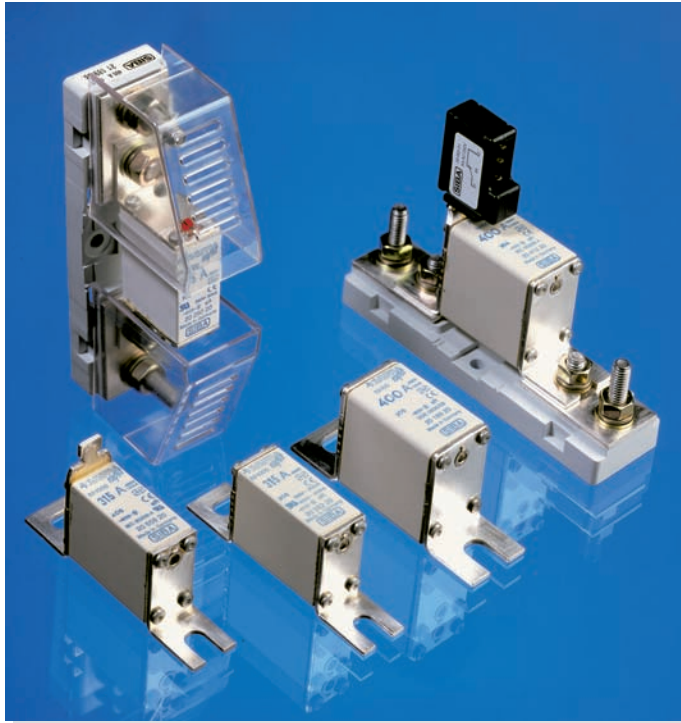


Fuses for Semiconductor Protection

European Standard

Sizes 000 and 00



Class: aR

Voltage ratings: AC 660 V – AC 1000 V

Current ratings: 16 A to 400 A

Approvals: 

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

Features / Benefits

- ▶ Extremely high interrupting rating 100 kA – 300 kA
- ▶ Voltage ratings AC 660 V – AC 1000 V
- ▶ Protection of Power Semiconductors according to IEC 60269-1 and -4
- ▶ Complies with DIN 43653 – sizes 000 and 00 with or without Topindicator and trip microswitch
- ▶ aR class 16 A–400 A according to IEC 60269-4 and DIN VDE 0636-40
- ▶ Fuse-bases and accessories are available



Fuses for Semiconductor Protection

European Standard

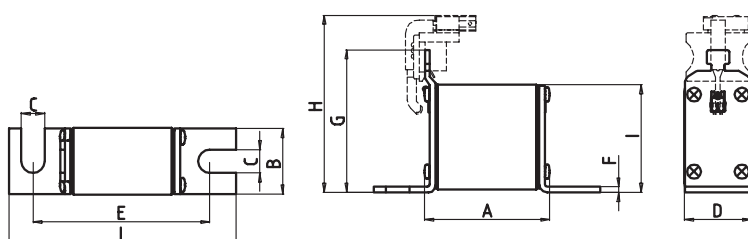
Sizes 000 and 00

Size
00

Rated Voltage
AC 690/700 V

Standard
DIN 43653

Rated Current [A]	Part No. Top Indicator and Fitting for Micro Switch	UL Rec.	Weight [kg/1]	Pack	
32	20 412 20.32		0.21	3	
35	20 412 20.35		0.21	3	
40	20 412 20.40		0.21	3	
50	20 412 20.50		0.21	3	
63	20 412 20.63		0.21	3	
80	20 412 20.80		0.21	3	
100	20 412 20.100		0.21	3	
125	20 412 20.125		0.21	3	
160	20 412 20.160	✓	0.21	3	
200	20 412 20.200	✓	0.21	3	
250	20 412 20.250	✓	0.21	3	
315	20 412 20.315	✓	0.21	3	
350	20 412 20.350	✓	0.21	3	
400	20 412 20.400		0.21	3	



A	2.17" (55 mm)	F	0.10" (2.5 mm)
B	1.13" (28.8 mm)	G	2.48" (63 mm)
C	0.40" (10.3 mm)	H	3.15" (80 mm)
D	1.16" (29.5 mm)	I	1.85" (47 mm)
E	3.07" (78 mm)	L_(max)	4.13" (105 mm)

Size
00

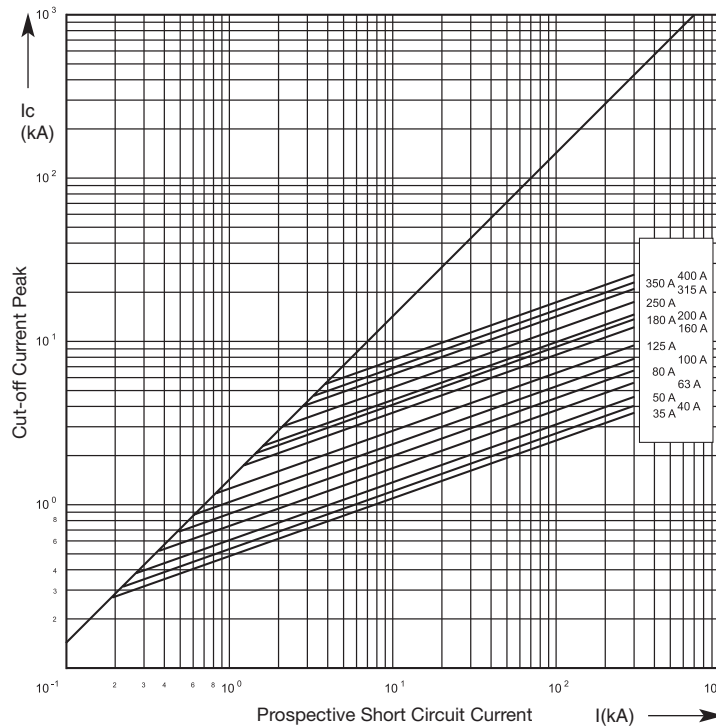
Rated Voltage
AC 690/700 V

Operating Class
aR

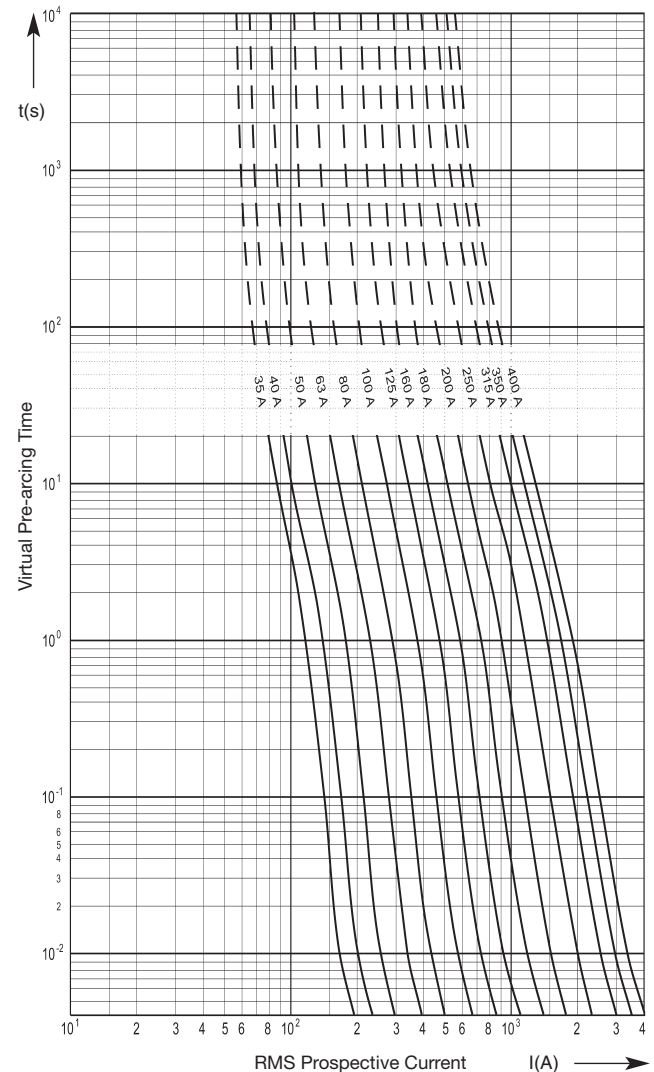
Rated Breaking Capacity
600 V / 300 kA · 700 V / 200 kA

Rated Current [A]	Part No. with Top Indicator	Part No. without Top Indicator	Part No. Fitting for Micro Switch	Power Loss [W]	Pre-arcing I ² t-value [A ² s]	Total I ² t-value @ 660 V [A ² s]
35	20 189 20.35	20 189 21.35	20 412 20.35	8	66	360
40	20 189 20.40	20 189 21.40	20 412 20.40	10	90	500
50	20 189 20.50	20 189 21.50	20 412 20.50	12	140	770
63	20 189 20.63	20 189 21.63	20 412 20.63	14	250	1 400
80	20 189 20.80	20 189 21.80	20 412 20.80	17	470	2 600
100	20 189 20.100	20 189 21.100	20 412 20.100	21	730	4 000
125	20 189 20.125	20 189 21.125	20 412 20.125	25	1 300	7 200
160	20 189 20.160	20 189 21.160	20 412 20.160	31	2 800	15 400
180	20 189 20.180	20 189 21.180	20 412 20.180	34	4 200	23 100
200	20 189 20.200	20 189 21.200	20 412 20.200	37	5 000	27 500
250	20 189 20.250	20 189 21.250	20 412 20.250	44	8 500	46 800
315	20 189 20.315	20 189 21.315	20 412 20.315	53	15 600	86 000
350	20 189 20.350	20 189 21.350	20 412 20.350	57	20 000	110 000
400	20 189 20.400	20 189 21.400	20 412 20.400	68	28 400	156 000

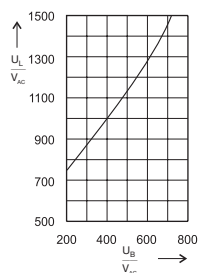
Cut-Off characteristics



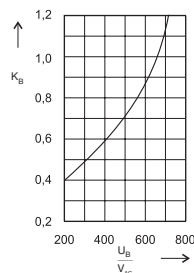
Time-Current Characteristics



Arc voltage-Diagram



Reduction factor for total I²t-value



Reduction factor for power loss

