

## Fuses for Semiconductor Protection - European Standard



<b>Class:</b>	gR / aR
<b>Voltage ratings:</b>	440V <sub>AC</sub> to 500V <sub>AC</sub>
<b>Current ratings:</b>	2A to 200A
<b>Standards:</b>	IEC 60269-4 DIN VDE 0636-40 DIN 49515 / 49360 DIN 43653

SIBA D-Fuse also known as Diazed and Neozed

### Features and Benefits

- ▶ Class gR for rated current to 100A  
Class aR for rated current above 100A
- ▶ All fuses have blown fuse indication
- ▶ Protection of power semiconductors according to IEC 60269-4
- ▶ Fuse bases and accessories available

**Fuses for Applications**

Article	Description	Selection Guide	Technical Data
<b>500V<sub>AC</sub></b>			
1000207	ND - E16	206	206 - 207
1000507	DII - E27		
1000707	DIII - E33		
1000907	DIV - R1-1/4"		
1001007	DV - R2"		
<b>440V<sub>AC</sub></b>			
1002707	D01 - E14	208	208 - 209
1002807	D02 - E18		
1002907	D03 - M30x2		



<b>URD</b>	<b>Rated Voltage</b> [U <sub>n</sub> ] 500V <sub>AC</sub>	<b>Rated Breaking Test Capacity</b> 100kA	<b>Class</b> gR	<b>Standard(s)</b> IEC 60269-4 VDE 0636 Part 40 DIN 49365
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**ND, DII, DIII, DIV & DV**

Rated Current [A]	ND Article Number	DII Article Number	DIII Article Number	Power Loss [W]	Pre-arc i <sup>2</sup> t [A <sup>2</sup> s]	Total i <sup>2</sup> t @ 230V <sub>DC</sub> [A <sup>2</sup> s]	Total i <sup>2</sup> t @ 500V <sub>AC</sub> [A <sup>2</sup> s]
2	1000207.2*	1000507.2*		1.8	1	1.5	2
4	1000207.4*	1000507.4*		3.1	4	6	8
6	1000207.6	1000507.6		4	6	8	11
10	1000207.10	1000507.10		6	13	17	25
16	1000207.16	1000507.16		7	26	40	55
20	1000207.20	1000507.20		8	45	70	100
25	1000207.25	1000507.25		10	75	115	170
30	1000207.30	1000507.30		12	125	205	330
35			1000707.35	13	185	290	425
50			1000707.50	16	430	750	1 160
63			1000707.63	19	670	1 260	1 850
Weight [kg / 1]							
	0.016	0.031	0.031				
Units per Package							
	50	5	5				
	* No Indicator	* No Indicator					

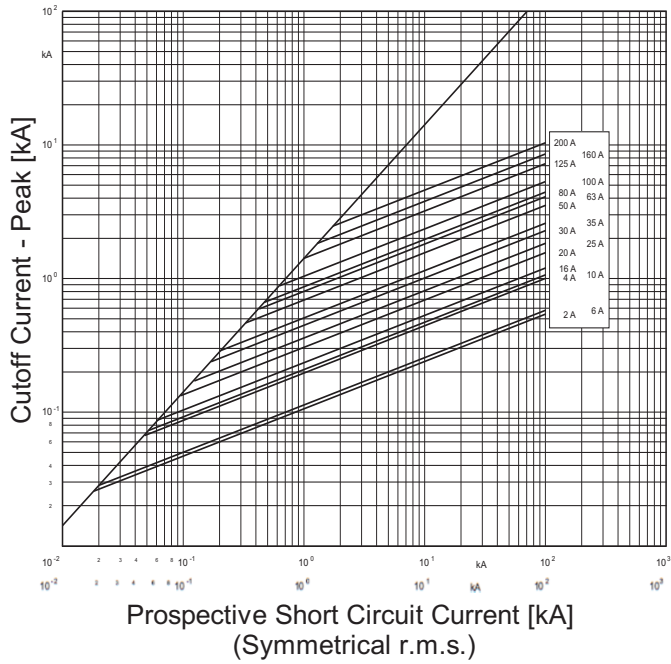
Rated Current [A]	DIV Article Number	DV Article Number	Power Loss [W]	Pre-arc i <sup>2</sup> t [A <sup>2</sup> s]	Total i <sup>2</sup> t @ 230V <sub>DC</sub> [A <sup>2</sup> s]	Total i <sup>2</sup> t @ 500V <sub>AC</sub> [A <sup>2</sup> s]
80	1000907.80		33	800	1 500	2 300
100	1000907.100		42	1 400	2 700	4 500
125		1001007.125	32	3 400	6 500	11 200
160		1001007.160	43	6 800	13 000	23 100
200		1001007.200	56	10 000	35 000	35 000
Weight [kg / 1]						
	0.116	0.116				
Units per Package						
	5	5				

**Dimensions [in / mm]**

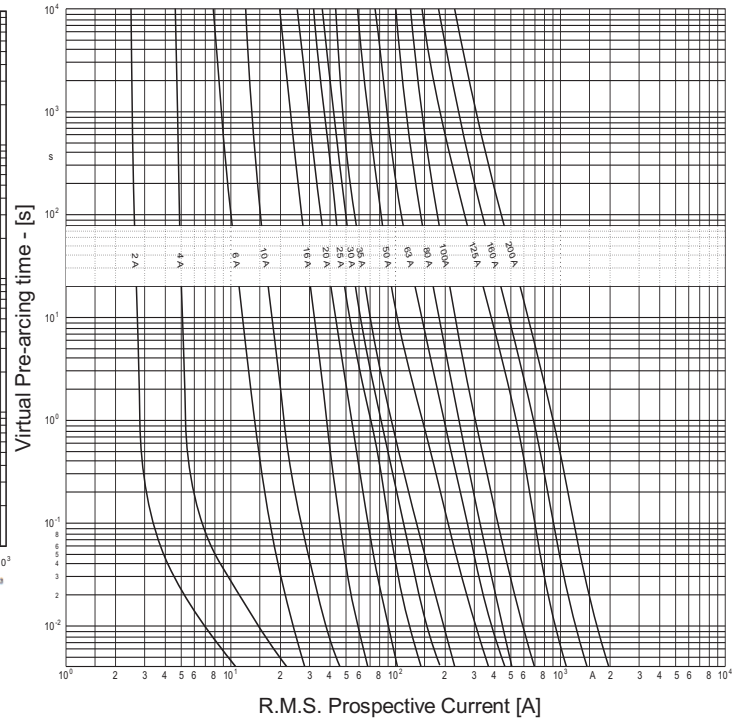
	ND 1000207	DII 1000507	DIII 1000707	DIV 1000907	DV 1001007
<b>D</b>	0.50 / 12.5	0.87 / 22	1.06 / 27	1.30 / 33	1.80 / 46
<b>L</b>	1.97 / 50	1.97 / 50	1.97 / 50	1.97 / 50	1.97 / 50

<b>URD</b>	<b>Rated Voltage</b> [U <sub>n</sub> ] 500V <sub>AC</sub>	<b>Rated Breaking Test Capacity</b> 100kA	<b>Test Voltage</b> 500V <sub>AC</sub>	<b>Class</b> gR	<b>Standard(s)</b> IEC 60269-4 VDE 0636 Part 40 DIN 49365
<b>ND, DII, DIII, DIV &amp; DV</b>					

**Cut-Off current Characteristics**



**Time-Current Characteristics**



<b>URD</b>	<b>Rated Voltage</b> [U <sub>n</sub> ] 440V <sub>AC</sub>	<b>Rated Breaking Test Capacity</b> 100kA	<b>Class</b> gR	<b>Standard(s)</b> IEC 60269-4 VDE 0636 Part 40 DIN 49522
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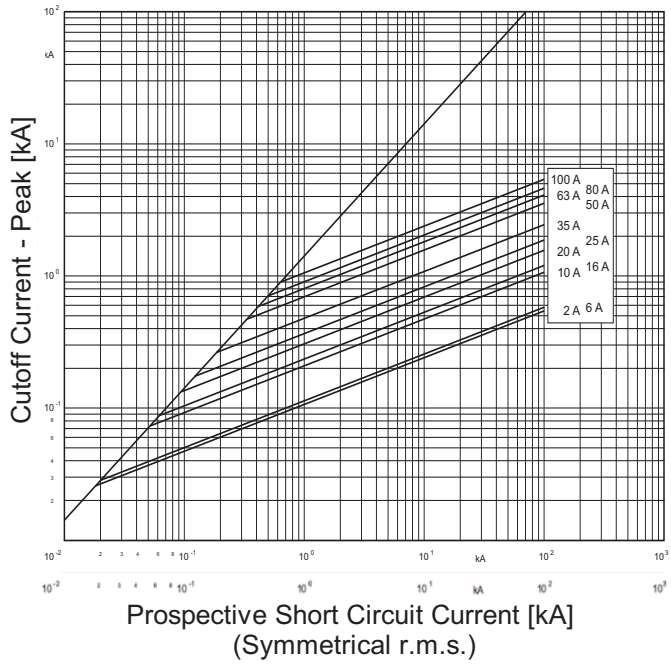
**D01, D02 & D03**

Rated Current [A]	D01 Article Number	D02 Article Number	D03 Article Number	Power Loss [W]	Pre-arc i <sup>2</sup> t [A <sup>2</sup> s]	Total i <sup>2</sup> t @ 230V <sub>DC</sub> [A <sup>2</sup> s]	Total i <sup>2</sup> t @ 400V <sub>AC</sub> [A <sup>2</sup> s]
2				2.5	1	1.5	3.5
6	1002707.6			3.3	4	6	10
10	1002707.10			4.3	10	15	25
16	1002707.16			5.9	25	40	65
20		1002807.20		5	60	60	100
25		1002807.25		6	100	100	170
35		1002807.35		8	140	240	400
50		1002807.50		11	420	900	1 500
63		1002807.63		15	640	1 450	2 400
80			1002907.80	18	860	2 000	3 300
100			1002907.100	22	1 400	3 400	5 600
Weight [kg per 1]							
	0.006	0.014	0.042				
	Units per Package	Units per Package	Units per Package				
	50	25	25				

Dimensions [in / mm]			
	D01 1002707	D02 1002807	D03 1002907
<b>D</b>	0.43 / 11	0.60 / 15.3	0.90 / 22.5
<b>L</b>	1.42 / 36	1.97 / 50	1.70 / 43

<b>URD</b>	<b>Rated Voltage</b> [U <sub>n</sub> ] 440V <sub>AC</sub>	<b>Rated Breaking Test Capacity</b> 100kA	<b>Rated Breaking Test Voltage</b> 500V <sub>AC</sub>	<b>Class</b> gR	<b>Standard(s)</b> IEC 60269-4 VDE 0636 Part 40 DIN 49522
<b>D01, D02 &amp; D03</b>					

**Cut-Off current Characteristics**



**Time-Current Characteristics**

