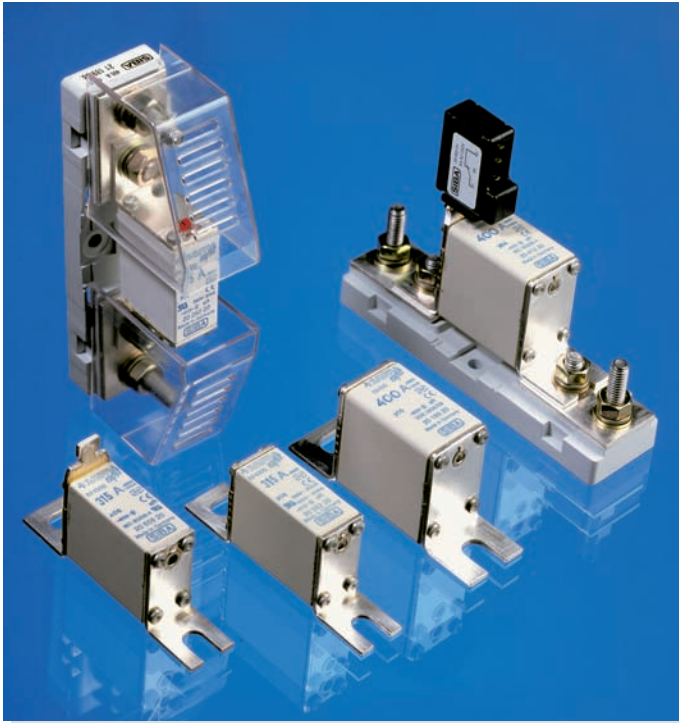


# Fuses for Semiconductor Protection

European Standard


Sizes 000 and 00



Class: aR

Voltage ratings: AC 660 V – AC 1000 V

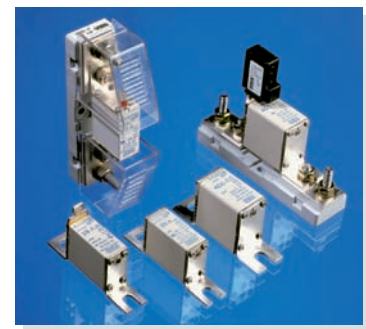
Current ratings: 16 A to 400 A

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

**Selection Guide**

Size	Rated Voltage [AC]	Fixing Center	Indicator *	Part No. Type	Selector Guide [Page]	Techn. Data [Page]
000	660 V	3,15" (80 mm)	with top indicator	20 282 04	URB 3	URB 10
000	660 V	3.15" (80 mm)	without top indicator	20 282 41	URB 3	URB 10
000	660 V	3.15" (80 mm)	with micro switch fitting	20 558 04	URB 4	URB 10
000	690/700 V	3.15" (80 mm)	with top indicator	20 282 20	URB 3	URB 11
000	690/700 V	3.15" (80 mm)	without top indicator	20 282 21	URB 3	URB 11
000	690/700 V	3.15" (80 mm)	with micro switch fitting	20 558 20	URB 4	URB 11
00	660 V	3.15" (80 mm)	with top indicator	20 189 04	URB 5	URB 12
00	660 V	3.15" (80 mm)	without top indicator	20 189 41	URB 5	URB 12
00	660 V	3.15" (80 mm)	with micro switch fitting	20 412 04	URB 6	URB 12
00	690/700 V	3.15" (80 mm)	with top indicator	20 189 20	URB 5	URB 13
00	690/700 V	3.15" (80 mm)	without top indicator	20 189 21	URB 5	URB 13
00	690/700 V	3.15" (80 mm)	with micro switch fitting	20 412 20	URB 7	URB 13
00	1000 V	3.15" (80 mm)	with top indicator	20 560 20	URB 8	URB 14
00	1000 V	3.15" (80 mm)	without top indicator	20 560 21	URB 8	URB 14
00	1000 V	3.15" (80 mm)	with micro switch fitting	20 562 20	URB 9	URB 14
Fuse-Base	1000 V			21 189 01		URB 15
Fuse-Base	1000 V			21 189 08		URB 15
Fuse-Base	1000 V			21 189 11		URB 16
Micro switch	250 V			28 002 01		URB 17
Micro switch	250 V			28 002 02		URB 17

\* Minimum operating voltage for top indicator 6.5V



**Fuses for Semiconductor Protection**  
European Standard

Sizes 000 and 00

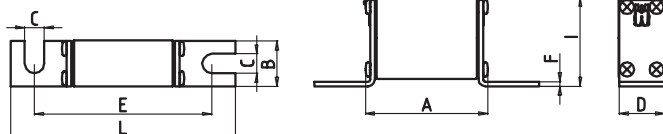
Size **000** Rated Voltage **AC 660 V** Standard **DIN 43653**

Rated Current [A]	Part No. with Top Indicator	Part No. without Top Indicator	UL Rec.	Weight [kg/1]	Pack
16	20 282 04.16	20 282 41.16		0.17	6
20	20 282 04.20	20 282 41.20		0.17	6
25	20 282 04.25	20 282 41.25		0.17	6
32	20 282 04.32	20 282 41.32		0.17	6
35	20 282 04.35	20 282 41.35		0.17	6
40	20 282 04.40	20 282 41.40		0.17	6
50	20 282 04.50	20 282 41.50		0.17	6
63	20 282 04.63	20 282 41.63		0.17	6
80	20 282 04.80	20 282 41.80		0.17	6
100	20 282 04.100	20 282 41.100		0.17	6
125	20 282 04.125	20 282 41.125		0.17	6
160	20 282 04.160	20 282 41.160		0.17	6

Size **000** Rated Voltage **AC 690/700 V** Standard **DIN 43653**

Rated current [A]	Part No. with Top Indicator	Part No. without Top Indicator	UL Rec.	Weight [kg/1]	Pack
32	20 282 20.32	20 282 21.32	✓	0.17	6
35	20 282 20.35	20 282 21.35	✓	0.17	6
40	20 282 20.40	20 282 21.40	✓	0.17	6
50	20 282 20.50	20 282 21.50	✓	0.17	6
63	20 282 20.63	20 282 21.63	✓	0.17	6
80	20 282 20.80	20 282 21.80	✓	0.17	6
100	20 282 20.100	20 282 21.100	✓	0.17	6
125	20 282 20.125	20 282 21.125	✓	0.17	6
160	20 282 20.160	20 282 21.160	✓	0.17	6
200	20 282 20.200	20 282 21.200	✓	0.17	6
250	20 282 20.250	20 282 21.250	✓	0.17	6
315	20 282 20.315	20 282 21.315	✓	0.17	6

Available in DC 700 V see URDC section.



- A** 2.17" (55 mm)
- B** 0.80" (20 mm)
- C** 0.33" (8.5 mm)
- D** 0.80" (20.4 mm)
- E** 3.07" (78 mm)
- F** 0.08" (2 mm)
- I** 1.54" (39 mm)
- L<sub>(max)</sub>** 3.94" (100 mm)



**Fuses for Semiconductor Protection**

European Standard

Sizes 000 and 00

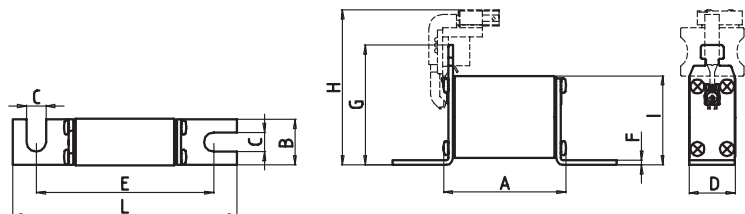
<b>Size</b> <b>000</b>	<b>Rated Voltage</b> <b>AC 660 V</b>	<b>Standard</b> <b>DIN 43653</b>
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Rated Current [A]	Part No. Top Indicator and Fitting for Micro Switch	UL Rec.	Weight [kg/1]	Pack
16	20 558 04.16		0.17	6
20	20 558 04.20		0.17	6
25	20 558 04.25		0.17	6
32	20 558 04.32		0.17	6
35	20 558 04.35		0.17	6
40	20 558 04.40		0.17	6
50	20 558 04.50		0.17	6
63	20 558 04.63		0.17	6
80	20 558 04.80		0.17	6
100	20 558 04.100		0.17	6
125	20 558 04.125		0.17	6
160	20 558 04.160		0.17	6

<b>Size</b> <b>000</b>	<b>Rated Voltage</b> <b>AC 690/700 V</b>	<b>Standard</b> <b>DIN 43653</b>
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Rated Current [A]	Part No. Top Indicator and Fitting for Micro Switch	UL Rec.	Weight [kg/1]	Pack
32	20 558 20.32		0.18	6
35	20 558 20.35	✓	0.18	6
40	20 558 20.40	✓	0.18	6
50	20 558 20.50	✓	0.18	6
63	20 558 20.63	✓	0.18	6
80	20 558 20.80	✓	0.18	6
100	20 558 20.100	✓	0.18	6
125	20 558 20.125	✓	0.18	6
160	20 558 20.160	✓	0.18	6
180	20 558 20.180	✓	0.18	6
200	20 558 20.200	✓	0.18	6
250	20 558 20.250	✓	0.18	6
315	20 558 20.315	✓	0.18	6

- A** 2.17" (55 mm)
- B** 0.80" (20 mm)
- C** 0.33" (8,5 mm)
- D** 0.80" (20,4 mm)
- E** 3.07" (78 mm)
- F** 0.08" (2 mm)
- G** 2.10" (53 mm)
- H** 2.76" (70 mm)
- I** 1.54" (39 mm)
- L<sub>(max)</sub>** 3.94" (100 mm)





**Fuses for Semiconductor Protection**  
European Standard

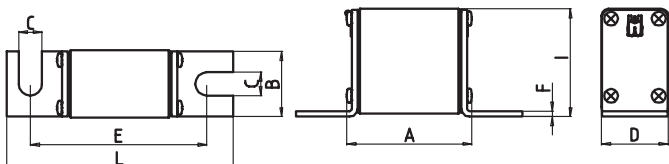
Sizes 000 and 00

Size **00**      Rated Voltage **AC 660 V**      Standard **DIN 43653**

Rated Current [A]	Part No. with Top Indicator	Part No. without Top Indicator	UL Rec.	Weight [kg/1]	Pack
16	20 189 04.16	20 189 41.16		0.19	3
20	20 189 04.20	20 189 41.20		0.19	3
25	20 189 04.25	20 189 41.25		0.19	3
32	20 189 04.32	20 189 41.32		0.19	3
35	20 189 04.35	20 189 41.35		0.19	3
40	20 189 04.40	20 189 41.40		0.19	3
50	20 189 04.50	20 189 41.50		0.19	3
63	20 189 04.63	20 189 41.63		0.19	3
80	20 189 04.80	20 189 41.80		0.19	3
100	20 189 04.100	20 189 41.100		0.19	3
125	20 189 04.125	20 189 41.125		0.19	3
160	20 189 04.160	20 189 41.160		0.19	3
200	20 189 04.200	20 189 41.200		0.19	3
250	20 189 04.250	20 189 41.250		0.19	3

Size **00**      Rated Voltage **AC 690/700 V**      Standard **DIN 43653**

Rated Current [A]	Part No. with Top Indicator	Part No. without Top Indicator	UL Rec.	Weight [kg/1]	Pack
32	20 189 20.32	20 189 21.32	✓	0.21	3
35	20 189 20.35	20 189 21.35	✓	0.21	3
40	20 189 20.40	20 189 21.40	✓	0.21	3
50	20 189 20.50	20 189 21.50	✓	0.21	3
63	20 189 20.63	20 189 21.63	✓	0.21	3
80	20 189 20.80	20 189 21.80	✓	0.21	3
100	20 189 20.100	20 189 21.100	✓	0.21	3
125	20 189 20.125	20 189 21.125	✓	0.21	3
160	20 189 20.160	20 189 21.160	✓	0.21	3
200	20 189 20.200	20 189 21.200	✓	0.21	3
250	20 189 20.250	20 189 21.250	✓	0.21	3
315	20 189 20.315	20 189 21.315	✓	0.21	3
350	20 189 20.350	20 189 21.350	✓	0.21	3
400	20 189 20.400	20 189 21.400	✓	0.21	3



<b>A</b>	<b>2.17"</b> (55 mm)	<b>F</b>	<b>0.10"</b> (2,5 mm)
<b>B</b>	<b>1.13"</b> (28,8 mm)	<b>I</b>	<b>1.85"</b> (47 mm)
<b>C</b>	<b>0.40"</b> (10,3 mm)	<b>L<sub>(max)</sub></b>	<b>4.13"</b> (105 mm)
<b>D</b>	<b>1.16"</b> (29,5 mm)		
<b>E</b>	<b>3.07"</b> (78 mm)		



**Fuses for Semiconductor Protection**

European Standard

Sizes 000 and 00

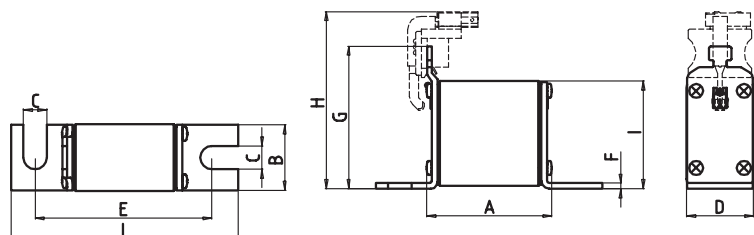
Size  
**00**

Rated Voltage  
**AC 660 V**

Standard  
**DIN 43653**

Rated Current [A]	Part No. Top Indicator and Fitting for Micro Switch	UL Rec.	Weight [kg/1]	Pack
16	20 412 04.16		0.21	3
20	20 412 04.20		0.21	3
25	20 412 04.25		0.21	3
32	20 412 04.32		0.21	3
35	20 412 04.35		0.21	3
40	20 412 04.40		0.21	3
50	20 412 04.50		0.21	3
63	20 412 04.63		0.21	3
80	20 412 04.80		0.21	3
100	20 412 04.100		0.21	3
125	20 412 04.125		0.21	3
160	20 412 04.160		0.21	3
200	20 412 04.200		0.21	3
250	20 412 04.250		0.21	3

<b>A</b> 2.17" (55 mm)	<b>F</b> 0.10" (2.5 mm)
<b>B</b> 1.13" (28.8 mm)	<b>G</b> 2.48" (63 mm)
<b>C</b> 0.40" (10.3 mm)	<b>H</b> 3.15" (80 mm)
<b>D</b> 1.16" (29.5 mm)	<b>I</b> 1.54" (39 mm)
<b>E</b> 3.07" (78 mm)	<b>L<sub>(max)</sub></b> 4.13" (105 mm)



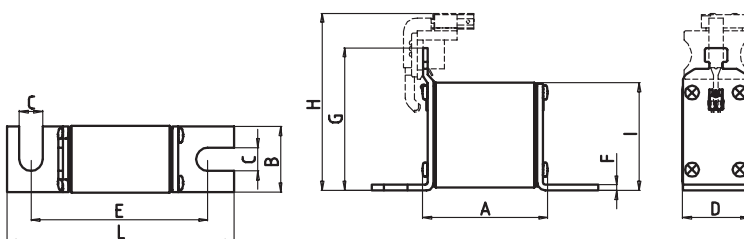


**Fuses for Semiconductor Protection**  
European Standard

Sizes 000 and 00

<b>Size</b> <b>00</b>	<b>Rated Voltage</b> <b>AC 690/700 V</b>	<b>Standard</b> <b>DIN 43653</b>
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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



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



**Fuses for Semiconductor Protection**

European Standard

Sizes 000 and 00

Size  
**00**

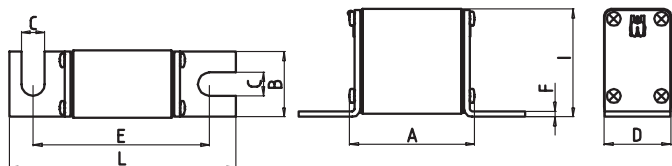
Rated Voltage  
**AC 1000 V**

Standard  
**DIN 43653**

Rated Current [A]	Part No. with Top Indicator	Part No. without Top Indicator	UL Rec.	Weight [kg/1]	Pack
32	20 560 20.32	20 560 21.32		0.21	3
40	20 560 20.40	20 560 21.40		0.21	3
50	20 560 20.50	20 560 21.50		0.21	3
63	20 560 20.63	20 560 21.63		0.21	3
80	20 560 20.80	20 560 21.80		0.21	3
100	20 560 20.100	20 560 21.100		0.21	3
125	20 560 20.125	20 560 21.125		0.21	3
160	20 560 20.160	20 560 21.160		0.21	3
200	20 560 20.200	20 560 21.200		0.21	3
250	20 560 20.250	20 560 21.250		0.21	3
315*	20 560 20.315	20 560 21.315		0.21	3

\* 900 Vac

<b>A</b>	<b>2.17"</b> (55 mm)	<b>F</b>	<b>0.10"</b> (2,5 mm)
<b>B</b>	<b>1.13"</b> (28,8 mm)	<b>I</b>	<b>1.85"</b> (47 mm)
<b>C</b>	<b>0.40"</b> (10,3 mm)	<b>L<sub>(max)</sub></b>	<b>4.13"</b> (105 mm)
<b>D</b>	<b>1.16"</b> (29,5 mm)		
<b>E</b>	<b>3.07"</b> (78 mm)		







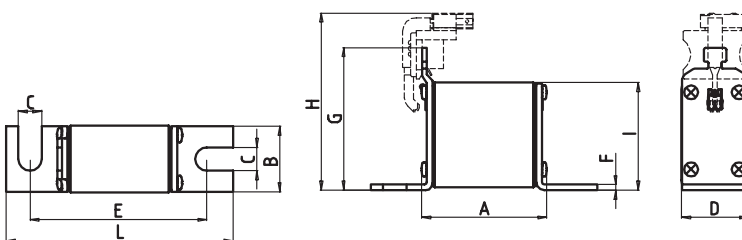
**Fuses for Semiconductor Protection**  
European Standard

Sizes 000 and 00

<b>Size</b> <b>00</b>	<b>Rated Voltage</b> <b>AC 1000 V</b>	<b>Standard</b> <b>DIN 43653</b>
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Rated Current [A]	Part No. Top Indicator and Fitting for Micro Switch	UL Rec.	Weight [kg/1]	Pack
32	20 562 20.32		0.21	3
40	20 562 20.40		0.21	3
50	20 562 20.50		0.21	3
63	20 562 20.63		0.21	3
80	20 562 20.80		0.21	3
100	20 562 20.100		0.21	3
125	20 562 20.125		0.21	3
160	20 562 20.160		0.21	3
200	20 562 20.200		0.21	3
250	20 562 20.250		0.21	3
315*	20 562 20.315		0.21	3

\* 900 Vac



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