
0.03		0.03		0.03						

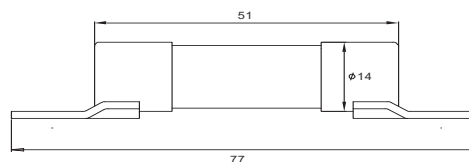


Coefficients for Heavy Duty Applications

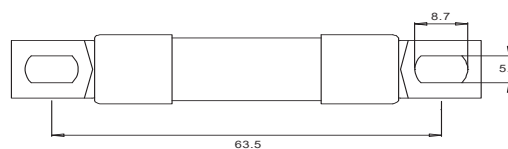
a	A2	B1 _{max}	B2	Cf3
130	1.0	1.25	0.5	0.8



5012434



5012634



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse module, 1-Pole	5105805.1	560	Fuse clips PCB mounting	5805806	563
Fuse module, 1-Pole w/neon lamp indicator	5105805.1L		Fuse clips screw mounting	6100101.2	
Fuse module, 1-Pole w/ microswitch	5105805.1S		Clamping plate for 5805806	6301701	
Fuse module, 2-Pole	5105805.2				
Fuse module, 2-Pole w/neon lamp indicator	5105805.2L				
Fuse module, 2-Pole w/ microswitch	5105805.2S				
Fuse module, 3-Pole	5105805.3				
Fuse module, 3-Pole w/neon lamp indicator	5105805.3L				
Fuse module, 3-Pole w/ microswitch	5105805.3S				

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URZ - 14x51mm



UL File E180276

Rated Voltage

[U_n]700V_{AC} - UL690V_{AC} - IEC440V_{DC}

Rated Breaking Test

Capacity

200kA

30kA @ L/R=30ms

Voltage

690V_{AC}440V_{DC}

Class

gRL
(gS)

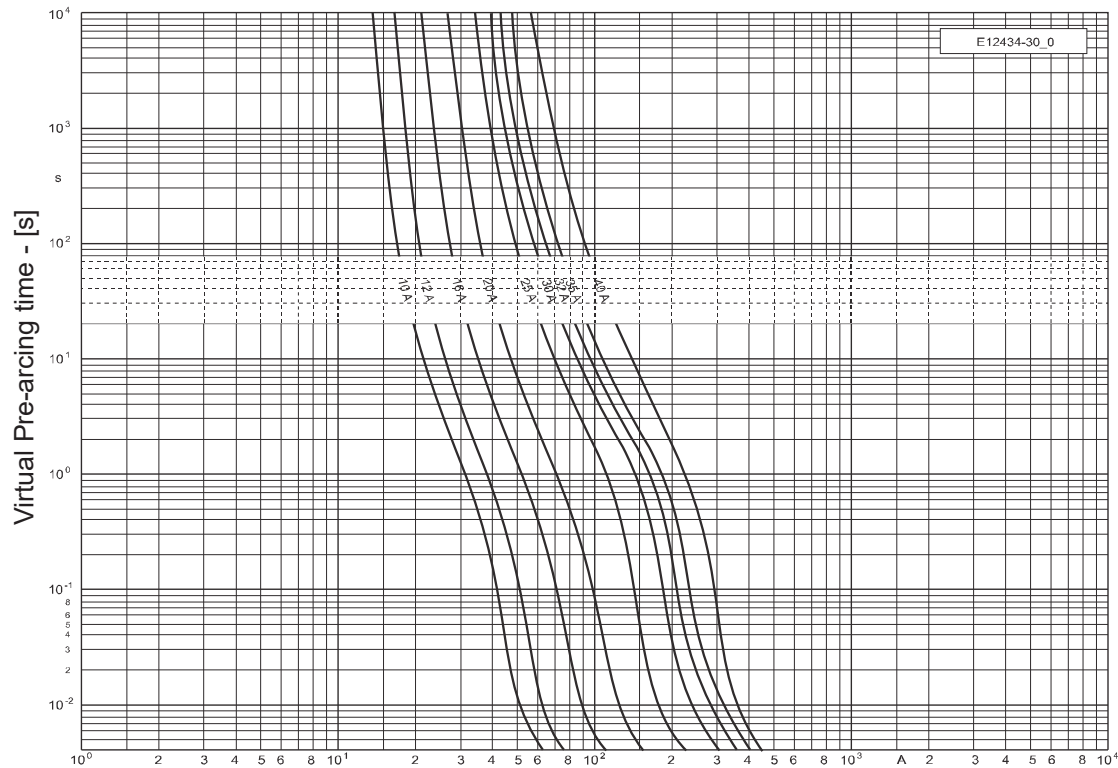
Standard(s)

UL 248-13

IEC 60 269-4

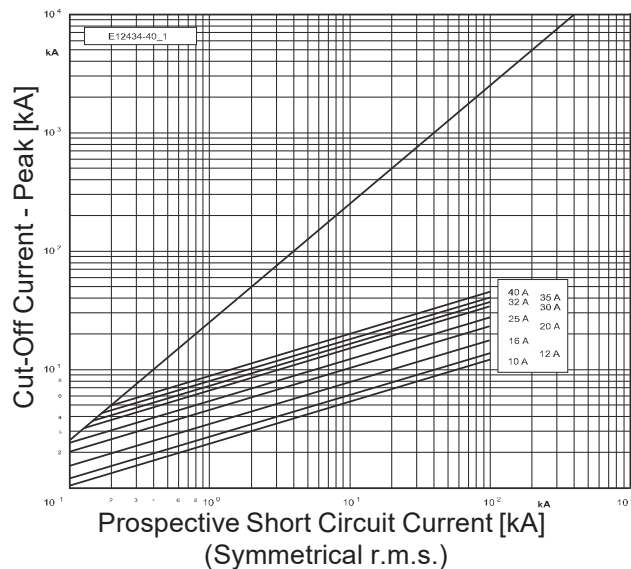
VDE 0636-40

Time-Current Characteristics



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

Cut-Off Current Characteristics



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URZ - 22x58mm



Rated Voltage

[U_n]700V_{AC} - UL
690V_{AC} - IEC

Rated Breaking Test

Capacity

200kA

Voltage

660V_{AC}

Class Standard(s)

gR≤100A UL 248-13

aR≥125A IEC 60 269-4

DIN EN 60269-4

VDE 0636-4

UL File E180276

Rated current I _n [A]	Without indicator Article Number	UL rec	With striker Article Number	UL rec	Without indicator 80mm Article Number	UL rec	Pre-arcing I ² t [A ² s]	Total I ² t @ 660V _{AC} [A ² s]	Power loss [W]
6	5014006.6	✓	5014206.6	✓	5014506.6	✓	2	10	3.0
8	5014006.8	✓	5014206.8	✓	5014506.8	✓	4	20	3.5
10	5014006.10	✓	5014206.10	✓	5014506.10	✓	6	30	4.0
12	5014006.12	✓	5014206.12	✓	5014506.12	✓	8	35	4.8
16	5014006.16	✓	5014206.16	✓	5014506.16	✓	12	53	5.5
20	5014006.20	✓	5014206.20	✓	5014506.20	✓	21	91	6.0
25	5014006.25	✓	5014206.25	✓	5014506.25	✓	32	140	7.2
32	5014006.32	✓	5014206.32	✓	5014506.32	✓	63	315	9.6
40	5014006.40	✓	5014206.40	✓	5014506.40	✓	140	610	12
50	5014006.50	✓	5014206.50	✓	5014506.50	✓	210	910	15
63	5014006.63	✓	5014206.63	✓	5014506.63	✓	510	2 260	16
80	5014006.80	✓	5014206.80	✓	5014506.80	✓	1 000	4 400	18
100	5014006.100	✓	5014206.100	✓	5014506.100	✓	2 050	8 900	19
125*	5014006.125	—	5014206.125	—	5014506.125	—	3 000	22 000	23
135*	5014006.135	—	5014206.135	—	5014506.135	—	3 500	25 000	26

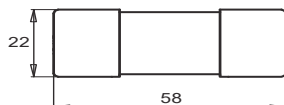
Weight [kg / 1]

0.06

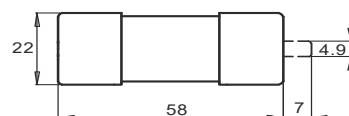
* Power loss limit of base or module must be considered

Coefficients for Heavy Duty Applications

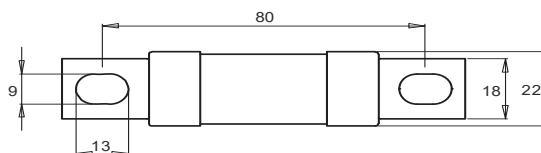
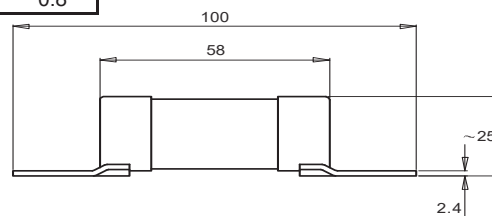
a	A2	B1 _{max}	B2	Cf3
170	0.6	1.25	0.6	0.8



5014006



5014206



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse module, 1-Pole	5106005.1	561	Fuse clips screw mounting	6100201.3	564
Fuse module, 1-Pole w/neon lamp indicator	5106005.1L		Clamping plate for 6100201.3	6300201	
Fuse module, 1-Pole w/ microswitch	5106005.1S		Terminal link for 6100201.3	6100201.4	
Fuse module, 2-Pole	5106005.2		Fuse clips PCB mounting	5806006	
Fuse module, 2-Pole w/neon lamp indicator	5106005.2L				
Fuse module, 2-Pole w/ microswitch	5106005.2S				
Fuse module, 3-Pole	5106005.3				
Fuse module, 3-Pole w/neon lamp indicator	5106005.3L				
Fuse module, 3-Pole w/ microswitch	5106005.3S				

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URZ - 22x58mm



UL File E180276

Rated Voltage

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

Rated Breaking Test

Capacity

200kA

Voltage

660V_{AC}

Class Standard(s)

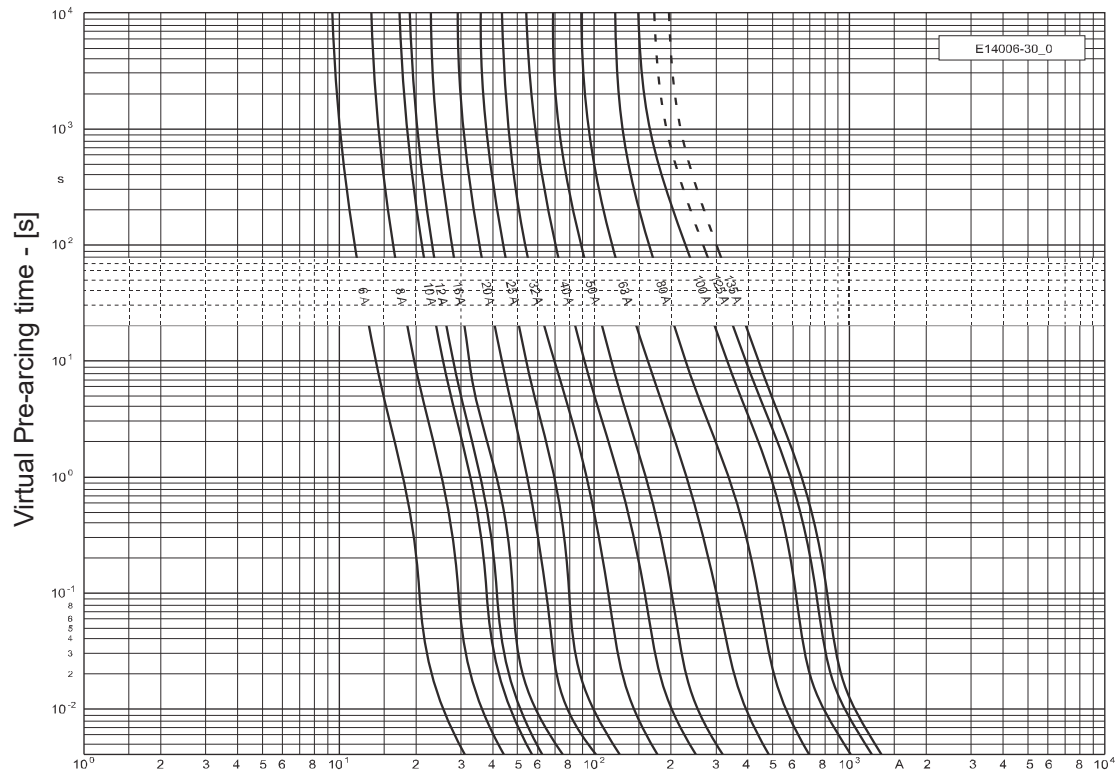
gR≤100A UL 248-13

aR≥125A IEC 60 269-4

DIN EN 60269-4

VDE 0636-4

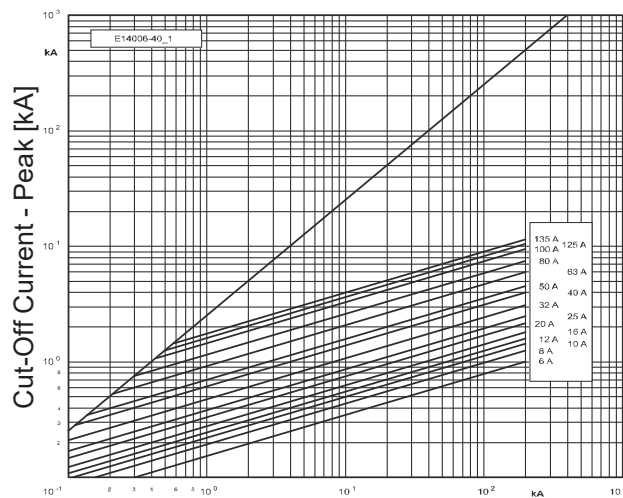
Time-Current Characteristics



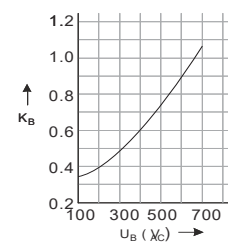
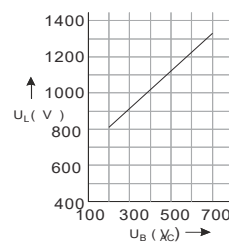
R.M.S. Prospective Current [A]

Full size graphs available upon request

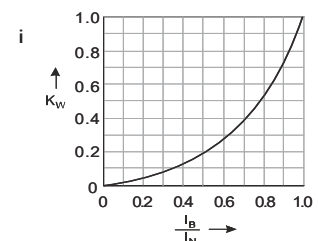
Cut-Off Current Characteristics

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

Correction Curves

Arc Voltage-Diagram Reduction factor for total i²t-value

Reduction factor for power Loss



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URZ - 22x58mm



Rated Voltage

[U_n]700V_{AC} - UL
690V_{AC} - IEC

Rated Breaking Test

Capacity

200kA

Voltage

690V_{AC}

Class

gRL / gS

Standard(s)

UL 248-13

IEC 60269-4

DIN EN 60269-4

UL File E180276

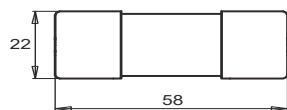
440V_{DC}

30kA @ L/R=30ms

440V_{DC}

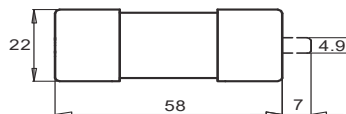
VDE 0636-4

Rated current I _n [A]	Without indicator Article Number	UL rec	With striker Article Number	UL rec	Without indicator 80mm Article Number	UL rec	Without indicator PCB Article Number	UL rec	Pre-arcing I ² t [A ² s]	Total I ² t @ 660V _{AC} [A ² s]	Power loss [W]
25	5014034.25	✓	5014234.25	✓	5014534.25	✓	5014634.25	✓	100	800	3.6
30	5014034.30	✓	5014234.30	✓	5014534.30	✓	5014634.30	✓	190	1 500	4.6
32	5014034.32	✓	5014234.32	✓	5014534.32	✓	5014634.32	✓	250	2 000	4.8
35	5014034.35	✓	5014234.35	✓	5014534.35	✓	5014634.35	✓	370	3 000	5.0
40	5014034.40	✓	5014234.40	✓	5014534.40	✓	5014634.40	✓	420	3 400	5.2
50	5014034.50	✓	5014234.50	✓	5014534.50	✓	5014634.50	✓	870	7 000	5.4
63	5014034.63	✓	5014234.63	✓	5014534.63	✓	5014634.63	✓	1 300	10 500	6.8
80	5014034.80	✓	5014234.80	✓	5014534.80	✓	5014634.80	✓	2 500	20 000	7.5
100	5014034.100	✓	5014234.100	✓	5014534.100	✓	5014634.100	✓	4 600	37 000	9.7
Weight [kg / 1]											0.06

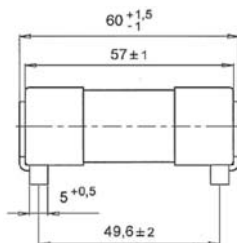
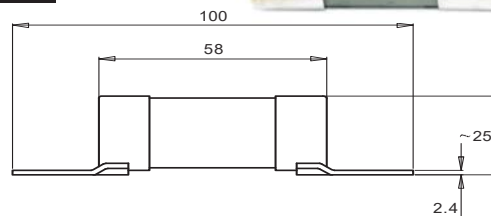


5014034

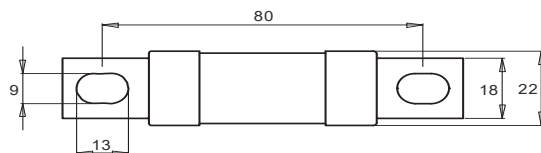
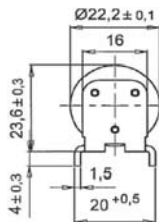
Coefficients for Heavy Duty Applications				
a	A2	B1 _{max}	B2	Cf3
130	1	1.25	0.6	0.8



5014234



5014634



5014534



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse module, 1-Pole	5106005.1	561	Fuse clips screw mounting	6100201.3	564
Fuse module, 1-Pole w/neon lamp indicator	5106005.1L		Clamping plate for 6100201.3	6300201	
Fuse module, 1-Pole w/ microswitch	5106005.1S		Terminal link for 6100201.3	6100201.4	
Fuse module, 2-Pole	5106005.2		Fuse clips PCB mounting	5806006	
Fuse module, 2-Pole w/neon lamp indicator	5106005.2L				
Fuse module, 2-Pole w/ microswitch	5106005.2S				
Fuse module, 3-Pole	5106005.3				
Fuse module, 3-Pole w/neon lamp indicator	5106005.3L				
Fuse module, 3-Pole w/ microswitch	5106005.3S				

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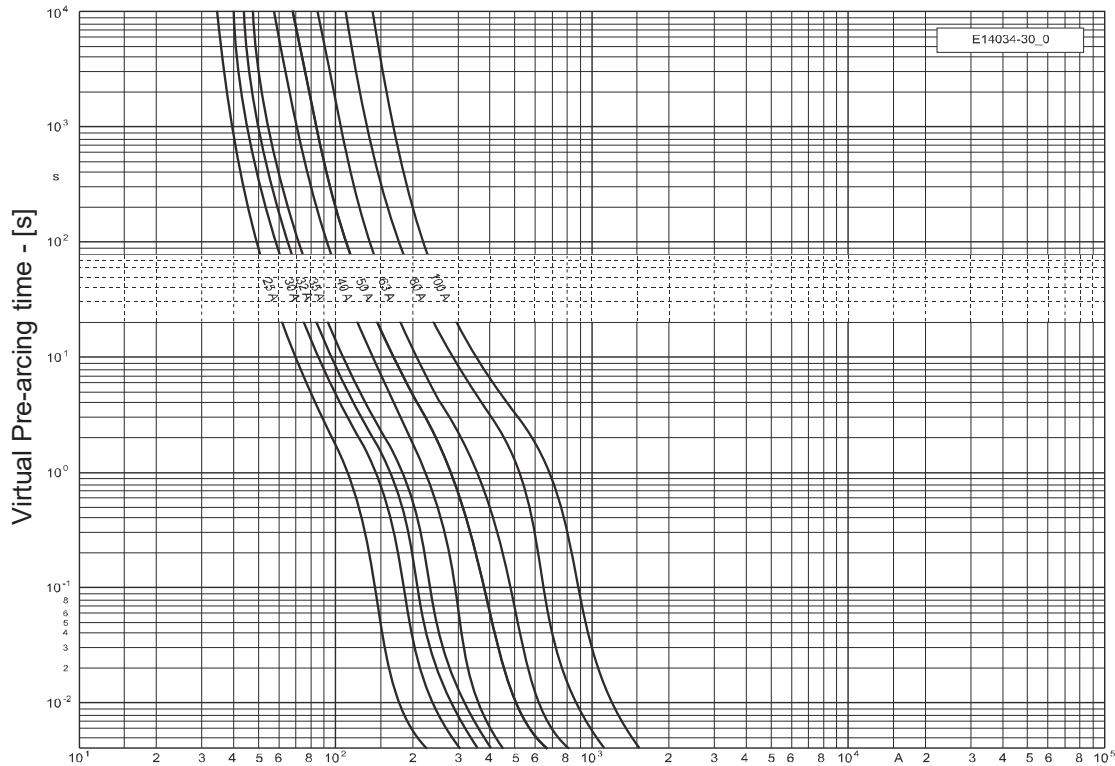
Phone 1-973-575-7422

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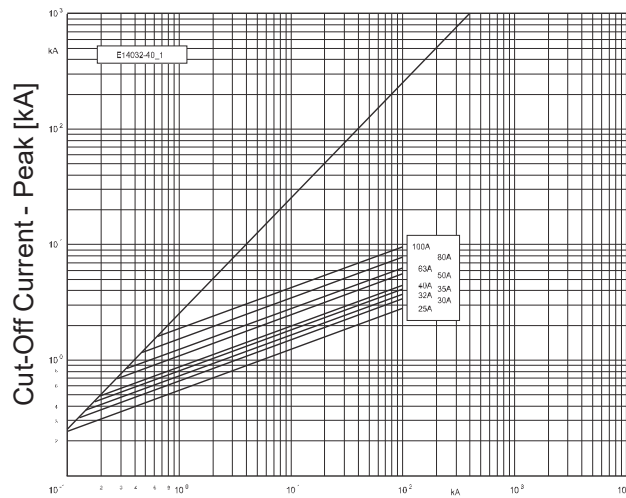
URZ - 22x58mm  UL File E180276	Rated Voltage	Rated Breaking Test	Class	Standard(s)
	[U _n]	Capacity	gRL (gS)	UL 248-13
	700V _{AC} - UL	200kA		IEC 60 269-4
	690V _{AC} - IEC			DIN EN 60269-4
	440V _{DC}	30kA @ L/R=30ms		VDE 0636-4

Time-Current Characteristics



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

Cut-Off Current Characteristics



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



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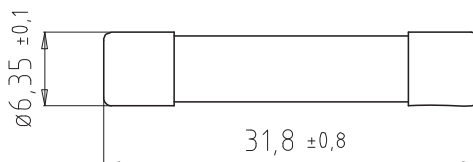
URZ - 6.3x32mm	Rated Voltage	Rated Breaking Test	Class	Standard(s)
	[U _n]	Capacity	FF	UL 248-13
UL File E167295	700V _{AC}	50kA		IEC60 269-4
	600V _{AC}	50kA		DIN VDE 0636-4
	500V _{AC}	50kA		

Rated current I _n [A]	Without indicator Article Number	UL rec	Rated Voltage	Maximum Voltage [mV]	Pre-arcing I ² t [A ² s]	Total I ² t @ 700V _{AC} [A ² s]	Power loss [W]
0.100	7012540.0.100	✓	700V _{AC}	2 500	0.0009	0.003	0.3
0.125	7012540.0.125	✓	700V _{AC}	2 200	0.0017	0.006	0.3
0.160	7012540.0.160	✓	700V _{AC}	2 000	0.004	0.014	0.4
0.200	7012540.0.200	✓	700V _{AC}	900	0.01	0.035	0.2
0.250	7012540.0.250	✓	700V _{AC}	800	0.02	0.08	0.2
0.315	7012540.0.315	✓	700V _{AC}	700	0.04	0.14	0.3
0.400	7012540.0.400	✓	700V _{AC}	650	0.07	0.25	0.3
0.500	7012540.0.500	✓	700V _{AC}	650	0.12	0.48	0.4
0.630	7012540.0.630	✓	700V _{AC}	650	0.15	0.5	0.5
0.800	7012540.0.800	✓	700V _{AC}	600	0.23	0.8	0.5
1	7012540.1	✓	700V _{AC}	750	0.32	1.1	0.8
1.25	7012540.1.25	✓	700V _{AC}	700	0.20	0.8	0.9
1.6	7012540.1.6	✓	700V _{AC}	650	0.31	1.2	1.1
2	7012540.2	✓	700V _{AC}	650	0.64	2.6	1.4
2.5	7012540.2.5	✓	600V _{AC}	550	1.2	4	1.4
3.15	7012540.3.15	✓	600V _{AC}	500	2	7	1.6
4	7012540.4	✓	600V _{AC}	450	5	20	1.8
5	7012540.5	✓	600V _{AC}	400	10	40	2.0
6.3	7012540.6.3	✓	600V _{AC}	400	3	15	4
8*	7012540.8	✓	600V _{AC}	350	6.5	35	4.5
10*	7012540.10	✓	600V _{AC}	350	12	60	5
12.5*	7012540.12.15	✓	500V _{AC}	300	18	80	7
16*	7012540.16	✓	500V _{AC}	300	31	140	9
20*	7012540.20	✓	500V _{AC}	300	46	200	11
25*	7012540.25	✓	500V _{AC}	230	87	370	11

Weight [kg / 1]

0.002

* Consideration should be given for heat dissipation



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse Clips PCB	199429	563	Press on cap leads, 12.5A maximum	204100	565
			Press on cap leads, 20A maximum	204101	

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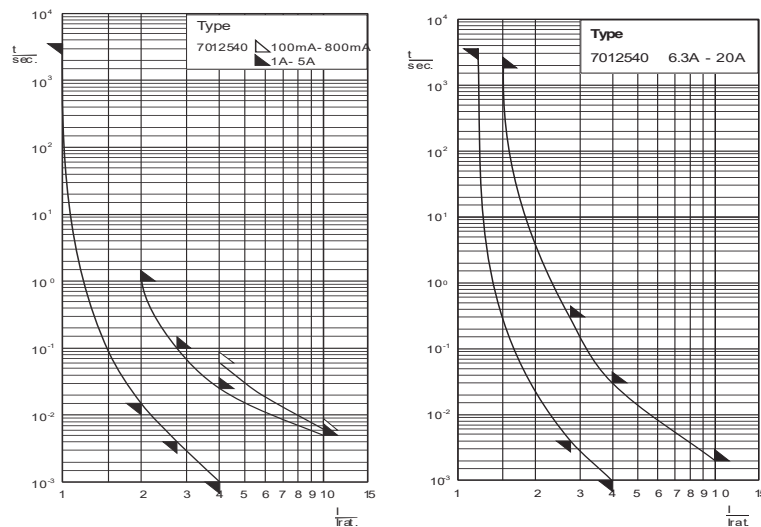
URZ - 6.3x32mm	Rated Voltage [U _n]	Rated Breaking Test Capacity	Class FF	Standard(s)
UL File E167295	700V _{AC}	50kA		UL 248-13
	600V _{AC}	50kA		IEC60 269-4
	500V _{AC}	50kA		DIN VDE 0636-4

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

Fusing Time Limits

Rated Current	1.0I _n	1.2I _n	2.75I _n	4I _n	10I _n
100mA A 800mA	> 1hr	—	—	< 60ms	< 6ms
1A A 5A	> 1hr	—	4ms A 100ms	1ms A 25ms	< 5ms
6.3A A 20A	—	> 1hr	4ms A 300ms	1ms A 30ms	< 2ms

Normalized Current, Time-Current Characteristics



URZ - 10x38mm



Rated Voltage

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

Rated Breaking Test

Capacity

200kA

Voltage

660V_{AC}

Class

gR

Standard(s)

UL 248-13

IEC 60 269-4

DIN EN 60269-4

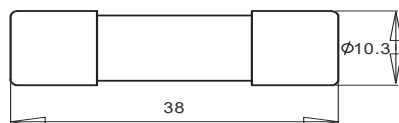
DIN VDE 0636-4

UL File E180276

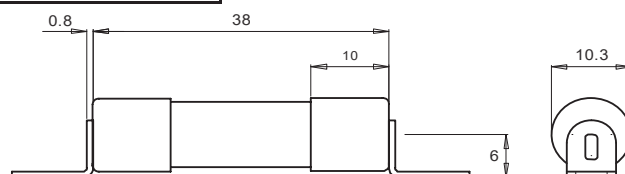
Rated current I _n [A]	Without indicator Article Number	UL rec	Without indicator 50.6mm Article Number	UL rec	Without indicator PCB Article Number	UL rec		Pre-arcing I ² t [A ² s]	Total I ² t @ 660V _{AC} [A ² s]	Power loss [W]
1	5017906.1	✓	5018006.1	✓	5018106.1	✓		0.13	1.6	1.0
2	5017906.2	✓	5018006.2	✓	5018106.2	✓		0.64	8.0	1.8
3	5017906.3	✓	5018006.3	✓	5018106.3	✓		2.6	32	1.6
4	5017906.4	✓	5018006.4	✓	5018106.4	✓		0.8	10	1.1
5	5017906.5	✓	5018006.5	✓	5018106.5	✓		2.0	25	1.5
6	5017906.6	✓	5018006.6	✓	5018106.6	✓		3.0	38	1.8
8	5017906.8	✓	5018006.8	✓	5018106.8	✓		3.1	39	1.8
10	5017906.10	✓	5018006.10	✓	5018106.10	✓		5.1	64	2.1
12	5017906.12	✓	5018006.12	✓	5018106.12	✓		7.4	93	2.8
16	5017906.16	✓	5018006.16	✓	5018106.16	✓		13	164	3.7
20	5017906.20	✓	5018006.20	✓	5018106.20	✓		29	360	4.7
25	5017906.25	✓	5018006.25	✓	5018106.25	✓		52	650	5.4
30	5017906.30	✓	5018006.30	✓	5018106.30	✓		81	1 010	6.4
Weight [kg per 1]										
0.01										



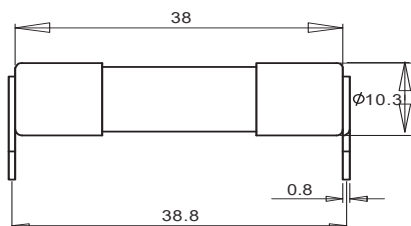
Coefficients for Heavy Duty Applications				
a	A2	B1 _{max}	B2	Cf3
150	0.6	1.25	0.5	0.8



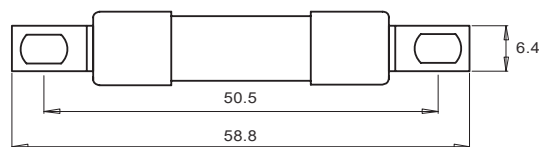
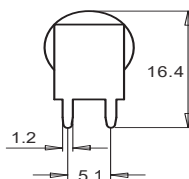
5017906



5018006



5018106



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse module, 1-Pole	5106305.1	559	Fuse clips PCB mounting	5806316	563
Fuse module, 1-Pole w/neon lamp indicator	5106305.1L		Fuse clips PCB mounting	5806319	
Fuse module, 2-Pole	5106305.2		Fuse clips screw mounting	5806317	
Fuse module, 2-Pole w/neon lamp indicator	5106305.2L		Clamping plate for 5806301	6301701	
Fuse module, 3-Pole	5106305.3		Terminal bar for 5806301	6301701.3	
Fuse module, 3-Pole w/neon lamp indicator	5106305.3L				

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URZ - 10x38mm



UL File E180276

Rated Voltage

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

Rated Breaking Test

Capacity

200kA

Voltage

660V_{AC}

Class

gR

Standard(s)

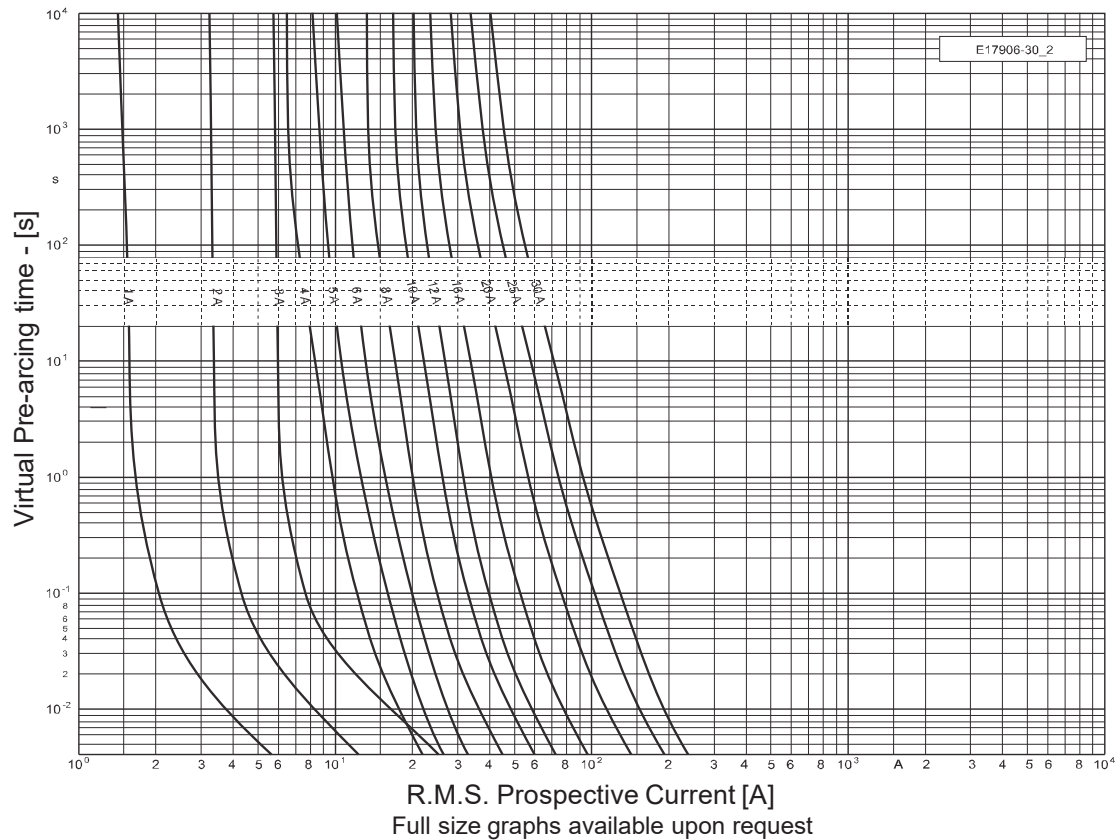
UL 248-13

IEC 60 269-4

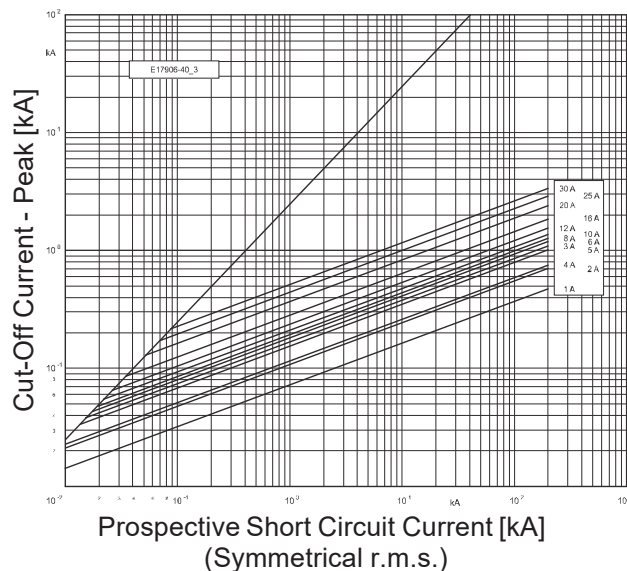
DIN EN 60269-4

DIN VDE 0636-4

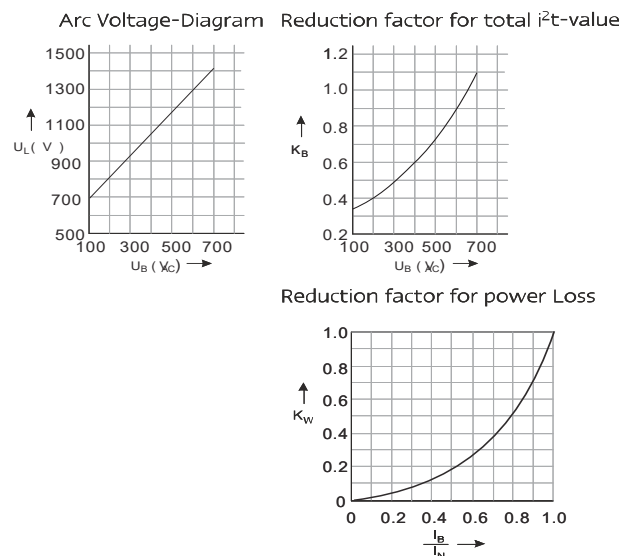
Time-Current Characteristics



Cut-Off Current Characteristics



Correction Curves



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URZ - 14x51mm

Rated Voltage

[U_n]
700V_{DC}

Rated Breaking Test

Capacity
50kAVoltage
700V_{DC}

Class

aR

Standard(s)

UL 248-13



UL File E180276

Rated current I _n [A]	Without indicator Article Number	UL rec		Pre-arcing I ² t [A ² s]	Total* I ² t @ 700V _{AC} [A ² s]	Power loss [W]
6	5011806.6	✓		2.0	12	1.3
8	5011806.8	✓		2.9	17	1.7
10	5011806.10	✓		3.9	25	2.6
12	5011806.12	✓		6.5	41	3.1
16	5011806.16	✓		8.0	52	4.7
20	5011806.20	✓		12	70	6.0
25	5011806.25	✓		20	130	7.6
30	5011806.32	✓		32	190	9.8
35	5011806.35	✓		72	430	10.3
40	5011806.40	✓		103	620	11.2
50	5011806.50	✓		128	770	12.6

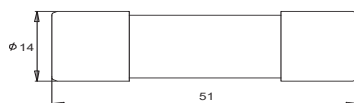
Weight [kg / 1]

0.01

*L/R=1ms

Coefficients for Heavy Duty Applications

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



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse module, 1-Pole	5105805.1DC	557	Fuse clips PCB mounting	5805806	563
Fuse module, 1-Pole w/neon lamp indicator	5105805.1LDC		Fuse clips screw mounting	6100101.2	
Fuse module, 2-Pole	5105805.2DC		Clamping plate for 5805806	6301701	
Fuse module, 2-Pole w/neon lamp indicator	5105805.2LDC				

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URZ - 14x51mm

Rated Voltage

Rated Breaking Test

Class

Standard(s)


 $[U_n]$
 700V_{DC}

 Capacity
 30kA

 Voltage
 700V_{DC}

aR

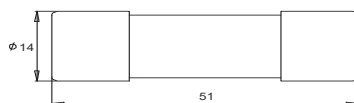
UL 248-13

UL File E180276

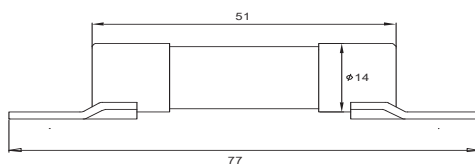
Rated current I_n [A]	Without indicator Article Number	UL rec	Without indicator 63mm Article Number	UL rec		Pre-arcing I^2t [A ² s]	Total I^2t^* @ 700V _{AC} [A ² s]	Power loss [W]
10	5020106.10	✓	5020206.10	✓		12	67	1.1
12	5020106.12	✓	5020206.12	✓		20	120	1.2
16	5020106.16	✓	5020206.16	✓		32	190	2.0
20	5020106.20	✓	5020206.20	✓		63	360	2.3
25	5020106.25	✓	5020206.25	✓		82	480	3.1
32	5020106.32	✓	5020206.32	✓		130	740	4.1
40	5020106.40	✓	5020206.40	✓		250	1 460	4.6
50	5020106.50	✓	5020206.50	✓		330	1 900	7.0
63	5020106.63	✓	5020206.63	✓		512	3 900	9.5
Weight [kg / 1]						*L/R=1ms		
0.02								

Coefficients for Heavy Duty Applications

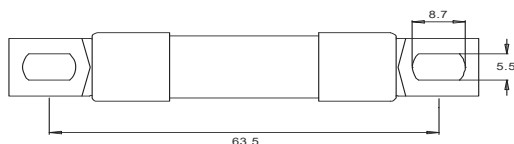
a	A2	B1 _{max}	B2	Cf3
130	0.55	1.25	0.6	0.8



5020106



5020206



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse module, 1-Pole	5105805.1DC	558	Fuse clips PCB mounting	5805806	541
Fuse module, 1-Pole w/neon lamp indicator	5105805.1LDC		Fuse clips screw mounting	6100101.2	
Fuse module, 2-Pole	5105805.2DC		Clamping plate for 5805806	6301701	
Fuse module, 2-Pole w/neon lamp indicator	5105805.2LDC				

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URZ - 14x51mm

Rated Voltage

Rated Breaking Test

Class

Standard(s)

[U_n]

Capacity

Voltage

aR

UL 248-13

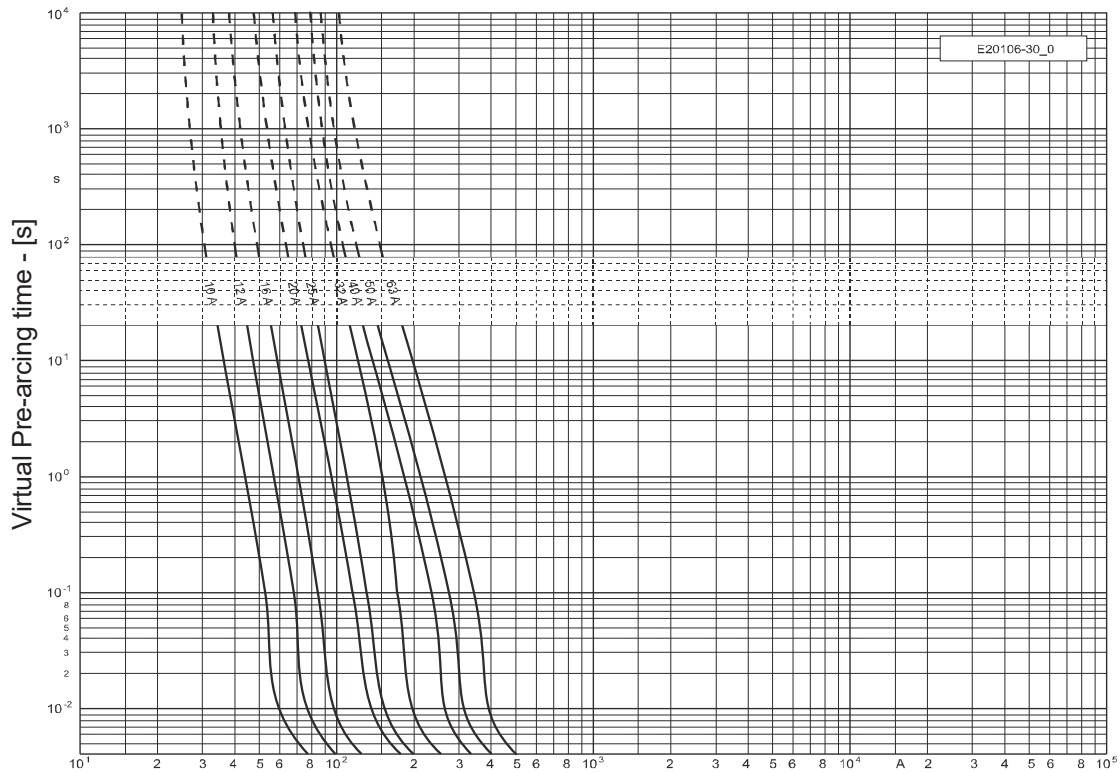
700V_{DC}

30kA

700V_{DC}

UL File E180276

Time-Current Characteristics

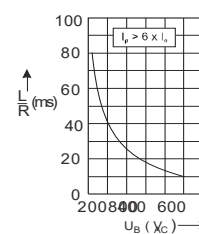
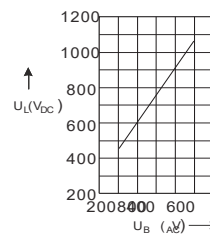


R.M.S. Prospective Current [A]
Full size graphs available upon request

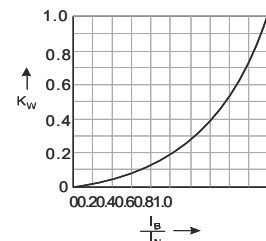
Correction Curves

Arc Voltage-Diagram

DC-Application



Reduction factor for power Loss



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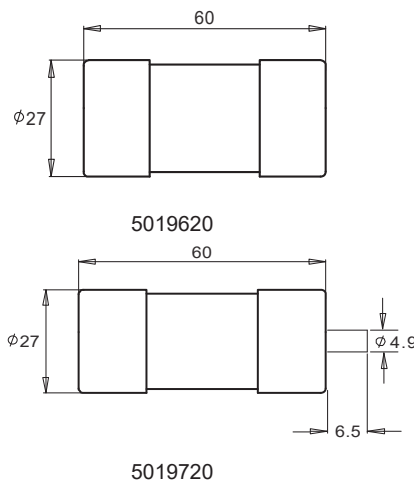
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e-mail: info@sibafuse.com

URZ - 27x60mm	Rated Voltage [U _n] 1000V _{AC}	Rated Breaking Test Capacity 100kA	Class aR	Standard(s) IEC 60 269-4 VDE 0636-40
---------------	---	--	-------------	--

Rated current I _n [A]	Without indicator Article Number	With striker Article Number		Pre-arcing I ² t [A ² s]	Total I ² t @ 1000V _{AC} [A ² s]	Power loss [W]
25	5019620.25	5019720.25		21	135	15
32	5019620.32	5019720.32		32	210	17
40	5019620.40	5019720.40		82	530	17
50	5019620.50	5019720.50		141	920	20
63	5019620.63	5019720.63		250	1 630	22
80	5019620.80	5019720.80		512	3 330	24
100	5019620.100	5019720.100		1 000	6 500	26
125	5019620.125	5019720.125		2 260	14 700	26
160	5019620.160	5019720.160		4 600	30 000	34
170	5019620.170	5019720.170		7 790	50 600	30
Weight [kg / 1]						
0.09						

Coefficients for Heavy Duty Applications

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

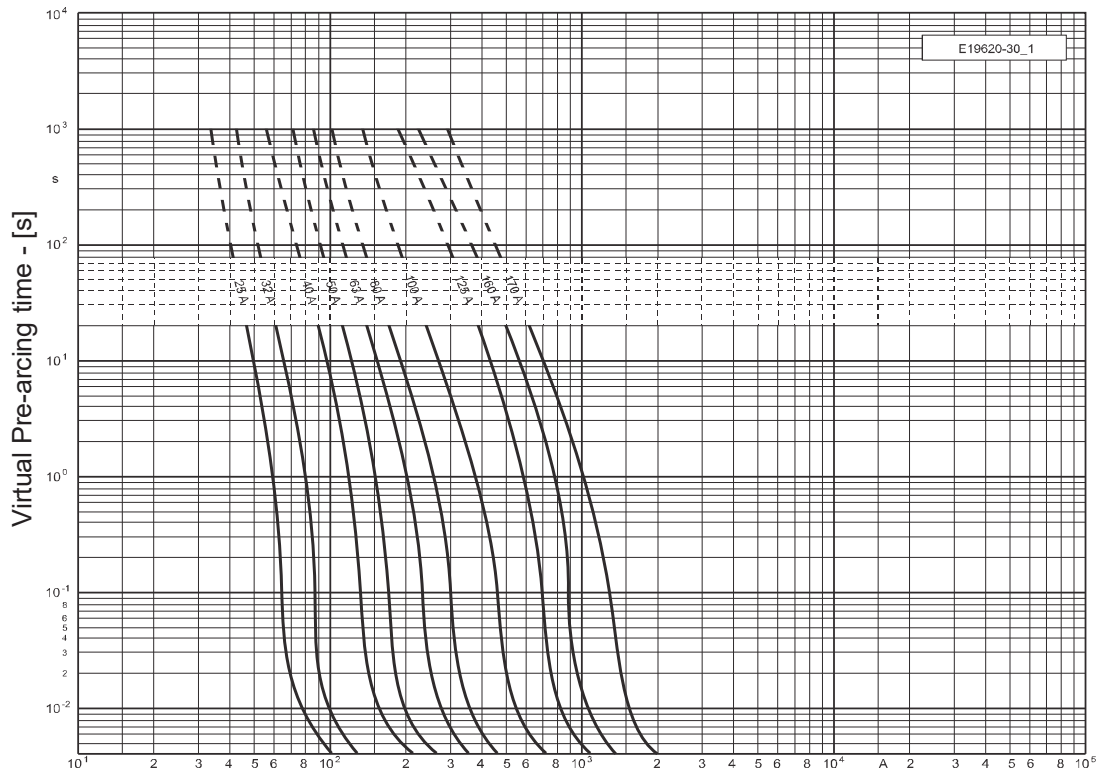


Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse clips screw mounting	6100401.3	565			
Clamping plate for 6100401.3	6300201				

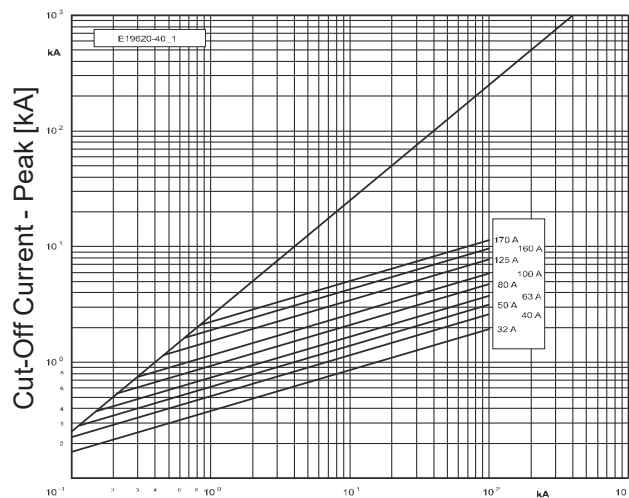
URZ - 27x60mm	Rated Voltage [U _n] 1000V _{AC}	Rated Breaking Test Capacity 100kA	Class aR Voltage 1000V _{AC}	Standard(s) IEC 60 269-4 VDE 0636-40
---------------	---	--	---	--

Time-Current Characteristics



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

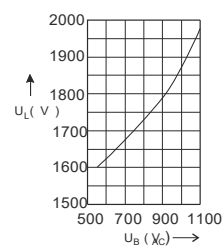
Cut-Off Current Characteristics



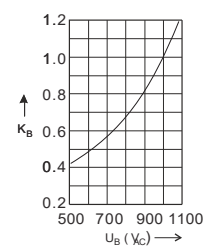
Prospective Short Circuit Current [kA]
(Symmetrical r.m.s.)

Correction Curves

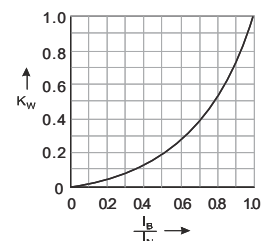
Arc Voltage-Diagram



Reduction factor for total i^2t-value



Reduction factor for power Loss



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URZ - 6.3x32mm

Rated Voltage

Rated Breaking Test

Class

Standard(s)

[U_n]1000V_{AC}1000V_{DC}

Capacity

30kA

30kA

Voltage

1000V_{AC}1000V_{DC}

FF

Company

Standard

UL File E167295

Rated current I _n [A]	Without indicator Article Number	UL rec		Rated Breaking Current [A]	Voltage Drop @ I _n [mV]	Pre-arcing I ² t [A ² s]	Total I ² t @ 1000V _{AC} [A ² s]	Power loss [W]
0.100	7017240.0.100	✓		30kA @ 1000V _{AC/DC}	2 500	0.0009		0.3
0.125	7017240.0.125	✓		30kA @ 1000V _{AC/DC}	2 200	0.0017		0.3
0.160	7017240.0.160	✓		30kA @ 1000V _{AC/DC}	2 000	0.004		0.4
0.200	7017240.0.200	✓		30kA @ 1000V _{AC/DC}	900	0.01		0.2
0.250	7017240.0.250	✓		30kA @ 1000V _{AC/DC}	800	0.02		0.2
0.315	7017240.0.315	✓		30kA @ 1000V _{AC/DC}	700	0.035		0.3
0.400	7017240.0.400	✓		30kA @ 1000V _{AC/DC}	650	0.07		0.3
0.500	7017240.0.500	✓		30kA @ 1000V _{AC/DC}	650	0.12		0.4
0.630	7017240.0.630	✓		30kA @ 1000V _{AC/DC}	650	0.15		0.5
0.800	7017240.0.800	✓		30kA @ 1000V _{AC/DC}	600	0.23		0.5
1	7017240.1	✓		30kA @ 1000V _{AC/DC}	750	0.32		0.8
1.6	7017240.1.6	✓		30kA @ 1000V _{AC/DC}	650	0.31		1.1
2	7017240.2	✓		30kA @ 1000V _{AC/DC}	650	0.64		1.4

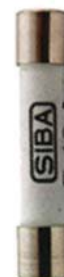
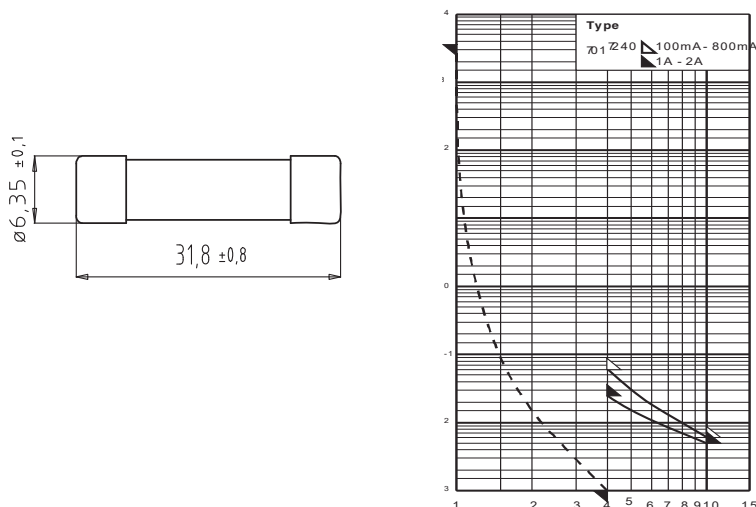
Weight [kg / 1]

0.002

*Additional testing 50kA @ 1000V_{AC/DC}

Coefficients for Heavy Duty Applications

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

Normalized Current
Time-Current Characteristics

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
Fuse clips PB	199429	565	Press on cap leads, 12.5A maximum	204100	565
			Press on cap leads, 20A maximum	204101	

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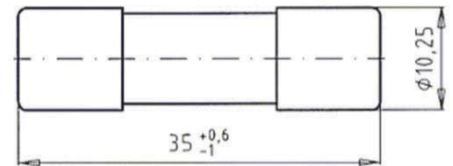
portal: www.siballc.nete-mail: info@sibafuse.com

URZ - 10x35mm	Rated Voltage [U _n]	Rated Breaking Test Capacity	Rated Breaking Test Voltage	Class aR	Standard(s) Company
cRU[®] US	1000V _{AC} 1000V _{DC}	30kA 30kA	1000V _{AC} 1000V _{DC}		Standard
UL File E167295					

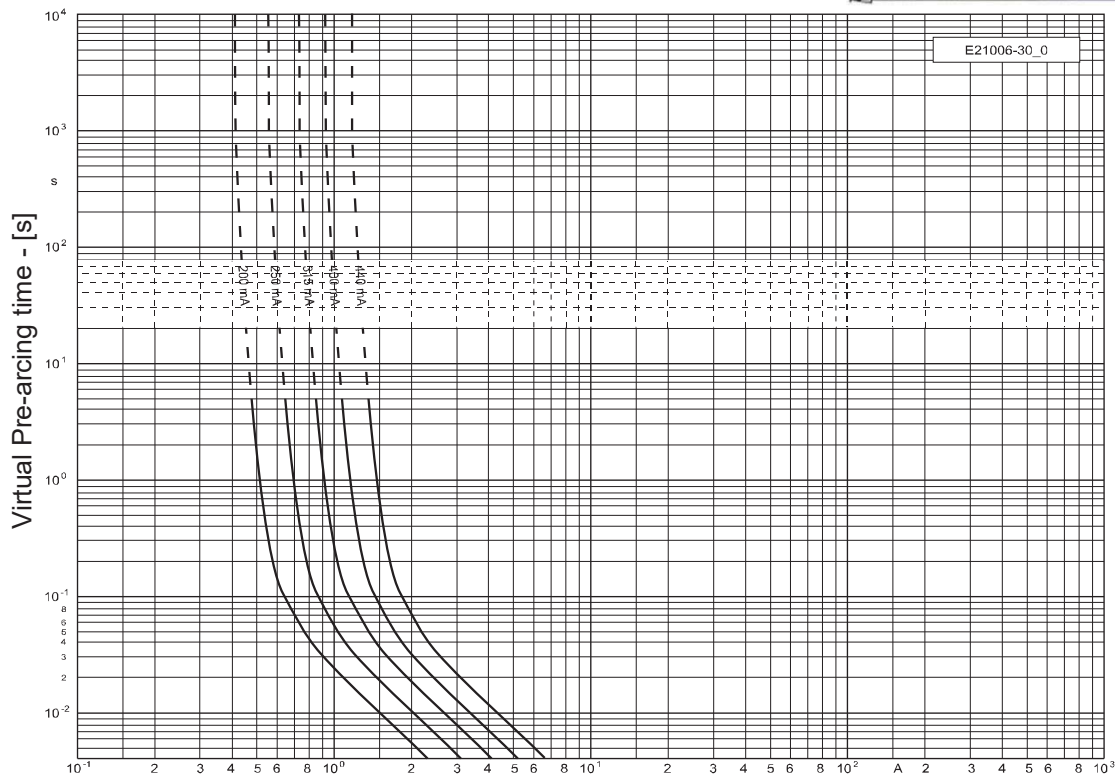
Rated current I _n [A]	Without indicator Article Number	UL rec	Cold Resistance @ 20°C [mΩ]	Pre-arcing I ² t [A ² s]	Total I ² t @ 1000V _{AC} [A ² s]	Power loss @ 1.0I _n [W]
0.200	5021006.0.200	✓	2 720	0.2	0.12	0.12
0.250	5021006.0.250	✓	2 000	0.4	0.2	0.13
0.315	5021006.0.315	✓	1 530	0.7	0.4	0.16
0.400	5021006.0.400	✓	1 200	0.11	0.7	0.2
0.440	5021006.0.440	✓	980	0.17	1	0.2

Weight [kg / 1]
0.01

Coefficients for Heavy Duty Applications				
a	A2	B1 _{max}	B2	Cf3
150	0.6	1.25	0.6	0.8



Time-Current Characteristics



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

Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
For DC Only!			Fuse clips PCB mounting	5806316	565
Fuse module 1-Pole	5105805.1DC	558	Fuse clips PCB mounting	5806319	
Fuse module 1-Pole w/neon lamp indicator	5105805.1LDC		Fuse clips screw mounting	5806317	
Fuse module 2-Pole	5105805.2DC		Clamping plate for 5805806	6301701	
Fuse module 2-Pole w/neon lamp indicator	5105805.2LDC		Terminal bar for 5805806	6301701.3	

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URZ - 10x38mm

Rated Voltage

Rated Breaking Test

Class

Standard(s)

[U_n]

Capacity

Voltage

gR

UL 248-13

1000V_{AC}

30kA

1000V_{AC}1000V_{DC}

30kA @ L/R = 1ms

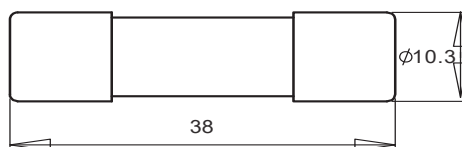
1000V_{DC}

UL File E180276

Rated current I _n [A]	Without indicator Article Number	UL rec				Pre-arcing I ² t [A ² s]	Total I ² t* @ 1000V _{AC} [A ² s]	Power loss [W]
0.44	5019906.0.440	✓				0.17	1.0	0.2
0.5	5019906.0.5	✓				0.2	2.2	0.2
1	5019906.1	✓				0.45	2	0.3
2	5019906.2	✓				1.2	3	0.9
3.5	5019906.3.5	✓				5	27	1.8
4	5019906.4	✓				3	25	0.5
6	5019906.6	✓				5	40	0.7
8	5019906.8	✓				7	55	1.1
10	5019906.10	✓				10	77	1.5
11	5019906.11	✓				17	130	1.6
12	5019906.12	✓				20	155	1.6
15	5019906.15	✓				30	230	1.8
16	5019906.16	✓				30	230	2.1
Weight [kg / 1]							*L/R = 5ms	
0.0.01								

Coefficients for Heavy Duty Applications

a	A2	B1 _{max}	B2	Cf3
150	0.6	1.25	0.5	0.8



Accessories

Article Description	Article Number	Page	Article Description	Article Number	Page
For DC Only!			Fuse clips PCB mounting	5806316	563
Fuse module, 1-Pole	5106305.1DC	557	Fuse clips PCB mounting	5806319	
Fuse module, 1-Pole w/neon lamp indicator	5106305.1LDC		Fuse clips screw mounting	5806317	
Fuse module, 2-Pole	5106305.2DC		Clamping plate for 5806301	6301701	
Fuse module, 2-Pole w/neon lamp indicator	5106305.2LDC		Terminal bar for 5806301	6301701.3	

SIBA LLC

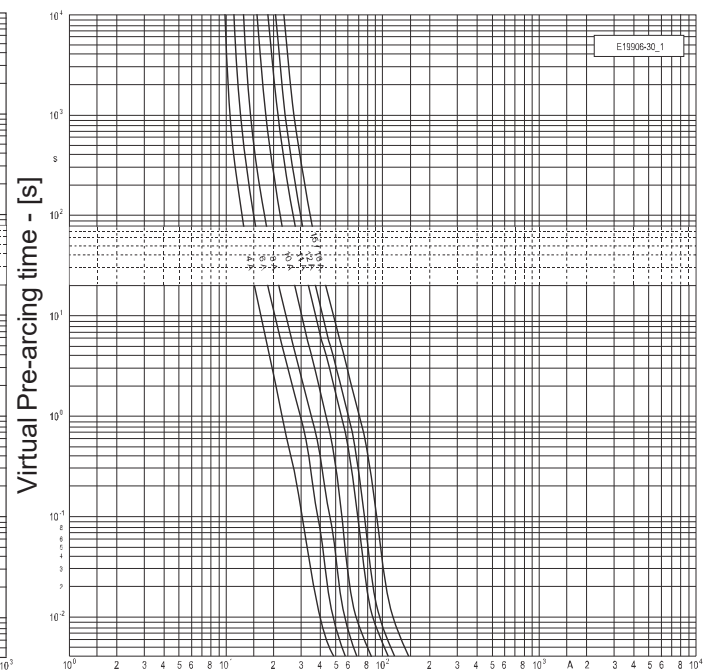
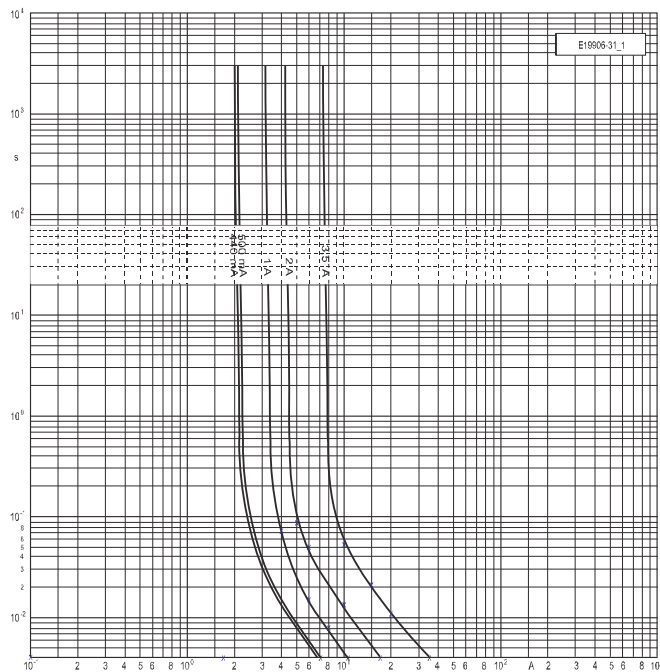
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URZ - 10x38mm**Rated Voltage****Rated Breaking Test****Class****Standard(s)****[U_n]****Capacity****Voltage****1000V_{AC}****30kA****1000V_{AC}****1000V_{DC}****30kA @ L/R =1ms****1000V_{DC}****UL File E180276****Time-Current Characteristics**

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

