

Fuses for Semiconductor Protection

North American and European Standard Type SQB


Sizes 1, 2, 3 and 4



SIBA square body fuses type SQB are available in four different body sizes. Each size is available in various mounting styles for global applications. Variety in body sizes, mounting style and amp ratings allow maximum flexibility in equipment design.

SIBA SQB fuses provide superior engineering for the protection of today's power semiconductors. The silica-ated process, together with special shape and form of the pure silver melting elements, give excellent results of low I^2t -values and high interrupting ratings. They are also the most reliable under high cyclic loading conditions.

All fuses can be fitted with microswitches.

Approvals:	 Recognition
Standards:	DIN 43653 DIN VDE 0636-40 IEC 60269-4 UL 248-13
Class:	aR
Voltage ratings:	AC 700 V / AC 1300 V
Current ratings:	50 to 3000 A
Sizes:	1, 2, 3 and 4
Tested at:	acc. IEC - $1.1 \times U_n$ acc. UL - $1.0 \times U_n$

Features / Benefits

- ▶ High interrupting rating 200 kA
- ▶ Very low I^2t -values
- ▶ Voltage ratings AC 690/700 V and AC 1250/1300 V
- ▶ Satisfies for North American and European standard
- ▶ Reliable also at high cyclic loading
- ▶ Fuse-bases and accessories are available



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Size **SQB3** Rated Voltage **AC 500-550-600-690/700 V** Standard **Micro Switch Fitting DIN 43653 / Metric Thread**

Rated Current [A]	Part No.	UL Rec.	Rated Voltage [V]	Weight [kg/1]	Pack
500	20 681 32.500	✓	690/700	0.50	3
550	20 681 32.550	✓	690/700	0.50	3
630	20 681 32.630	✓	690/700	0.50	3
700	20 681 32.700	✓	690/700	0.50	3
800	20 681 32.800	✓	690/700	0.50	3
900	20 681 32.900	✓	690/700	0.50	3
1 000	20 681 32.1000	✓	690/700	0.50	3
1 100	20 681 32.1100	✓	690/700	0.50	3
1 250	20 681 32.1250	✓	690/700	0.50	3
1 400	20 681 32.1400	✓	690/700	0.50	3
1 500	20 681 32.1500		600	0.50	3
1 600	20 681 32.1600		600	0.50	3
1 800	20 681 52.1800		550	0.66	2
2 000	20 681 52.2000		550	0.66	2
2 250	20 681 52.2250		500	0.66	2

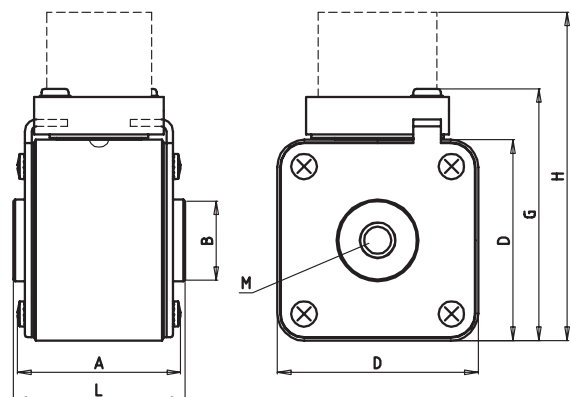
Techn. Data
Page URS 72

20 681 32

- A** 1.93" (49 mm)
- B** 1.10" (28 mm)
- D** 2.87" (73 mm)
- G** 3.46" (88 mm)
- H** 4.37" (111 mm)
- L** 2.00" (51 mm)
- M** M12

20 681 52

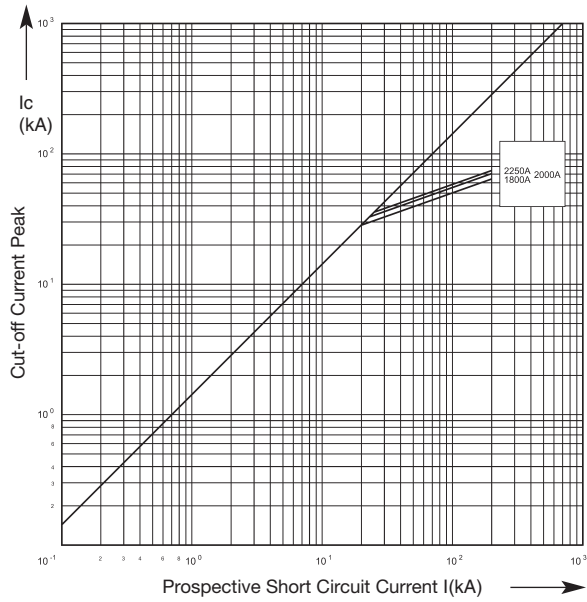
- A** 1.93" (49 mm)
- B** 1.10" (28 mm)
- D** 2.87" (73 mm)
- G** 3.46" (88 mm)
- H** 4.37" (111 mm)
- L** 2.32" (59 mm)
- M** M12



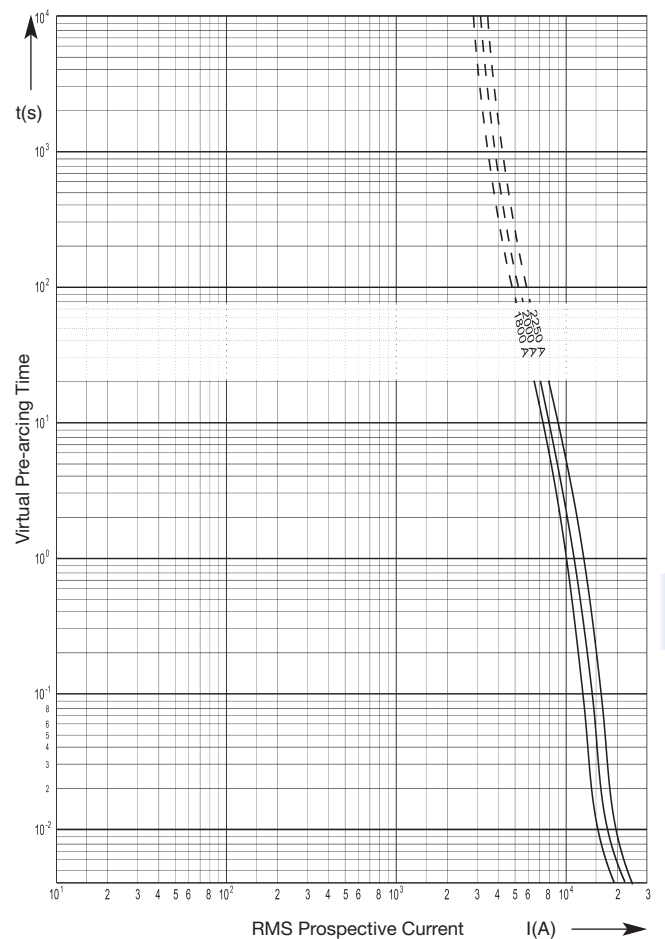
Size SQB3	Rated Voltage AC 550/500 V	Operating Class aR	Rated Breaking Capacity 200 kA
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Rated Current [A]	Rated Voltage IEC 60269-4 [V]	Rated Voltage UL 248-13 [V]	Power Loss [W]	Pre-arcing I ² t-value [A ² s]	Total I ² t-value [A ² s]
1 800	550	–	225	795 000	3 720 000
2 000	550	–	250	1 000 000	4 950 000
2 250	500	–	275	1 190 000	6 000 000

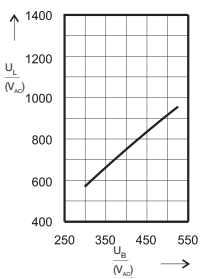
Cut-Off Characteristics



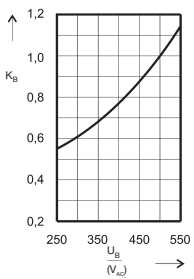
Time-Current Characteristics



Arc voltage-Diagram



Reduction factor for total I²t-value



Reduction factor for power loss

