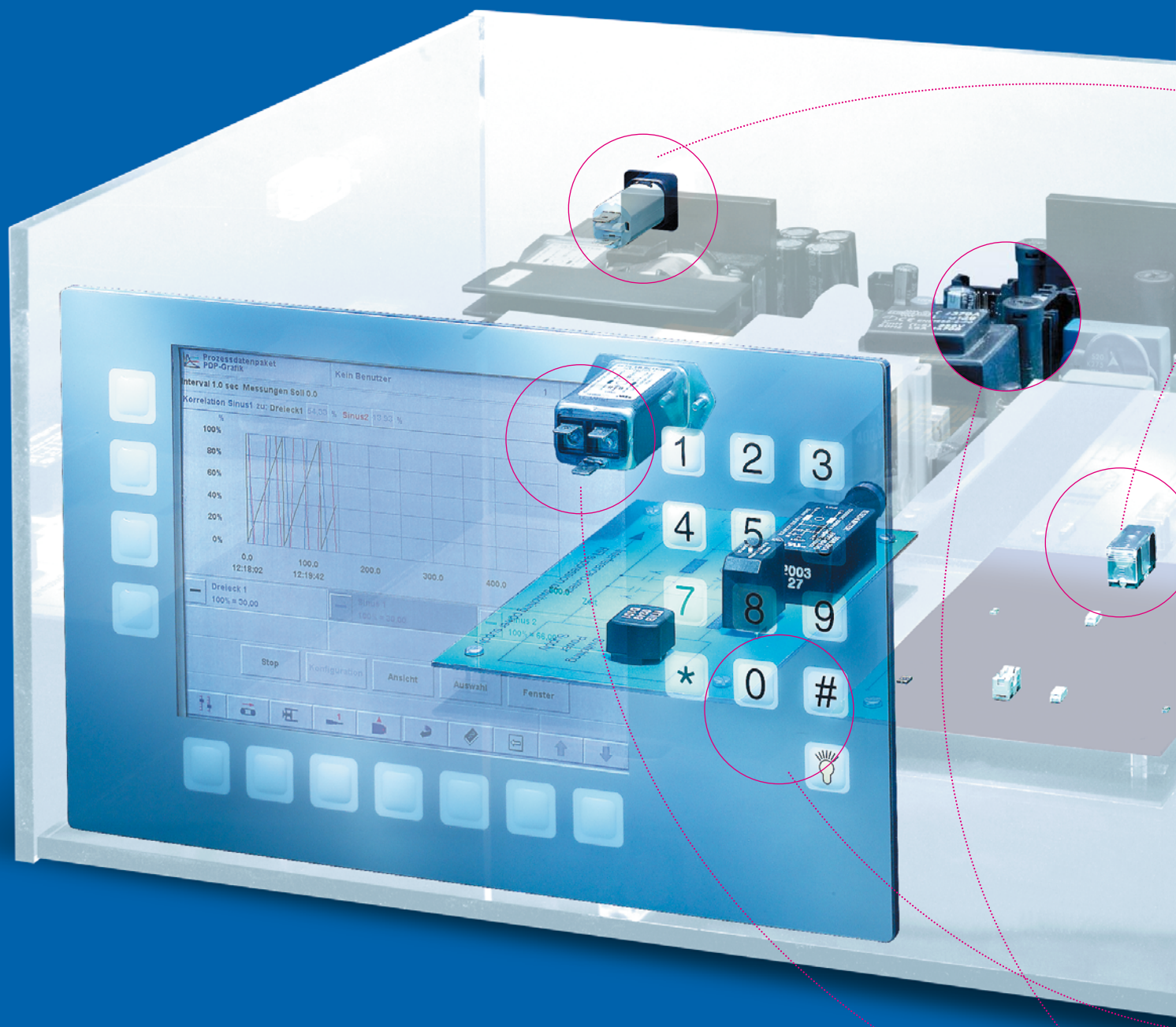


Non resettable Fuses



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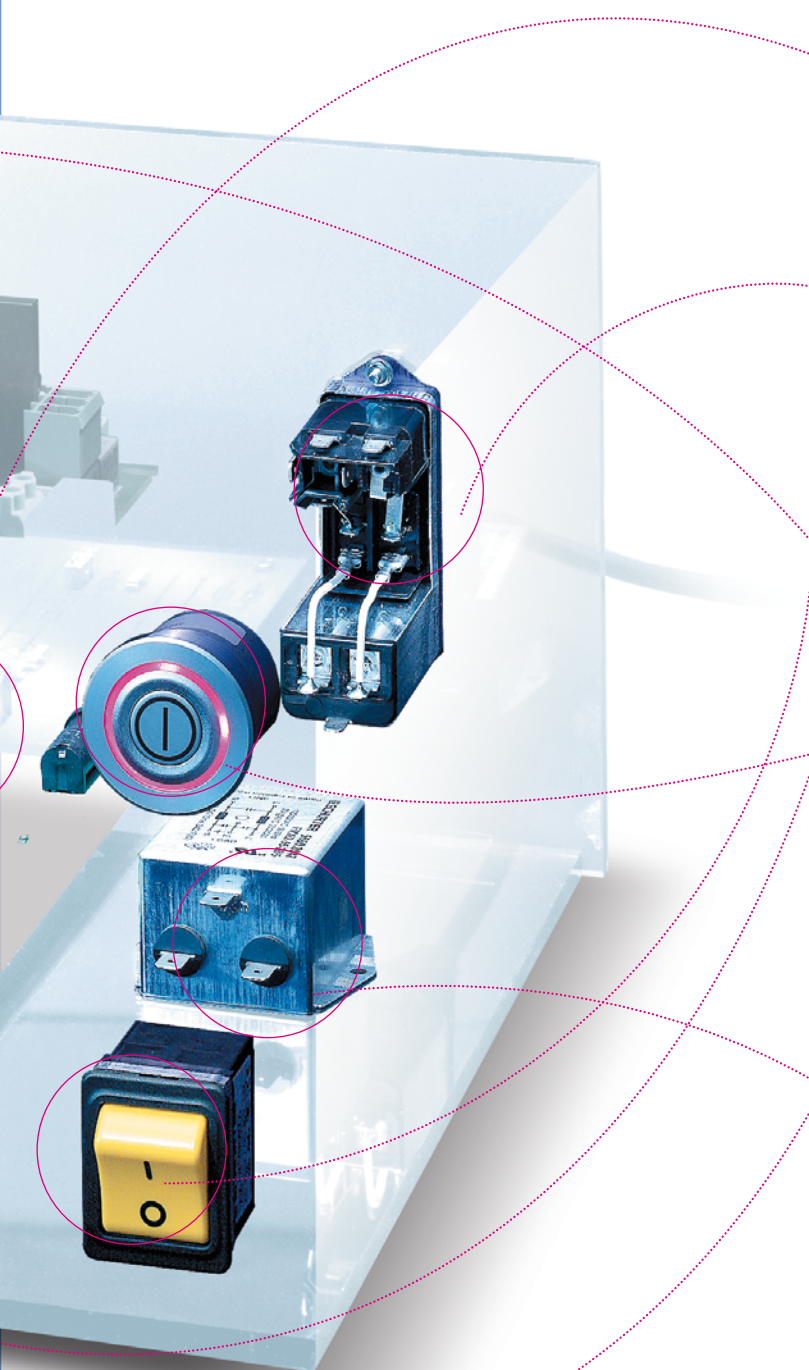


“We rely on reliability and flexibility; that is why we produce your products by our qualified and motivated employee.”

Battista Filippini, CEO Ticomel SA (a member of the SCHURTER Group)

> the Schurter Range at the Glance

SCHURTER is a progressive innovator and manufacturer of fuses, connectors, circuit breakers, input systems, EMC products and manufacturing services for the electronics industry. We focus on components that ensure safe supply of power and make the interface between human and machine easier.



■ fuses

- non resettable fuses
- telecom fuses
- resettable fuses
- fuseholders
- fuseholders blocks & clips

■ connectors

- power entry modules without line filter
- power entry modules with line filter
- appliance couplers
- cord connectors (rewireable)
- distribution units
- cord sets

■ circuit breakers

- thermal (t- and ta-line)
- thermal-magnetic (tm- and as-line)
- undervoltage protection
- power entry modules with CBE

■ input systems

- printmount switches
- frontpanel switches
- public transport switch
- metal line switches
- sensor switches
- membrane keypads
- sensor keypad
- metal line keypads
- touch panel / touch screen
- housing systems and front panels

■ EMC products

- power entry modules with line filter
- 1-phase line filters
- 3-phase line filters
- chokes
- pulse transformers
- power stage driver modules

■ other products

- voltage selector
- test jacks & probes
- indicators
- data & signal, audio, dc/ din connectors

■ EMS

- Electronic Manufacturing Services

Description Approvals	Rated Current	Characteristic	Dimensions	Rated Voltage Breaking Capacity	Web Reference or Type
SURFACE MOUNT FUSE					
 Surface Mount Fuse, 1.05 x 0.55 mm, Super-Quick-Acting FF, 32 VDC  	0.375 - 5A	Super-Quick-Acting FF	1.05 x 0.55 mm	- 32VDC - 35A	USF 0402 18
 Surface Mount Fuse, 1.6 x 0.8 mm, Super-Quick-Acting FF, 32 VAC, 32 VDC  	0.5 - 5A	Super-Quick-Acting FF	1.6 x 0.8 mm	- 32VAC / 32VDC - 50A	USF 0603 20
 Surface Mount Fuse, 3.2 x 1.6 mm, Super-Quick-Acting FF, 32 VAC, 63 VDC  	0.375 - 4A	Super-Quick-Acting FF	3.2 x 1.6 mm	- 32VAC / 63VDC - 50A	USF 1206 22
 Surface Mount Fuse, 3.2 x 1.6 mm, Quick-Acting F, 32 VAC, 63 VDC    	0.5 - 6.3A	Quick-Acting F	3.2 x 1.6 mm	- 32VAC / 63VDC - 63A	USI 1206 24
 SMD Fuse, 3.2 x 1.6 mm, Slow-Blow, 32 VAC, 63 VDC   new	7 - 25A	Slow-Blow	3.2 x 1.6 mm	- 32VAC / 63VDC - 100 - 400A	UST 1206 26
 Surface Mount Fuse, 3.2 x 1.55 mm, Super-Quick-Acting FF, 125 VAC, 125 VDC, 150 °C  	0.2 - 5A	Super-Quick-Acting FF	3.2 x 1.6 mm	- 125VAC / 125VDC - 50A	MGA 28
 Surface Mount Fuse for Space Application, ESCC QPL Listed new	0.14 - 3.5A	Super-Quick-Acting FF	3.2 x 1.6 mm	- 125VAC / 125VDC - 50 - 300A	MGA-S 30
 Surface Mount Fuse, 10.1 x 3 mm, Time-Lag T, 250 VAC, 125 VDC      	0.08 - 10A	Time-Lag T	10.1 x 3 mm	- 250VAC / 125VDC - 35 - 200A	UMT 250 33

	Description Approvals	Rated Current	Characteristic	Dimensions	Rated Voltage Breaking Capacity	Web Reference or Type
 new	Surface Mount Fuse with Clip, 11.1 x 3.8 mm, Time-Lag T, UMZ 250 = UMT 250 (Au) + UMC 250	0.315 - 4A	Time-Lag T	11.1 x 3.8 mm	- 250VAC / 125VDC - 200A	UMZ 250 36
 UL	Surface Mount Fuse, 7 x 2 mm, Quick-Acting F, 125 VAC, 125 VDC	0.063 - 15A	Quick-Acting F	7 x 2 mm	- 125VAC / 125VDC - 300A	172876 39
 UL	Surface Mount Fuse, 7 x 2.54 mm, Quick-Acting F, 125 VAC, 125 VDC	0.063 - 15A	Quick-Acting F	7 x 2.54 mm	- 125VAC / 125VDC - 300A	MKF 41
 UL	Surface Mount Fuse, 7 x 2 mm, Time-Lag T, 125 VAC, 125 VDC	0.75 - 15A	Time-Lag T	7 x 2 mm	- 125VAC / 125VDC - 50 - 150A	MSB 43
 UL	Surface Mount Fuse, 7 x 2.54 mm, Time-Lag T, 125 VAC, 125 VDC	2 - 15A	Time-Lag T	7 x 2.54 mm	- 125VAC / 125VDC - 50 - 150A	MKT 45
 UL CCC	Surface Mount Fuse, 7.4 x 3.1 mm, Quick-Acting F, 63 VAC, 63 VDC	0.063 - 10A	Quick-Acting F	7.4 x 3.1 mm	- 63VAC / 63VDC - 50A	OMF 63 47
 UL	Surface Mount Fuse, 7 x 2 mm, Time-Lag T, 125 VAC, 125 VDC	0.75 - 15A	Time-Lag T	7 x 2 mm	- 125VAC / 125VDC - 50 - 150A	MSB 43
 CCC	Surface Mount Fuse with Holder, 12 x 5.2 mm, Quick-Acting F, 63 VAC, 63 VDC	0.063 - 5A	Quick-Acting F	12 x 5.2 mm	- 63VAC / 63VDC - 50A	OMK 63 52

	Description Approvals	Rated Current	Characteristic	Dimensions	Rated Voltage Breaking Capacity	Web Reference or Type
	Surface Mount Fuse, 7.4 x 3.1 mm, Quick-Acting F, 125 VAC, 125 VDC  	0.063 - 10A	Quick-Acting F	7.4x3.1 mm	- 125VAC / 125VDC - 100A	OMF 125 54
	Surface Mount Fuse with Holder, 12 x 5.2 mm, Quick-Acting F, 125 VAC, 125 VDC CCC	0.063 - 5A	Quick-Acting F	12x5.2 mm	- 125VAC / 125VDC - 100A	OMK 125 57
	Surface Mount Fuse, 7.4 x 3.1 mm, Time-Lag T, 125 VAC, 125 VDC  	0.25 - 5A	Time-Lag T	7.4x3.1 mm	- 125VAC / 125VDC - 100A	OMT 125 59
	Surface Mount Fuse with Holder, 12 x 5.2 mm, Time-Lag T, 125 VAC, 125 VDC CCC	0.25 - 5A	Time-Lag T	12x5.2 mm	- 125VAC / 125VDC - 100A	OMZ 125 61
	Surface Mount Fuse, 11 x 4.6 mm, Quick-Acting F, 250 VAC, 250 DC     	0.25 - 4A	Quick-Acting F	11x4.6 mm	- 250VAC / 250VDC - 100A	OMF 250 63
	Surface Mount Fuse, 11 x 4.6 mm, Time-Lag T, 250 VAC  	0.75 - 5A	Time-Lag T	11x4.6 mm	- 250VAC - 50 - 100A	OMT 65
	Surface Mount Fuse, 5 x 20 mm, Time-Lag T, L, 250 VAC, Au plating  	0.05 - 20A	Time-Lag T	5x20 mm	- 250VAC - 35 - 125A	SMD-FST 67
	Surface Mount Fuse, 5 x 20 mm, Time-Lag T, H, 250 VAC, Au plating  	1 - 16A	Time-Lag T	5x20 mm	- 250VAC / 300VDC - 500 - 1500A	SMD-SPT 70



Description Approvals	Rated Current	Characteristic	Dimensions	Rated Voltage Breaking Capacity	Web Reference or Type
Surface Mount Fuse, 5 x 20 mm, Super-Time-Lag TT, L, 250 VAC, Au plating 	0.16 - 4A	Super-Time-Lag TT	5 x 20 mm	- 250VAC - 35A	SMD-FTT 73

For customer specific solutions, please contact us. www.schurter.com/contact
General Product Information see Fuses page 216



UMZ 250: The Successful SMD Fuse UMT 250 with Clip Option

The clip model ensures that the equipment manufacturer must specify the fuse which must be used in case of fuse failure. The can have the following advantages:

- The electrical specification of the fuse is the same, no replacement by a low cost product
- Spare fuses can be sold for higher prices
- Manufacturer has control over the number of failures in the field



SIX SIGMA uses process output

We base our decisions on data and facts. We identify the needs of our customers, measure process output, analyse results and take corrective action.

Description Approvals	Rated Current	Characteristic	Dimensions	Rated Voltage Breaking Capacity	Web Reference or Type
SUBMINIATURE FUSE					
 Subminiature Fuse, 6.4 mm, Quick-Acting F, 125 VAC, 125 VDC 	0.1 - 5A	Quick-Acting F	6.4 x 6.4 mm	- 125VAC / 125VDC - 100A	MSF 125 76
 Subminiature Fuse, 8.5 mm, Quick-Acting F, 250 VAC, 250 VDC 	0.04 - 5A	Quick-Acting F	8.5 x 8.5 mm	- 250VAC - 35A	MSF 250 79
 Subminiature Fuse, 8.5 mm, Time-Lag T, 250 VAC, 35 A 	0.05 - 6.3A	Time-Lag T	8.5 x 8.5 mm	- 250VAC - 35 - 63A	MST 250 83
 Subminiature Fuse, 8.5 mm, Time-Lag T, 250 VAC, cULus 	0.063 - 10A	Time-Lag T	8.5 x 8.5 mm	- 250VAC - 50A	MSTU 250 86
 Subminiature Fuse, 8.5 mm, Time-Lag T, 250 VAC, 100 A 	0.8 - 10A	Time-Lag T	8.5 x 8.5 mm	- 250VAC - 100A	MXT 250 89
 Subminiature Fuse, 2.3 x 8 mm, Quick-Acting F, 125 VAC, 125 VDC	0.063 - 15A	Quick-Acting F	8 x 2.36 mm	- 125VAC / 125VDC - 300A	172321 92
 Subminiature Fuse, 2.3 x 8 mm, Quick-Acting F, IEC, 125 VAC, 125 VDC 	0.063 - 15A	Quick-Acting F	8 x 2.36 mm	- 125VAC / 125VDC - 50 - 300A	172322 94
 Subminiature Fuse, 3.8 x 10 mm, Quick-Acting F, 250 VAC, 125 VDC 	0.05 - 5A	Quick-Acting F	10 x 3.8 mm	- 250VAC / 125VDC - 50 - 300A	172593 96

Description Approvals	Rated Current	Characteristic	Dimensions	Rated Voltage Breaking Capacity	Web Reference or Type
 Subminiature Fuse, 3.8 x 10 mm, Time-Lag T, 125 VAC, 125 VDC 	0.125 - 10A	Time-Lag T	10x3.8mm	- 125VAC / 125VDC - 50 - 100A	172844 98
 Subminiature Fuse, 3.6 x 10 mm, Time-lag T, 250 VAC 	0.1 - 5A	Time-Lag T	11x3.9mm	- 250VAC - 35 - 40A	SPT 3.6x10 100

new

For customer specific solutions, please contact us. www.schurter.com/contact
 General Product Information see Fuses page 216



USI 1206: First IEC Compliant Secondary Fuse with 1206 Footprint

The 1206 footprint [3.2x1.6 mm] becomes standard size for industrial applications in secondary overcurrent protection. The "Universal Modular Fuse UMF" has quick-acting characteristic according to IEC 60127-4 and allows to save space on printed circuit boards and increase density of components.

Description Approvals	Rated Current	Characteristic	Dimensions	Rated Voltage Breaking Capacity	Web Reference or Type
MINIATURE FUSE					
 Miniature Fuse, 5 x 20 mm, Quick-Acting F, L, 250 VAC     	0.032 - 10A	Quick-Acting F	5x20 mm	- 250VAC - 35 - 100A	FSF 5x20 102
 Miniature Fuse with Pigtail, 5.4 x 22.5 mm, Quick-Acting F, L, 250 VAC 	0.5 - 10A	Quick-Acting F	22.5x5.4 mm	- 250VAC - 35 - 100A	FSF 5x20 Pigtail 105
 Miniature Fuse, 5 x 20 mm, Time-Lag T, L, 250 VAC     	0.02 - 20A	Time-Lag T	5x20 mm	- 250VAC - 35 - 200A	FST 5x20 107
 Miniature Fuse with Pigtail, 5.4 x 22.5 mm, Time-Lag T, L, 250 VAC 	0.05 - 20A	Time-Lag T	22.5x5.4 mm	- 250VAC - 35 - 200A	FST 5x20 Pigtail 110
 Miniature Fuse, 5 x 20 mm, Quick-Acting F, H, 250 VAC      	0.5 - 16A	Quick-Acting F	5x20 mm	- 250VAC - 500 - 1500A	SP 5x20 113
 Miniature Fuse with Pigtail, 5.4 x 22.5 mm, Quick-Acting F, H, 250 VAC 	0.5 - 16A	Quick-Acting F	22.5x5.4 mm	- 250VAC - 500 - 1500A	SP 5x20 Pigtail 115
 Miniature Fuse, 5 x 20 mm, Time-Lag T, H, 250 VAC, UL: 115 V - 300 VDC      	0.5 - 16A	Time-Lag T	5x20 mm	- 250VAC / 300VDC - 500 - 1500A	SPT 5x20 118
 Miniature Fuse with Pigtail, 5.4 x 22.5 mm, Time-Lag T, H, 250 VAC, UL: 115 - 300 VDC 	0.5 - 16A	Time-Lag T	22.5x5.4 mm	- 250VAC / 300VDC - 500 - 1500A	SPT 5x20 Pigtail 121

	Description Approvals	Rated Current	Characteristic	Dimensions	Rated Voltage Breaking Capacity	Web Reference or Type
	Miniature Fuse, 5 x 20 mm, Quick-Acting F, cULus, 250 VAC 	0.05 - 6.3A	Quick-Acting F	5 x 20 mm	- 250VAC - 32 - 10 kA	FSK 5x20 124
	Miniature Fuse with Pigtail, 5.4 x 22.5 mm, Quick-Acting F, cULus, 250 VAC 	0.05 - 6.3A	Quick-Acting F	22.5 x 5.4 mm	- 250VAC - 32 - 10 kA	FSK 5x20 Pigtail 127
	Miniature Fuse, 5 x 20 mm, Time-Lag T, cULus, 250 VAC 	0.08 - 3A	Time-Lag T	5 x 20 mm	- 250VAC - 35 - 10 kA	FSL 5x20 130
	Miniature Fuse with Pigtail, 5.4 x 22.5 mm, Time-Lag T, cULus, 250 VAC 	0.08 - 3A	Time-Lag T	22.5 x 5.4 mm	- 250VAC - 35 - 10 kA	FSL 5x20 Pigtail 132
	Miniature Fuse, 5 x 20 mm, Super-Quick-Acting FF, 250 VAC	1.6 - 10A	Super-Quick-Acting FF	5 x 20 mm	- 250VAC - 1500A	SA 5x20 134
	Miniature Fuse, 5 x 20 mm, Medium-Time-Lag M, 250 VAC	0.315 - 10A	Medium-Time-Lag M	5 x 20 mm	- 250VAC - 80 - 1000A	FSM 5x20 136
	Miniature Fuse, 5 x 20 mm, Super-Time-Lag TT, 250 VAC 	0.063 - 4A	Super-Time-Lag TT	5 x 20 mm	- 250VAC - 35A	FTT 5x20 138
	Miniature Fuse, 5 x 20 mm, Quick-Acting F, NF, 220 VAC 	0.02 - 20A	Quick-Acting F	5 x 20 mm	- 220VAC - 60 - 300A	D1 140

	Description Approvals	Rated Current	Characteristic	Dimensions	Rated Voltage Breaking Capacity	Web Reference or Type
	Miniature Fuse, 5 x 20 mm, Super-Time-Lag TT, NF, 220 VAC 	0.031 - 15A	Super-Time-Lag TT	5x20 mm	- 220VAC - 40 - 100A	D1TD 143
	Miniature Fuse, 6.3 x 32 mm, Quick-Acting F, 250 VAC	0.1 - 10A	Quick-Acting F	6.3x32 mm	- 250VAC - 35 - 100A	FSF 6.3x32 146
	Miniature Fuse, 6.3 x 32 mm, Time-Lag T, 250 VAC	0.02 - 20A	Time-Lag T	6.3x32 mm	- 250VAC - 35 - 200A	FST 6.3x32 148
	Miniature Fuse, 6.3 x 32 mm, Quick-Acting F, Sand, 250 VAC	0.5 - 20A	Quick-Acting F	6.3x32 mm	- 250VAC - 1000 - 1500A	SP 6.3x32 151
	Miniature Fuse, 6.3 x 32 mm, Time-Lag T, Sand, 250 VAC 	0.5 - 32A	Time-Lag T	6.3x32 mm	- 250VAC - 1000 - 1500A	SPT 6.3x32 153
	Miniature Fuse, 6.3 x 32 mm, Quick-Acting F, UL, 250 VAC 	0.1 - 15A	Quick-Acting F	6.3x32 mm	- 250VAC - 200 - 10kA	FSF 6.3x32 (UL) 155
	Miniature Fuse, 6.3 x 32 mm, Time-Lag T, UL, 250 VAC 	0.63 - 15A	Time-Lag T	6.3x32 mm	- 250VAC - 35 - 10kA	FST 6.3x32 (UL) 157
	Miniature Fuse, 6.3 x 32 mm, Super-Quick-Acting FF, 250 VAC	1.6 - 16A	Super-Quick-Acting FF	6.3x32 mm	- 250VAC - 1500A	SA 6.3x32 160

	Description Approvals	Rated Current	Characteristic	Dimensions	Rated Voltage Breaking Capacity	Web Reference or Type
	Miniature Fuse, 6.3 x 32 mm, Quick-Acting F, NNO, 220 VAC	0.04 - 20A	Quick-Acting F	6.3 x 32 mm	- 220VAC - 100 - 500A	D8 162
	Miniature Fuse, 6.3 x 32 mm, Quick-Acting F, 125 VAC, 125 VDC	0.16 - 6.3A	Quick-Acting F	6.3 x 32 mm	- 125VAC / 125VDC - 5 kA	D8M 125V 165
	Miniature Fuse, 6.3 x 32 mm, Quick-Acting F, 10 A, 125 VAC, 125 VDC	10A	Quick-Acting F	6.3 x 32 mm	- 125VAC / 125VDC - 5 kA	A12M 125V 167
	Miniature Fuse, 6.3 x 32 mm, Super-Time-Lag TT, NNO, 220 VAC	0.012 - 30A	Super-Time-Lag TT	6.3 x 32 mm	- 220VAC - 100A	D8TD 169
 	Miniature Fuse, 6.3 x 32 mm, Super-Quick-Acting FF, 250 VAC	0.1 - 16A	Super-Quick-Acting FF	6.3 x 32 mm	- 250VAC - 200 kA	A12FA 250V 172
 	Miniature Fuse, 6.3 x 32 mm, Super-Quick-Acting FF, 380 VAC	0.1 - 12.5A	Super-Quick-Acting FF	6.3 x 32 mm	- 380VAC - 150 kA	A12FA 380V 174
 	Miniature Fuse, 6.3 x 32 mm, Super-Quick-Acting FF, 500 VAC	0.1 - 12.5A	Super-Quick-Acting FF	6.3 x 32 mm	- 500VAC - 10 - 150 kA	A12FA 500V 176
 	Miniature Fuse, 6.3 x 32 mm, Super-Quick-Acting FF, 660 VAC	0.1 - 2A	Super-Quick-Acting FF	6.3 x 32 mm	- 660VAC - 30 kA	A12FA 660V 178

	Description Approvals	Rated Current	Characteristic	Dimensions	Rated Voltage Breaking Capacity	Web Reference or Type
	Miniature Fuse, 6.3 x 32 mm, Quick-Acting F, UL, NNO, 250 VAC 	0.125 - 25A	Quick-Acting F	6.3x32 mm	- 250VAC - 35 - 10 kA	A12BK 180
	Miniature Fuse, 6.3 x 32 mm, Time-Lag T, UL, NNO, 250 VAC 	0.125 - 20A	Time-Lag T	6.3x32 mm	- 250VAC - 35 - 10 kA	172600 183
	Miniature Fuse, 6.3 x 32 mm, Quick-Acting F, GAM T1, 250 VAC, 125 VDC	0.16 - 20A	Quick-Acting F	6.3x32 mm	- 250VAC / 125VDC - 1 - 10 kA	172582 186
	Miniature Fuse, 6.3 x 32 mm, Time-Lag T, GAM T1, 1.25 A, 220 VAC, 125 VDC	0.16 - 1.25A	Time-Lag T	6.3x32 mm	- 220VAC / 125VDC - 50A	D8STTD 188
	Miniature Fuse, 6.3 x 32 mm, Time-Lag T, GAM T1, 30 A, 220 VAC, 125 VDC	1.6 - 30A	Time-Lag T	6.3x32 mm	- 220VAC / 125VDC - 100A	A12TD 190
	Miniature Fuse, 4.7 x 16 mm, 125 VAC	0.063 - 10A	Quick-Acting F	4.7x16 mm	- 125VAC - 35A	D0 192
	Miniature Fuse, 10.3 x 38 mm, Quick-Acting F, UL, 300 VAC 	0.125 - 50A	Quick-Acting F	10.3x38 mm	- 300VAC - 10000A	A3BK 194
	Miniature Fuse, 10.3 x 38 mm, Quick-Acting F, 250 VAC	0.4 - 30A	Quick-Acting F	10.3x38 mm	- 250VAC - 100 - 4000A	D20K 197

	Description Approvals	Rated Current	Characteristic	Dimensions	Rated Voltage Breaking Capacity	Web Reference or Type
	Miniature Fuse, 10.3 x 38 mm, Super-Time-Lag TT, 250 VAC	0.2 - 50A	Super-Time-Lag TT	10.3x38 mm	- 250VAC - 300 - 500A	D20TD 199
	Miniature Fuse, 10.3 x 38 mm, gG, 500 VAC	0.5 - 32A	-	10.3x38 mm	- 500VAC - 120 kA	A10 gG 202
	Miniature Fuse, 10.3 x 38 mm, aM, 500 VAC	0.16 - 32A	-	10.3x38 mm	- 500VAC - 120 kA	A10 aM 205
SPECIAL FUSE						
	Special Fuse, 14 x 50 mm Quick-Acting F, 500 VAC, 250 VDC	0.5 - 40A	Quick-Acting F	14x50 mm	- 500VAC / 250VDC - 10 - 100 kA	MA 208
	Special Fuse, 14.3 x 51 mm, 500 VAC, 250 VDC	1 - 25A	-	14.3x51 mm	- 500VAC / 250VDC - 100 kA	MADM 210

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General Product Information see Fuses page [216](#)

Surface Mount Fuse, 1.05 x 0.55 mm, Super-Quick-Acting FF, 32 VDC



UL 248-14 · 32 VDC · Super-Quick-Acting FF

**Description**

- UL characteristic
- Low melting I²t-values, fast interruption

Standards

- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- UL File Number: E41599

Applications

- Secondary Protection DC and AC
- Circuits without inrush
- Semiconductor Protection
- Digital Consumer Electronics

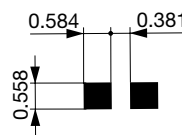
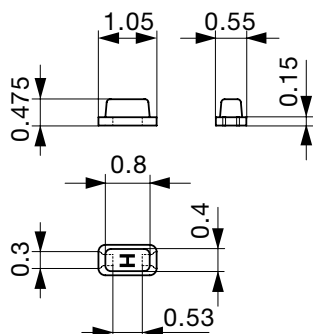
References
[General Product Information](#)
[Packaging Details](#)
Weblinks
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

Rated Voltage	24 - 32VDC
Rated Current	0.375 - 5 A
Breaking Capacity	35 A
Characteristic	Super-Quick-Acting FF
Mounting	PCB,SMT
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Housing	Thermoset
Material: Terminals	Gold-Plated Copper Alloy
Unit Weight	0.004 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	Letter (see variants)

Soldering Methods	Reflow
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	260 +0/-5 °C / 30 sec acc. to IPC/JEDEC J-STD-020D, 1 cycle
Flammability	min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12)

Dimensions

Length H 1.05 mm



Solder pads

Pre-Arcing Time

Rated Current I _n	1.0 x I _n min	2.0 x I _n max
0.375 A - 5 A	4 h	5 s

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VDC]	Marking	Breaking Capacity	Voltage Drop 1.0 In max. [mV]	Voltage Drop 1.0 In typ. [mV]	Cold Resistance typ. [mΩ]	Melting I ² t 8.0 In typ. [A ² s]		Order Number
0.375	32	E	1)	90	70	173	0.003	● ●	3414.0112.xx
0.5	32	F	1)	90	67	124	0.004	● ●	3414.0113.xx
0.75	32	G	1)	90	63	78	0.009	● ●	3414.0114.xx
1	32	H	1)	90	63	57	0.016	● ●	3414.0115.xx
1.5	32	K	1)	90	62	37	0.029	● ●	3414.0117.xx
2	32	N	1)	90	58	26	0.044	● ●	3414.0119.xx
2.5	32	O	1)	90	59	21	0.06	● ●	3414.0120.xx
3	32	P	1)	90	52	17	0.098	● ●	3414.0121.xx
4	32	S	1)	90	60	13	0.113	● ●	3414.0123.xx
5	24	T	2)	90	52	10	0.288	● ●	3414.0124.xx

1) 35 A @ 32 VDC

2) 35 A @ 24 VDC

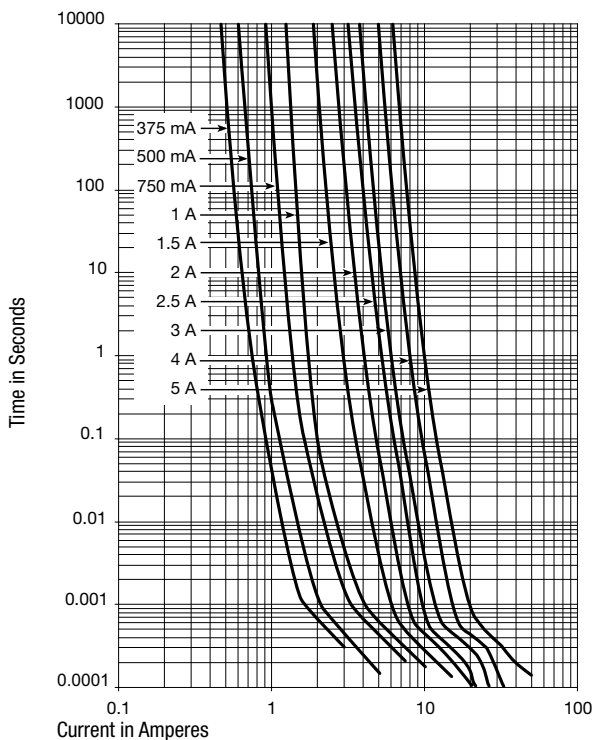
Packaging Unit

.xx = .22 Blister Tape 18 cm Reel (1000 pcs.)

.xx = .24 Blister Tape 18 cm Reel (5000 pcs.)

.xx = .26 Blister Tape 33 cm Reel (15000 pcs.)

Time-Current Curves



Surface Mount Fuse, 1.6 x 0.8 mm, Super-Quick-Acting FF, 32 VAC, 32 VDC



UL 248-14 · 32 VAC · 32 VDC · Super-Quick-Acting

**Description**

- UL characteristic
- Low melting I²t-values, fast interruption

Standards

- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- UL File Number: E41599

Applications

- Secondary Protection DC and AC
- Circuits without inrush
- Semiconductor Protection

References

[General Product Information](#)
[Packaging Details](#)

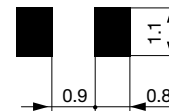
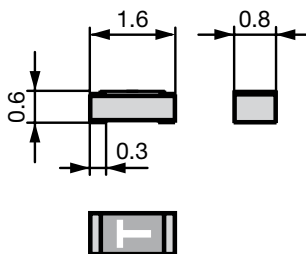
Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

Rated Voltage	32 VAC, 32 VDC
Rated Current	0.5 - 5 A
Breaking Capacity	50 A
Characteristic	Super-Quick-Acting FF
Mounting	PCB, SMT
Admissible Ambient Air Temp.	-55 °C to 90 °C
Climatic Category	55/090/21 acc. to IEC 60068-1
Material: Housing	Epoxyd Glass, UL 94V-0
Material: Terminals	Tin-Plated Copper
Unit Weight	0.0016 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	Letter (see variants)

Soldering Methods	Reflow
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	260 ±0/-5 °C / 30 sec acc. to IPC/JEDEC J-STD-020D, Level 1
Moisture Resistance Test	MIL-STD-202, Method 106E (50 cycles in a temp./mister chamber)
Terminal Strength	MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute)
Case Resistance	acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body)
Resistance to Solvents	MIL-STD-202, Method 215A
Flammability	min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12)

DimensionsLength $\bar{H}$ 1.6 mm

Solder pads

Pre-Arcing Time

Rated Current I _n	1.0 x I _n min.	2.0 x I _n max.
0.5 A - 5 A	4 h	60 s

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

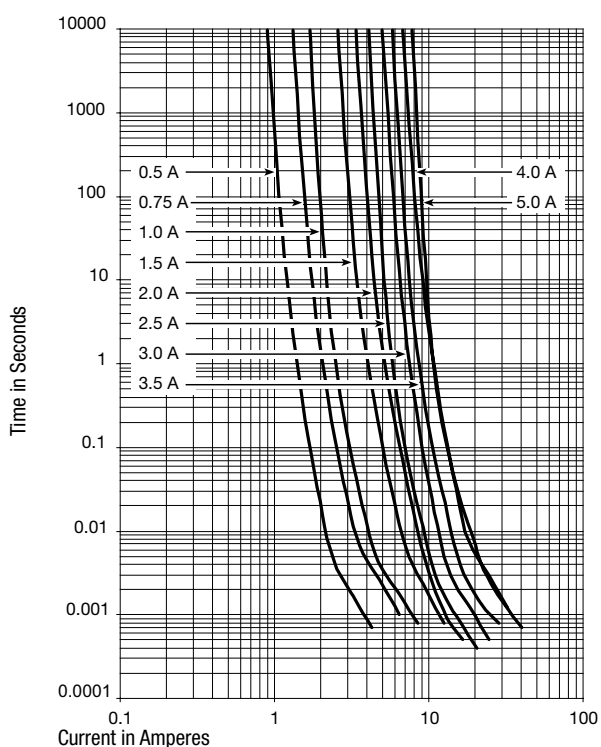
Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Marking	Breaking Capacity	Voltage Drop 1.0 In max. [mV]	Voltage Drop 1.0 In typ. [mV]	Cold Resistance typ. [mΩ]	Melting I ² t 8.0 In typ. [A ² s]		Order Number
0.5	32	32	F	1)	120	101	157	0.02	● ●	3412.0113.xx
0.75	32	32	G	1)	120	100	90	0.04	● ●	3412.0114.xx
1	32	32	H	1)	120	98	75	0.06	● ●	3412.0115.xx
1.5	32	32	K	1)	120	73	44	0.14	● ●	3412.0117.xx
2	32	32	N	1)	120	70	27.5	0.25	● ●	3412.0119.xx
2.5	32	32	O	1)	120	75	23.5	0.4	● ●	3412.0120.xx
3	32	32	P	1)	120	80	18.6	0.58	● ●	3412.0121.xx
3.5	32	32	R	1)	120	85	16	0.8	● ●	3412.0122.xx
4	32	32	S	1)	120	80	12.5	1.1	● ●	3412.0123.xx
5	32	32	T	1)	120	70	10	1.5	● ●	3412.0124.xx

1) 50 A @ 32 VAC, p.f. ≥ 0.95 / 50 A @ 32 VDC

Packaging Unit

.xx = .22 Blister Tape 18 cm Reel (1000 pcs.)
 .xx = .24 Blister Tape 18 cm Reel (5000 pcs.)
 .xx = .26 Blister Tape 33 cm Reel (15000 pcs.)

Time-Current Curves



Surface Mount Fuse, 3.2 x 1.6 mm, Super-Quick-Acting FF, 32 VAC, 63 VDC



UL 248-14 · 32 VAC · 63 VDC · Super-Quick-Acting

**Description**

- UL characteristic
- Low melting I²t-values, fast interruption

Standards

- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- UL File Number: E41599

Applications

- Secondary Protection DC and AC
- Circuits without inrush
- Semiconductor Protection

References

[General Product Information](#)
[Packaging Details](#)

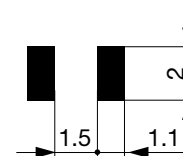
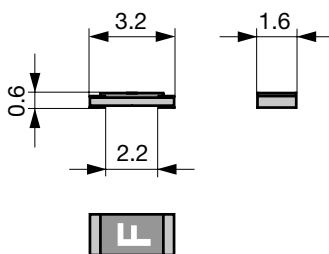
Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

Rated Voltage	32 VAC, 63 VDC
Rated Current	0.375 - 4 A
Breaking Capacity	50 A
Characteristic	Super-Quick-Acting FF
Mounting	PCB, SMT
Admissible Ambient Air Temp.	-55 °C to 90 °C
Climatic Category	55/090/21 acc. to IEC 60068-1
Material: Housing	Epoxyd Glass, UL 94V-0
Material: Terminals	Tin-Plated Copper
Unit Weight	0.006 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	Letter (see variants)

Soldering Methods	Reflow
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	260 +0/-5 °C / 30 sec acc. to IPC/JEDEC J-STD-020D, Level 1
Moisture Resistance Test	MIL-STD-202, Method 106E (50 cycles in a temp./mister chamber)
Terminal Strength	MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute)
Case Resistance	acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body)
Resistance to Solvents	MIL-STD-202, Method 215A
Flammability	min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12)

DimensionsLength  3.2 mm

Solder pads

Pre-Arcing Time

Rated Current I _n	1.0 x I _n min.	2.0 x I _n max.
0.375 A - 5 A	4 h	60 s

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Marking	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	Cold Resistance typ. [mΩ]	Melting I ² t 8.0 In typ. [A ² s]		Order Number
0.375	32	63	E	1)	125	315	0.01		3413.0112.xx
0.5	32	63	F	1)	100	190	0.02	● ●	3413.0113.xx
0.75	32	63	G	1)	100	120	0.05	● ●	3413.0114.xx
1	32	63	H	1)	100	84	0.07	● ●	3413.0115.xx
1.25	32	63	J	1)	100	48	0.12	● ●	3413.0116.xx
1.5	32	63	K	1)	100	41.5	0.24	● ●	3413.0117.xx
2	32	63	N	1)	85	33	0.13	● ●	3413.0119.xx
2.5	32	63	O	1)	85	20.5	0.35	● ●	3413.0120.xx
3	32	63	P	1)	85	17	0.8	● ●	3413.0121.xx
4	32	63	S	1)	80	14	0.3	● ●	3413.0123.xx

1) UL: 50 A @ 32 VAC, p.f. ≥ 0.95 / 50 A @ 63 VDC

1) Additional internal testing: 150 A @ 24 VAC/DC, 400 A @ 12 VDC, 600 A @ 9 VDC

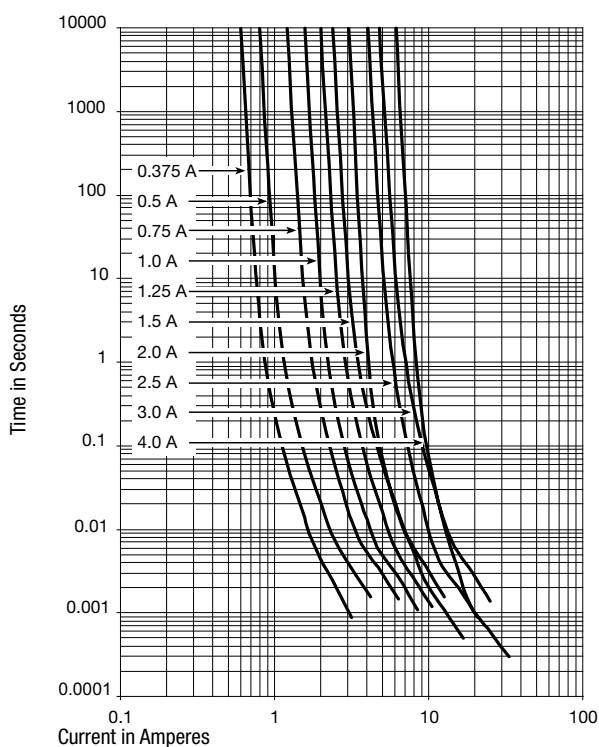
Packaging Unit

.xx = .22 Blister Tape 18 cm Reel (1000 pcs.)

.xx = .24 Blister Tape 18 cm Reel (5000 pcs.)

.xx = .26 Blister Tape 33 cm Reel (15000 pcs.)

Time-Current Curves



Surface Mount Fuse, 3.2 x 1.6 mm, Quick-Acting F, 32 VAC, 63 VDC



IEC 60127-4 · 32 VAC · 63 VDC · Quick-Acting F



Description

- IEC characteristic
- High melting I²t-values

Standards

- IEC 60127-4/2
- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- VDE License Number: 40017666
- UL File Number: E41599

Applications

- Secondary Protection DC and AC
- Circuits with inrush
- Industrial electronic

References

[General Product Information](#)
[Packaging Details](#)

Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

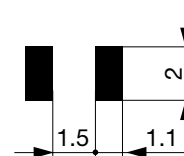
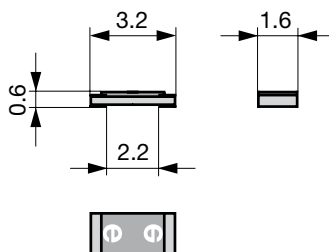
Technical Data

Rated Voltage	32 VAC, 63 VDC
Rated Current	0.5 - 6.3 A
Breaking Capacity	63 A
Characteristic	Quick-Acting F
Mounting	PCB, SMT
Admissible Ambient Air Temp.	-55 °C to 90 °C
Climatic Category	55/090/21 acc. to IEC 60068-1
Material: Housing	Epoxyd Glass
Material: Terminals	Tin-Plated Copper Alloy
Unit Weight	0.006 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	Letter (see variants)

Soldering Methods	Reflow
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	260 +0/-5 °C / 30 sec acc. to IPC/JEDEC J-STD-020D, Level 1
Moisture Resistance Test	MIL-STD-202, Method 106E (50 cycles in a temp./mister chamber)
Terminal Strength	MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute)
Case Resistance	acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body)
Resistance to Solvents	MIL-STD-202, Method 215A
Flammability	UL 94V-1 (acc. to EIA/IS-722, Test 4.12)

Dimensions

Length  3.2 mm



Solder pads

Pre-Arcing Time

Rated Current In	1.25 x In min	2.0 x In max	10.0 x In min	10.0 x In max
0.5 A - 6.3 A	60 min	120 s	1 ms	10 ms

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Marking	Breaking Capacity	Voltage Drop 1.0 In max. [mV]	Voltage Drop 1.0 In typ. [mV]	Cold Resistance typ. [mΩ]	Melting I ² t 10.0 Intyp. [A ² s]	   	Order Number
0.5	32	63	e	1)	600	201	330	0.041	● ● ●	3413.0213.xx
0.63	32	63	f	1)	500	170	230	0.076	● ● ●	3413.0214.xx
0.8	32	63	g	1)	400	110	116	0.18	● ● ●	3413.0215.xx
1	32	63	h	1)	300	108	94.2	0.2	● ● ●	3413.0216.xx
1.25	32	63	i	1)	300	96.3	67	0.31	● ● ●	3413.0217.xx
1.6	32	63	k	1)	300	94.5	50.5	0.33	● ● ●	3413.0218.xx
2	32	63	m	1)	300	80.2	33.9	0.79	● ● ●	3413.0219.xx
2.5	32	63	n	1)	300	78.8	25.3	0.94	● ● ●	3413.0220.xx
3.15	32	63	q	1)	300	65.5	17.2	1.44	● ● ●	3413.0221.xx
4	32	63	r	1)	300	62.8	12.5	2.74	● ● ●	3413.0222.xx
5	32	63	s	1)	300	61.6	9.6	4.65	● ● ●	3413.0223.xx
6.3	32	63	t	1)	300	55.3	7.1	4.84	● ● ●	3413.0224.xx

1) UL: 63 A @ 32 VAC, p.f. ≥ 0.95 / 63 A @ 63 VDC

1) Additional internal testing: 150 A @ 24 VAC/DC, 400 A @ 12 VDC, 600 A @ 9 VDC

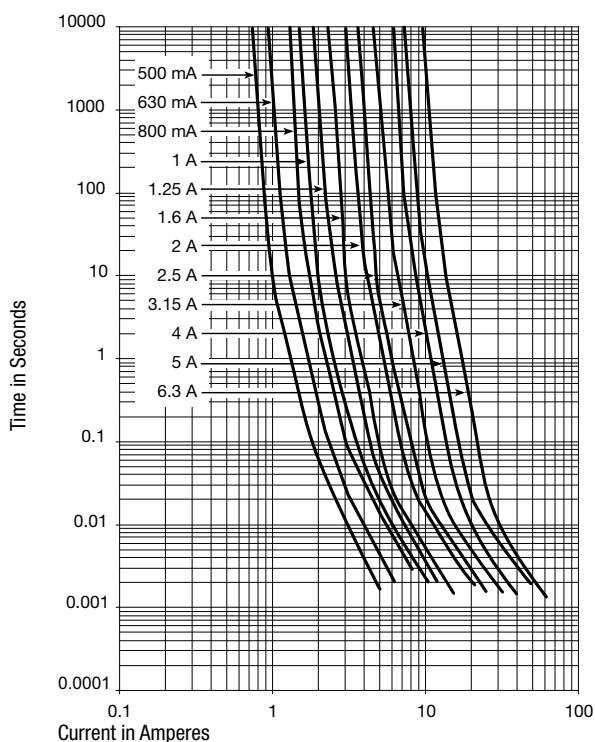
Packaging Unit

.xx = .22 Blister Tape 18 cm Reel (1000 pcs.)

.xx = .24 Blister Tape 18 cm Reel (5000 pcs.)

.xx = .26 Blister Tape 33 cm Reel (15000 pcs.)

Time-Current Curves



SMD Fuse, 3.2 x 1.6 mm, Slow-Blow, 32 VAC, 63 VDC

new



UL 248-14 · 32 VAC · 63 VDC · Slow-Blow

**Description**

- UL characteristic
- High melting I²t-values
- High current ratings up to 25 A

Standards

- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- UL File Number: E41599

Applications

- Secondary Protection DC and AC
- Circuits with inrush
- LCD Backlight DC-AC Inverter

References

[General Product Information](#)
[Packaging Details](#)

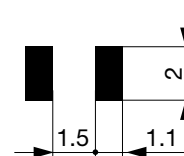
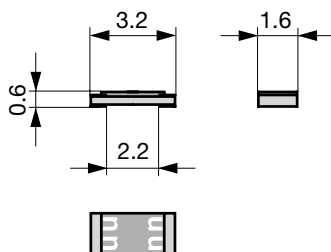
Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

Rated Voltage	24 - 32 VAC, 32 - 63 VDC
Rated Current	7 - 25 A
Breaking Capacity	100 A - 400 A
Characteristic	Slow-Blow
Mounting	PCB, SMT
Admissible Ambient Air Temp.	-55 °C to 90 °C
Climatic Category	55/090/21 acc. to IEC 60068-1
Material: Housing	Epoxyd Glass, UL 94V-0
Material: Terminals	Tin-Plated Copper
Unit Weight	0.006 g
Storage Conditions	-55 °C to 90 °C, max. 70% r.h.
Product Marking	Letter (see variants)

Soldering Methods	Reflow
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	260 ±0/-5 °C / 30 sec acc. to IPC/JEDEC J-STD-020D, Level 1
Moisture Resistance Test	MIL-STD-202, Method 106E (50 cycles in a temp./mister chamber)
Terminal Strength	MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute)
Case Resistance	acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body)
Resistance to Solvents	MIL-STD-202, Method 215A
Flammability	UL 94V-1 (acc. to EIA/IS-722, Test 4.12)

DimensionsLength  3.2 mm

Solder pads

Pre-Arcing Time

Rated Current In	1.0 x In min.	2.5 x In max.	10.0 x In min.	10.0 x In max.
7 A - 25 A	4 h	60 s	1 ms	10 ms

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Marking	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	Cold Resistance typ. [mΩ]	Melting I ² t 8.0 In typ. [A ² s]	 US	Order Number
7	32	63	mm	1)	73	8.5	8.7	●	3413.0326.xx
8	32	63	nn	1)	60	6.3	14	●	3413.0327.xx
10	32	63	oo	1)	69	5.45	21	●	3413.0328.xx
12	32	63	pp	1)	63	4.3	33	●	3413.0329.xx
15	32	63	qq	1)	57	3.15	65	●	3413.0330.xx

1) UL: 100 A @ 63 VDC, 100 A @ 32 VAC, 150 A @ 24 VAC/DC

1) Additional internal testing: 400 A @ 12 VDC, 600 A @ 9 VDC

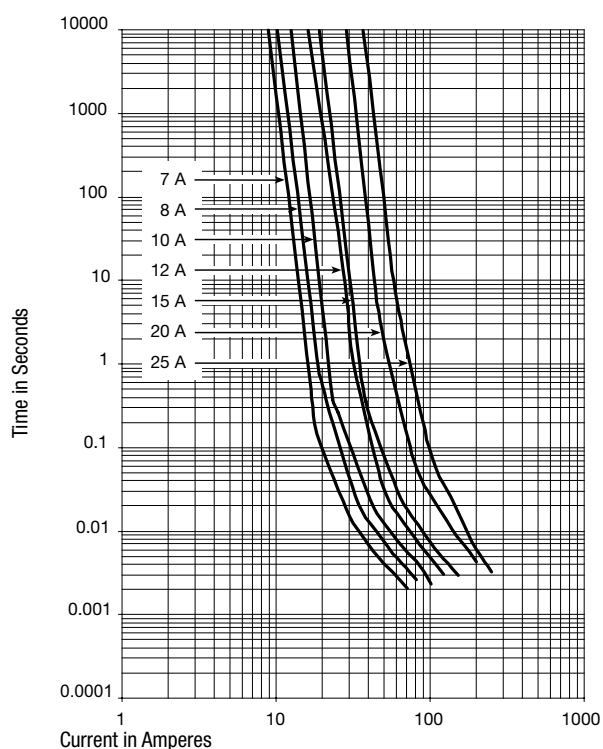
Packaging Unit

.xx = .22 Blister Tape 18 cm Reel (1000 pcs.)

.xx = .24 Blister Tape 18 cm Reel (5000 pcs.)

.xx = .26 Blister Tape 33 cm Reel (15000 pcs.)

Time-Current Curves



Surface Mount Fuse, 3.2 x 1.55 mm, Super-Quick-Acting FF, 125 VAC, 125 VDC, 150 °C



UL 248-14 · 125 VAC · 125 VDC · Super-Quick-Act-

**Description**

- Max. ambient temperature 150 °C
- Hermetically sealed and robust construction
- Thin-film technology

Standards

- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- UL File Number: E41599

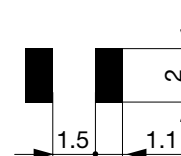
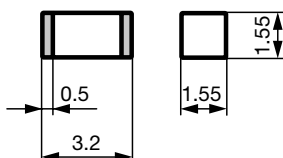
Applications

- Medical equipments
- Military

References
[General Product Information](#)
[Packaging Details](#)
Weblinks
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

Rated Voltage	32 - 125 VAC, 125 VDC
Rated Current	0.2 - 5 A
Breaking Capacity	50 A
Characteristic	Super-Quick-Acting FF
Mounting	PCB, SMT
Admissible Ambient Air Temp.	-55 °C to 150 °C
Climatic Category	55/150/21 acc. to IEC 60068-1
Material: Housing	Ceramic
Material: Terminals	Tin-Plated Nickel
Unit Weight	0.03 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	none

Soldering Methods	Reflow, Wave
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	260 +0/-5 °C / 30 sec acc. to IPC/JEDEC J-STD-020D, Level 1
Life Test	MIL-STD-202, Method 108A (1000h @ 0.70*In @ 70°C)
Load Humidity Test	MIL-STD-202, Method 103B (1000h @ 0.1*In @ 0.85 r.H. @ 85°C)
Moisture Resistance Test	MIL-STD-202, Method 106E (50 cycles in a temp./mister chamber)
Terminal Strength	MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute)
Thermal Shock	MIL-STD-202, Method 107D (200 air-to-air cycles from -55 to +125°C)
Resistance to Solvents	MIL-STD-202, Method 215A
Flammability	min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12)

DimensionsLength  3.2 mm

Solder pads

Pre-Arcing Time

Rated Current I_n	1.0 x I_n min.	2.5 x I_n max.
0.2 A - 5 A	4 h	5 s

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 I_n typ. [mV]	Cold Resistance typ. [$m\Omega$]	Melting I^2t 4.0 I_n typ. [A^2s]	CCC	Order Number
0.2	125	125	1)	258	1020	0.0008	● ●	3410.0021.xx
0.25	125	125	1)	250	800	0.0009	● ●	3410.0022.xx
0.375	125	125	1)	165	361	0.0037	● ●	3410.0025.xx
0.5	125	125	1)	150	247	0.0042	● ●	3410.0027.xx
0.75	125	125	1)	100	115	0.01	● ●	3410.0029.xx
1	125	125	1)	124	98.7	0.035	● ●	3410.0031.xx
1.5	125	125	1)	105	56	0.064	● ●	3410.0033.xx
2	125	125	1)	98	39	0.089	● ●	3410.0035.xx
2.5	125	125	1)	90	29.5	0.15	● ●	3410.0036.xx
3	125	125	1)	88	24.1	0.18	● ●	3410.0037.xx
4	63	125	2)	83.5	17	0.23	● ●	3410.0240.xx
5	32	125	3)	90	13.5	0.45	● ●	3410.0141.xx

1) 50 A @ 125 VAC / 300 A @ 125 VDC

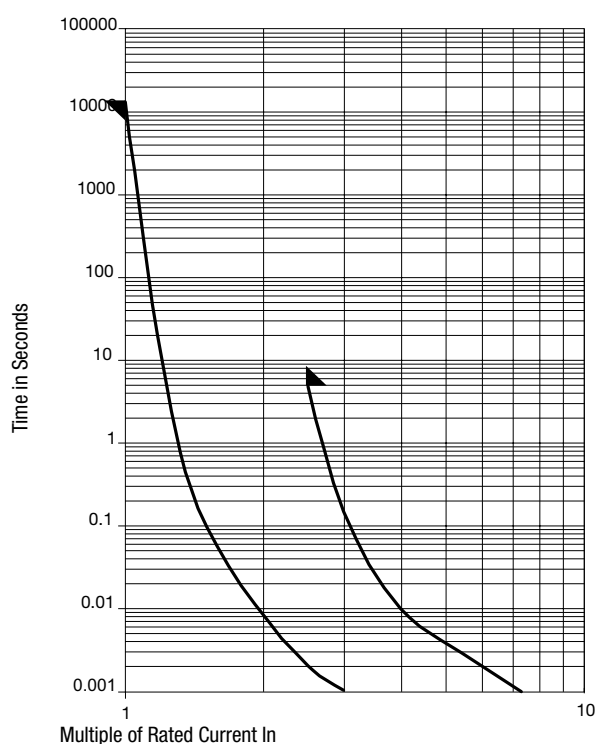
2) 50 A @ 63 VAC / 50 A @ 125 VDC / 300 A @ 32 VDC

3) 50 A @ 32 VAC / 50 A @ 125 VDC / 300 A @ 32 VDC

Packaging Unit

- .xx = .01 Blister Tape (100 pcs.)
- .xx = .02 Blister Tape 18 cm Reel (750 pcs.)
- .xx = .03 Blister Tape 33 cm Reel (3000 pcs.)
- .xx = .04 Blister Tape 33 cm Reel (10000 pcs.)

Time-Current Curves



Surface Mount Fuse for Space Application, ESCC QPL Listed

new



125 VAC · 125 VDC · Super-Quick-Acting FF

Description

- ESCC QPL Listed, see www.escies.org
- Full data sheet available on request

Standards

- ESCC Generic Specification no. 4008
- ESCC Detail Specification no. 4008/001

Applications

- Protection of Payloads

References

[General Product Information](#)

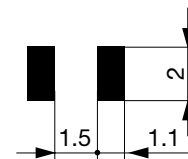
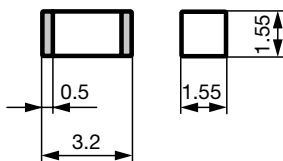
Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

Rated Voltage	32 - 125 VAC, 125 VDC
Rated Current	0.14 - 3.5 A
Breaking Capacity	50 A - 300 A
Characteristic	Super-Quick-Acting FF
Mounting	PCB, SMT
Admissible Ambient Air Temp.	-55 °C to 150 °C
Climatic Category	55/150/21 acc. to IEC 60068-1
Material: Housing	Ceramic
Material: Terminals	Tin-Plated Copper Alloy (with lead)
Unit Weight	0.035 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	none

Soldering Methods	Reflow, Wave
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	260 +0/-5 °C / 30 sec acc. to IPC/JEDEC J-STD-020D, Level 1

DimensionsLength  3.2 mm

Solder pads

Pre-Arcing Time

Rated Current In	1.43 x In min.	3.58 x In min.	3.58 x In max.	5.71 x In min.	5.71 x In max.	8.57 x In min.	8.57 x In max.
0.14 A - 3.5 A	4 h	2 ms	5 s	500 µs	10 ms	50 µs	2 ms

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Variants

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Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	Cold Resistance typ. [mΩ]	Melting I ² t 4.0 In typ. [A ² s]	ESCC Component Number	Order Number
0.14	125	125	1)	258	1020	0.0008	400800101	3410.0310
0.175	125	125	1)	250	800	0.0009	400800102	3410.0311
0.262	125	125	1)	165	361	0.0037	400800103	3410.0312
0.35	125	125	1)	150	247	0.0042	400800104	3410.0313
0.525	125	125	1)	100	115	0.01	400800105	3410.0314
0.7	125	125	1)	124	98.7	0.035	400800106	3410.0315
1.05	125	125	1)	105	56	0.064	400800107	3410.0316
1.4	125	125	1)	98	39	0.089	400800108	3410.0317
1.75	125	125	1)	90	29.5	0.15	400800109	3410.0318
2.1	125	125	1)	88	24.1	0.18	400800110	3410.0319
2.8	63	125	2)	83.5	17	0.23	400800111	3410.0320
3.5	32	125	3)	90	13.5	0.45	400800112	3410.0321

1) 50 A @ 125 VAC / 300 A @ 125 VDC

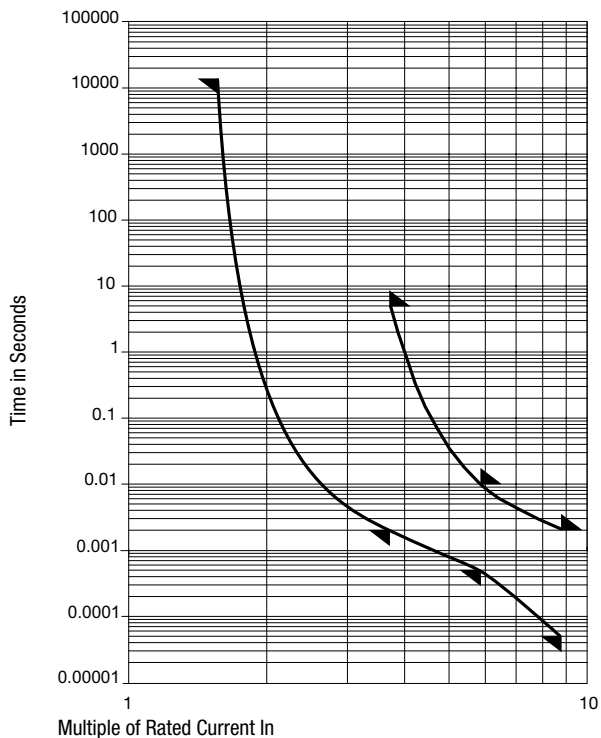
2) 50 A @ 63 VAC / 50 A @ 125 VDC / 300 A @ 32 VDC

3) 50 A @ 32 VAC / 50 A @ 125 VDC / 300 A @ 32 VDC

Packaging Unit

Blister Tape on 18 cm Reel in ESD Plastic Bag

Time-Current Curves



ESCC GENERIC SPECIFICATION N° 4008

PRODUCTION

Order Entry

Production with
Product and Quality Tests

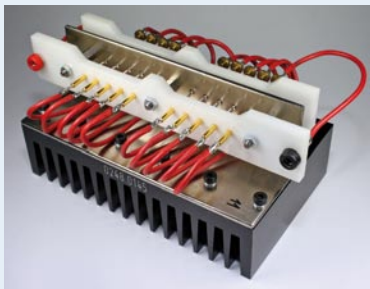
CHART F2 - PRODUCTION CONTROL

External Visual Inspection
according to Paragraph 5.2.1Dimension Check
according to Paragraph 5.2.2Cold Resistance
Initial Measurement
according to Paragraph 5.2.1Current Carrying Capacity and
Overload Operation Test
according to Paragraph 5.2.4/5.2.5

CHART F3 - SCREENING TESTS

Voltage drop
Initial Measurement
according to Paragraph 8.1.1.2Burn-In (168h)
according to Paragraph 8.3Voltage drop
Final Measurement
according to Paragraph 8.1.1.2Cold Resistance
Final Measurement
according to Paragraph 8.1.1.1External Visual Inspection
according to Paragraph 8.2Solderability
according to Paragraph 8.4Current Carrying Capacity and
Overload Operation
according to Paragraph 8.5/8.6Check for Lot Failure
according to Paragraph 6.4

Delivery with Test Report Summary

Flight Model, see ESCC QPL
Approved according to
ESCC Generic Specification no. 4008 +
ESCC Detail Specification no. 4008/001

Test Equipment for Burn-In

Surface Mount Fuse, 10.1 x 3 mm, Time-Lag T, 250 VAC, 125 VDC



IEC 60127-4 · 250 VAC · 125 VDC · Time-Lag T

**Description**

- High current range from 80 mA to 10 A
- High breaking capacity of 200 A @ 250 VAC (IEC)
- UL approval for 277 VAC and 250 VDC

Standards

- IEC 60127-4/2
- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- VDE License Number: 40013121
- UL File Number: E41599

Applications

- Primary Protection on SMD PCB
- Industrial electronic
- Medical equipments

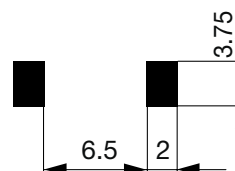
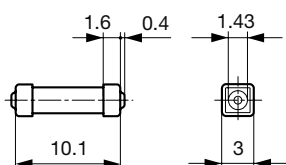
References
[General Product Information](#)
[Packaging Details](#)
[Fuse Kit](#) [Fuse Kit UMx 250](#)
Weblinks
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

Rated Voltage	250 VAC, 125 VDC
Rated Current	0.08 - 10 A
Breaking Capacity	35 A - 200 A
Characteristic	Time-Lag T
Mounting	PCB, SMT
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Housing	Ceramic
Material: Terminals	Tin-Plated Copper Alloy
Unit Weight	0.23 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	, Current Rating, Voltage Rating, Characteristic, Breaking Capacity

Soldering Methods	Reflow, Wave
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	260 °C / 40 sec acc. to IPC/JEDEC J-STD-020D, 1 cycle
Life Test	MIL-STD-202, Method 108A (1000h @ 0.42*In @ 70°C)
Moisture Resistance Test	MIL-STD-202, Method 106E (50 cycles in a temp./mister chamber)
Terminal Strength	MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute)
Mechanical Shock	MIL-STD-202, Method 213B (Shock 50gn, half sine wave, 11 ms)
Resistance to Solvents	MIL-STD-202, Method 215A
Flammability	min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12)

Dimensions

Length 10.1 mm



Solder pads

Pre-Arcing Time

Rated Current In	1.0 x In min.	1.25 x In min.	2.0 x In max.	10.0 x In min.	10.0 x In max.
0.08 A - 6.3 A	-	60 min	120 s	10 ms	100 ms
8 A - 10 A	60 min	-	120 s	10 ms	100 ms

Variants

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 In max. [mV]	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.25 In max [mW]	Melting I ² t 10.0 Intyp. [A ² s]							Order Number
0.08	250	125	1)	-	1030	-	0.022	●	●					3403.0155.xx
0.1	250	125	1)	1300	870	200	0.04	●	●					3403.0156.xx
0.125	250	125	1)	1000	700	200	0.055	●	●					3403.0157.xx
0.16	250	125	1)	1000	540	240	0.057	●	●					3403.0158.xx
0.2	250	125	1)	1000	460	500	0.092	●	●					3403.0159.xx
0.25	250	125	1)	800	395	500	0.2	●	●					3403.0160.xx
0.315	250	125	1)	750	343	500	0.27	●	●	●		●	●	3403.0161.xx
0.4	250	125	1)	700	290	500	0.4	●	●	●		●	●	3403.0162.xx
0.5	250	125	1)	600	257	500	0.54	●	●	●		●	●	3403.0163.xx
0.63	250	125	1)	500	216	500	1.1	●	●	●		●	●	3403.0164.xx
0.8	250	125	1)	400	190	500	1.4	●	●	●		●	●	3403.0165.xx
1	250	125	2)	300	164	500	2.8	●	●	●	●	●	●	3403.0166.xx
1.25	250	125	2)	300	138	1000	4.5	●	●	●	●	●	●	3403.0167.xx
1.6	250	125	2)	300	124	1000	6.9	●	●	●	●	●	●	3403.0168.xx
2	250	125	2)	300	102	1000	7.3	●	●	●	●	●	●	3403.0169.xx
2.5	250	125	2)	300	90	1200	7.5	●	●	●	●	●	●	3403.0170.xx
3.15	250	125	2)	300	95	1500	14	●	●	●	●	●	●	3403.0171.xx
4	250	125	2)	300	78	2000	26	●	●	●	●	●	●	3403.0172.xx
5	250	125	3)	300	76	2500	38	●		●				3403.0173.xx
6.3	250	125	3)	300	71	3000	66	●		●				3403.0174.xx
8	250	125	4)	220	72	3000	113			●				3403.0175.xx
10	250	125	4)	220	73	3500	166			●				3403.0176.xx

1) IEC: 200 A @ 250 VAC , p.f. ≥ 0.95 / 100 A @ 125 VDC

1) UL: 200 A @ 277 VAC / 100 A @ 125 VDC / 35 A @ 250 VDC / 200 A @ 63 VAC/DC

2) IEC: 200 A @ 250 VAC, p.f. ≥ 0.95 / 100 A @ 125 VDC

2) UL: 200 A @ 277 VAC / 100 A @ 125 VDC / 35 A @ 250 VDC / 200 A @ 63 VAC/DC

2) PSE: 100 A @ 250 VAC / 100 A @ 125 VDC

3) IEC: 100 A @ 250 VAC, p.f. ≥ 0.95 / 100 A 125 VDC

3) UL: 100 A @ 250 VAC / 100 A @ 125 VDC / 35 A @ 250 VDC / 200 A @ 63 VAC/DC

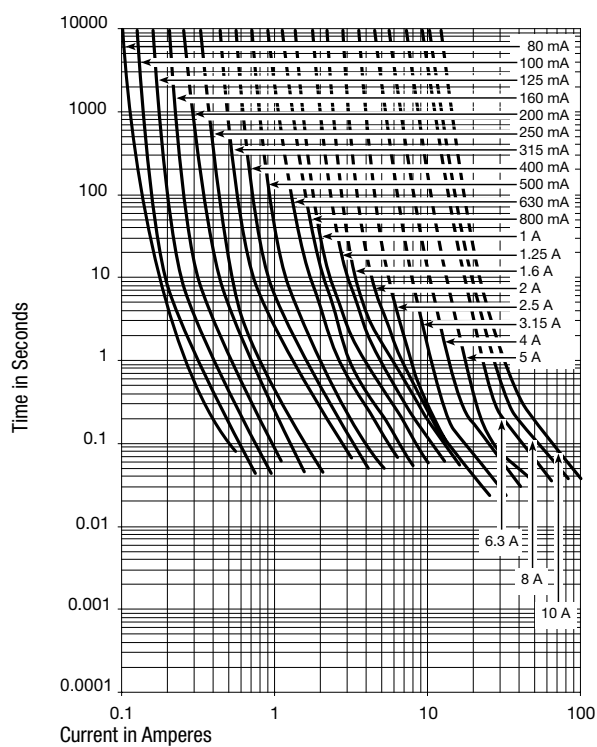
4) UL: 35 A @ 250 VAC / 35 A @ 125 VDC / 200 A @ 63 VAC/DC

Packaging Unit

.xx = .11 Plastic Bag (100 pcs.)

.xx = .24 Blister Tape 33 cm Reel (2000 pcs.)

Time-Current Curves



Surface Mount Fuse with Clip, 11.1 x 3.8 mm, Time-Lag T, UMZ 250 = UMT 250 (Au) + UMC 250

new



IEC 60127-4 · 250VAC · 125VDC · Time-Lag T



Description

- Explanation VDE/UL Approvals UMT 250, UMT 250 (Au), UMC 250 , see variants
- High breaking capacity of 200 A @ 250 VAC (IEC)
- UL approval for 277 VAC and 250 VDC

Standards

- IEC 60127-4/2
- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- VDE License Number: 40013121
- UL File Number: E39328

Applications

- Primary Protection on SMD PCB
- Industrial electronic

References

[General Product Information](#)
[Packaging Details](#)

Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

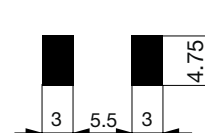
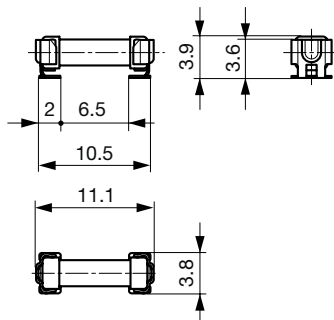
Technical Data

Rated Voltage	250 VAC, 125 VDC
Rated Current	0.315 - 4 A
Breaking Capacity	200 A
Characteristic	Time-Lag T
Mounting	PCB, SMT
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/21 acc. to IEC 60068-1
Material: Housing	Ceramic
Material: Terminals	Tin-Plated Copper Alloy
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Current Rating, Voltage Rating, Characteristic, Breaking Capacity

Soldering Methods	Reflow
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	260 °C / 40 sec acc. to IPC/JEDEC J-STD-020D, 1 cycle
Life Test	MIL-STD-202, Method 108A (1000h @ 0.42*In @ 70°C)
Moisture Resistance Test	MIL-STD-202, Method 106E (50 cycles in a temp./mister chamber)
Terminal Strength	MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute)
Mechanical Shock	MIL-STD-202, Method 213B (Shock 50gn, half sine wave, 11 ms)
Resistance to Solvents	MIL-STD-202, Method 215A
Flammability	min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12)

Dimensions

Length  11.1 mm



Solder pads

Pre-Arcing Time

Rated Current In	1.25 x In min.	2.0 x In max.	10.0 x In min.	10.0 x In max.
0.315 A - 4.0 A	60 min	120 s	10 ms	100 ms

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 In max. [mV]	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.25 In max [mW]	Melting I ² t 10.0 Intyp. [A ² s]	Order Number
0.315	250	125	1)	750	344	500	0.27	3404.2411.xx
0.4	250	125	1)	700	320	500	0.4	3404.2412.xx
0.5	250	125	1)	600	264	500	0.54	3404.2413.xx
0.63	250	125	1)	500	216	500	1.1	3404.2414.xx
0.8	250	125	1)	400	174	500	1.4	3404.2415.xx
1	250	125	1)	300	174	500	2.8	3404.2416.xx
1.25	250	125	1)	300	140	1000	4.5	3404.2417.xx
1.6	250	125	1)	300	130	1000	6.9	3404.2418.xx
2	250	125	1)	300	103	1000	7.3	3404.2419.xx
2.5	250	125	1)	300	90	1200	7.5	3404.2420.xx
3.15	250	125	1)	300	95	1500	14	3404.2421.xx
4	250	125	1)	300	83	2000	26	3404.2422.xx

1) IEC: 200 A @ 250 VAC, p.f. ≥ 0.95 / 100 A @ 125 VDC

1) UL: 200 A @ 277 VAC / 100 A @ 125 VDC / 35 A @ 250 VDC / 200 A @ 63 VAC/DC

Approval Overview

UMT 250 -> Fuse with tin-plated caps, Approval Status: VDE, UL LISTED, cURus, Free of CCC, PSE JET, KTL

UMT 250 (Au) -> Fuse with gold-plated caps, Approval Status: VDE Mark and cURus

UMC 250 -> Clip, Approval Status: VDE UG Mark and cURus

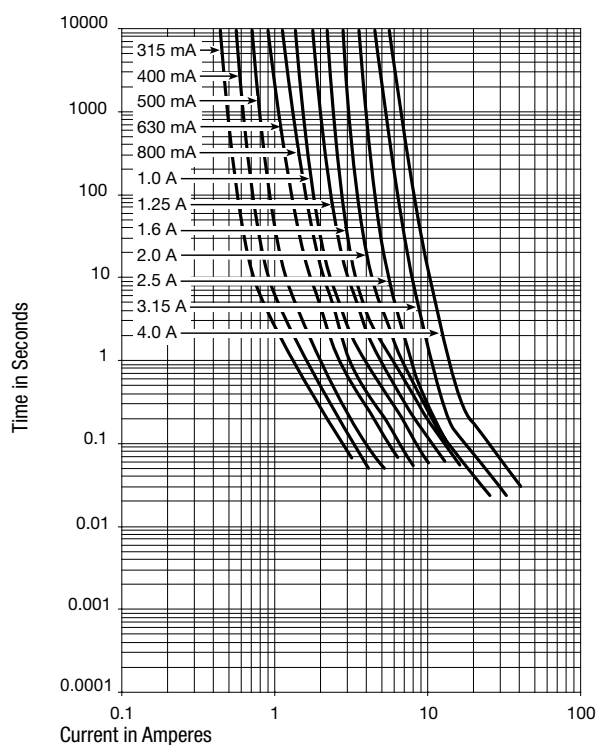
UMZ 250 = UMT 250 (Au) + UMC 250

There is no approval existing for the combination fuse and clip UMZ 250, but the fuse and the clip are fully approved independently at VDE/UL. See details above.

In the reflow soldering process, the fuse must have gold-plated caps, otherwise fuse and clip would be soldered together. For fuse replacement in the field, a standard UMT 250 fuse with tin-plated caps can be used.

Packaging Unit.xx = .11 Plastic Bag (100 pcs.)
.xx = .22 Blister Tape 33 cm Reel (1000 pcs.)

Time-Current Curves



Surface Mount Fuse, 7 x 2 mm, Quick-Acting F, 125 VAC, 125 VDC



UL 248-14 · 125 VAC · 125 VDC · Quick-Acting F

**Description**

- High Breaking Capacity
- Directly solderable on printed circuit boards

Standards

- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- UL File Number: E42088

Applications

- Telecom
- Industrial electronic
- Household appliances

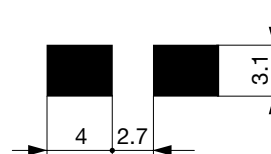
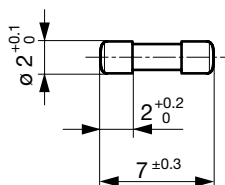
References
[General Product Information](#)
[Packaging Details](#)

 Square Footprint Type [MKF](#)

 Corresponding Fuseholder [231786](#); [231787](#)
Weblinks
[Approvals, RoHS, CHINA-RoHS, e-Store, SCHURTER-Stock-Check, Distributor-Stock-Check](#)
Technical Data

Rated Voltage	63 - 125 VAC, 65 - 125 VDC
Rated Current	0.063 - 15 A
Breaking Capacity	300 A
Characteristic	Quick-Acting F
Mounting	PCB, SMT
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/56 acc. to IEC 60068-1
Material: Tube	Ceramic
Material: Endcaps	Tin-Plated Copper Alloy
Unit Weight	0.07 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 , Current Rating

Soldering Methods	Reflow, Wave
Solderability	235 °C / 2 sec acc. to IEC 60068-2-58, Test Td, Fig. 2B (Reflow) // 245 °C / 3 sec (Wave)
Resistance to Soldering Heat	260 °C / 10 sec acc. to IEC 60068-2-58, Test Td

DimensionsLength  7 mm

Solder pads

Pre-Arcing Time

Rated Current In	1.0 x In min.	2.0 x In max.	2.75 x In max.	4.0 x In max.	10.0 x In max.
0.063 A - 0.75 A	4 h	5 s	300 ms	30 ms	5 ms
1 A - 15 A	4 h	10 s	-	60 ms	5 ms

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.0 I _n typ. [mW]	Melting I ² t 10.0 In typ. [A ² s]		Order Number
0.063	125	125	1)	590	37	0.00022	●	7010.9750.xx
0.125	125	125	1)	640	80	0.0024	●	7010.9760.xx
0.25	125	125	1)	275	69	0.0061	●	7010.9770.xx
0.375	125	125	1)	215	81	0.012	●	7010.9780.xx
0.5	125	125	1)	205	103	0.046	●	7010.9790.xx
0.75	125	125	1)	190	143	0.09	●	7010.9800.xx
1	125	125	1)	180	180	0.11	●	7010.9810.xx
1.5	125	125	1)	185	278	0.25	●	7010.9820.xx
2	125	125	1)	160	320	0.72	●	7010.9830.xx
2.5	125	125	1)	160	400	0.91	●	7010.9840.xx
3	125	125	1)	155	465	1.3	●	7010.9850.xx
3.5	125	125	1)	145	510	1.7	●	7010.9860.xx
4	125	125	1)	140	560	2.6	●	7010.9870.xx
5	63	125	2)	125	625	4	●	7010.9880.xx
7	63	125	2)	120	840	8.5	●	7010.9890.xx
10	65	65	3)	110	1100	31	●	7010.9892.xx
12	65	65	3)	115	1380	48	●	7010.9894.xx
15	65	65	3)	105	1575	92	●	7010.9896.xx

1) 300 A @ 125 VAC , p.f. ≥ 0.95 / 300 A @ 125 VDC

2) 300 A @ 63 VAC , p.f. ≥ 0.95 / 300 A @ 125 VDC

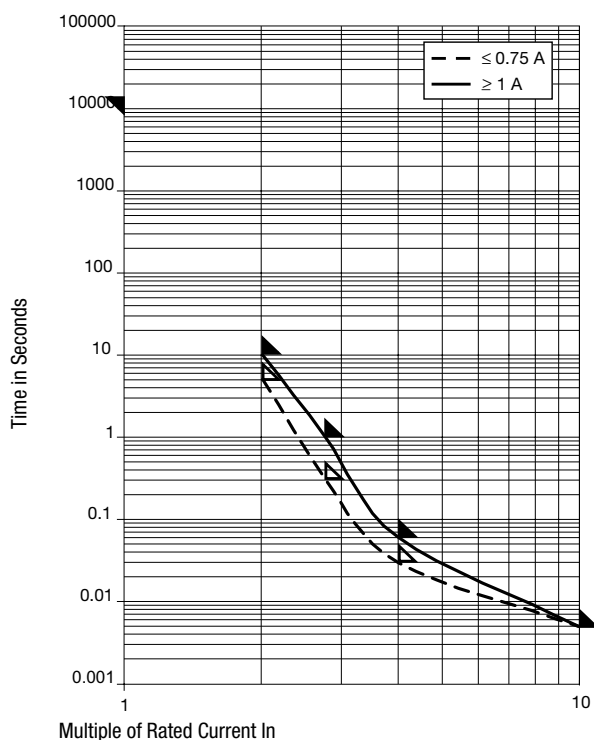
3) 300 A @ 65 VAC , p.f. ≥ 0.95 / 300 A @ 65 VDC

Packaging Unit

.xx = .63 Plastic Bag (100 pcs.)

.xx = .57 Blister Tape 18 cm Reel (1500 pcs.)

Time-Current Curves



Surface Mount Fuse, 7 x 2.54 mm, Quick-Acting F, 125 VAC, 125 VDC



UL 248-14 · 125 VAC · 125 VDC · Quick-Acting F

**Description**

- High Breaking Capacity
- Directly solderable on printed circuit boards

Standards

- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- UL File Number: E42088

Applications

- Telecom
- Industrial electronic
- Household appliances

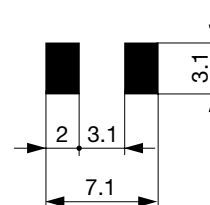
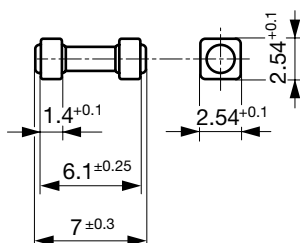
References
[General Product Information](#)
[Packaging Details](#)

Round Solder Pads Type 172876

Weblinks
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

Rated Voltage	63 - 125 VAC, 65 - 125 VDC
Rated Current	0.063 - 15 A
Breaking Capacity	300 A
Characteristic	Quick-Acting F
Mounting	PCB, SMT
Admissible Ambient Air Temp.	-55 °C to 85 °C
Climatic Category	55/085/56 acc. to IEC 60068-1
Material: Tube	Ceramic
Material: Endcaps	Tin-Plated Copper Alloy
Unit Weight	0.15 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 , Current Rating

Soldering Methods	Reflow, Wave
Solderability	235 °C / 2 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	260 °C / 10 sec acc. to IEC 60068-2-58, Test Td

DimensionsLength  7 mm

Solder pads

Pre-Arcing Time

Rated Current In	1.0 x In min.	2.0 x In max.	2.75 x In max.	4.0 x In max.	10.0 x In max.
0.063 A - 0.75 A	4 h	5 s	300 ms	30 ms	5 ms
1 A - 15 A	4 h	10 s	-	60 ms	5 ms

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipation 1.0 I _n typ. [mW]	Melting I ² t 10.0 I _n typ. [A ² s]		Order Number
0.063	125	125	1)	505	32	0.00022	●	7010.9900.xx
0.125	125	125	1)	590	74	0.0024	●	7010.9901.xx
0.25	125	125	1)	235	59	0.0061	●	7010.9902.xx
0.375	125	125	1)	205	77	0.012	●	7010.9903.xx
0.5	125	125	1)	190	95	0.046	●	7010.9904.xx
0.75	125	125	1)	170	128	0.09	●	7010.9905.xx
1	125	125	1)	155	155	0.11	●	7010.9906.xx
1.5	125	125	1)	160	240	0.25	●	7010.9907.xx
2	125	125	1)	150	300	0.72	●	7010.9908.xx
2.5	125	125	1)	145	363	0.91	●	7010.9909.xx
3	125	125	1)	145	435	1.3	●	7010.9910.xx
3.5	125	125	1)	140	490	1.7	●	7010.9911.xx
4	125	125	1)	135	540	2.6	●	7010.9912.xx
5	63	125	2)	125	625	4	●	7010.9913.xx
7	63	125	2)	125	875	8.5	●	7010.9914.xx
10	65	65	3)	110	1100	31	●	7010.9915.xx
12	65	65	3)	110	1320	48	●	7010.9916.xx
15	65	65	3)	100	1500	92	●	7010.9917.xx

1) 300 A @ 125 VAC , p.f. ≥ 0.95 / 300 A @ 125 VDC

2) 300 A @ 63 VAC , p.f. ≥ 0.95 / 300 A @ 125 VDC

3) 300 A @ 65 VAC , p.f. ≥ 0.95 / 300 A @ 65 VDC

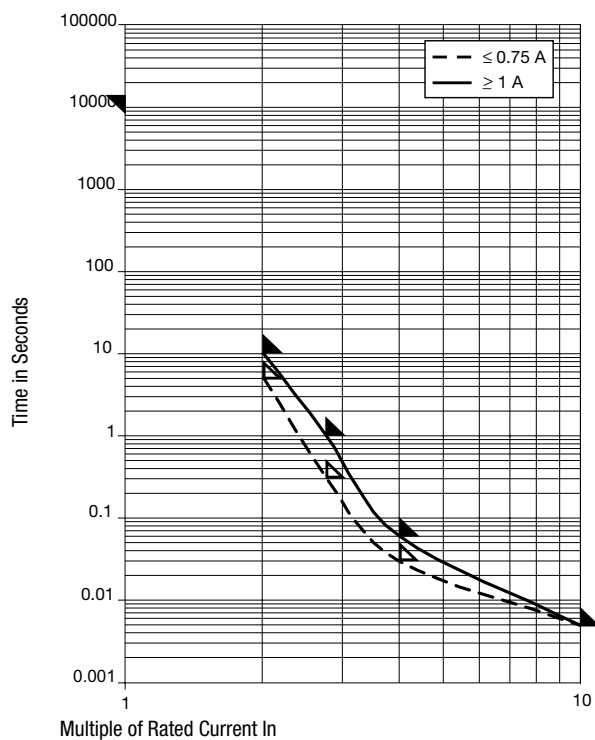
Packaging Unit

.xx = .03 Plastic Bag (100 pcs.)

.xx = .55 Blister Tape 18 cm Reel (500 pcs.)

.xx = .57 Blister Tape 18 cm Reel (1500 pcs.)

Time-Current Curves



Surface Mount Fuse, 7 x 2 mm, Time-Lag T, 125 VAC, 125 VDC



IEC 60127-4 · 125 VAC · 125 VDC · Time-Lag T

**Description**

- Low Breaking Capacity
- Directly solderable on printed circuit boards

Standards

- IEC 60127-4/2
- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- UL File Number: E42088

Applications

- Telecom
- Industrial electronic
- Household appliances

References
[General Product Information](#)
[Packaging Details](#)

 Square Footprint Type [MKT](#)

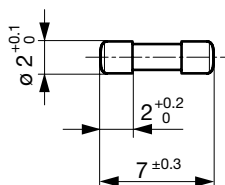
 Corresponding Fuseholder [231786](#); [231787](#)
Weblinks
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

Rated Voltage	63 - 125 VAC, 65 - 125 VDC
Rated Current	0.75 - 15 A
Breaking Capacity	50 A - 150 A
Characteristic	Time-Lag T
Mounting	PCB, SMT
Admissible Ambient Air Temp.	-55 °C to 85 °C
Climatic Category	55/085/56 acc. to IEC 60068-1
Material: Tube	Ceramic
Material: Endcaps	Tin-Plated Copper Alloy
Unit Weight	0.07 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	, Current Rating

Soldering Methods	Reflow, Wave
Solderability	235 °C / 2 sec acc. to IEC 60068-2-58, Test Td, Fig. 2B (Reflow) // 245 °C / 3 sec (Wave)
Resistance to Soldering Heat	260 °C / 10 sec acc. to IEC 60068-2-58, Test Td

Dimensions

Length 7 mm



Solder pads

Pre-Arcing Time

Rated Current I_n	1.1 x I_n min.	1.25 x I_n min.	2.0 x I_n max.	10.0 x I_n min.	10.0 x I_n max.
0.75 A - 1.5 A	-	60 min	120 s	5 ms	100 ms
2 A - 8 A	-	60 min	120 s	10 ms	100 ms
10 A - 15 A	60 min	-	120 s	10 ms	100 ms

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 I_n typ. [mV]	Power Dissipation 1.1 I_n typ. [mW]	Power Dissipation 1.25 I_n typ. [mW]	Melting I^2t 10.0 Intyp. [A ² s]		Order Number
0.75	125	125	1)	106	-	145	0.4	●	7010.9960.xx
1	125	125	1)	97	-	179	0.79	●	7010.9961.xx
1.5	125	125	1)	91	-	240	2.1	●	7010.9962.xx
2	125	125	1)	88	-	315	4.1	●	7010.9963.xx
2.5	125	125	1)	84	-	375	6.9	●	7010.9964.xx
3.15	125	125	1)	80	-	450	12	●	7010.9965.xx
3.5	125	125	1)	79	-	490	15	●	7010.9966.xx
4	125	125	1)	76	-	545	21	●	7010.9967.xx
5	125	125	1)	87	-	620	29	●	7010.9968.xx
6.3	125	125	2)	85	-	850	51	●	7010.9969.xx
8	65	65	3)	83	-	1200	83	●	7010.9970.xx
10	65	65	3)	81	1100	-	140	●	7010.9971.xx
12	65	65	3)	80	1150	-	215	●	7010.9972.xx
15	65	65	3)	78	1750	-	360	●	7010.9973.xx

1) 50 A @ 125 VAC/DC

2) 63 A @ 125 VAC/DC

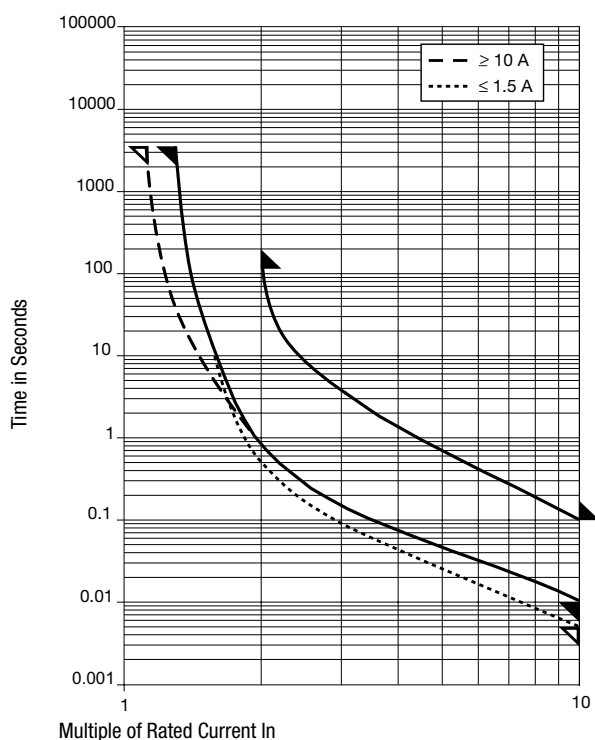
3) 150 A @ 65 VAC/DC

Packaging Unit

.xx = .63 Plastic Bag (100 pcs.)

.xx = .57 Blister Tape 18 cm Reel (1500 pcs.)

Time-Current Curves



Surface Mount Fuse, 7 x 2.54 mm, Time-Lag T, 125 VAC, 125 VDC



IEC 60127-4 · 125 VAC · 125 VDC · Time-Lag T

**Description**

- Low Breaking Capacity
- Directly solderable on printed circuit boards

Standards

- IEC 60127-4/2
- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- UL File Number: E42088

Applications

- Telecom
- Industrial electronic
- Household appliances

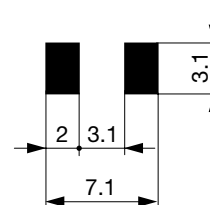
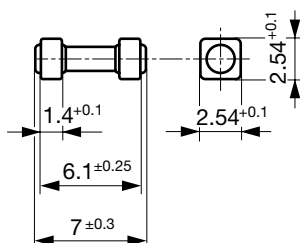
References
[General Product Information](#)
[Packaging Details](#)
Round Solder Pads Type [MSB](#)
Weblinks
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

Rated Voltage	63 - 125 VAC, 65 - 125 VDC
Rated Current	2 - 15 A
Breaking Capacity	50 A - 150 A
Characteristic	Time-Lag T
Mounting	PCB, SMT
Admissible Ambient Air Temp.	-55 °C to 85 °C
Climatic Category	55/085/56 acc. to IEC 60068-1
Material: Tube	Ceramic
Material: Endcaps	Tin-Plated Copper Alloy
Unit Weight	0.15 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	, Current Rating

Soldering Methods	Reflow, Wave
Solderability	235 °C / 2 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	260 °C / 10 sec acc. to IEC 60068-2-58, Test Td

Dimensions

Length 7 mm



Solder pads

Pre-Arcing Time

Rated Current In	1.1 x In min.	1.25 x In min.	2.0 x In max.	10.0 x In min.	10.0 x In max.
2 A - 8 A	-	60 min	120 s	10 ms	100 ms
10 A - 15 A	60 min	-	120 s	10 ms	100 ms

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipation 1.1 I _n typ. [mW]	Power Dissipation 1.25 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]		Order Number
2	125	125	1)	85	-	300	4.1	●	7010.9513.xx
2.5	125	125	1)	82	-	360	6.9	●	7010.9514.xx
3.15	125	125	1)	79	-	440	12	●	7010.9515.xx
3.5	125	125	1)	78	-	485	15	●	7010.9516.xx
4	125	125	1)	76	-	540	21	●	7010.9517.xx
5	125	125	1)	87	-	600	29	●	7010.9518.xx
6.3	125	125	2)	85	-	810	51	●	7010.9519.xx
8	65	65	3)	81	-	1100	83	●	7010.9520.xx
10	65	65	3)	79	1000	-	140	●	7010.9521.xx
12	65	65	3)	77	1050	-	215	●	7010.9522.xx
15	65	65	3)	75	1700	-	360	●	7010.9523.xx

1) 50 A @ 125 VAC/DC

2) 63 A @ 125 VAC/DC

3) 150 A @ 65 VAC/DC

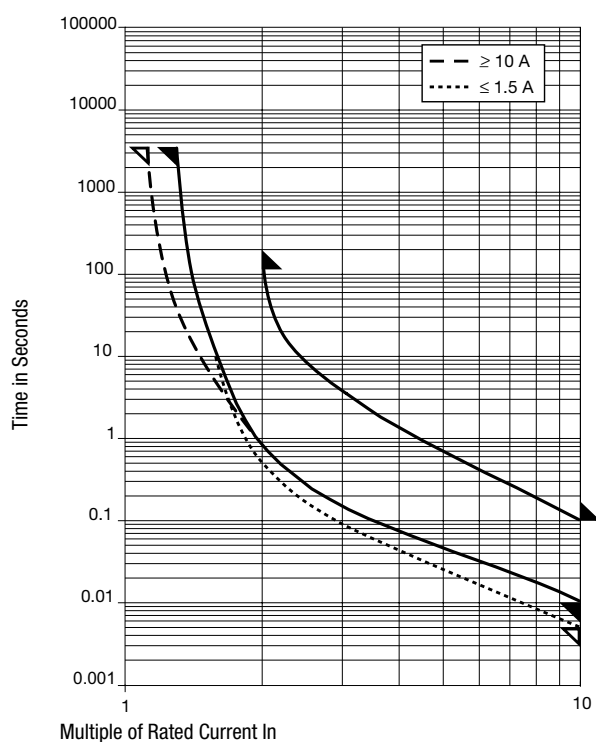
Packaging Unit

.xx = .03 Plastic Bag (100 pcs.)

.xx = .55 Blister Tape 18 cm Reel (500 pcs.)

.xx = .57 Blister Tape 18 cm Reel (1500 pcs.)

Time-Current Curves



Surface Mount Fuse, 7.4 x 3.1 mm, Quick-Acting F, 63 VAC, 63 VDC



UL 248-14 · 63 VAC · 63 VDC · Quick-Acting F

**Description**

- Directly solderable on printed circuit boards

Standards

- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- UL File Number: E41599

References
[General Product Information](#)
[Packaging Details](#)

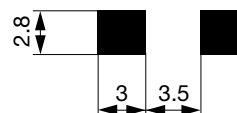
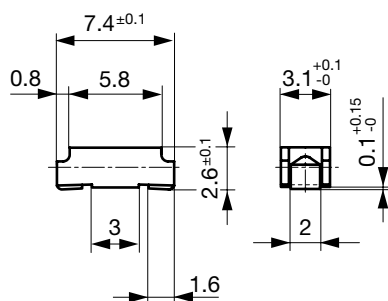
 Corresponding Fuseholder [OMH 125](#)

 Assembled Fuseholder [OMK 63](#)

 Fuse Kit [Fuse Kit OMF](#)
Weblinks
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

Rated Voltage	63 VAC, 63 VDC
Rated Current	0.063 - 10 A
Breaking Capacity	50 A
Characteristic	Quick-Acting F
Mounting	PCB, SMT
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Housing	Thermoplastic, UL 94V-0
Material: Terminals	Tin-Plated Copper Alloy
Unit Weight	0.1 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Type, Current Rating, Approvals

Soldering Methods	Reflow, Wave
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	260 +0/-5 °C / 40 sec acc. to IPC/JEDEC J-STD-020D, Level 1
Current Carrying Capacity	acc. to EIA/IS-722, Test 4.3.3
Terminal Strength	MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute)
Case Resistance	acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body)
Mechanical Shock	MIL-STD-202, Method 213B (Shock 50gn, half sine wave, 11 ms)
Vibration, High Frequency	MIL-STD-202, Method 204D (Shock 20 gn, 20 min, 10-2 kHz, 12 cyc.)
Flammability	min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12)

DimensionsLength  7.4 mm

Solder pads

Pre-Arcing Time

Rated Current I_n	1.0 x I_n min.	2.0 x I_n max.	4.0 x I_n max.
0.063 A - 5 A	4 h	1 s	10 ms
6.3 A - 8 A	4 h	5 s	50 ms
10 A	4 h	20 s	60 ms

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

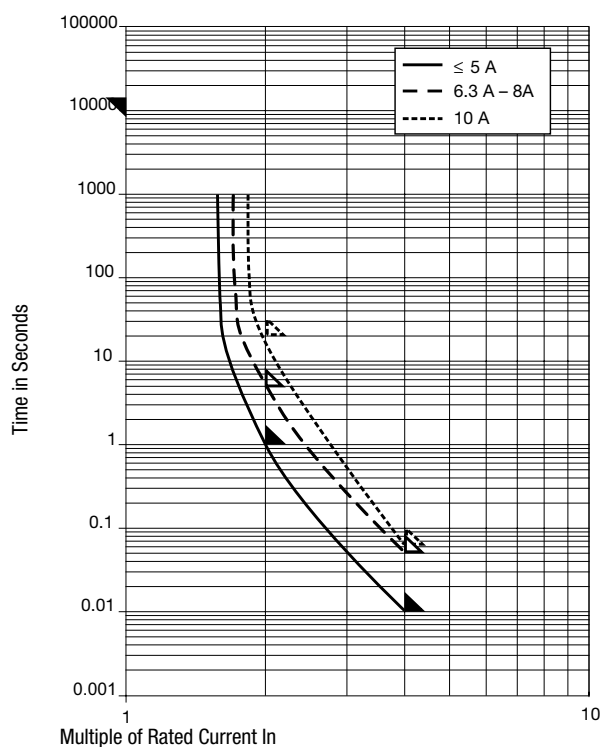
Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 I_n typ. [mV]	Power Dissipation 1.0 I_n typ. [mW]	Melting I^2t 4.0 I_n typ. [A ² s]				Order Number
0.063	63	63	1)	2550	160	0.00011	●	●	●	3402.0003.xx
0.1	63	63	1)	1770	180	0.00067	●	●	●	3402.0004.xx
0.125	63	63	1)	1770	220	0.0011	●	●	●	3402.0049.xx
0.16	63	63	1)	1770	270	0.0018	●	●	●	3402.0005.xx
0.25	63	63	1)	990	250	0.0058	●	●	●	3402.0006.xx
0.35	63	63	1)	990	350	0.0076	●	●	●	3402.0043.xx
0.375	63	63	1)	990	370	0.013	●	●	●	3402.0044.xx
0.4	63	63	1)	960	380	0.016	●	●	●	3402.0007.xx
0.5	63	63	1)	350	180	0.01	●	●	●	3402.0045.xx
0.63	63	63	1)	290	180	0.02	●	●	●	3402.0008.xx
0.75	63	63	1)	260	200	0.031	●	●	●	3402.0046.xx
1	63	63	1)	220	220	0.078	●	●	●	3402.0009.xx
1.25	63	63	1)	220	280	0.14	●	●	●	3402.0010.xx
1.5	63	63	1)	200	300	0.24	●	●	●	3402.0047.xx
1.6	63	63	1)	200	320	0.27	●	●	●	3402.0011.xx
2	63	63	1)	200	400	0.44	●	●	●	3402.0012.xx
2.5	63	63	1)	190	480	0.97	●	●	●	3402.0013.xx
3	63	63	1)	190	570	1.3	●	●	●	3402.0014.xx
3.15	63	63	1)	190	600	1.2	●	●	●	3402.0048.xx
3.5	63	63	1)	140	490	1.6	●	●	●	3402.0015.xx
4	63	63	1)	140	560	2.1	●	●	●	3402.0016.xx
5	63	63	1)	140	700	2.9	●	●	●	3402.0017.xx
6.3	63	63	1)	110	690	14	●	●	●	3402.0018.xx
7	63	63	1)	105	740	16	●	●	●	3402.0019.xx
8	63	63	1)	100	800	20	●	●	●	3402.0020.xx
10	63	63	1)	80	800	54	●	●	●	3402.0040.xx

1) 50 A @ 63 VAC/DC

Packaging Unit

.xx = .11 Plastic Bag (100 pcs.)
 .xx = .22 Blister Tape 18 cm Reel (750 pcs.)
 .xx = .24 Blister Tape 33 cm Reel (3000 pcs.)

Time-Current Curves



Surface Mount Fuse, 7 x 2 mm, Time-Lag T, 125 VAC, 125 VDC



IEC 60127-4 · 125 VAC · 125 VDC · Time-Lag T

**Description**

- Low Breaking Capacity
- Directly solderable on printed circuit boards

Standards

- IEC 60127-4/2
- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- UL File Number: E42088

Applications

- Telecom
- Industrial electronic
- Household appliances

References

[General Product Information](#)

[Packaging Details](#)

Square Footprint Type [MKT](#)

Corresponding Fuseholder [231786](#); [231787](#)

Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

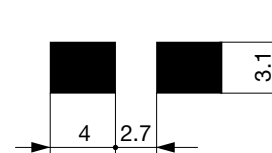
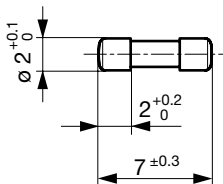
Technical Data

Rated Voltage	63 - 125 VAC, 65 - 125 VDC
Rated Current	0.75 - 15 A
Breaking Capacity	50 A - 150 A
Characteristic	Time-Lag T
Mounting	PCB, SMT
Admissible Ambient Air Temp.	-55 °C to 85 °C
Climatic Category	55/085/56 acc. to IEC 60068-1
Material: Tube	Ceramic
Material: Endcaps	Tin-Plated Copper Alloy
Unit Weight	0.07 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	Current Rating

Soldering Methods	Reflow, Wave
Solderability	235 °C / 2 sec acc. to IEC 60068-2-58, Test Td, Fig. 2B (Reflow) // 245 °C / 3 sec (Wave)
Resistance to Soldering Heat	260 °C / 10 sec acc. to IEC 60068-2-58, Test Td

Dimensions

Length 7 mm



Solder pads

Pre-Arcing Time

Rated Current I_n	1.1 x I_n min.	1.25 x I_n min.	2.0 x I_n max.	10.0 x I_n min.	10.0 x I_n max.
0.75 A - 1.5 A	-	60 min	120 s	5 ms	100 ms
2 A - 8 A	-	60 min	120 s	10 ms	100 ms
10 A - 15 A	60 min	-	120 s	10 ms	100 ms

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 I_n typ. [mV]	Power Dissipation 1.1 I_n typ. [mW]	Power Dissipation 1.25 I_n typ. [mW]	Melting I^2t 10.0 I_n typ. [A ² s]		Order Number
0.75	125	125	1)	106	-	145	0.4	●	7010.9960.xx
1	125	125	1)	97	-	179	0.79	●	7010.9961.xx
1.5	125	125	1)	91	-	240	2.1	●	7010.9962.xx
2	125	125	1)	88	-	315	4.1	●	7010.9963.xx
2.5	125	125	1)	84	-	375	6.9	●	7010.9964.xx
3.15	125	125	1)	80	-	450	12	●	7010.9965.xx
3.5	125	125	1)	79	-	490	15	●	7010.9966.xx
4	125	125	1)	76	-	545	21	●	7010.9967.xx
5	125	125	1)	87	-	620	29	●	7010.9968.xx
6.3	125	125	2)	85	-	850	51	●	7010.9969.xx
8	65	65	3)	83	-	1200	83	●	7010.9970.xx
10	65	65	3)	81	1100	-	140	●	7010.9971.xx
12	65	65	3)	80	1150	-	215	●	7010.9972.xx
15	65	65	3)	78	1750	-	360	●	7010.9973.xx

1) 50 A @ 125 VAC/DC

2) 63 A @ 125 VAC/DC

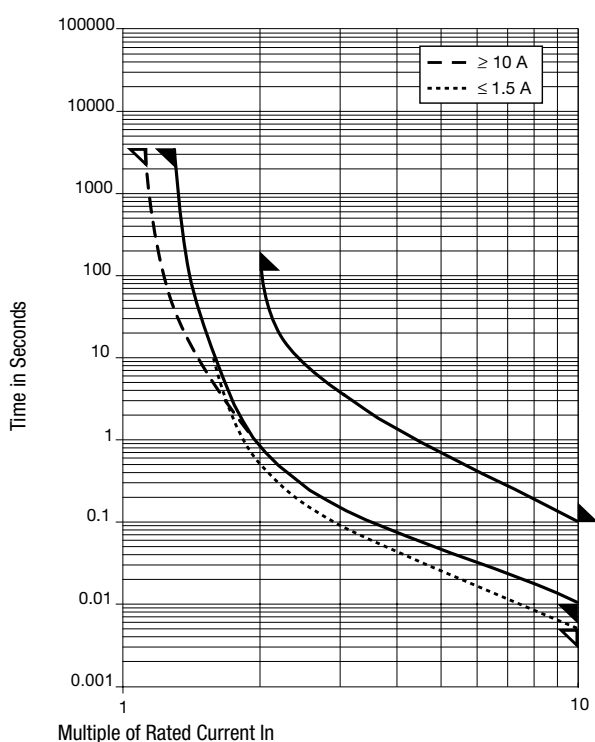
3) 150 A @ 65 VAC/DC

Packaging Unit

.xx = .63 Plastic Bag (100 pcs.)

.xx = .57 Blister Tape 18 cm Reel (1500 pcs.)

Time-Current Curves



Surface Mount Fuse with Holder, 12 x 5.2 mm, Quick-Acting F, 63 VAC, 63 VDC



UL 248-14 · 63 VAC · 63 VDC · Quick-Acting F



CCC

Description

- Directly solderable on printed circuit boards
- OMK 63 = OMF 63 + OMH 125

Standards

- UL 248-14
- CSA C22.2 no. 248.14

References

- [General Product Information](#)
- [Packaging Details](#)

Weblinks

- [Approvals, RoHS, CHINA-RoHS, e-Store, SCHURTER-Stock-Check, Distributor-Stock-Check](#)

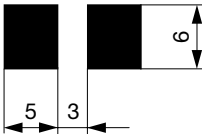
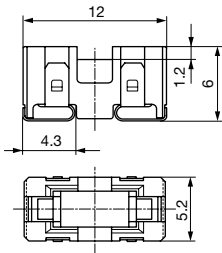
Technical Data

Rated Voltage	63VAC, 63VDC
Rated Current	0.063 - 5A
Breaking Capacity	50A
Characteristic	Quick-Acting F
Mounting	PCB,SMT
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/21 acc. to IEC 60068-1
Material: Housing	Thermoplastic, UL 94V-0
Material: Terminals	Tin-Plated Copper
Unit Weight	0.48 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Type, Current Rating, Approvals

Soldering Methods	Reflow
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	260 °C / 10 sec acc. to IEC 60068-2-58, Test Td

Dimensions

Length  12 mm



Solder pads

Pre-Arcing Time

Rated Current In	1.0 x In min.	2.0 x In max.	4.0 x In max.
0.063 A - 5 A	4 h	1 s	10 ms

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

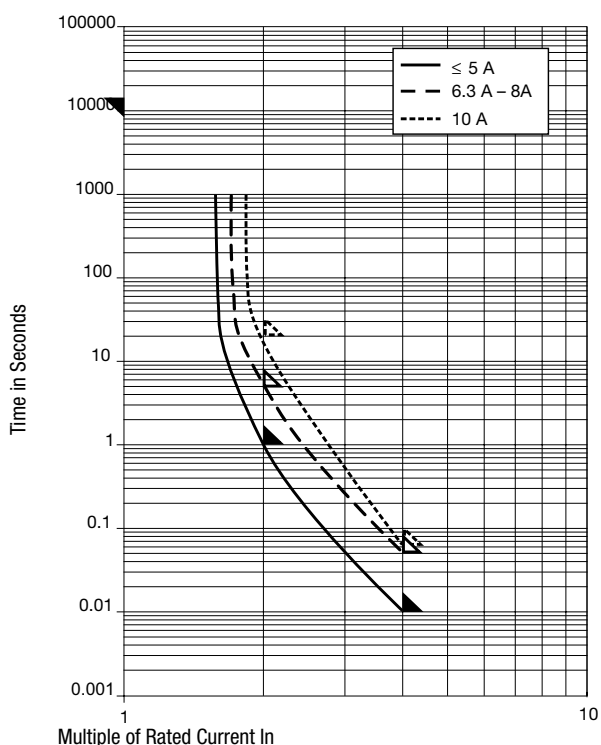
Fuse	Holder	Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipation 1.0 I _n typ. [mW]	Melting I ² t 4.0 In typ. [A ² s]	CCC	Order Number
●	●	0.063	63	63	1)	2550	160	0.00011	●	3422.0003.xx
●	●	0.1	63	63	1)	1770	180	0.00067	●	3422.0004.xx
●	●	0.125	63	63	1)	1770	220	0.0011	●	3422.0049.xx
●	●	0.16	63	63	1)	1700	270	0.0018	●	3422.0005.xx
●	●	0.25	63	63	1)	990	250	0.0058	●	3422.0006.xx
●	●	0.35	63	63	1)	990	350	0.0076	●	3422.0043.xx
●	●	0.375	63	63	1)	990	370	0.013	●	3422.0044.xx
●	●	0.4	63	63	1)	960	380	0.016	●	3422.0007.xx
●	●	0.5	63	63	1)	350	180	0.01	●	3422.0045.xx
●	●	0.63	63	63	1)	290	180	0.02	●	3422.0008.xx
●	●	0.75	63	63	1)	260	200	0.031	●	3422.0046.xx
●	●	1	63	63	1)	220	220	0.078	●	3422.0009.xx
●	●	1.25	63	63	1)	220	280	0.14	●	3422.0010.xx
●	●	1.5	63	63	1)	200	300	0.24	●	3422.0047.xx
●	●	1.6	63	63	1)	200	320	0.27	●	3422.0011.xx
●	●	2	63	63	1)	200	400	0.44	●	3422.0012.xx
●	●	2.5	63	63	1)	190	480	0.97	●	3422.0013.xx
●	●	3	63	63	1)	190	570	1.3	●	3422.0014.xx
●	●	3.15	63	63	1)	190	600	1.2	●	3422.0048.xx
●	●	3.5	63	63	1)	140	490	1.6	●	3422.0015.xx
●	●	4	63	63	1)	140	560	2.1	●	3422.0016.xx
●	●	5	63	63	1)	140	700	2.9	●	3422.0017.xx

1) 50 A @ 63 VAC/DC

Packaging Unit

.xx = .11 Plastic Bag (100 pcs.)
 .xx = .23 Blister Tape 33 cm Reel (1500 pcs.)

Time-Current Curves



Surface Mount Fuse, 7.4 x 3.1 mm, Quick-Acting F, 125 VAC, 125 VDC



UL 248-14 · 125 VAC · 125 VDC · Quick-Acting F

**Description**

- Directly solderable on printed circuit boards

Standards

- UL 248-14
- CSA C22.2 no. 248.14

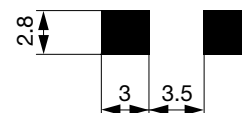
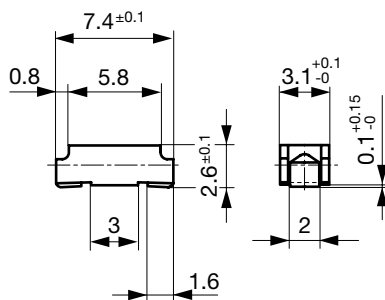
Approvals

- UL File Number: E41599

References[General Product Information](#)[Packaging Details](#)Corresponding Fuseholder [OMH 125](#)Assembled Fuseholder [OMK 125](#)Fuse Kit [Fuse Kit OMF](#)**Weblinks**
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

Rated Voltage	125 VAC, 125 VDC
Rated Current	0.063 - 10 A
Breaking Capacity	100 A
Characteristic	Quick-Acting F
Mounting	PCB, SMT
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Housing	Thermoplastic, UL 94V-0
Material: Terminals	Tin-Plated Copper Alloy
Unit Weight	0.08 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Type, Current Rating, Approvals

Soldering Methods	Reflow, Wave
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	260 ±0/-5 °C / 40 sec acc. to IPC/JEDEC J-STD-020D, Level 1
Load Humidity Test	MIL-STD-202, Method 103B (1000h @ 0.1*ln @ 0.85 r.H. @ 85 °C)
Moisture Resistance Test	MIL-STD-202, Method 106E (50 cycles in a temp./mister chamber)
Terminal Strength	MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute)
Case Resistance	acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body)
Mechanical Shock	MIL-STD-202, Method 213B (Shock 50gn, half sine wave, 11 ms)
Vibration, High Frequency	MIL-STD-202, Method 204D (Shock 20 gn, 20 min, 10-2 kHz, 12 cyc.)
Resistance to Solvents	MIL-STD-202, Method 215A
Flammability	min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12)

DimensionsLength  7.4 mm

Solder pads

Pre-Arcing Time

Rated Current I_n	1.0 x I_n min.	2.0 x I_n max.	4.0 x I_n max.
0.063 A - 5 A	4 h	1 s	10 ms
6.3 A - 8 A	4 h	5 s	50 ms
10 A	4 h	20 s	60 ms

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

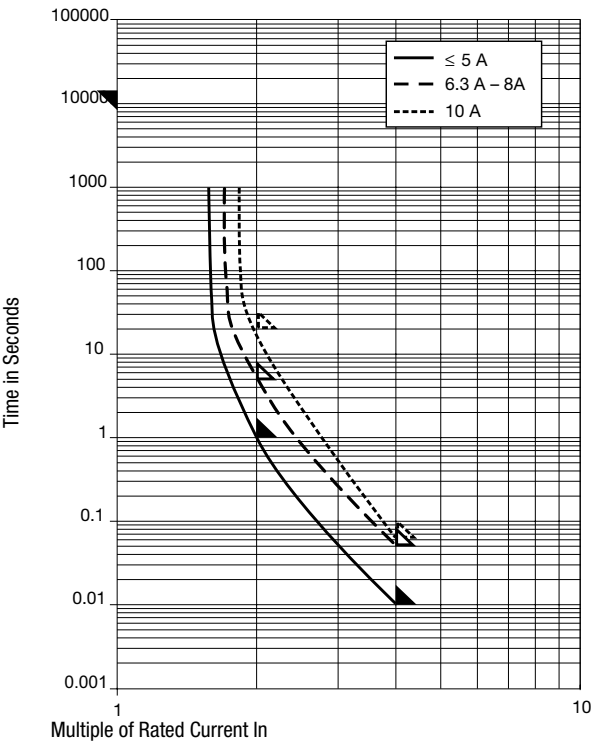
Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 I_n typ. [mV]	Power Dissipation 1.0 I_n typ. [mW]	Melting I^2t 4.0 I_n typ. [A ² s]		Order Number
0.063	125	125	1)	2550	160	0.00011	● ●	3404.0003.xx
0.1	125	125	1)	1770	180	0.00067	● ●	3404.0004.xx
0.125	125	125	1)	1770	220	0.0011	● ●	3404.0049.xx
0.16	125	125	1)	1700	270	0.0018	● ●	3404.0005.xx
0.25	125	125	1)	990	250	0.0058	● ●	3404.0006.xx
0.35	125	125	1)	990	350	0.0076	● ●	3404.0043.xx
0.375	125	125	1)	990	370	0.013	● ●	3404.0044.xx
0.4	125	125	1)	960	380	0.016	● ●	3404.0007.xx
0.5	125	125	1)	350	150	0.01	● ●	3404.0045.xx
0.63	125	125	1)	290	180	0.02	● ●	3404.0008.xx
0.75	125	125	1)	260	200	0.031	● ●	3404.0046.xx
1	125	125	1)	220	220	0.078	● ●	3404.0009.xx
1.25	125	125	1)	220	280	0.14	● ●	3404.0010.xx
1.5	125	125	1)	200	300	0.24	● ●	3404.0047.xx
1.6	125	125	1)	200	320	0.27	● ●	3404.0011.xx
2	125	125	1)	200	400	0.44	● ●	3404.0012.xx
2.5	125	125	1)	190	480	0.97	● ●	3404.0013.xx
3	125	125	1)	190	570	1.3	● ●	3404.0014.xx
3.15	125	125	1)	190	600	1.2	● ●	3404.0048.xx
3.5	125	125	1)	140	490	1.6	● ●	3404.0015.xx
4	125	125	1)	140	560	2.1	● ●	3404.0016.xx
5	125	125	1)	140	700	2.9	● ●	3404.0017.xx
6.3	125	125	1)	110	690	14	● ●	3404.0018.xx
7	125	125	1)	105	740	16	● ●	3404.0019.xx
8	125	125	1)	100	800	20	● ●	3404.0020.xx
10	125	125	1)	80	800	54	● ●	3404.0021.xx

1) 100 A @ 125 VAC/DC

Packaging Unit

.xx = .11 Plastic Bag (100 pcs.)
 .xx = .22 Blister Tape 18 cm Reel (750 pcs.)
 .xx = .24 Blister Tape 33 cm Reel (3000 pcs.)

Time-Current Curves



Surface Mount Fuse with Holder, 12 x 5.2 mm, Quick-Acting F, 125 VAC, 125 VDC



UL 248-14 · 125 VAC · 125 VDC · Quick-Acting F



CCC

Description

- Directly solderable on printed circuit boards
- OMK 125 = OMF 125 + OMH 125

Standards

- UL 248-14
- CSA C22.2 no. 248.14

References

[General Product Information](#)
[Packaging Details](#)

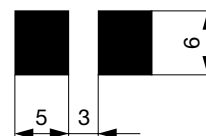
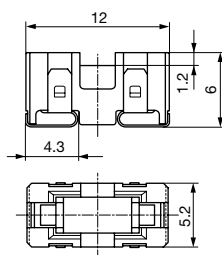
Weblinks

[Approvals, RoHS, CHINA-RoHS, e-Store, SCHURTER-Stock-Check, Distributor-Stock-Check](#)

Technical Data

Rated Voltage	125 VAC, 125 VDC
Rated Current	0.063 - 5 A
Breaking Capacity	100 A
Characteristic	Quick-Acting F
Mounting	PCB, SMT
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/21 acc. to IEC 60068-1
Material: Housing	Thermoplastic, UL 94V-0
Material: Terminals	Tin-Plated Copper
Unit Weight	0.47 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 , Type, Current Rating, Approvals

Soldering Methods	Reflow
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	260 °C / 10 sec acc. to IEC 60068-2-58, Test Td

DimensionsLength  12 mm

Solder pads

Pre-Arcing Time

Rated Current In	1.0 x In min.	2.0 x In max.	4.0 x In max.
0.063 A - 5 A	4 h	1 s	10 ms

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

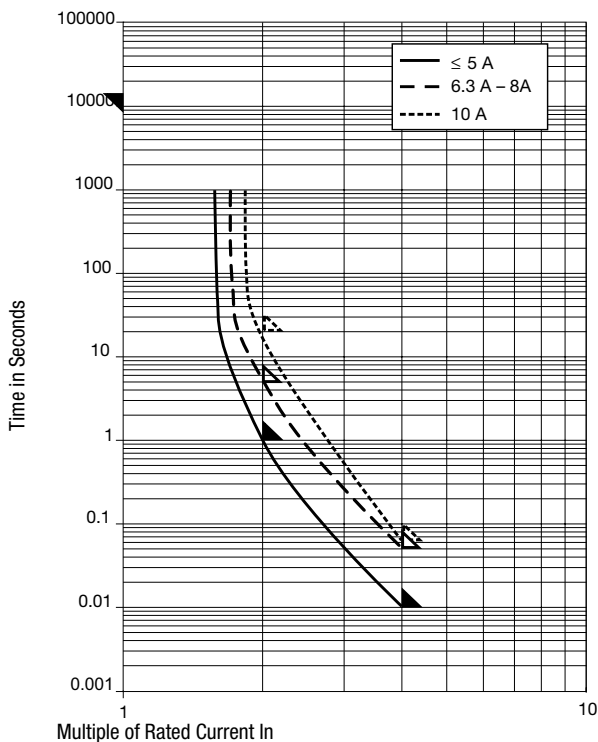
Fuse	Holder	Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.0 I _n typ. [mW]	Melting I ² t 4.0 In typ. [A ² s]	CCC	Order Number
●	●	0.063	125	125	1)	2550	160	0.00011	●	3404.2303.xx
●	●	0.1	125	125	1)	1770	180	0.00067	●	3404.2304.xx
●	●	0.125	125	125	1)	1770	220	0.0011	●	3404.2349.xx
●	●	0.16	125	125	1)	1700	270	0.0018	●	3404.2305.xx
●	●	0.25	125	125	1)	990	250	0.0058	●	3404.2306.xx
●	●	0.35	125	125	1)	990	350	0.0076	●	3404.2343.xx
●	●	0.375	125	125	1)	990	370	0.013	●	3404.2344.xx
●	●	0.4	125	125	1)	960	380	0.016	●	3404.2307.xx
●	●	0.5	125	125	1)	350	150	0.01	●	3404.2345.xx
●	●	0.63	125	125	1)	290	180	0.02	●	3404.2308.xx
●	●	0.75	125	125	1)	260	200	0.031	●	3404.2346.xx
●	●	1	125	125	1)	220	220	0.078	●	3404.2309.xx
●	●	1.25	125	125	1)	220	280	0.14	●	3404.2310.xx
●	●	1.5	125	125	1)	200	300	0.24	●	3404.2347.xx
●	●	1.6	125	125	1)	200	320	0.27	●	3404.2311.xx
●	●	2	125	125	1)	200	400	0.44	●	3404.2312.xx
●	●	2.5	125	125	1)	190	480	0.97	●	3404.2313.xx
●	●	3	125	125	1)	190	570	1.3	●	3404.2314.xx
●	●	3.15	125	125	1)	190	600	1.2	●	3404.2348.xx
●	●	3.5	125	125	1)	140	490	1.6	●	3404.2315.xx
●	●	4	125	125	1)	140	560	2.1	●	3404.2316.xx
●	●	5	125	125	1)	140	700	2.9	●	3404.2317.xx

1) 100 A @ 125 VAC/DC

Packaging Unit

.xx = .11 Plastic Bag (100 pcs.)
 .xx = .22 Blister Tape 18 cm Reel (750 pcs.)
 .xx = .23 Blister Tape 33 cm Reel (1500 pcs.)

Time-Current Curves



Surface Mount Fuse, 7.4 x 3.1 mm, Time-Lag T, 125 VAC, 125 VDC



UL 248-14 · 125 VAC · 125 VDC · Time-Lag T

**Description**

- Directly solderable on printed circuit boards

Standards

- UL 248-14
- CSA C22.2 no. 248.14

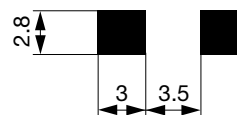
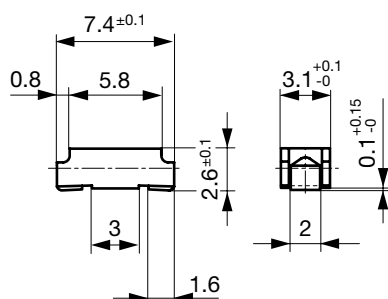
Approvals

- UL File Number: E41599

References[General Product Information](#)[Packaging Details](#)Corresponding Fuseholder [OMH 125](#)Assembled Fuseholder [OMZ 125](#)**Weblinks**
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

Rated Voltage	125 VAC, 125 VDC
Rated Current	0.25 - 5 A
Breaking Capacity	100 A
Characteristic	Time-Lag T
Mounting	PCB, SMT
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Housing	Thermoplastic, UL 94V-0
Material: Terminals	Tin-Plated Copper Alloy
Unit Weight	0.08 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Type, Current Rating, Approvals

Soldering Methods	Reflow, Wave
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	260 +0/-5 °C / 40 sec acc. to IPC/JEDEC J-STD-020D, Level 1
Moisture Resistance Test	MIL-STD-202, Method 106E (50 cycles in a temp./mister chamber)
Terminal Strength	MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute)
Case Resistance	acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body)
Mechanical Shock	MIL-STD-202, Method 213B (Shock 50gn, half sine wave, 11 ms)
Resistance to Solvents	MIL-STD-202, Method 215A
Flammability	min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12)

DimensionsLength  7.4 mm

Solder pads

Pre-Arcing Time

Rated Current I _n	1.0 x I _n min.	2.0 x I _n max.	8.0 x I _n min.	8.0 x I _n max.
0.25 A - 0.375 A	4 h	60 s	2 ms	30 ms
0.5 A - 6.3 A	4 h	60 s	5 ms	100 ms

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipation 1.0 I _n typ. [mW]	Melting I ² t 8.0 I _n typ. [A ² s]	cULus CCC		Order Number
0.25	125	125	1)	142	35.5	0.02	●	●	3404.0110.xx
0.375	125	125	1)	123	46.1	0.054	●	●	3404.0111.xx
0.5	125	125	1)	95	47.5	0.16	●	●	3404.0112.xx
0.75	125	125	1)	92	69	0.43	●	●	3404.0113.xx
1	125	125	1)	88	88	0.77	●	●	3404.0114.xx
1.5	125	125	1)	82	123	1.73	●	●	3404.0115.xx
2	125	125	1)	75	150	3.58	●	●	3404.0116.xx
2.5	125	125	1)	137	343	5.6	●	●	3404.0117.xx
3	125	125	1)	128	384	8.06	●	●	3404.0118.xx
3.5	125	125	1)	119	417	11.76	●	●	3404.0119.xx
4	125	125	1)	77	308	12.3	●	●	3404.0120.xx
5	125	125	1)	79	395	20.8	●	●	3404.0121.xx
6.3	125	125	1)	82	516	25.4	●	●	3404.0122.xx

1) 100 A @ 125 VAC, p.f. ≥ 0.95 / 100 A @ 125 VDC

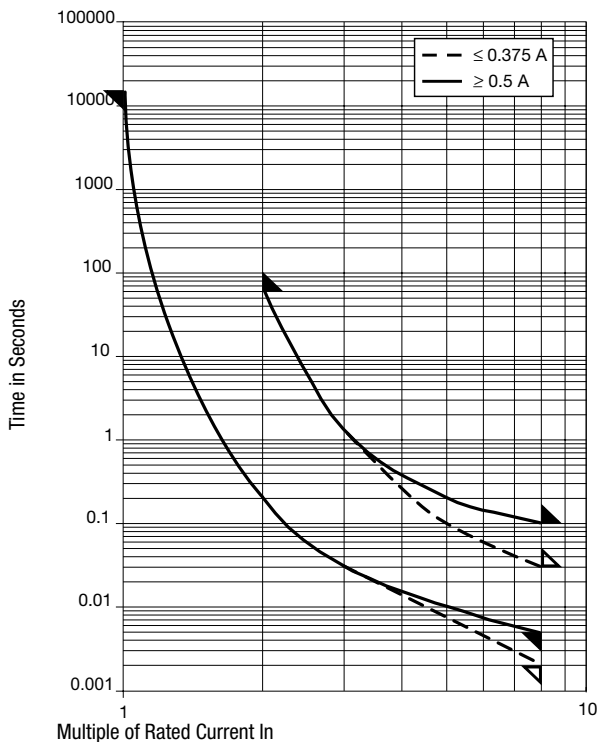
Packaging Unit

.xx = .11 Plastic Bag (100 pcs.)

.xx = .22 Blister Tape 18 cm Reel (750 pcs.)

.xx = .24 Blister Tape 33 cm Reel (3000 pcs.)

Time-Current Curves



Surface Mount Fuse with Holder, 12 x 5.2 mm, Time-Lag T, 125 VAC, 125 VDC



UL 248-14 · 125 VAC · 125 VDC · Time-Lag T



CCC

Description

- Directly solderable on printed circuit boards
- OMZ 125 = OMT 125 + OMH 125

Standards

- UL 248-14
- CSA C22.2 no. 248.14

References

[General Product Information](#)
[Packaging Details](#)

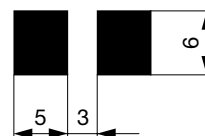
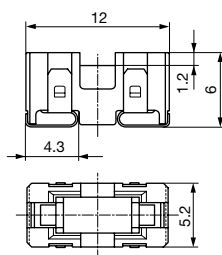
Weblinks

[Approvals, RoHS, CHINA-RoHS, e-Store, SCHURTER-Stock-Check, Distributor-Stock-Check](#)

Technical Data

Rated Voltage	125 VAC, 125 VDC
Rated Current	0.25 - 5 A
Breaking Capacity	100 A
Characteristic	Time-Lag T
Mounting	PCB, SMT
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/21 acc. to IEC 60068-1
Material: Housing	Thermoplastic, UL 94V-0
Material: Terminals	Tin-Plated Copper
Unit Weight	0.47 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 , Type, Current Rating, Approvals

Soldering Methods	Reflow
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	260 °C / 10 sec acc. to IEC 60068-2-58, Test Td

DimensionsLength  12 mm

Solder pads

Pre-Arcing Time

Rated Current I_n	1.0 x I_n min.	2.0 x I_n max.	8.0 x I_n min.	8.0 x I_n max.
0.25 A - 0.375 A	4 h	60 s	2 ms	10 ms
0.5 A - 6.3 A	4 h	60 s	5 ms	100 ms

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Variants

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

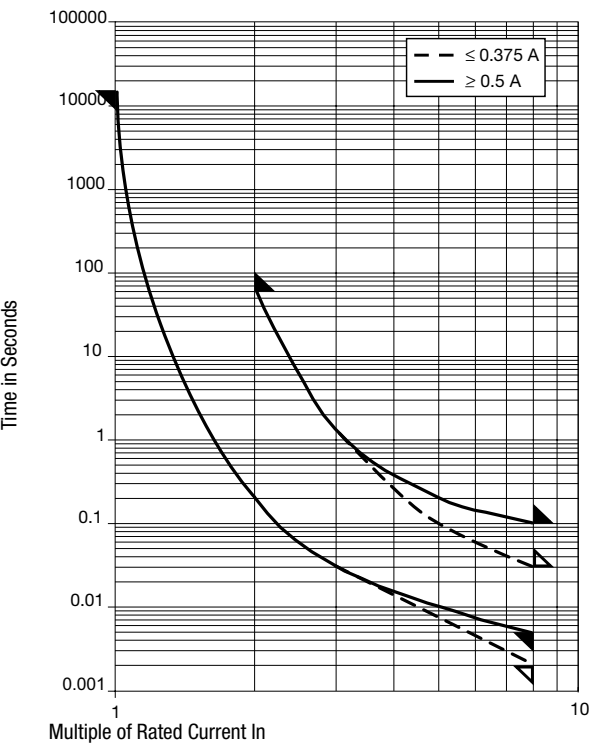
Fuse	Holder	Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.0 In typ. [mW]	Melting I ² t 8.0 In typ. [A²s]	CCC	Order Number
●	●	0.25	125	125	1)	142	35.5	0.02	●	3404.2320.xx
●	●	0.375	125	125	1)	123	46.1	0.054	●	3404.2321.xx
●	●	0.5	125	125	1)	95	47.5	0.16	●	3404.2322.xx
●	●	0.75	125	125	1)	92	69	0.43	●	3404.2323.xx
●	●	1	125	125	1)	88	88	0.77	●	3404.2324.xx
●	●	1.5	125	125	1)	82	123	1.73	●	3404.2325.xx
●	●	2	125	125	1)	75	150	3.58	●	3404.2326.xx
●	●	2.5	125	125	1)	137	343	5.6	●	3404.2327.xx
●	●	3	125	125	1)	128	384	8.06	●	3404.2328.xx
●	●	3.5	125	125	1)	119	417	11.76	●	3404.2329.xx
●	●	4	125	125	1)	77	308	12.3	●	3404.2330.xx
●	●	5	125	125	1)	79	395	20.8	●	3404.2331.xx

1) 100 A @ 125 VAC , p.f. ≥ 0.95 / 100 A @ 125 VDC

Packaging Unit

- .xx = .11 Plastic Bag (100 pcs.)
- .xx = .22 Blister Tape 18 cm Reel (750 pcs.)
- .xx = .23 Blister Tape 33 cm Reel (1500 pcs.)

Time-Current Curves



Surface Mount Fuse, 11 x 4.6 mm, Quick-Acting F, 250 VAC, 250 DC



IEC 60127-4 · 250 VAC · 250 VDC · Quick-Acting F

**Description**

- Directly solderable on printed circuit boards

Standards

- IEC 60127-4/2
- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- VDE License Number: 106328
- UL File Number: E41599

Applications

- Primary Protection on SMD PCB
- Industrial electronic

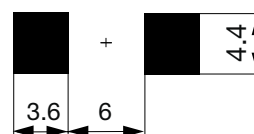
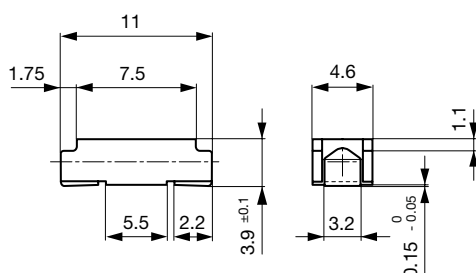
References
[General Product Information](#)
[Packaging Details](#)
[Fuse Kit](#) [Fuse Kit OMF](#)
Weblinks
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

Rated Voltage	250 VAC, 250 VDC
Rated Current	0.25 - 4 A
Breaking Capacity	100 A
Characteristic	Quick-Acting F
Mounting	PCB, SMT
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Housing	Thermoplastic, UL 94V-0
Material: Terminals	Tin-Plated Copper Alloy
Unit Weight	0.36 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	M, Type, Current Rating, Characteristic, Breaking Capacity, Approvals

Soldering Methods	Reflow, Wave
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	260 °C / 10 sec acc. to IEC 60068-2-58, Test Td
Load Humidity Test	MIL-STD-202, Method 103B (1000h @ 0.1*In @ 0.85 r.H. @ 85°C)
Moisture Resistance Test	MIL-STD-202, Method 106E (50 cycles in a temp./mister chamber)
Terminal Strength	MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute)
Thermal Shock	MIL-STD-202, Method 107D (200 air-to-air cycles from -55 to +125°C)
Case Resistance	acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body)
Mechanical Shock	MIL-STD-202, Method 213B (Shock 50gn, half sine wave, 11 ms)
Vibration, High Frequency	MIL-STD-202, Method 204D (Shock 20 gn, 20 min, 10-2 kHz, 12 cyc.)
Resistance to Solvents	MIL-STD-202, Method 215A
Flammability	min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12)

Dimensions

Length 11 mm



Solder pads

Pre-Arcing Time

Rated Current In	1.25 x In min.	2.0 x In max.	10.0 x In min.	10.0 x In max.
0.25 A - 4 A	60 min	120 s	1 ms	10 ms

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 In max. [mV]	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.25 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]	   CCC	Order Number
0.25	250	250	1)	-	1100	480	0.012	● ● ● ●	3403.0010.xx
0.315	250	250	1)	-	1000	430	0.019	● ● ● ●	3403.0011.xx
0.4	250	250	1)	700	230	190	0.02	● ● ● ●	3403.0012.xx
0.5	250	250	1)	600	190	190	0.03	● ● ● ●	3403.0013.xx
0.63	250	250	1)	500	170	230	0.07	● ● ● ●	3403.0014.xx
0.8	250	250	1)	400	200	330	0.12	● ● ● ●	3403.0015.xx
1	250	250	1)	300	170	390	0.23	● ● ● ●	3403.0016.xx
1.25	250	250	1)	300	150	390	0.47	● ● ● ●	3403.0017.xx
1.6	250	250	1)	300	150	490	0.84	● ● ● ●	3403.0018.xx
2	250	250	1)	300	140	600	1.4	● ● ● ●	3403.0019.xx
2.5	250	250	1)	300	130	670	2.6	● ● ● ●	3403.0020.xx
3.15	250	250	1)	300	130	870	4.8	● ● ● ●	3403.0021.xx
4	250	250	1)	300	100	950	8.6	● ● ● ●	3403.0022.xx

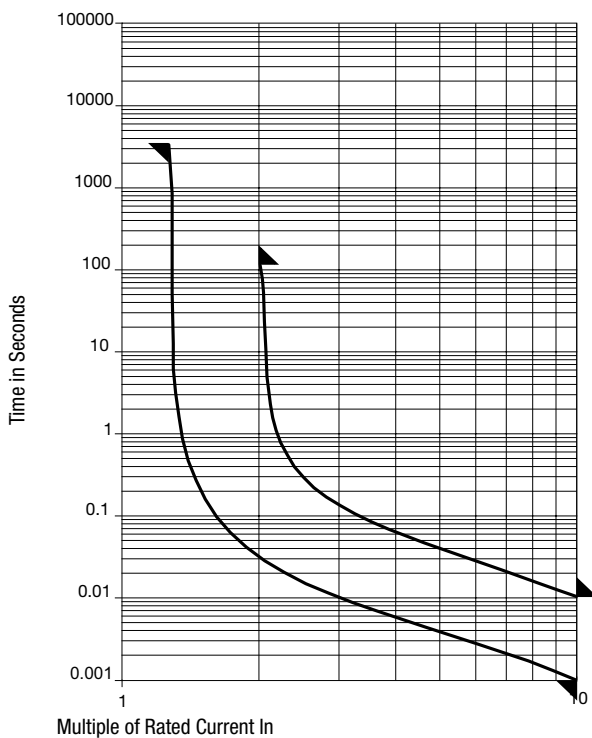
1) 100 A @ 250 VAC/DC

Packaging Unit

.xx = .11 Plastic Bag (100 pcs.)

.xx = .24 Blister Tape 33 cm Reel (2000 pcs.)

Time-Current Curves



Surface Mount Fuse, 11 x 4.6 mm, Time-Lag T, 250 VAC



UL 248-14 · 250 VAC · Time-Lag T

**Description**

- Directly solderable on printed circuit boards

Standards

- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- UL File Number: E41599

Applications

- Primary Protection on SMD PCB

References

[General Product Information](#)
[Packaging Details](#)

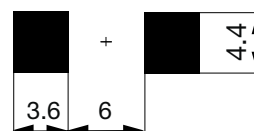
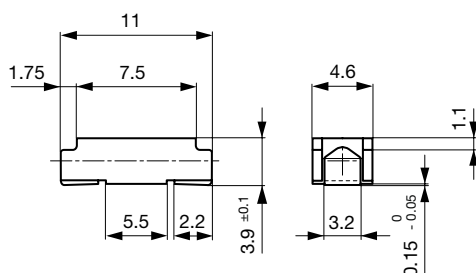
Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

Rated Voltage	125 - 250 VAC
Rated Current	0.75 - 5 A
Breaking Capacity	50 A - 100 A
Characteristic	Time-Lag T
Mounting	PCB, SMT
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Housing	Thermoplastic, UL 94V-0
Material: Terminals	Tin-Plated Copper Alloy
Unit Weight	0.36 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Type, Current Rating, Approvals

Soldering Methods	Reflow, Wave
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	260 °C / 10 sec acc. to IEC 60068-2-58, Test Td
Moisture Resistance Test	MIL-STD-202, Method 106E (50 cycles in a temp./mister chamber)
Terminal Strength	MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute)
Thermal Shock	MIL-STD-202, Method 107D (200 air-to-air cycles from -55 to +125 °C)
Case Resistance	acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body)
Mechanical Shock	MIL-STD-202, Method 213B (Shock 50gn, half sine wave, 11 ms)
Vibration, High Frequency	MIL-STD-202, Method 204D (Shock 20 gn, 20 min, 10-2 kHz, 12 cyc.)
Resistance to Solvents	MIL-STD-202, Method 215A
Flammability	UL 94V-1 (acc. to EIA/IS-722, Test 4.12)

DimensionsLength  11 mm

Solder pads

Pre-Arcing Time

Rated Current I_n	1.0 x I_n min.	2.0 x I_n min.	2.0 x I_n max.	3.0 x I_n min.	3.0 x I_n max.	8.0 x I_n min.	8.0 x I_n max.
0.75 A - 5 A	4 h	100 ms	60 s	70 ms	3 s	5 ms	50 ms

Variants
[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 I_n typ. [mV]	Power Dissipation 1.0 I_n typ. [mW]	Melting I^2t 8.0 I_n typ. [A ² s]		Order Number
0.75	250	1)	200	150	0.36	● ●	3403.0129.xx
1	250	1)	146	146	0.99	● ●	3403.0116.xx
1.25	250	1)	89	111	1	● ●	3403.0117.xx
1.5	250	2)	74	111	2	● ●	3403.0130.xx
2	250	2)	69	138	4	● ●	3403.0119.xx
2.5	125	3)	68	170	7	● ●	3403.0120.xx
3	125	3)	62	186	12	● ●	3403.0131.xx
3.5	125	3)	60	210	19	● ●	3403.0132.xx
4	125	3)	60	240	23	● ●	3403.0122.xx
5	125	3)	57	285	37	● ●	3403.0123.xx

1) 100 A @ 250 VAC

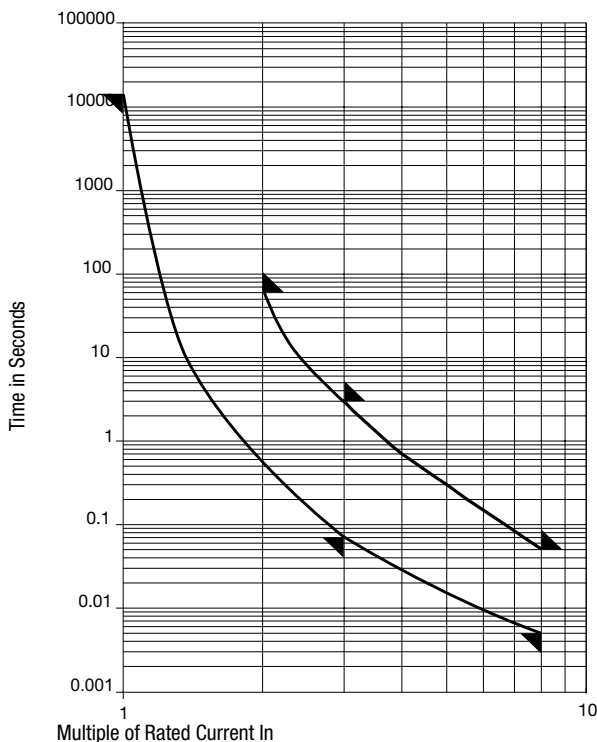
2) 50 A @ 250 VAC

3) 100 A @ 125 VAC

Packaging Unit

.xx = .11 Plastic Bag (100 pcs.)

.xx = .24 Blister Tape 33 cm Reel (2000 pcs.)

Time-Current Curves

Surface Mount Fuse, 5 x 20 mm, Time-Lag T, L, 250 VAC, Au plating



IEC 60127-2 · 250VAC · Time-Lag T

**Description**

- Directly solderable on printed circuit boards
- L = Low Breaking Capacity
- For rated current 1 A to 16 A, SMD-SPT is recommended

Standards

- IEC 60127-2/3
- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- VDE License Number: 40011522
- UL File Number: E41599

Applications

- Primary Protection on SMD PCB

References

[General Product Information](#)
[Packaging Details](#)

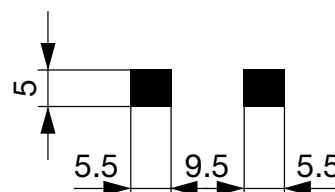
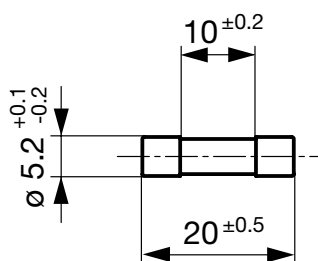
Weblinks

[Approvals, RoHS, CHINA-RoHS, e-Store, SCHURTER-Stock-Check, Distributor-Stock-Check](#)

Technical Data

Rated Voltage	250VAC
Rated Current	0.05 - 20A
Breaking Capacity	35A - 125A
Characteristic	Time-Lag T
Mounting	PCB,SMT
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Housing	Glass
Material: Terminals	Gold-Plated Copper Alloy
Unit Weight	1.05 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Current Rating, Voltage Rating, Characteristic, Breaking Capacity

Soldering Methods	Reflow
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	260 °C / 10 sec acc. to IEC 60068-2-58, Test Td
Resistance to Vibration	acc. to IEC 60068-2-6, test Fc
Load Humidity Test	MIL-STD-202, Method 103B (1000h @ 0.1*In @ 0.85 r.H. @ 85°C)
Moisture Resistance Test	MIL-STD-202, Method 106E (50 cycles in a temp./mister chamber)
Terminal Strength	MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute)
Thermal Shock	MIL-STD-202, Method 107D (200 air-to-air cycles from -55 to +125°C)
Case Resistance	acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body)
Resistance to Solvents	MIL-STD-202, Method 215A

DimensionsLength  20 mm

Solder pads

Pre-Arcing Time

Rated Current In	1.5 x In min.	2.1 x In max.	2.75 x In min.	2.75 x In max.	4.0 x In min.	4.0 x In max.	10.0 x In min.	10.0 x In max.
0.05 A - 0.1 A	60 min	120 s	300 ms	10 s	40 ms	3 s	10 ms	300 ms
0.125 A - 6.3 A	60 min	120 s	600 ms	10 s	150 ms	3 s	20 ms	300 ms
8 A - 10 A	30 min	120 s	600 ms	10 s	150 ms	3 s	20 ms	300 ms
12.5 A - 20 A	15 min	120 s	600 ms	10 s	150 ms	3 s	20 ms	300 ms

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 In max. [mV]	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.5 I _n max. [mW]	Power Dissipation 1.5 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]		Order Number
0.05	250	1)	3500	950	1600	125	0.0363	● ●	0034.5604.xx
0.063	250	1)	3000	1300	1600	200	0.0401	● ●	0034.5605.xx
0.08	250	1)	3000	1100	1600	300	0.057	● ●	0034.5606.xx
0.1	250	1)	2500	565	1600	155	0.107	● ●	0034.5607.xx
0.125	250	1)	2000	400	1600	200	0.064	● ●	0034.5608.xx
0.16	250	1)	1900	415	1600	185	0.23	● ●	0034.5609.xx
0.2	250	1)	1500	270	1600	200	0.256	● ●	0034.5610.xx
0.25	250	1)	1300	210	1600	200	0.238	● ●	0034.5611.xx
0.315	250	1)	1100	170	1600	200	0.544	● ●	0034.5612.xx
0.4	250	1)	1000	150	1600	200	0.768	● ●	0034.5613.xx
0.5	250	1)	900	160	1600	200	3	● ●	0034.5614.xx
0.63	250	1)	300	160	1600	200	4.35	● ●	0034.5615.xx
0.8	250	1)	250	120	1600	200	3.85	● ●	0034.5616.xx
1	250	1)	150	60	1600	200	3.3	● ●	0034.5617.xx
1.25	250	1)	150	60	1600	300	5.5	● ●	0034.5618.xx
1.6	250	1)	150	60	1600	300	10.5	● ●	0034.5619.xx
2	250	1)	150	60	1600	300	16	● ●	0034.5620.xx
2.5	250	1)	120	60	1600	400	21.9	● ●	0034.5621.xx
3.15	250	1)	100	60	1600	500	47	● ●	0034.5622.xx
4	250	2)	100	60	1600	800	68.3	● ●	0034.5623.xx
5	250	2)	100	60	1600	900	102	● ●	0034.5624.xx
6.3	250	2)	100	60	1600	1000	190	● ●	0034.5625.xx
8	250	2)	100	60	4000	1300	275	● ●	0034.5626.xx
10	250	2)	100	60	4000	1300	520	● ●	0034.5627.xx
12.5	250	3)	-	60	-	2500	750	●	0034.5628.xx
16	250	3)	-	60	-	3300	1638	●	0034.5629.xx
20	250	3)	-	60	-	4200	3057		0034.5630.xx

1) 35 A @ 250 VAC

2) 10 In @ 250 VAC

3) 125 A @ 250 VAC

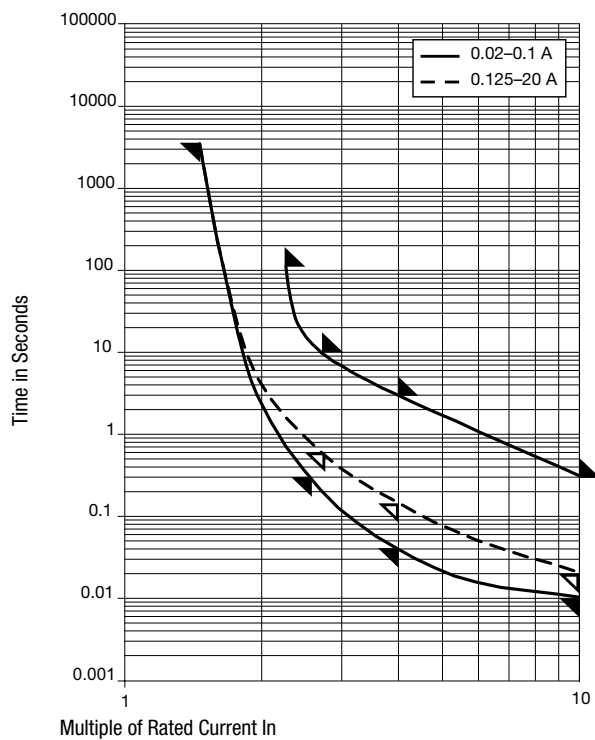
Packaging Unit

.xx = .11 Plastic Bag (100 pcs.)

.xx = .21 Blister Tape 38 cm Reel (1000 pcs.)

.xx = .22 Blister Tape 38 cm Reel (2000 pcs.)

Time-Current Curves



Surface Mount Fuse, 5 x 20 mm, Time-Lag T, H, 250 VAC, Au plating



IEC 60127-2 · 250 VAC · 300 VDC · Time-Lag T

**Description**

- Directly solderable on printed circuit boards
- IEC Standard Fuse
- H = High Breaking Capacity

Standards

- IEC 60127-2/5
- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- VDE License Number: 40010881
- UL File Number: E41599

Applications

- Primary Protection on SMD PCB

References

[General Product Information](#)
[Packaging Details](#)

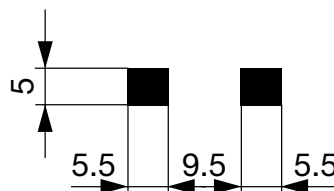
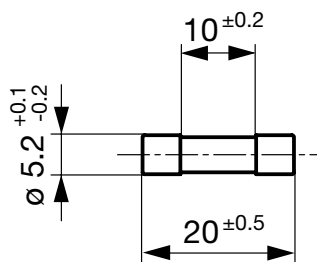
Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

Rated Voltage	250 VAC, 300 VDC
Rated Current	1 - 16 A
Breaking Capacity	500 A - 1500 A
Characteristic	Time-Lag T
Mounting	PCB, SMT
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Housing	Ceramic
Material: Terminals	Gold-Plated Copper Alloy
Unit Weight	1 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Current Rating, Voltage Rating, Characteristic, Breaking Capacity

Soldering Methods	Reflow
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	260 °C / 10 sec acc. to IEC 60068-2-58, Test Td
Resistance to Vibration	acc. to IEC 60068-2-6, test Fc
Moisture Resistance Test	MIL-STD-202, Method 106E (50 cycles in a temp./mister chamber)
Terminal Strength	MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute)
Thermal Shock	MIL-STD-202, Method 107D (200 air-to-air cycles from -55 to +125 °C)
Case Resistance	acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body)
Resistance to Solvents	MIL-STD-202, Method 215A

DimensionsLength  20 mm

Solder pads

Pre-Arcing Time

Rated Current In	1.5 x In min.	2.1 x In max.	2.75 x In min.	2.75 x In max.	4.0 x In min.	4.0 x In max.	10.0 x In min.	10.0 x In max.
1 A - 3.15 A	60 min	30 min	750 ms	80 s	95 ms	5 s	10 ms	150 ms
4 A - 6.3 A	60 min	30 min	750 ms	80 s	150 ms	5 s	10 ms	150 ms
8 A - 10 A	30 min	30 min	750 ms	80 s	150 ms	5 s	10 ms	150 ms
12.5 A - 16 A	15 min	30 min	750 ms	80 s	150 ms	5 s	20 ms	150 ms

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 In max. [mV]	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.5 I _n max. [mW]	Power Dissipation 1.5 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]		Order Number
1	250	300	1)	250	180	2500	500	1.1	● ●	0001.2704.xx
1.25	250	300	1)	250	150	2500	500	1.86	● ●	0001.2705.xx
1.6	250	300	1)	200	130	2500	500	4.35	● ●	0001.2706.xx
2	250	300	1)	190	120	2500	600	9.2	● ●	0001.2707.xx
2.5	250	300	1)	180	100	2500	600	11.7	● ●	0001.2708.xx
3.15	250	300	1)	140	100	4000	800	33.7	● ●	0001.2709.xx
4	250	150	2)	100	90	4000	900	62.4	● ●	0001.2710.xx
5	250	150	2)	100	90	4000	1200	97.5	● ●	0001.2711.xx
6.3	250	150	2)	100	70	4000	1200	171	● ●	0001.2712.xx
8	250	150	3)	100	70	4000	1300	268	● ●	0001.2713.xx
10	250	150	3)	100	70	4000	2100	400	● ●	0001.2714.xx
12.5	250	125	4)	-	70	-	3100	563	●	0001.2715.xx
16	250	125	4)	-	70	-	4000	1272	●	0001.2716.xx

1) IEC: 1500 A @ 250 VAC, p.f. = 0.7 - 0.8

1) UL: 10 kA @ 125 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 250 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 300 VDC

2) IEC: 1500 A @ 250 VAC, p.f. = 0.7 - 0.8

2) UL: 10 kA @ 125 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 250 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 150 VDC

3) IEC: 1000 A @ 250 VAC

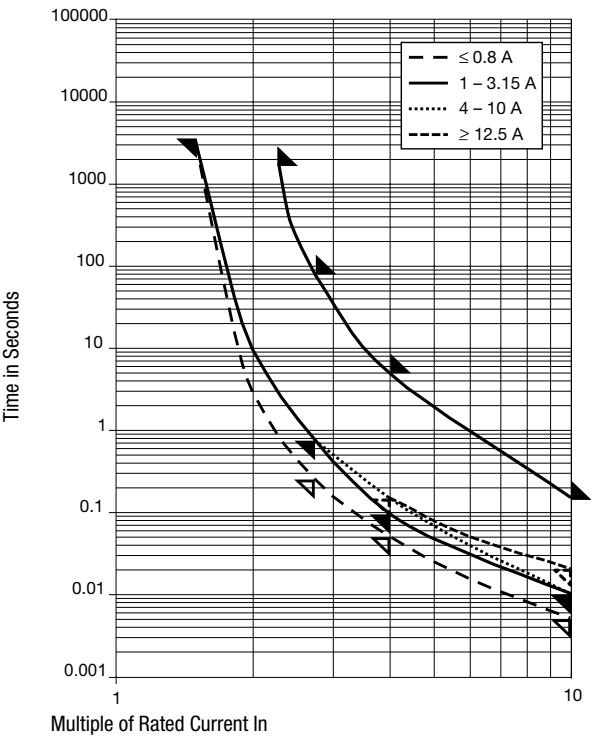
3) UL: 1000 A @ 250 VAC / 1500 A @ 150 VDC

4) UL: 500 A @ 125 VAC, p.f. = 0.7 - 0.8 / 1000 A @ 125 VAC / 500 A @ 250 VAC / 1500 A @ 125 VDC

Packaging Unit

.xx = .11 Plastic Bag (100 pcs.)
 .xx = .21 Blister Tape 38 cm Reel (1000 pcs.)
 .xx = .22 Blister Tape 38 cm Reel (2000 pcs.)

Time-Current Curves



Surface Mount Fuse, 5 x 20 mm, Super-Time-Lag TT, L, 250 VAC, Au plating



UL 248-14 · 250 VAC · Super-Time-Lag TT

**Description**

- Directly solderable on printed circuit boards

Standards

- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- UL File Number: E41599

References

[General Product Information](#)
[Packaging Details](#)

Weblinks

[Approvals, RoHS, CHINA-RoHS, e-Store, SCHURTER-Stock-Check, Distributor-Stock-Check](#)

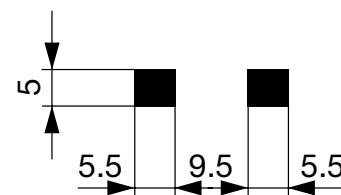
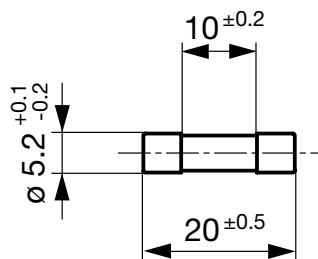
Technical Data

Rated Voltage	250 VAC
Rated Current	0.16 - 4 A
Breaking Capacity	35 A
Characteristic	Super-Time-Lag TT
Mounting	PCB, SMT
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Housing	Glass
Material: Terminals	Gold-Plated Copper Alloy
Unit Weight	1.11 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 , Current Rating, Voltage Rating, Characteristic, Breaking Capacity

Soldering Methods	Reflow
Solderability	245 °C / 3 sec acc. to IEC 60068-2-58, Test Td
Resistance to Soldering Heat	260 °C / 10 sec acc. to IEC 60068-2-58, Test Td
Resistance to Vibration	acc. to IEC 60068-2-6, test Fc
Life Test	MIL-STD-202, Method 108A (1000h @ 0.42*In @ 70°C)
Load Humidity Test	MIL-STD-202, Method 103B (1000h @ 0.1*In @ 0.85 r.H. @ 85°C)
Moisture Resistance Test	MIL-STD-202, Method 106E (50 cycles in a temp./mister chamber)
Terminal Strength	MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute)
Thermal Shock	MIL-STD-202, Method 107D (200 air-to-air cycles from -55 to +125°C)
Case Resistance	acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body)
Resistance to Solvents	MIL-STD-202, Method 215A
Flammability	min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12)

Dimensions

Length  20 mm



Solder pads

Pre-Arcing Time

Rated Current I_n	1.5 x I_n min.	2.1 x I_n max.	2.75 x I_n min.	2.75 x I_n max.	4.0 x I_n min.	4.0 x I_n max.	10.0 x I_n min.	10.0 x I_n max.
0.16 A - 4 A	60 min	30 min	5 s	200 s	1.5 s	40 s	150 ms	3 s

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 I_n max. [mV]	Voltage Drop 1.0 I_n typ. [mV]	Power Dissipation 1.5 I_n typ. [mW]	Melting I^2t 10.0 I_{ntyp} [A ² s]		Order Number
0.16	250	1)	2000	450	300	1	●	0034.5705.xx
0.2	250	1)	1500	400	330	1.73	●	0034.5706.xx
0.25	250	1)	1200	330	350	2.53	●	0034.5707.xx
0.315	250	1)	1000	300	360	4.17	●	0034.5708.xx
0.4	250	1)	900	225	400	5.2	●	0034.5709.xx
0.5	250	1)	800	250	440	7.9	●	0034.5710.xx
0.63	250	1)	700	200	470	13.7	●	0034.5711.xx
0.8	250	1)	500	160	540	19.6	●	0034.5712.xx
1	250	1)	250	150	540	19.4	●	0034.5713.xx
1.25	250	1)	200	105	350	63	●	0034.5714.xx
1.6	250	1)	200	100	650	87	●	0034.5715.xx
2	250	1)	200	100	800	124	●	0034.5716.xx
2.5	250	1)	150	90	850	258	●	0034.5717.xx
3.15	250	1)	100	90	1000	395	●	0034.5718.xx
4	250	1)	100	80	1150	410	●	0034.5719.xx

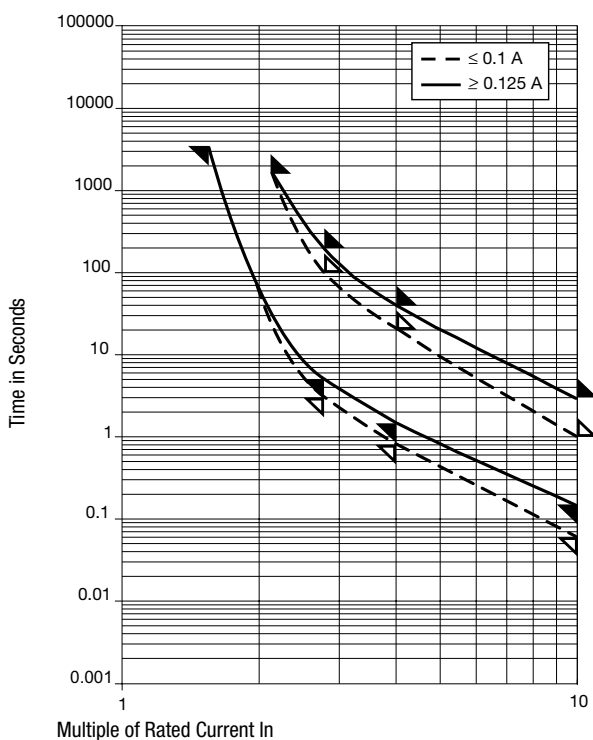
1) 35 A @ 250 VAC

Packaging Unit

.xx = .11 Plastic Bag (100 pcs.)

.xx = .22 Blister Tape 38 cm Reel (2000 pcs.)

Time-Current Curves



Subminiature Fuse, 6.4 mm, Quick-Acting F, 125 VAC, 125 VDC



UL 248-14 · 125 VAC · 125 VDC · Quick-Acting F

**Description**

- Directly solderable on printed circuit boards

Standards

- UL 248-14
- CSA C22.2 no. 248.14

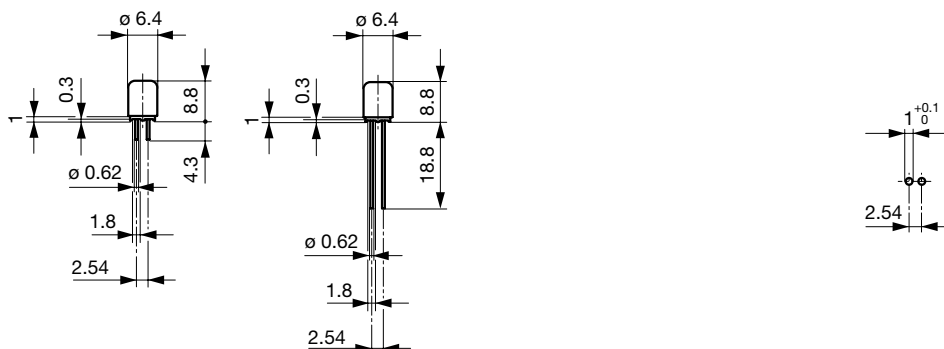
Approvals

- UL File Number: E41599

References[General Product Information](#)[Packaging Details](#)Corresponding Fuseholder [FME](#); [FMR](#); [FMS \(125V\)](#)**Weblinks**
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

Rated Voltage	125 VAC, 125 VDC
Rated Current	0.1 - 5 A
Breaking Capacity	100 A
Characteristic	Quick-Acting F
Mounting	PCB, THT
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Housing	Thermoplastic, UL 94V-0
Material: Terminals	Tin-Plated Copper
Unit Weight	0.34 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Type, Current Rating, Voltage Rating, Characteristic, Approvals

Soldering Methods	Wave, Iron
Solderability	235 °C / 2 sec acc. to IEC 60068-2-20, Test Ta, method 1
Resistance to Soldering Heat	260 °C / 5 sec acc. to IEC 60068-2-20, Test Tb, method 1A
Life Test	MIL-STD-202, Method 108A (1000h @ 0.42*In @ 70 °C)
Terminal Strength	MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute)
Case Resistance	acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body)
Mechanical Shock	MIL-STD-202, Method 213B (Shock 50gn, half sine wave, 11 ms)
Vibration, High Frequency	MIL-STD-202, Method 204D (Shock 20 gn, 20 min, 10-2 kHz, 12 cyc.)
Resistance to Solvents	MIL-STD-202, Method 215A
Flammability	min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12)

DimensionsLength  6.4 mm

Drilling Diagram

Pre-Arcing Time

Rated Current In	1.5 x In max.	2.0 x In max.	2.75 x In max.	4.0 x In max.	10.0 x In max.
0.1 A - 5 A	10 min	5 s	300 ms	30 ms	4 ms

Variants

S = Short Terminals

L = Long Terminals

T = Taped and Reeled

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 In max. [mV]	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.0 In max. [mW]	Melting I ² t 10.0 Intyp. [A ² s]				S	L	T	Order Number
0.1	125	125	1)	1000	690	100	0.0007	●	●	●				0034.4209
0.125	125	125	1)	1000	960	100	0.0015	●	●	●				0034.4210
0.16	125	125	1)	1000	850	100	0.0036	●	●	●				0034.4211
0.2	125	125	1)	700	680	100	0.0033	●	●	●				0034.4212
0.25	125	125	1)	700	620	100	0.0055	●	●	●				0034.4213
0.315	125	125	1)	700	680	200	0.025	●	●	●				0034.4214
0.4	125	125	1)	400	180	100	0.013	●	●	●				0034.4215
0.5	125	125	1)	400	180	100	0.02	●	●	●				0034.4216
0.63	125	125	1)	400	180	100	0.045	●	●	●				0034.4217
0.71	125	125	1)	400	140	100	0.045	●	●	●				0034.4218
0.75	125	125	1)	400	170	100	0.02	●	●	●				0034.4219
0.8	125	125	1)	400	150	100	0.04	●	●	●				0034.4220
1	125	125	1)	400	150	100	0.07	●	●	●				0034.4221
1.25	125	125	1)	190	150	200	0.12	●	●	●				0034.4222
1.6	125	125	1)	190	150	200	0.29	●	●	●				0034.4223
2	125	125	1)	190	130	200	0.43	●	●	●				0034.4224
2.5	125	125	1)	190	120	300	0.6	●	●	●				0034.4225
3.15	125	125	1)	190	120	400	1.1	●	●	●				0034.4226
4	125	125	1)	190	120	500	1.9	●	●	●				0034.4227
5	125	125	1)	190	120	600	3	●	●	●				0034.4228
0.1	125	125	1)	1000	690	100	0.0007	●	●		●			0034.4239
0.125	125	125	1)	1000	960	100	0.0015	●	●		●			0034.4240
0.16	125	125	1)	1000	850	100	0.0036	●	●		●			0034.4241
0.2	125	125	1)	700	680	100	0.0033	●	●		●			0034.4242
0.25	125	125	1)	700	620	100	0.0055	●	●		●			0034.4243
0.315	125	125	1)	700	680	200	0.025	●	●		●			0034.4244
0.4	125	125	1)	400	180	100	0.013	●	●		●			0034.4245
0.5	125	125	1)	400	180	100	0.02	●	●		●			0034.4246
0.63	125	125	1)	400	180	100	0.045	●	●		●			0034.4247
0.71	125	125	1)	400	140	100	0.045	●	●		●			0034.4248
0.75	125	125	1)	400	170	100	0.02	●	●		●			0034.4249
0.8	125	125	1)	400	150	100	0.04	●	●		●			0034.4250
1	125	125	1)	400	150	100	0.07	●	●		●			0034.4251
1.25	125	125	1)	190	150	200	0.12	●	●		●			0034.4252
1.6	125	125	1)	190	150	200	0.29	●	●		●			0034.4253
2	125	125	1)	190	130	200	0.43	●	●		●			0034.4254
2.5	125	125	1)	190	120	300	0.6	●	●		●			0034.4255
3.15	125	125	1)	190	120	400	1.1	●	●		●			0034.4256
4	125	125	1)	190	120	500	1.9	●	●		●			0034.4257
5	125	125	1)	190	120	600	3	●	●		●			0034.4258
0.1	125	125	1)	1000	690	100	0.0007	●	●			●		0034.4539
0.125	125	125	1)	1000	960	100	0.0015	●	●			●		0034.4540
0.16	125	125	1)	1000	850	100	0.0036	●	●			●		0034.4541
0.2	125	125	1)	700	680	100	0.0033	●	●			●		0034.4542
0.25	125	125	1)	700	620	100	0.0055	●	●			●		0034.4543
0.315	125	125	1)	700	680	200	0.025	●	●			●		0034.4544
0.4	125	125	1)	400	180	100	0.013	●	●			●		0034.4545
0.5	125	125	1)	400	180	100	0.02	●	●			●		0034.4546
0.63	125	125	1)	400	180	100	0.045	●	●			●		0034.4547
0.71	125	125	1)	400	140	100	0.045	●	●			●		0034.4548
0.75	125	125	1)	400	170	100	0.02	●	●			●		0034.4549

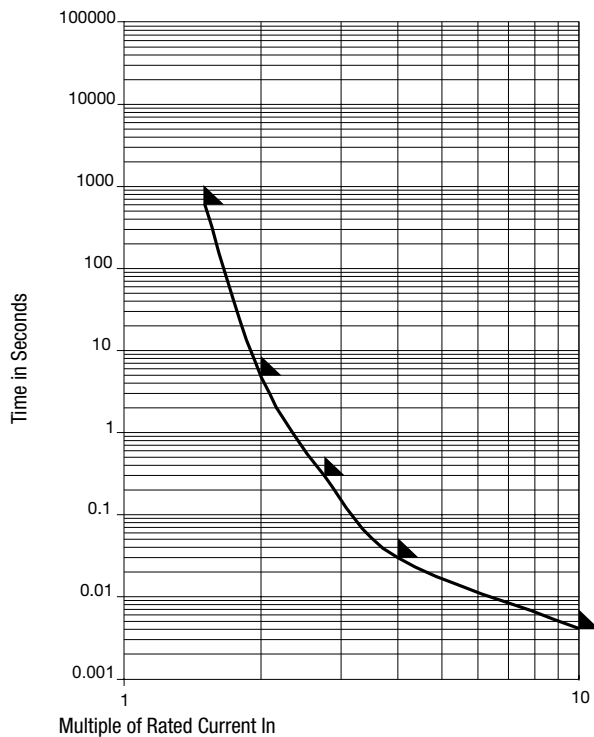
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0.8	125	125	1)	400	150	100	0.04	●	●				●	0034.4550
1	125	125	1)	400	150	100	0.07	●	●				●	0034.4551
1.25	125	125	1)	190	150	200	0.12	●	●				●	0034.4552
1.6	125	125	1)	190	150	200	0.29	●	●				●	0034.4553
2	125	125	1)	190	130	200	0.43	●	●				●	0034.4554
2.5	125	125	1)	190	120	300	0.6	●	●				●	0034.4555
3.15	125	125	1)	190	120	400	1.1	●	●				●	0034.4556
4	125	125	1)	190	120	500	1.9	●	●				●	0034.4557
5	125	125	1)	190	120	600	3	●	●				●	0034.4558

1) 100 A @ 125 VAC/DC

Packaging Unit

S + L = Plastic Bag (100 pcs.)

T = Taped 36 cm Reel (1000 pcs.)

Time-Current Curves

Subminiature Fuse, 8.5 mm, Quick-Acting F, 250 VAC, 250 VDC



IEC 60127-3 · 250 VAC · Quick-Acting F

**Description**

- Directly solderable on printed circuit boards
- Low Breaking Capacity

Standards

- IEC 60127-3/3
- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- VDE License Number: 101035
- UL File Number: E41599

References

[General Product Information](#)

[Packaging Details](#)

Corresponding Fuseholder [FMS \(250V\)](#)

Fuse Kit [Fuse Kit Microfuse](#)

Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

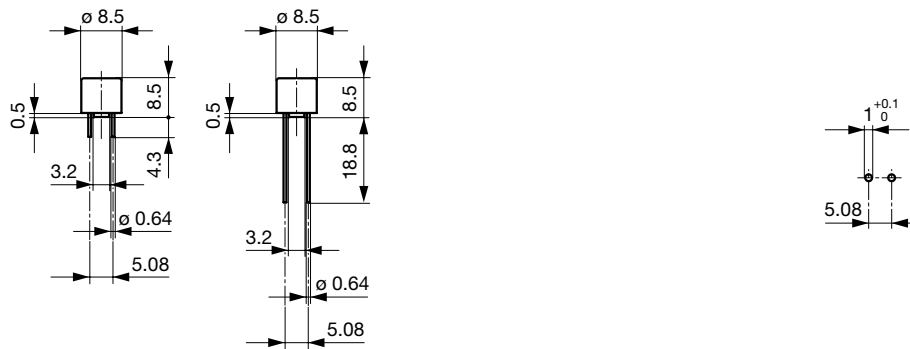
Technical Data

Rated Voltage	250 VAC
Rated Current	0.04 - 5 A
Breaking Capacity	35 A
Characteristic	Quick-Acting F
Mounting	PCB, THT
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Housing	Thermoplastic, UL 94V-0
Material: Terminals	Tin-Plated Copper
Unit Weight	0.5 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Type, Current Rating, Voltage Rating, Characteristic, Approvals

Soldering Methods	Wave, Iron
Solderability	235 °C / 2 sec acc. to IEC 60068-2-20, Test Ta, method 1
Resistance to Soldering Heat	260 °C / 5 sec acc. to IEC 60068-2-20, Test Tb, method 1A
Resistance to Vibration	acc. to IEC 60068-2-6, test Fc
Current Carrying Capacity	acc. to EIA/IS-722, Test 4.3.3
Life Test	MIL-STD-202, Method 108A (1000h @ 0.42*In @ 70°C)
Load Humidity Test	MIL-STD-202, Method 103B (1000h @ 0.1*In @ 0.85 r.H. @ 85°C)
Moisture Resistance Test	MIL-STD-202, Method 106E (50 cycles in a temp./mister chamber)
Terminal Strength	MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute)
Thermal Shock	MIL-STD-202, Method 107D (200 air-to-air cycles from -55 to +125°C)
Case Resistance	acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body)
Mechanical Shock	MIL-STD-202, Method 213B (Shock 50gn, half sine wave, 11 ms)
Resistance to Solvents	MIL-STD-202, Method 215A
Flammability	min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12)

Dimensions

Length 8.5 mm



Drilling Diagram

Pre-Arcing Time

Rated Current In	1.5 x In min.	2.1 x In max.	2.75 x In min.	2.75 x In max.	4.0 x In min.	4.0 x In max.	10.0 x In max.
0.04 A - 5 A	60 min	30 min	10 ms	3 s	3 ms	300 ms	20 ms

Variants

S = Short Terminals

L = Long Terminals

T = Taped and Reeled

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 In max. [mV]	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.5 I _n max. [mW]	Melting Pt 10.0 Intyp. [A ² s]				S	L	T	Order Number
0.04	250	1)	-	400	-	0.00016	●		●	●			0034.6000
0.05	250	1)	850	460	110	0.0004	●	●	●		●		0034.6001
0.063	250	1)	750	330	120	0.001	●	●	●		●		0034.6002
0.08	250	1)	650	280	140	0.001	●	●	●		●		0034.6003
0.1	250	1)	600	300	160	0.002	●	●	●		●		0034.6004
0.125	250	1)	550	210	180	0.006	●	●	●		●		0034.6005
0.16	250	1)	500	460	210	0.014	●	●	●		●		0034.6006
0.2	250	1)	480	470	250	0.024	●	●	●		●		0034.6007
0.25	250	1)	440	360	290	0.058	●	●	●		●		0034.6008
0.315	250	1)	400	345	330	0.104	●	●	●		●		0034.6009
0.4	250	1)	370	80	390	0.044	●	●	●		●		0034.6010
0.5	250	1)	350	75	460	0.09	●	●	●		●		0034.6011
0.63	250	1)	320	70	530	0.15	●	●	●		●		0034.6012
0.8	250	1)	300	70	630	0.22	●	●	●		●		0034.6013
1	250	1)	280	70	740	0.33	●	●	●		●		0034.6014
1.25	250	1)	280	65	920	0.68	●	●	●		●		0034.6015
1.6	250	1)	250	70	1000	0.94	●	●	●		●		0034.6016
2	250	1)	240	70	1360	1.3	●	●	●		●		0034.6017
2.5	250	1)	200	65	1310	1.9	●	●	●		●		0034.6018
3.15	250	1)	180	65	1490	5.4	●	●	●		●		0034.6019
4	250	2)	160	60	1680	7.9		●		●	●		0034.6020
5	250	2)	150	60	1970	11.2		●		●	●		0034.6021
0.04	250	1)	-	400	-	0.00016		●		●		●	0034.6030
0.05	250	1)	850	460	110	0.0004	●	●	●			●	0034.6031
0.063	250	1)	750	330	120	0.001	●	●	●			●	0034.6032
0.08	250	1)	650	280	140	0.001	●	●	●			●	0034.6033
0.1	250	1)	600	300	160	0.002	●	●	●			●	0034.6034
0.125	250	1)	550	210	180	0.006	●	●	●			●	0034.6035
0.16	250	1)	500	460	210	0.014	●	●	●			●	0034.6036
0.2	250	1)	480	470	250	0.024	●	●	●			●	0034.6037

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 I _n max. [mV]	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipation 1.5 I _n max. [mW]	Melting I _t 10.0 I _n typ. [A²s]	   CCC	S	L	T	Order Number
0.25	250	1)	440	360	290	0.058	● ● ●	●			0034.6038
0.315	250	1)	400	345	330	0.104	● ● ●	●			0034.6039
0.4	250	1)	370	80	390	0.044	● ● ●	●			0034.6040
0.5	250	1)	350	75	460	0.09	● ● ●	●			0034.6041
0.63	250	1)	320	70	530	0.15	● ● ●	●			0034.6042
0.8	250	1)	300	70	630	0.22	● ● ●	●			0034.6043
1	250	1)	280	70	740	0.33	● ● ●	●			0034.6044
1.25	250	1)	280	65	920	0.68	● ● ●	●			0034.6045
1.6	250	1)	250	70	1000	0.94	● ● ●	●			0034.6046
2	250	1)	240	70	1360	1.3	● ● ●	●			0034.6047
2.5	250	1)	200	65	1310	1.9	● ● ●	●			0034.6048
3.15	250	1)	180	65	1490	5.4	● ● ●	●			0034.6049
4	250	2)	160	60	1680	7.9	● ● ●	●	●		0034.6050
5	250	2)	150	60	1970	11.2	● ● ●	●	●		0034.6051
0.04	250	1)	-	400	-	0.00016	● ● ●	●		●	0034.6060
0.05	250	1)	850	460	110	0.0004	● ● ●			●	0034.6061
0.063	250	1)	750	330	120	0.001	● ● ●			●	0034.6062
0.08	250	1)	650	280	140	0.001	● ● ●			●	0034.6063
0.1	250	1)	600	300	160	0.002	● ● ●			●	0034.6064
0.125	250	1)	550	210	180	0.006	● ● ●			●	0034.6065
0.16	250	1)	500	460	210	0.014	● ● ●			●	0034.6066
0.2	250	1)	480	470	250	0.024	● ● ●			●	0034.6067
0.25	250	1)	440	360	290	0.058	● ● ●			●	0034.6068
0.315	250	1)	400	345	330	0.104	● ● ●			●	0034.6069
0.4	250	1)	370	80	390	0.044	● ● ●			●	0034.6070
0.5	250	1)	350	75	460	0.09	● ● ●			●	0034.6071
0.63	250	1)	320	70	530	0.15	● ● ●			●	0034.6072
0.8	250	1)	300	70	630	0.22	● ● ●			●	0034.6073
1	250	1)	280	70	740	0.33	● ● ●			●	0034.6074
1.25	250	1)	280	65	920	0.68	● ● ●			●	0034.6075
1.6	250	1)	250	70	1000	0.94	● ● ●			●	0034.6076
2	250	1)	240	70	1360	1.3	● ● ●			●	0034.6077
2.5	250	1)	200	65	1310	1.9	● ● ●			●	0034.6078
3.15	250	1)	180	65	1490	5.4	● ● ●			●	0034.6079
4	250	2)	160	60	1680	7.9	● ● ●	●	●		0034.6080
5	250	2)	150	60	1970	11.2	● ● ●	●	●		0034.6081

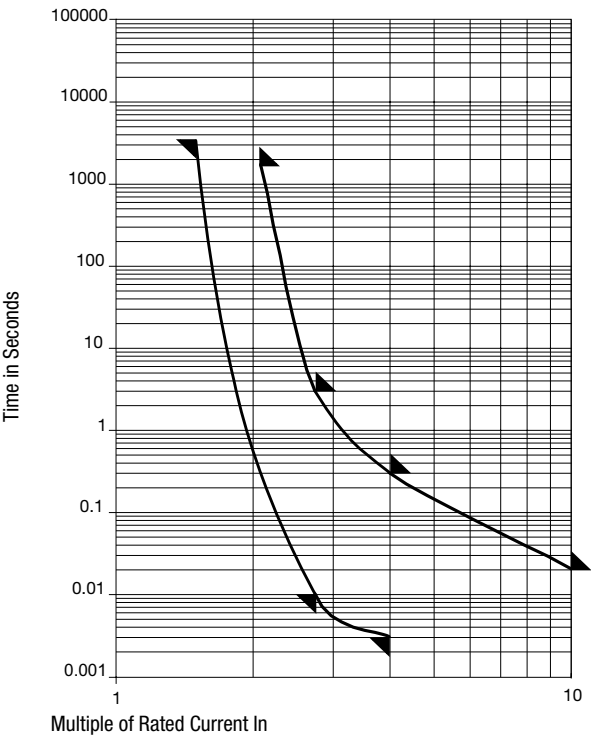
1) 35 A @ 250 VAC

2) 10 I_n @ 250 VAC**Packaging Unit**

S + L = Plastic Bag (100 pcs.)

T = Taped 36 cm Reel (750 pcs.)

Time-Current Curves



Subminiature Fuse, 8.5 mm, Time-Lag T, 250 VAC, 35 A



IEC 60127-3 · 250VAC · Time-Lag T

**Description**

- Directly solderable on printed circuit boards
- Low Breaking Capacity

Standards

- IEC 60127-3/4
- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- VDE License Number: 40002080
- UL File Number: E41599

Applications

- Primary Protection on PCB
- Power Supply Adapter for e.g. laptops
- SMPS (Switching Mode Power Supply) for TV's and DVD's

References

[General Product Information](#)

[Packaging Details](#)

Corresponding Fuseholder [FMS \(250V\)](#)

Fuse Kit [Fuse Kit Microfuse](#)

Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

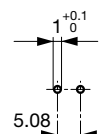
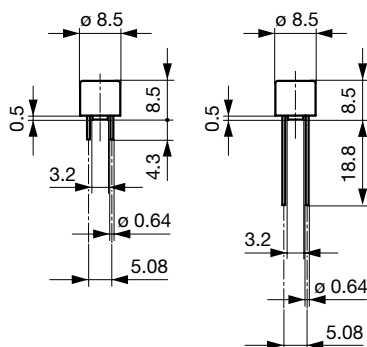
Technical Data

Rated Voltage	250VAC
Rated Current	0.05 - 6.3A
Breaking Capacity	35A - 63A
Characteristic	Time-Lag T
Mounting	PCB,THT
Admissible Ambient Air Temp.	-55°C to 125°C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Housing	Thermoplastic, UL 94V-0
Material: Terminals	Tin-Plated Copper
Unit Weight	0.53 g
Storage Conditions	0°C to 60°C, max. 70% r.h.
Product Marking	Type, Current Rating, Voltage Rating, Characteristic, Approvals

Soldering Methods	Wave, Iron
Solderability	235°C / 2 sec acc. to IEC 60068-2-20, Test Ta, method 1
Resistance to Soldering Heat	260°C / 5 sec acc. to IEC 60068-2-20, Test Tb, method 1A
Moisture Resistance Test	MIL-STD-202, Method 106E (50 cycles in a temp./mister chamber)
Terminal Strength	MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute)
Case Resistance	acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body)
Mechanical Shock	MIL-STD-202, Method 213B (Shock 50gn, half sine wave, 11 ms)
Vibration, High Frequency	MIL-STD-202, Method 204D (Shock 20 gn, 20 min, 10-2 kHz, 12 cyc.)
Resistance to Solvents	MIL-STD-202, Method 215A

Dimensions

Length 8.5 mm



Drilling Diagram

Pre-Arcing Time

Rated Current In	1.5 x In min.	2.1 x In max.	2.75 x In min.	2.75 x In max.	4.0 x In min.	4.0 x In max.	10.0 x In min.	10.0 x In max.
0.05 A - 6.3 A	60 min	120 s	400 ms	10 s	150 ms	3 s	20 ms	150 ms

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

S = Short Terminals

L = Long Terminals

T = Taped and Reeled

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 In max. [mV]	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.5 I _n max. [mW]	Melting I ² t 10.0 Intyp. [A ² s]								S	L	T	Order Number
0.05	250	1)	550	415	155	0.03	●				●	●	●				0034.6602
0.063	250	1)	480	420	160	0.05	●				●	●	●				0034.6603
0.08	250	1)	400	360	165	0.06	●				●	●	●				0034.6604
0.1	250	1)	350	320	170	0.08	●				●	●	●				0034.6605
0.125	250	1)	300	270	180	0.12	●				●	●	●				0034.6606
0.16	250	1)	280	190	190	0.24	●				●	●	●				0034.6607
0.2	250	1)	260	150	200	0.35	●				●	●	●				0034.6608
0.25	250	1)	240	120	220	0.6	●				●	●	●				0034.6609
0.315	250	1)	220	120	250	0.8	●				●	●	●				0034.6610
0.4	250	1)	200	110	280	1.1	●				●	●	●				0034.6611
0.5	250	1)	190	100	310	2.5	●				●	●	●				0034.6612
0.63	250	1)	180	90	360	4	●				●	●	●				0034.6613
0.8	250	1)	160	80	430	8	●				●	●	●				0034.6614
1	250	1)	140	70	500	12	●			●	●	●	●				0034.6615
1.25	250	1)	130	70	600	15	●			●	●	●	●				0034.6616
1.6	250	1)	120	60	730	30	●			●	●	●	●				0034.6617
2	250	1)	100	60	870	34	●			●	●	●	●				0034.6618
2.5	250	1)	100	50	1000	55	●			●	●	●	●				0034.6619
3.15	250	1)	100	50	1200	76	●			●	●	●	●				0034.6620
4	250	2)	100	50	1400	80	●			●	●	●	●				0034.6621
5	250	2)	-	50	-	230		●	●			●	●	●			0034.6622
6.3	250	2)	-	45	-	360		●	●			●	●	●			0034.6623
0.05	250	1)	550	415	155	0.03	●				●	●	●				0034.6702
0.063	250	1)	480	420	160	0.05	●				●	●	●				0034.6703
0.08	250	1)	400	360	165	0.06	●				●	●	●				0034.6704
0.1	250	1)	350	320	170	0.08	●				●	●	●				0034.6705
0.125	250	1)	300	270	180	0.12	●				●	●	●				0034.6706
0.16	250	1)	280	190	190	0.24	●				●	●	●				0034.6707
0.2	250	1)	260	150	200	0.35	●				●	●	●				0034.6708
0.25	250	1)	240	120	220	0.6	●				●	●	●				0034.6709
0.315	250	1)	220	120	250	0.8	●				●	●	●				0034.6710
0.4	250	1)	200	110	280	1.1	●				●	●	●				0034.6711
0.5	250	1)	190	100	310	2.5	●				●	●	●				0034.6712
0.63	250	1)	180	90	360	4	●				●	●	●				0034.6713
0.8	250	1)	160	80	430	8	●				●	●	●				0034.6714
1	250	1)	140	70	500	12	●			●	●	●	●				0034.6715
1.25	250	1)	130	70	600	15	●			●	●	●	●				0034.6716
1.6	250	1)	120	60	730	30	●			●	●	●	●				0034.6717
2	250	1)	100	60	870	34	●			●	●	●	●				0034.6718
2.5	250	1)	100	50	1000	55	●			●	●	●	●				0034.6719
3.15	250	1)	100	50	1200	76	●			●	●	●	●				0034.6720
4	250	2)	100	50	1400	80	●			●	●	●	●				0034.6721
5	250	2)	-	50	-	230		●	●			●	●	●			0034.6722
6.3	250	2)	-	45	-	360		●	●			●	●	●			0034.6723
0.05	250	1)	550	415	155	0.03	●				●	●	●			●	0034.6802
0.063	250	1)	480	420	160	0.05	●				●	●	●			●	0034.6803

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 I _n max. [mV]	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipation 1.5 I _n max. [mW]	Melting I ² t 10.0 Intyp. [A ² s]	•	•	•	•	•	S	L	T	Order Number
0.08	250	1)	400	360	165	0.06	•	•	•	•	•				0034.6804
0.1	250	1)	350	320	170	0.08	•	•	•	•	•				0034.6805
0.125	250	1)	300	270	180	0.12	•	•	•	•	•				0034.6806
0.16	250	1)	280	190	190	0.24	•	•	•	•	•				0034.6807
0.2	250	1)	260	150	200	0.35	•	•	•	•	•				0034.6808
0.25	250	1)	240	120	220	0.6	•	•	•	•	•				0034.6809
0.315	250	1)	220	120	250	0.8	•	•	•	•	•				0034.6810
0.4	250	1)	200	110	280	1.1	•	•	•	•	•				0034.6811
0.5	250	1)	190	100	310	2.5	•	•	•	•	•				0034.6812
0.63	250	1)	180	90	360	4	•	•	•	•	•				0034.6813
0.8	250	1)	160	80	430	8	•	•	•	•	•				0034.6814
1	250	1)	140	70	500	12	•	•	•	•	•				0034.6815
1.25	250	1)	130	70	600	15	•	•	•	•	•				0034.6816
1.6	250	1)	120	60	730	30	•	•	•	•	•				0034.6817
2	250	1)	100	60	870	34	•	•	•	•	•				0034.6818
2.5	250	1)	100	50	1000	55	•	•	•	•	•				0034.6819
3.15	250	1)	100	50	1200	76	•	•	•	•	•				0034.6820
4	250	2)	100	50	1400	80	•	•	•	•	•				0034.6821
5	250	2)	-	50	-	230	•	•		•	•				0034.6822
6.3	250	2)	-	45	-	360	•	•		•	•				0034.6823

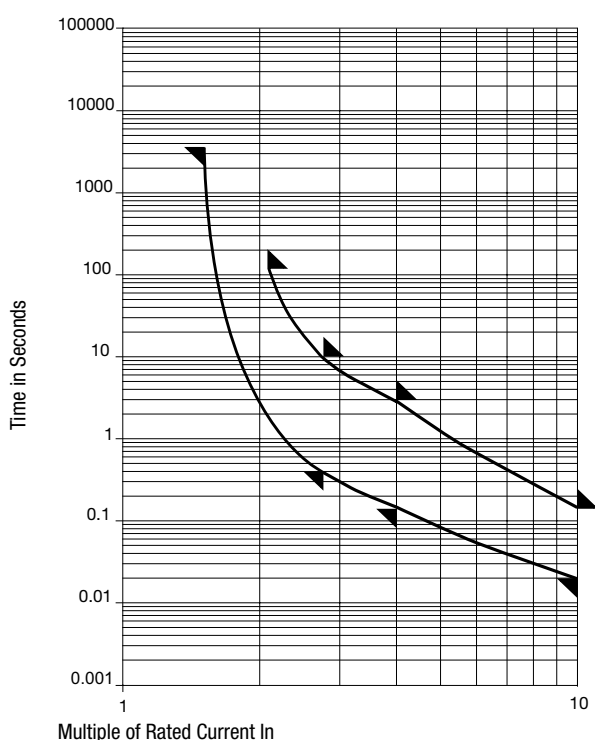
1) IEC: 35 A @ 250 VAC

1) UL: 35 A @ 250 VAC / 50 A @ 125 VDC

2) IEC: 10 I_n @ 250 VAC2) UL: 10 I_n @ 250 VAC / 10 I_n @ 125 VDC**Packaging Unit**

S + L = Plastic Bag (100 pcs.)

T = Taped 36 cm Reel (750 pcs.)

Time-Current Curves

Subminiature Fuse, 8.5 mm, Time-Lag T, 250 VAC, cULus



UL 248-14 · 250VAC · Time-Lag T

**Description**

- Directly solderable on printed circuit boards
- Low Breaking Capacity

Standards

- UL 248-14
- CSA C22.2 no. 248.14

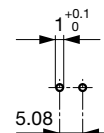
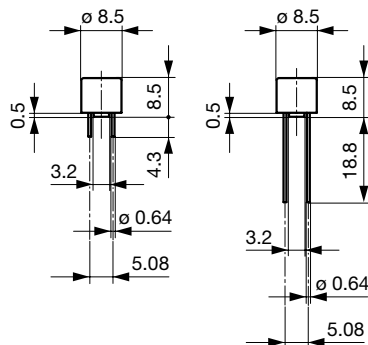
Approvals

- UL File Number: E41599

References[General Product Information](#)[Packaging Details](#)Corresponding Fuseholder [FMS \(250V\)](#)**Weblinks**
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

Rated Voltage	250VAC
Rated Current	0.063 - 10A
Breaking Capacity	50A
Characteristic	Time-Lag T
Mounting	PCB,THT
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Housing	Thermoplastic, UL 94V-0
Material: Terminals	Tin-Plated Copper
Unit Weight	0.53 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Type, Current Rating, Voltage Rating, Characteristic, Approvals

Soldering Methods	Wave, Iron
Solderability	235 °C / 2 sec acc. to IEC 60068-2-20, Test Ta, method 1
Resistance to Soldering Heat	260 °C / 5 sec acc. to IEC 60068-2-20, Test Tb, method 1A
Current Carrying Capacity	acc. to EIA/IS-722, Test 4.3.3
Moisture Resistance Test	MIL-STD-202, Method 106E (50 cycles in a temp./mister chamber)
Terminal Strength	MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute)
Case Resistance	acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body)
Mechanical Shock	MIL-STD-202, Method 213B (Shock 50gn, half sine wave, 11 ms)
Vibration, High Frequency	MIL-STD-202, Method 204D (Shock 20 gn, 20 min, 10-2 kHz, 12 cyc.)
Resistance to Solvents	MIL-STD-202, Method 215A
Flammability	min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12)

DimensionsLength  8.5 mm

Drilling Diagram

Pre-Arcing Time

Rated Current I_n	1.0 x I_n min.	2.0 x I_n max.
0.063 A - 10 A	4 h	60 s

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

S = Short Terminals

L = Long Terminals

T = Taped and Reeled

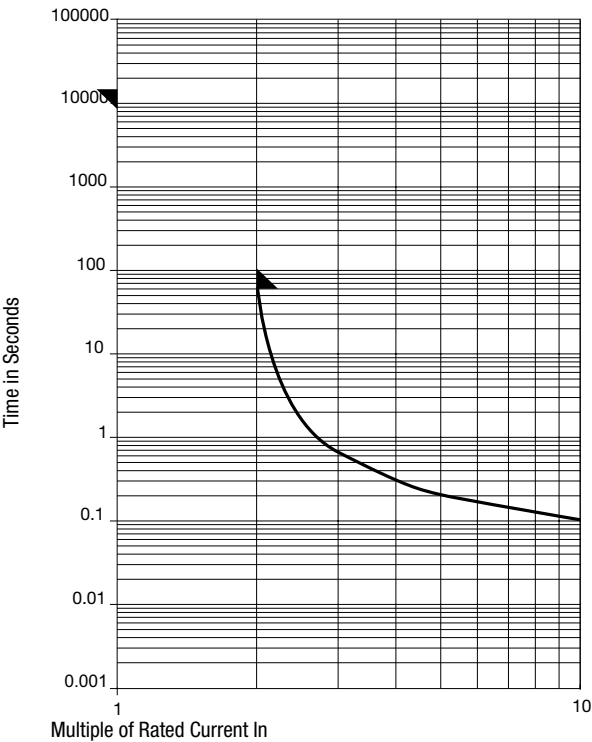
Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 I_n typ. [mV]	Power Dissipation 1.0 I_n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]		S	L	T	Order Number
0.063	250	1)	544	37	0.0176	● ● ●				0034.7103
0.08	250	1)	413	38	0.0313	● ● ●				0034.7104
0.1	250	1)	318	35	0.0456	● ● ●				0034.7105
0.125	250	1)	289	40	0.0567	● ● ●				0034.7106
0.16	250	1)	219	38	0.0692	● ● ●				0034.7107
0.2	250	1)	262	60	0.133	● ● ●				0034.7108
0.25	250	1)	202	55	0.258	● ● ●				0034.7109
0.315	250	1)	168	49	0.361	● ● ●				0034.7110
0.4	250	1)	159	69	0.528	● ● ●				0034.7111
0.5	250	1)	143	78	0.898	● ● ●				0034.7112
0.63	250	1)	124	85	2.24	● ● ●				0034.7113
0.8	250	1)	114	98	4.05	● ● ●				0034.7114
1	250	1)	100	107	6.85	● ● ●				0034.7115
1.25	250	1)	94	127	7.93	● ● ●				0034.7116
1.6	250	1)	85	145	17.5	● ● ●				0034.7117
2	250	1)	80	175	28.6	● ● ●				0034.7118
2.5	250	1)	75	205	40.9	● ● ●				0034.7119
3.15	250	1)	71	240	55	● ● ●				0034.7120
4	250	1)	72	303	67.2	● ● ●				0034.7121
5	250	1)	70	376	142	● ● ●				0034.7122
6.3	250	1)	68	488	287	● ● ●				0034.7123
8	250	1)	50	445	422	● ● ●				0034.7124
10	250	1)	50	630	564	● ● ●				0034.7125
0.063	250	1)	544	37	0.0176	● ● ●			●	0034.7203
0.08	250	1)	413	38	0.0313	● ● ●			●	0034.7204
0.1	250	1)	318	35	0.0456	● ● ●			●	0034.7205
0.125	250	1)	289	40	0.0567	● ● ●			●	0034.7206
0.16	250	1)	219	38	0.0692	● ● ●			●	0034.7207
0.2	250	1)	262	60	0.133	● ● ●			●	0034.7208
0.25	250	1)	202	55	0.258	● ● ●			●	0034.7209
0.315	250	1)	168	49	0.361	● ● ●			●	0034.7210
0.4	250	1)	159	69	0.528	● ● ●			●	0034.7211
0.5	250	1)	143	78	0.898	● ● ●			●	0034.7212
0.63	250	1)	124	85	2.24	● ● ●			●	0034.7213
0.8	250	1)	114	98	4.05	● ● ●			●	0034.7214
1	250	1)	100	107	6.85	● ● ●			●	0034.7215
1.25	250	1)	94	127	7.93	● ● ●			●	0034.7216
1.6	250	1)	85	145	17.5	● ● ●			●	0034.7217
2	250	1)	80	175	28.6	● ● ●			●	0034.7218
2.5	250	1)	75	205	40.9	● ● ●			●	0034.7219
3.15	250	1)	71	240	55	● ● ●			●	0034.7220
4	250	1)	72	303	67.2	● ● ●			●	0034.7221
5	250	1)	70	376	142	● ● ●			●	0034.7222
6.3	250	1)	68	488	287	● ● ●			●	0034.7223
8	250	1)	50	445	422	● ● ●			●	0034.7224
10	250	1)	50	630	564	● ● ●			●	0034.7225

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.0 In typ. [mW]	Melting I ² t 10.0 In typ. [A ² s]	c(UL)usCCC			S	L	T	Order Number
0.063	250	1)	544	37	0.0176	●	●	●				0034.7303
0.08	250	1)	413	38	0.0313	●	●	●				0034.7304
0.1	250	1)	318	35	0.0456	●	●	●				0034.7305
0.125	250	1)	289	40	0.0567	●	●	●				0034.7306
0.16	250	1)	219	38	0.0692	●	●	●				0034.7307
0.2	250	1)	262	60	0.133	●	●	●				0034.7308
0.25	250	1)	202	55	0.258	●	●	●				0034.7309
0.315	250	1)	168	49	0.361	●	●	●				0034.7310
0.4	250	1)	159	69	0.528	●	●	●				0034.7311
0.5	250	1)	143	78	0.898	●	●	●				0034.7312
0.63	250	1)	124	85	2.24	●	●	●				0034.7313
0.8	250	1)	114	98	4.05	●	●	●				0034.7314
1	250	1)	100	107	6.85	●	●	●				0034.7315
1.25	250	1)	94	127	7.93	●	●	●				0034.7316
1.6	250	1)	85	145	17.5	●	●	●				0034.7317
2	250	1)	80	175	28.6	●	●	●				0034.7318
2.5	250	1)	75	205	40.9	●	●	●				0034.7319
3.15	250	1)	71	240	55	●	●	●				0034.7320
4	250	1)	72	303	67.2	●	●	●				0034.7321
5	250	1)	70	376	142	●	●	●				0034.7322
6.3	250	1)	68	488	287	●	●	●				0034.7323
8	250	1)	50	445	422	●	●	●				0034.7324
10	250	1)	50	630	564	●	●	●				0034.7325

1) 50 A @ 250 VAC

Packaging Unit S + L = Plastic Bag (100 pcs.)
 T = Taped 36 cm Reel (750 pcs.)

Time-Current Curves



Subminiature Fuse, 8.5 mm, Time-Lag T, 250 VAC, 100 A



IEC 60127-3 · 250VAC · Time-Lag T

**Description**

- Directly solderable on printed circuit boards
- High Breaking Capacity

Standards

- IEC 60127-3/4
- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- VDE License Number: 40008838
- UL File Number: E41599

Applications

- Primary Protection on PCB
- Power Supply Adapter for e.g. laptops
- SMPS (Switching Mode Power Supply) for TV's and DVD's

References

[General Product Information](#)

[Packaging Details](#)

Corresponding Fuseholder [FMS \(250V\)](#)

Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

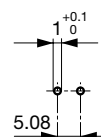
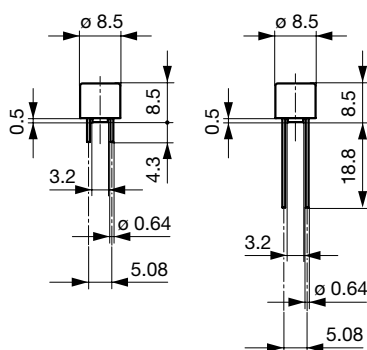
Technical Data

Rated Voltage	250VAC
Rated Current	0.8 - 10A
Breaking Capacity	100A
Characteristic	Time-Lag T
Mounting	PCB,THT
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Housing	Thermoplastic, UL 94V-0
Material: Terminals	Tin-Plated Copper
Unit Weight	0.78 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	Type, Current Rating, Voltage Rating, Characteristic, Approvals

Soldering Methods	Wave, Iron
Solderability	235 °C / 2 sec acc. to IEC 60068-2-20, Test Ta, method 1
Resistance to Soldering Heat	260 °C / 5 sec acc. to IEC 60068-2-20, Test Tb, method 1A
Resistance to Vibration	acc. to IEC 60068-2-6, test Fc
Life Test	MIL-STD-202, Method 108A (1000h @ 0.42*ln @ 70°C)
Load Humidity Test	MIL-STD-202, Method 103B (1000h @ 0.1*ln @ 0.85 r.H. @ 85°C)
Moisture Resistance Test	MIL-STD-202, Method 106E (50 cycles in a temp./mister chamber)
Terminal Strength	MIL-STD-202, Method 211A (Deflection of board 1 mm for 1 minute)
Case Resistance	acc. to EIA/IS-722, Test 4.7 >100 MΩ (between leads and body)
Mechanical Shock	MIL-STD-202, Method 213B (Shock 50gn, half sine wave, 11 ms)
Resistance to Solvents	MIL-STD-202, Method 215A
Flammability	min. UL 94V-1 (acc. to EIA/IS-722, Test 4.12)

Dimensions

Length 8.5 mm



Drilling Diagram

Pre-Arcing Time

Rated Current In	1.0 x In min.	1.5 x In min.	2.0 x In max.	2.1 x In max.	2.75 x In min.	2.75 x In max.	4.0 x In min.	4.0 x In max.	10.0 x In min.	10.0 x In max.
0.8 A - 6.3 A	-	60 min	-	120 s	400 ms	10 s	150 ms	3 s	20 ms	150 ms
8 A - 10 A	4 h	-	60 s	-	-	-	-	-	-	-

Variants

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

S = Short Terminals

L = Long Terminals

T = Taped and Reeled

Rated Cur- rent [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 I _n max. [mV]	Voltage Drop 1.0 I _n typ. [mV]	Power Dissi- pation 1.5 I _n max. [mW]	Melting I ² t 10.0 Intyp. [A ² s]										S	L	T	Order Number
0.8	250	1)	160	150	430	1.5	●				●		●		●	●			0034.6914
1	250	1)	140	130	500	4.4	●				●	●	●		●	●			0034.6915
1.25	250	1)	130	120	600	6.3	●				●	●	●		●	●			0034.6916
1.6	250	1)	120	110	730	10	●				●	●	●		●	●			0034.6917
2	250	1)	100	85	870	16	●				●	●	●		●	●			0034.6918
2.5	250	1)	100	85	1000	32	●				●	●	●		●	●			0034.6919
3.15	250	1)	100	75	1200	57	●				●	●	●		●	●			0034.6920
4	250	1)	100	75	1400	77	●				●	●	●		●	●			0034.6921
5	250	1)	-	70	-	155					●			●		●			0034.6922
6.3	250	1)	-	65	-	262		●			●	●		●		●			0034.6923
8	250	1)	-	62	-	397			●					●		●			0034.6924
10	250	1)	-	62	-	440			●					●		●			0034.6925
0.8	250	1)	160	150	430	1.5	●				●		●		●	●			0034.6944
1	250	1)	140	130	500	4.4	●				●	●	●		●	●			0034.6945
1.25	250	1)	130	120	600	6.3	●				●	●	●		●	●			0034.6946
1.6	250	1)	120	110	730	10	●				●	●	●		●	●			0034.6947
2	250	1)	100	85	870	16	●				●	●	●		●	●			0034.6948
2.5	250	1)	100	85	1000	32	●				●	●	●		●	●			0034.6949
3.15	250	1)	100	75	1200	57	●				●	●	●		●	●			0034.6950
4	250	1)	100	75	1400	77	●				●	●	●		●	●			0034.6951
5	250	1)	-	70	-	155					●			●		●			0034.6952
6.3	250	1)	-	65	-	262		●			●	●		●		●			0034.6953
8	250	1)	-	62	-	397			●					●		●			0034.6954
10	250	1)	-	62	-	440			●					●		●			0034.6955
0.8	250	1)	160	150	430	1.5	●				●		●		●	●			0034.6974
1	250	1)	140	130	500	4.4	●				●	●	●		●	●			0034.6975
1.25	250	1)	130	120	600	6.3	●				●	●	●		●	●			0034.6976
1.6	250	1)	120	110	730	10	●				●	●	●		●	●			0034.6977
2	250	1)	100	85	870	16	●				●	●	●		●	●			0034.6978
2.5	250	1)	100	85	1000	32	●				●	●	●		●	●			0034.6979
3.15	250	1)	100	75	1200	57	●				●	●	●		●	●			0034.6980
4	250	1)	100	75	1400	77	●				●	●	●		●	●			0034.6981
5	250	1)	-	70	-	155					●			●		●			0034.6982
6.3	250	1)	-	65	-	262		●			●	●		●		●			0034.6983
8	250	1)	-	62	-	397			●					●		●			0034.6984
10	250	1)	-	62	-	440			●					●		●			0034.6985

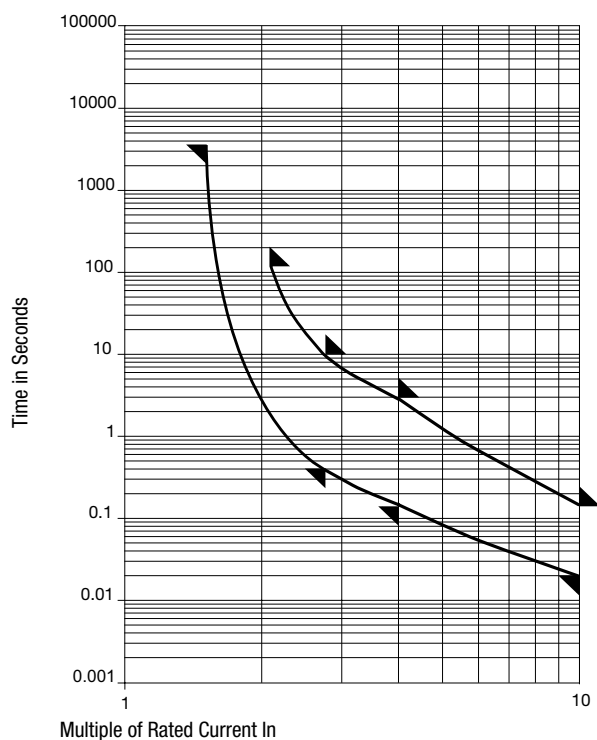
1) 100 A @ 250 VAC, p.f. = 1.0

Packaging Unit

S + L = Plastic Bag (100 pcs.)

T = Taped 36 cm Reel (750 pcs.)

Time-Current Curves



Subminiature Fuse, 2.3 x 8 mm, Quick-Acting F, 125 VAC, 125 VDC



125 VAC · 125 VDC · Quick-Acting F

GAM
T1**Description**

- High Breaking Capacity

Standards

- UL 248-14
- CSA C22.2 no. 248.14

References

[General Product Information](#)
[Packaging Details](#)

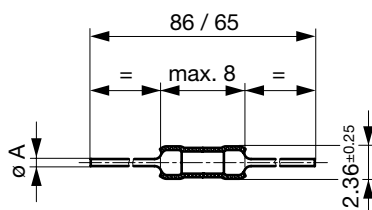
Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

Rated Voltage	32 - 125 VAC, 32 - 125 VDC
Rated Current	0.063 - 15 A
Breaking Capacity	300 A
Characteristic	Quick-Acting F
Admissible Ambient Air Temp.	-55 °C to 85 °C
Climatic Category	55/085/56 acc. to IEC 60068-1
Material: Tube	Ceramic
Material: Axial Leads	Tin-Plated Copper
Unit Weight	0.46 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	Current Rating

Soldering Methods	Wave
Solderability	235 °C / 2 sec acc. to IEC 60068-2-20, Test Ta, method 1
Resistance to Soldering Heat	260 °C / 5 sec acc. to IEC 60068-2-20, Test Tb, method 1A
Resistance to Vibration	acc. to NF C 20-706 / IEC 60068-2-6, test Fc
Shocks	acc. to NF C 20-706 / IEC 60068-2-27
Salt Mist	acc. to NF C 20-711 / IEC 60068-2-11

DimensionsLength  8 mm

In ≤ 10 A: ØA = 0.62 mm

In > 10 A: ØA = 0.82 mm

Pre-Arcing Time

Rated Current In	1.0 x In min.	2.0 x In max.	4.0 x In max.
0.063 A - 10 A	4 h	5 s	30 ms
12 A - 15 A	4 h	10 s	60 ms

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipation 1.0 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]	GAM T1	Order Number
0.063	125	125	1)	570	36	0.0014		7010.6300.xx
0.125	125	125	1)	720	90	0.0045	●	7010.6310.xx
0.25	125	125	1)	215	54	0.014	●	7010.6320.xx
0.375	125	125	1)	185	70	0.025	●	7010.6330.xx
0.5	125	125	1)	180	90	0.1	●	7010.6340.xx
0.75	125	125	1)	155	120	0.28	●	7010.6350.xx
1	125	125	1)	160	160	0.39	●	7010.6360.xx
1.5	125	125	1)	165	250	0.52	●	7010.6370.xx
2	125	125	1)	160	320	1.3	●	7010.6380.xx
2.5	125	125	1)	145	365	1.6	●	7010.6390.xx
3	125	125	1)	140	420	2.4	●	7010.6400.xx
4	125	125	1)	125	500	5.7	●	7010.6410.xx
5	125	125	1)	120	600	8.7	●	7010.6420.xx
7	125	125	1)	110	770	15	●	7010.6440.xx
10	125	125	1)	110	1100	46	●	7010.6470.xx
12	32	32	2)	120	1450	57	●	7010.6480.xx
15	32	32	2)	110	1650	98	●	7010.6490.xx

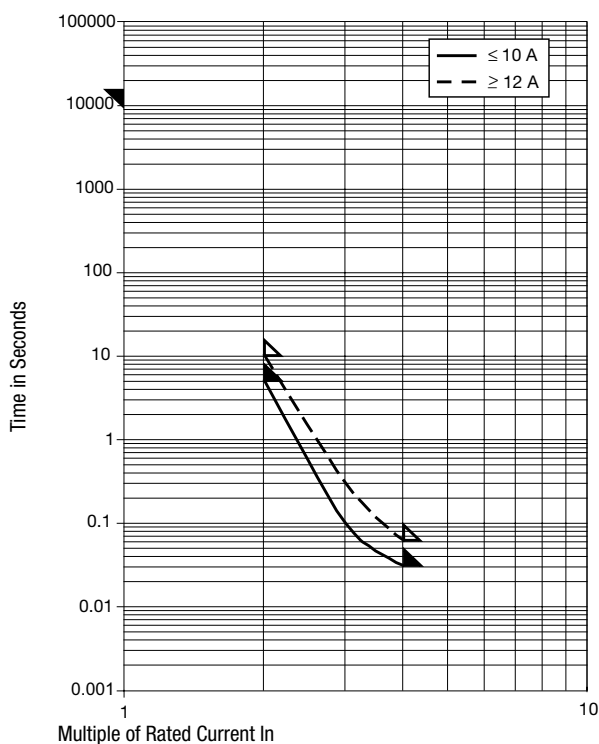
1) 300 A @ 125 VAC/DC

2) 300 A @ 32 VAC/DC

Packaging Unit

.xx = .13 Plastic Bag (100 pcs.)
 .xx = .37 Taped 19 cm Reel, Fuse Length 65 mm (1500 pcs.)
 .xx = .47 Taped 19 cm Reel, Fuse Length 86 mm (1500 pcs.)

Time-Current Curves



Subminiature Fuse, 2.3 x 8 mm, Quick-Acting F, IEC, 125 VAC, 125 VDC



IEC 60127-3 · 125 VAC · 125 VDC · Quick-Acting F

GAM
T1**Description**

- High Breaking Capacity

Standards

- IEC 60127-3/2
 - UL 248-14
 - CSA C22.2 no. 248.14

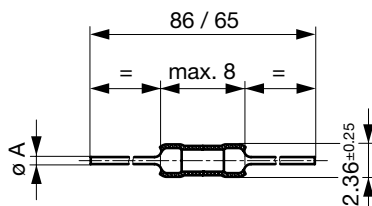
Approvals

- UL File Number: E42088

References[General Product Information](#)[Packaging Details](#)**Weblinks**
[Approvals, RoHS, CHINA-RoHS, e-Store, SCHURTER-Stock-Check, Distributor-Stock-Check](#)
Technical Data

Rated Voltage	32 - 125 VAC, 32 - 125 VDC
Rated Current	0.063 - 15 A
Breaking Capacity	50 A - 300 A
Characteristic	Quick-Acting F
Admissible Ambient Air Temp.	-55 °C to 85 °C
Climatic Category	55/085/56 acc. to IEC 60068-1
Material: Tube	Ceramic
Material: Axial Leads	Tin-Plated Copper
Unit Weight	0.46 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	Current Rating

Soldering Methods	Wave
Solderability	235 °C / 2 sec acc. to IEC 60068-2-20, Test Ta, method 1
Resistance to Soldering Heat	260 °C / 5 sec acc. to IEC 60068-2-20, Test Tb, method 1A

DimensionsLength  8 mm

In ≤ 10 A: ØA = 0.62 mm

In > 10 A: ØA = 0.82 mm

Pre-Arcing Time

Rated Current In	1.0 x In min.	1.5 x In max.	2.0 x In max.	2.75 x In max.	4.0 x In max.	10.0 x In max.
0.063 A - 10 A	4 h	10 min	5 s	300 ms	30 ms	4 ms
12 A - 15 A	4 h	10 min	10 s	-	60 ms	-

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipation 1.0 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]	 GAM T1	Order Number
0.063	125	125	1)	1050	66	0.0008	● ●	7010.7010.xx
0.125	125	125	1)	900	115	0.0036	● ● ●	7010.7020.xx
0.25	125	125	1)	325	82	0.0094	● ● ●	7010.7030.xx
0.375	125	125	1)	245	92	0.019	● ● ●	7010.7040.xx
0.5	125	125	1)	260	130	0.07	● ● ●	7010.7050.xx
0.75	125	125	1)	245	185	0.18	● ● ●	7010.7060.xx
1	125	125	1)	210	210	0.3	● ● ●	7010.7070.xx
1.5	125	125	1)	230	345	0.38	● ● ●	7010.7080.xx
2	125	125	1)	190	380	1.1	● ● ●	7010.7090.xx
2.5	125	125	1)	175	440	1.4	● ● ●	7010.7100.xx
3	125	125	1)	170	510	2	● ● ●	7010.7110.xx
3.5	32	32	2)	160	560	2.6	● ● ●	7010.7180.xx
4	125	125	1)	180	720	4	● ● ●	7010.7120.xx
5	125	125	1)	170	850	6.2	● ● ●	7010.7130.xx
7	125	125	1)	135	945	13	● ● ●	7010.7140.xx
10	125	125	1)	130	1300	39	● ● ●	7010.7150.xx
12	32	32	2)	130	1450	57	● ● ●	7010.7160.xx
15	32	32	2)	120	1800	90	● ● ●	7010.7170.xx

1) UL: 50 A @ 125 VAC, p.f. ≥ 0.95 / 300 A @ 125 VDC

1) CSA: 300 A @ 125 VAC/DC

2) UL: 50 A @ 32 VAC, p.f. ≥ 0.95 / 300 A @ 32 VDC

2) CSA: 300 A @ 32 VAC/DC

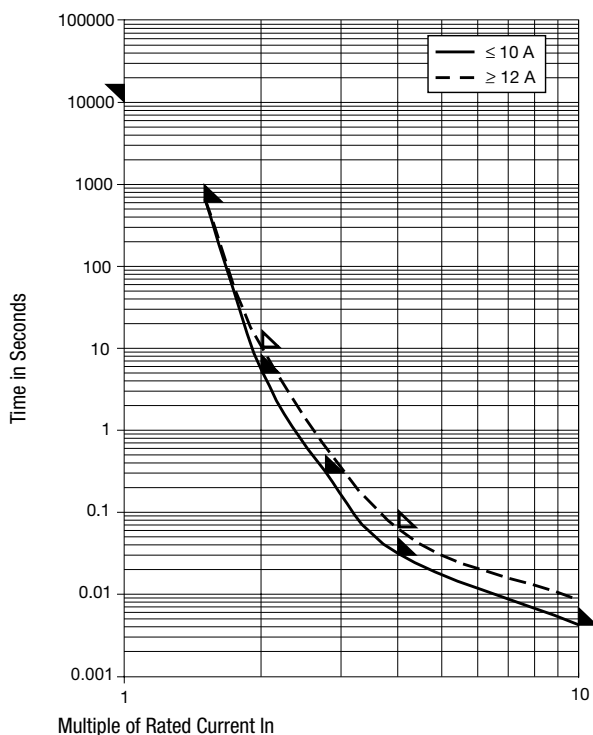
Packaging Unit

.xx = .13 Plastic Bag (100 pcs.)

.xx = .37 Taped 19 cm Reel, Fuse Length 65 mm (1500 pcs.)

.xx = .47 Taped 19 cm Reel, Fuse Length 86 mm (1500 pcs.)

Time-Current Curves



Subminiature Fuse, 3.8 x 10 mm, Quick-Acting F, 250 VAC, 125 VDC



UL 248-14 · 250 VAC · 125 VDC · Quick-Acting F

**Description**

- Low Breaking Capacity

Standards

- UL 248-14

- CSA C22.2 no. 248.14

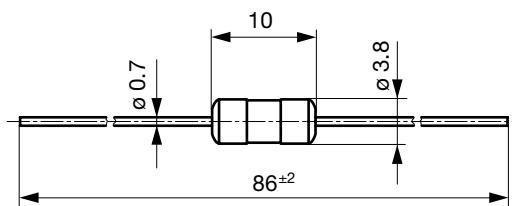
Approvals

- UL File Number: E42088

References[General Product Information](#)[Packaging Details](#)**Weblinks**[Approvals, RoHS, CHINA-RoHS, e-Store, SCHURTER-Stock-Check, Distributor-Stock-Check](#)**Technical Data**

Rated Voltage	125 - 250 VAC, 125 VDC
Rated Current	0.05 - 5 A
Breaking Capacity	50 A - 300 A
Characteristic	Quick-Acting F
Admissible Ambient Air Temp.	-40 °C to 85 °C
Material: Tube	Ceramic
Material: Axial Leads	Tin-Plated Copper
Unit Weight	0.6 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Current Rating, Characteristic

Soldering Methods	Wave
Solderability	235 °C / 2 sec acc. to IEC 60068-2-20, Test Ta, method 1
Resistance to Soldering Heat	260 °C / 5 sec acc. to IEC 60068-2-20, Test Tb, method 1A

DimensionsLength  10 mm**Pre-Arcing Time**

Rated Current In	1.0 x In min.	2.0 x In max.	3.0 x In max.
0.05 A - 5 A	4 h	60 s	100 ms

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	Melting I ² t 10.0 Intyp. [A ² s]		Order Number
0.05	250	125	1)	1150	0.00011	●	7010.1740.xx
0.063	250	125	1)	735	0.00035	●	7010.1750.xx
0.08	250	125	1)	950	0.00039	●	7010.1760.xx
0.1	250	125	1)	875	0.00079	●	7010.1770.xx
0.125	250	125	1)	870	0.0013	●	7010.1780.xx
0.15	250	125	1)	545	0.0029	●	7010.1790.xx
0.2	250	125	1)	520	0.0071	●	7010.1910.xx
0.3	250	125	1)	920	0.021	●	7010.1920.xx
0.4	250	125	1)	725	0.057	●	7010.1930.xx
0.5	250	125	1)	725	0.069	●	7010.1800.xx
0.6	250	125	1)	205	0.059	●	7010.1810.xx
0.8	250	125	1)	150	0.095	●	7010.1820.xx
1	250	125	1)	185	0.12	●	7010.1830.xx
1.25	250	125	1)	125	0.29	●	7010.1840.xx
1.6	250	125	1)	135	0.48	●	7010.1850.xx
2	250	125	1)	110	0.95	●	7010.1860.xx
2.5	250	125	1)	145	1.2	●	7010.1870.xx
3	250	125	1)	220	1.8	●	7010.1880.xx
4	250	125	1)	130	3.4	●	7010.1890.xx
5	250	125	1)	105	7.7	●	7010.1900.xx

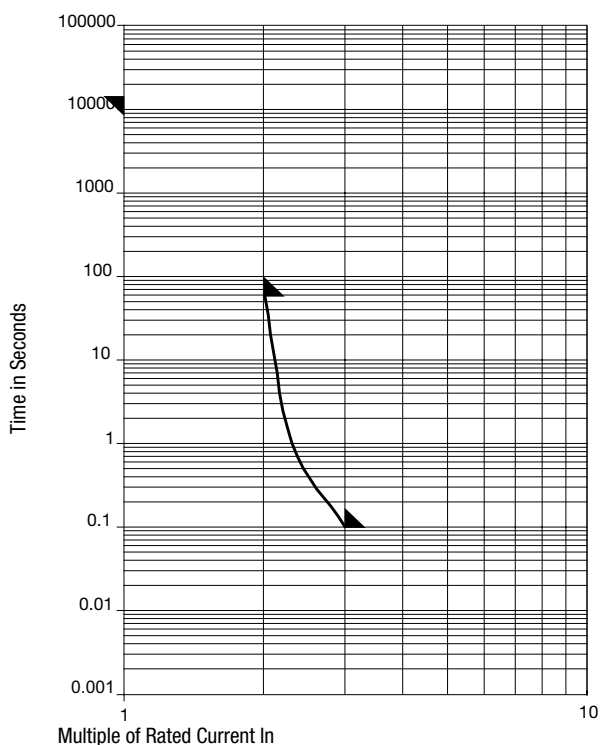
1) 50 A @ 250 VAC/DC / 300 A @ 125 VAC/DC

Packaging Unit

.xx = .12 Plastic Bag (50 pcs.)

.xx = .46 Taped 19 cm Reel (1000 pcs.)

Time-Current Curves



Subminiature Fuse, 3.8 x 10 mm, Time-Lag T, 125 VAC, 125 VDC



UL 248-14 · 125 VAC · 125 VDC · Time-Lag T

**Description**

- Low Breaking Capacity

Standards

- UL 248-14

- CSA C22.2 no. 248.14

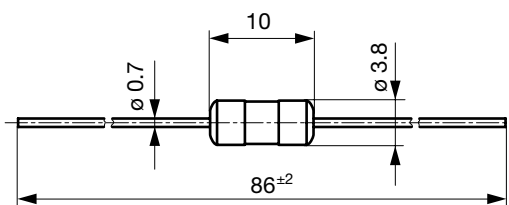
Approvals

- UL File Number: E42088

References[General Product Information](#)[Packaging Details](#)**Weblinks**[Approvals, RoHS, CHINA-RoHS, e-Store, SCHURTER-Stock-Check, Distributor-Stock-Check](#)**Technical Data**

Rated Voltage	65 - 125 VAC, 65 - 125 VDC
Rated Current	0.125 - 10 A
Breaking Capacity	50 A - 100 A
Characteristic	Time-Lag T
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/56 acc. to IEC 60068-1
Material: Tube	Ceramic
Material: Axial Leads	Tin-Plated Copper
Unit Weight	0.6 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Current Rating, Characteristic

Soldering Methods	Wave
Solderability	235 °C / 2 sec acc. to IEC 60068-2-20, Test Ta, method 1
Resistance to Soldering Heat	260 °C / 5 sec acc. to IEC 60068-2-20, Test Tb, method 1A

DimensionsLength  10 mm**Pre-Arcing Time**

Rated Current In	1.0 x In min.	2.0 x In min.	2.0 x In max.	3.0 x In min.	3.0 x In max.	8.0 x In min.	8.0 x In max.
0.125 A - 10 A	4 h	1 s	120 s	200 ms	3 s	20 ms	100 ms

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	Melting I ² t 10.0 Intyp. [A ² s]		Order Number
0.125	125	125	1)	1200	0.024	●	7010.1607.xx
0.16	125	125	1)	900	0.038	●	7010.1608.xx
0.2	125	125	1)	480	0.092	●	7010.1609.xx
0.25	125	125	1)	320	0.13	●	7010.1610.xx
0.315	125	125	1)	190	0.16	●	7010.1611.xx
0.4	125	125	1)	170	0.2	●	7010.1612.xx
0.5	125	125	1)	155	0.4	●	7010.1613.xx
0.63	125	125	1)	140	0.64	●	7010.1614.xx
0.8	125	125	1)	110	1.3	●	7010.1615.xx
1	125	125	1)	110	2.1	●	7010.1616.xx
1.25	125	125	1)	90	3.7	●	7010.1617.xx
1.6	125	125	1)	80	4.4	●	7010.1618.xx
2	125	125	1)	80	7.2	●	7010.1619.xx
2.5	125	125	1)	75	13.5	●	7010.1620.xx
3.15	125	125	1)	75	22	●	7010.1621.xx
4	125	125	1)	75	37	●	7010.1622.xx
5	125	125	1)	75	60	●	7010.1623.xx
6.3	125	125	1)	70	94	●	7010.1624.xx
8	65	65	2)	70	175	●	7010.1625.xx
10	65	65	2)	70	260	●	7010.1626.xx

1) 50 A @ 125 VAC/DC

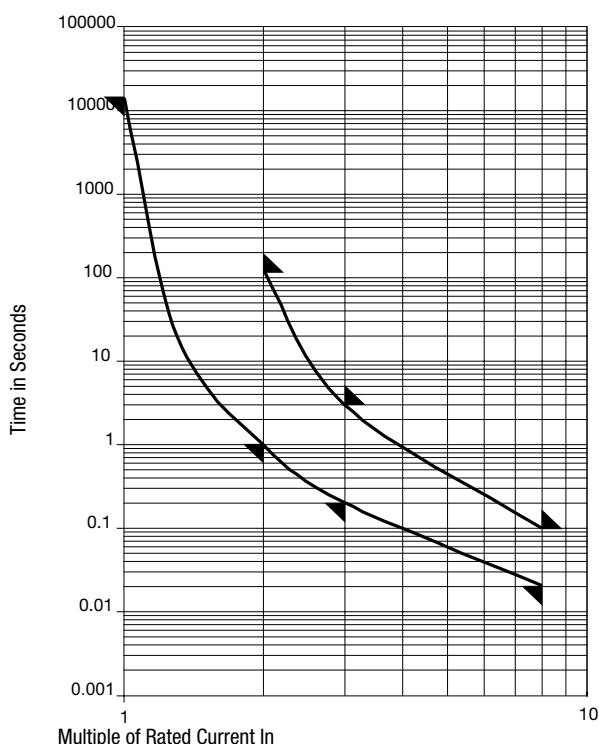
2) 100 A @ 65 VAC/DC

Packaging Unit

.xx = .12 Plastic Bag (50 pcs.)

.xx = .46 Taped 19 cm Reel (1000 pcs.)

Time-Current Curves



Subminiature Fuse, 3.6 x 10 mm, Time-lag T, 250 VAC

new



IEC 60127-3 · 250 VAC · Time-Lag T

**Description**

- Ceramic Tube
- IEC Standard Miniature Fuse

Standards

- IEC 60127-3/4
- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- VDE License Number: 40015228
- UL File Number: E184831

Applications

- Digital Consumer Electronics
- Power Supplies

References

[General Product Information](#)
[Packaging Details](#)

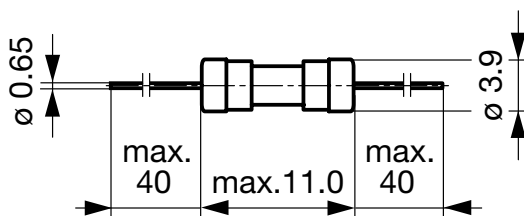
Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

Rated Voltage	250 VAC
Rated Current	0.1 - 5 A
Breaking Capacity	35 A - 40 A
Characteristic	Time-Lag T
Mounting	PCB,THT
Admissible Ambient Air Temp.	-20 °C to 70 °C
Material: Tube	Ceramic
Material: Endcaps	Nickel-Plated Brass
Material: Axial Leads	Tin-Plated Copper
Unit Weight	0.6 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Current Rating, Voltage Rating, Characteristic, Approvals

Soldering Methods	Wave, Iron
Solderability	235 °C / 2 sec acc. to IEC 60068-2-20, Test Ta, method 1
Resistance to Soldering Heat	260 °C / 10 sec acc. to IEC 60068-2-20, Test Tb, method 1A

DimensionsLength  11 mm**Pre-Arcing Time**

Rated Current In	2.1 x In max.	2.75 x In min.	2.75 x In max.	4.0 x In min.	4.0 x In max.	10.0 x In min.	10.0 x In max.
0.1 A - 5 A	120 s	400 ms	10 s	150 ms	3 s	20 ms	150 ms

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

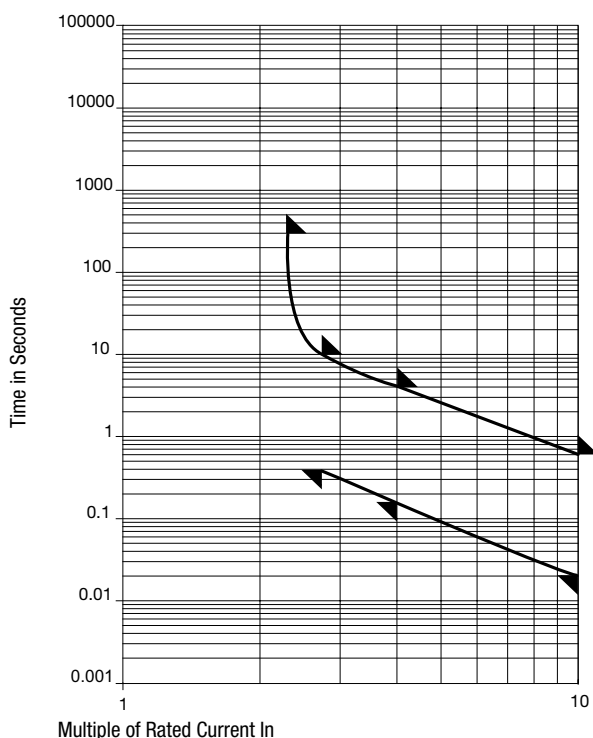
Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 I _n max. [mV]	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipation 1.5 I _n max. [mW]	Melting I ² t 10.0 Intyp. [A ² s]		Order Number
0.1	250	1)	350	300	170	0.08		8020.0504.xx
0.125	250	1)	300	255	180	0.15	●	8020.0505.xx
0.2	250	1)	260	200	200	0.4	●	8020.0507.xx
0.25	250	1)	240	160	220	0.2	●	8020.0508.xx
0.315	250	1)	220	150	250	0.75		8020.0509.xx
0.4	250	1)	200	110	280	0.45	● ● ●	8020.0510.xx
0.5	250	1)	190	140	310	2.6	● ● ●	8020.0511.xx
0.63	250	1)	180	120	360	5	● ● ●	8020.0512.xx
0.8	250	1)	160	80	430	7.5	● ● ●	8020.0513.xx
1	250	1)	140	120	500	11	● ● ●	8020.0514.xx
1.25	250	1)	130	70	600	5	●	8020.0515.xx
1.6	250	1)	120	90	730	17.5	●	8020.0516.xx
2	250	1)	100	80	870	32	● ● ●	8020.0517.xx
2.5	250	1)	100	75	1000	66	●	8020.0518.xx
3.15	250	1)	100	80	1200	131	● ● ●	8020.0519.xx
4	250	2)	100	70	1400	120	● ● ●	8020.0520.xx
5	250	2)	100	70	-	250	● ● ●	8020.0521.xx

1) 35 A @ 250 VAC

2) 40 A @ 250 VAC

Packaging Unit .xx = .PT Bulk (1000 pcs.)

Time-Current Curves



Miniature Fuse, 5 x 20 mm, Quick-Acting F, L, 250 VAC



IEC 60127-2 · 250 VAC · Quick-Acting F

**Description**

- IEC Standard Fuse
- L = Low Breaking Capacity (Glass Tube)

Standards

- IEC 60127-2/2
- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- VDE License Number: 40016088
- UL File Number: E41599

Applications

- Primary Protection in Equipment

References

General Product Information

Pigtail Type FSF 5x20 Pigtail

Assembled Fuseholder OGN-SMD

Fuse Kit Fuse Kit 5x20

Weblinks

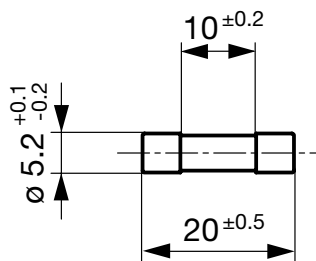
Approvals, RoHS, CHINA-RoHS, e-Store, SCHURTER-Stock-Check, Distributor-Stock-Check

Technical Data

Rated Voltage	250 VAC
Rated Current	0.032 - 10 A
Breaking Capacity	35 A - 100 A
Characteristic	Quick-Acting F
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Tube	Glass
Material: Endcaps	Nickel-Plated Copper Alloy
Unit Weight	0.92 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Current Rating, Voltage Rating, Characteristic, Breaking Capacity, Approvals

Dimensions

Length  20 mm

**Pre-Arcing Time**

Rated Current In	1.5 x In min.	2.1 x In max.	2.75 x In min.	2.75 x In max.	4.0 x In min.	4.0 x In max.	10.0 x In max.
0.032 A - 0.1 A	60 min	30 min	10 ms	500 ms	3 ms	100 ms	20 ms
0.125 A - 6.3 A	60 min	30 min	50 ms	2 s	10 ms	300 ms	20 ms
8 A - 10 A	30 min	30 min	50 ms	2 s	10 ms	400 ms	40 ms

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 I _n max. [mV]	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipation 1.5 I _n max. [mW]	Power Dissipation 1.5 I _n typ. [mW]	Melting I ² t 10.0 I _n typ. [A ² s]	  	Order Number
0.032	250	1)	10000	1500	1600	700	0.000082	● ● ●	0034.1527
0.04	250	1)	8000	1100	1600	700	0.000128	● ● ●	0034.1528
0.05	250	1)	7000	3000	1600	700	0.00025	● ● ●	0034.1529
0.063	250	1)	5000	940	1600	300	0.000278	● ● ●	0034.1530
0.08	250	1)	4000	750	1600	300	0.00102	● ● ●	0034.1531
0.1	250	1)	3500	840	1600	400	0.0014	● ● ●	0034.1506
0.125	250	1)	2000	610	1600	400	0.00484	● ● ●	0034.1507
0.16	250	1)	2000	550	1600	500	0.0113	● ● ●	0034.1508
0.2	250	1)	1700	540	1600	500	0.0252	● ● ●	0034.1509
0.25	250	1)	1400	240	1600	200	0.0159	● ● ●	0034.1510
0.315	250	1)	1300	210	1600	200	0.0367	● ● ●	0034.1511
0.4	250	1)	1200	200	1600	200	0.085	● ● ●	0034.1512
0.5	250	1)	1000	150	1600	200	0.151	● ● ●	0034.1513
0.63	250	1)	650	140	1600	300	0.303	● ● ●	0034.1514
0.8	250	1)	240	110	1600	300	0.508	● ● ●	0034.1515
1	250	1)	200	110	1600	300	1.13	● ● ● ●	0034.1516
1.25	250	1)	200	100	1600	400	1.81	● ● ● ●	0034.1517
1.6	250	1)	190	100	1600	500	2.94	● ● ● ●	0034.1518
2	250	1)	170	90	1600	600	5.28	● ● ● ●	0034.1519
2.5	250	1)	170	90	1600	800	9.19	● ● ● ●	0034.1520
3.15	250	1)	150	90	2500	600	16.1	● ● ● ●	0034.1521
4	250	2)	130	90	2500	1000	25.6	● ● ● ●	0034.1522
5	250	2)	130	80	2500	1300	33.8	● ● ● ●	0034.1523
6.3	250	2)	130	80	2500	2000	53.2	● ● ● ●	0034.1524
8	250	2)	130	80	4000	2300	93.4	● ● ● ●	0034.1525
10	250	2)	130	70	4000	2500	183	● ● ● ●	0034.1526

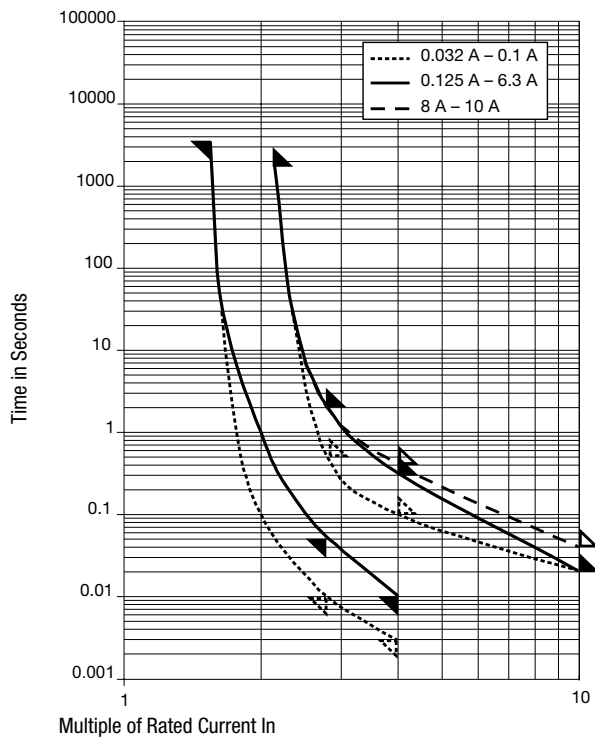
1) 35 A @ 250 VAC

2) 10 I_n @ 250 VAC

Packaging Unit

Small Box Pack (10 pcs.)
xxxx.xxxx.G Bulk 128 x 91 x 60 mm (1000 pcs.)

Time-Current Curves



Miniature Fuse with Pigtail, 5.4 x 22.5 mm, Quick-Acting F, L, 250 VAC



IEC 60127-2 · 250 VAC · Quick-Acting F



Description

- IEC Standard Fuse
- L = Low Breaking Capacity (Glass Tube)

Standards

- IEC 60127-2/2
- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- UL File Number: E41599

Applications

- Primary Protection on PCB

References

[General Product Information](#)
[Packaging Details](#)

Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

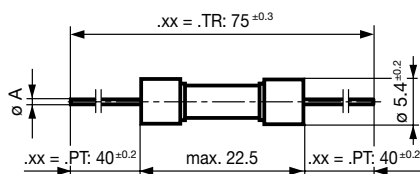
Technical Data

Rated Voltage	250 VAC
Rated Current	0.5 - 10 A
Breaking Capacity	35 A - 100 A
Characteristic	Quick-Acting F
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Tube	Glass
Material: Endcaps	Nickel-Plated Copper Alloy
Material: Axial Leads	Tin-Plated Copper
Unit Weight	1.48 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 , Current Rating, Voltage Rating, Characteristic, Breaking Capacity, Approvals

Soldering Methods	Wave, Iron
Solderability	235 °C / 2 sec acc. to IEC 60068-2-20, Test Ta, method 1
Resistance to Soldering Heat	260 °C / 5 sec acc. to IEC 60068-2-20, Test Tb, method 1A

Dimensions

Length  22.5 mm



$I_n \leq 6.3 \text{ A}$: $\varnothing A = 0.65 \text{ mm}$

$8 \text{ A} \leq I_n \leq 12.5 \text{ A}$: $\varnothing A = 0.8 \text{ mm}$

$I_n \geq 16 \text{ A}$: $\varnothing A = 1.0 \text{ mm}$

Pre-Arcing Time

Rated Current I_n	$1.5 \times I_n$ min.	$2.1 \times I_n$ max.	$2.75 \times I_n$ min.	$2.75 \times I_n$ max.	$4.0 \times I_n$ min.	$4.0 \times I_n$ max.	$10.0 \times I_n$ max.
0.5 A - 6.3 A	60 min	30 min	50 ms	2 s	10 ms	300 ms	20 ms
8 A - 10 A	30 min	30 min	50 ms	2 s	10 ms	400 ms	40 ms

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 I _n max. [mV]	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipation 1.5 I _n max. [mW]	Power Dissipation 1.5 I _n typ. [mW]	Melting I ² t 10.0 I _n Intyp. [A ² s]	 US	Order Number
0.5	250	1)	1000	150	1600	200	0.151	●	0034.1513.xx
0.63	250	1)	650	140	1600	300	0.303	●	0034.1514.xx
0.8	250	1)	240	110	1600	300	0.508	●	0034.1515.xx
1	250	1)	200	110	1600	300	1.13	●	0034.1516.xx
1.25	250	1)	200	100	1600	400	1.81	●	0034.1517.xx
1.6	250	1)	190	100	1600	500	2.94	●	0034.1518.xx
2	250	1)	170	90	1600	600	5.28	●	0034.1519.xx
2.5	250	1)	170	90	1600	800	9.19	●	0034.1520.xx
3.15	250	1)	150	90	2500	600	16.1	●	0034.1521.xx
4	250	2)	130	90	2500	1000	25.6	●	0034.1522.xx
5	250	2)	130	80	2500	1300	33.8	●	0034.1523.xx
6.3	250	2)	130	80	2500	2000	53.2	●	0034.1524.xx
8	250	2)	130	80	4000	2300	93.4	●	0034.1525.xx
10	250	2)	130	70	4000	2500	93.4	●	0034.1526.xx

1) 35 A @ 250 VAC

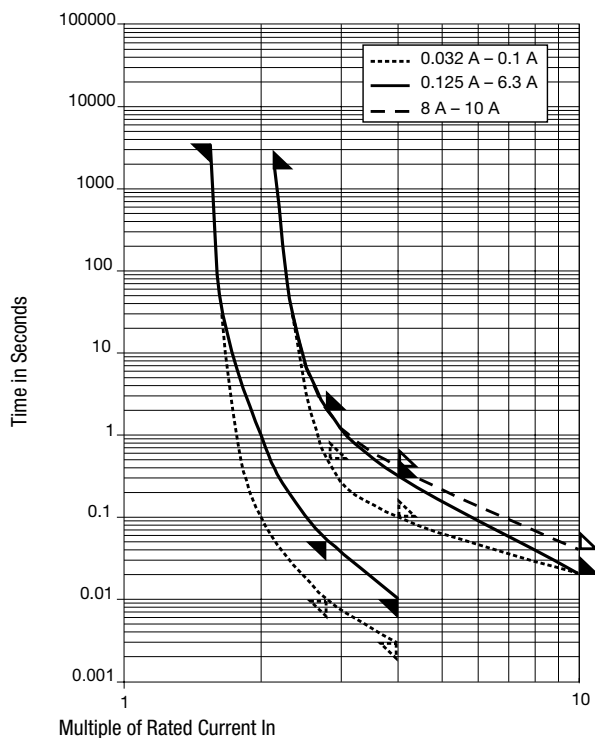
2) 10 I_n @ 250 VAC

Packaging Unit

.xx = .PT Bulk (1000 pcs.)

.xx = .TR Taped 33 cm Reel (1000 pcs.)

Time-Current Curves



Miniature Fuse, 5 x 20 mm, Time-Lag T, L, 250 VAC



IEC 60127-2 · 250VAC · Time-Lag T

**Description**

- IEC Standard Fuse
- L = Low Breaking Capacity (Glass Tube)

Standards

- IEC 60127-2/3
- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- VDE License Number: 40016601
- UL File Number: E41599

Applications

- Primary Protection in Equipment

References

General Product Information

Pigtail Type FST 5x20 Pigtail

Assembled Fuseholder OGN-SMD

Fuse Kit Fuse Kit 5x20

Weblinks

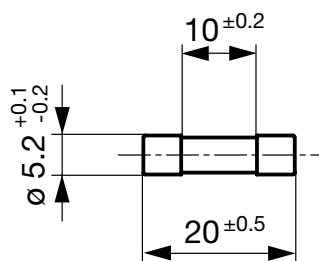
Approvals, RoHS, CHINA-RoHS, e-Store, SCHURTER-Stock-Check, Distributor-Stock-Check

Technical Data

Rated Voltage	250VAC
Rated Current	0.02 - 20A
Breaking Capacity	35A - 200A
Characteristic	Time-Lag T
Admissible Ambient Air Temp.	-55°C to 125°C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Tube	Glass
Material: Endcaps	Nickel-Plated Copper Alloy
Unit Weight	1 g
Storage Conditions	0°C to 60°C, max. 70% r.h.
Product Marking	 Current Rating, Voltage Rating, Characteristic, Breaking Capacity, Approvals

Dimensions

Length  20 mm

**Pre-Arcing Time**

Rated Current In	1.5 x In min.	2.1 x In max.	2.75 x In min.	2.75 x In max.	4.0 x In min.	4.0 x In max.	10.0 x In min.	10.0 x In max.
0.02 A	60 min	-	-	-	40 ms	3 s	10 ms	300 ms
0.032 A - 0.1 A	60 min	120 s	200 ms	10 s	40 ms	3 s	10 ms	300 ms
0.125 A - 6.3 A	60 min	120 s	600 ms	10 s	150 ms	3 s	20 ms	300 ms
8 A - 20 A	30 min	120 s	600 ms	10 s	150 ms	3 s	20 ms	300 ms

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 I _n max. [mV]	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipation 1.5 I _n max. [mW]	Power Dissipation 1.5 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]	     	Order Number
0.02	250	1)	-	2700	-	100	0.0012		0034.3101
0.032	250	1)	5000	3000	1600	200	0.0019	●	0034.3102
0.04	250	1)	4000	2100	1600	200	0.0027	● ●	0034.3103
0.05	250	1)	3500	950	1600	125	0.0363	● ● ●	0034.3104
0.063	250	1)	3000	1300	1600	200	0.0401	● ● ●	0034.3105
0.08	250	1)	3000	1100	1600	300	0.057	● ● ●	0034.3106
0.1	250	1)	2500	565	1600	155	0.107	● ● ●	0034.3107
0.125	250	1)	2000	400	1600	200	0.064	● ● ●	0034.3108
0.16	250	1)	1900	415	1600	185	0.23	● ● ●	0034.3109
0.2	250	1)	1500	270	1600	200	0.256	● ● ●	0034.3110
0.25	250	1)	1300	210	1600	200	0.238	● ● ●	0034.3111
0.315	250	1)	1100	170	1600	200	0.544	● ● ●	0034.3112
0.4	250	1)	1000	150	1600	200	0.768	● ● ●	0034.3113
0.5	250	1)	900	160	1600	200	3	● ● ●	0034.3114
0.63	250	1)	300	160	1600	300	4.35	● ● ●	0034.3115
0.8	250	1)	250	120	1600	300	3.85	● ● ●	0034.3116
1	250	1)	150	60	1600	200	3.3	● ● ● ●	0034.3117
1.25	250	1)	150	60	1600	300	5.5	● ● ● ●	0034.3118
1.4	250	1)	-	60	-	300	7.45	● ● ●	0034.3165
1.6	250	1)	150	60	1600	300	10.5	● ● ● ●	0034.3119
2	250	1)	150	60	1600	300	16	● ● ● ●	0034.3120
2.5	250	1)	120	60	1600	400	21.9	● ● ● ●	0034.3121
3.15	250	1)	100	60	1600	500	47	● ● ● ●	0034.3122
4	250	2)	100	60	1600	800	68.3	● ● ● ●	0034.3123
5	250	2)	100	60	1600	900	102	● ● ● ●	0034.3124
6.3	250	2)	100	60	1600	1000	190	● ● ●	0034.3125
8	250	2)	100	60	4000	1300	275	● ●	0034.3126
10	250	2)	100	60	4000	1300	520	● ●	0034.3127
12.5	250	2)	-	60	-	2500	750	● ●	0034.3128
16	250	2)	-	60	-	3300	1638	● ●	0034.3129
20	250	2)	-	60	-	4200	3057	●	0034.3130

1) 35 A @ 250 VAC

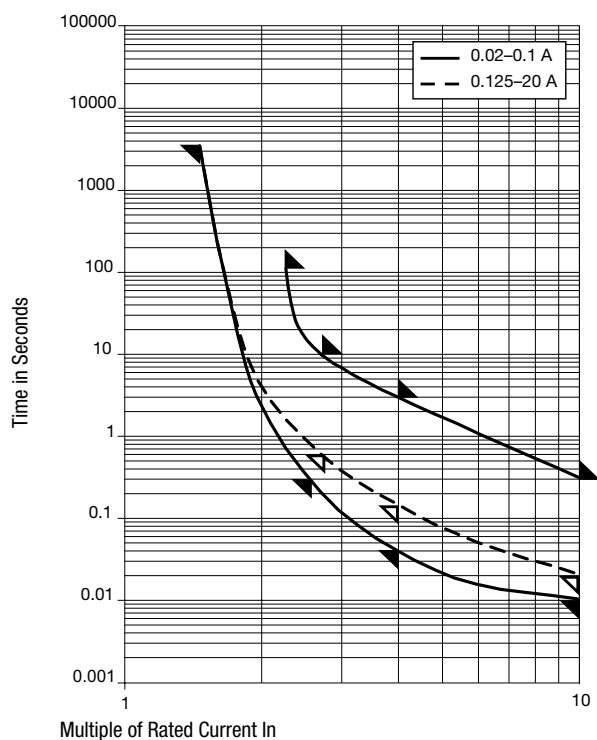
2) 10 In @ 250 VAC

Packaging Unit

Small Box Pack (10 pcs.)

xxxx.xxxx.G Bulk 128 x 91 x 60 mm (1000 pcs.)

Time-Current Curves



Miniature Fuse with Pigtail, 5.4 x 22.5 mm, Time-Lag T, L, 250 VAC



IEC 60127-2 · 250 VAC · Time-Lag T

**Description**

- IEC Standard Fuse
- L = Low Breaking Capacity (Glass Tube)

Standards

- IEC 60127-2/3
- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- UL File Number: E41599

Applications

- Primary Protection on PCB

References

[General Product Information](#)
[Packaging Details](#)

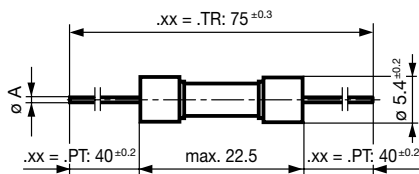
Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

Rated Voltage	250 VAC
Rated Current	0.05 - 20 A
Breaking Capacity	35 A - 200 A
Characteristic	Time-Lag T
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Tube	Glass
Material: Endcaps	Nickel-Plated Copper Alloy
Material: Axial Leads	Tin-Plated Copper
Unit Weight	1.48 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Current Rating, Voltage Rating, Characteristic, Breaking Capacity, Approvals

Soldering Methods	Wave, Iron
Solderability	235 °C / 2 sec acc. to IEC 60068-2-20, Test Ta, method 1
Resistance to Soldering Heat	260 °C / 5 sec acc. to IEC 60068-2-20, Test Tb, method 1A

DimensionsLength  22.5 mm

$I_n \leq 6.3 \text{ A}$: $\varnothing A = 0.65 \text{ mm}$
 $8 \text{ A} \leq I_n \leq 12.5 \text{ A}$: $\varnothing A = 0.8 \text{ mm}$
 $I_n \geq 16 \text{ A}$: $\varnothing A = 1.0 \text{ mm}$

Pre-Arcing Time

Rated Current I_n	1.5 x I_n min.	2.1 x I_n max.	2.75 x I_n min.	2.75 x I_n max.	4.0 x I_n min.	4.0 x I_n max.	10.0 x I_n min.	10.0 x I_n max.
0.05 A - 0.1 A	60 min	120 s	200 ms	10 s	40 ms	3 s	10 ms	300 ms
0.125 A - 6.3 A	60 min	120 s	600 ms	10 s	150 ms	3 s	20 ms	300 ms
8 A - 20 A	30 min	120 s	600 ms	10 s	150 ms	3 s	20 ms	300 ms

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 I _n max. [mV]	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipation 1.5 I _n max. [mW]	Power Dissipation 1.5 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]		Order Number
0.05	250	1)	3500	950	1600	125	0.0363	●	0034.3104.xx
0.063	250	1)	3000	1300	1600	200	0.0401	●	0034.3105.xx
0.08	250	1)	3000	1100	1600	300	0.057	●	0034.3106.xx
0.1	250	1)	2500	565	1600	155	0.107	●	0034.3107.xx
0.125	250	1)	2000	400	1600	200	0.064	●	0034.3108.xx
0.16	250	1)	1900	415	1600	185	0.23	●	0034.3109.xx
0.2	250	1)	1500	270	1600	200	0.256	●	0034.3110.xx
0.25	250	1)	1300	210	1600	200	0.238	●	0034.3111.xx
0.315	250	1)	1100	170	1600	200	0.544	●	0034.3112.xx
0.4	250	1)	1000	150	1600	200	0.768	●	0034.3113.xx
0.5	250	1)	900	160	1600	200	3	●	0034.3114.xx
0.63	250	1)	300	160	1600	300	4.35	●	0034.3115.xx
0.8	250	1)	250	120	1600	300	3.85	●	0034.3116.xx
1	250	1)	150	60	1600	200	3.3	●	0034.3117.xx
1.25	250	1)	150	60	1600	300	5.5	●	0034.3118.xx
1.6	250	1)	150	60	1600	300	10.5	●	0034.3119.xx
2	250	1)	150	60	1600	300	16	●	0034.3120.xx
2.5	250	1)	120	60	1600	400	21.9	●	0034.3121.xx
3.15	250	1)	100	60	1600	500	47	●	0034.3122.xx
4	250	2)	100	60	1600	800	68.3	●	0034.3123.xx
5	250	2)	100	60	1600	900	102	●	0034.3124.xx
6.3	250	2)	100	60	1600	1000	190	●	0034.3125.xx
8	250	2)	100	60	4000	1300	275	●	0034.3126.xx
10	250	2)	100	60	4000	1300	520		0034.3127.xx
12.5	250	2)	-	60	-	2500	750		0034.3128.xx
16	250	2)	-	60	-	3300	1638		0034.3129.xx
20	250	2)	-	60	-	4200	3057		0034.3130.xx

1) 35 A @ 250 VAC

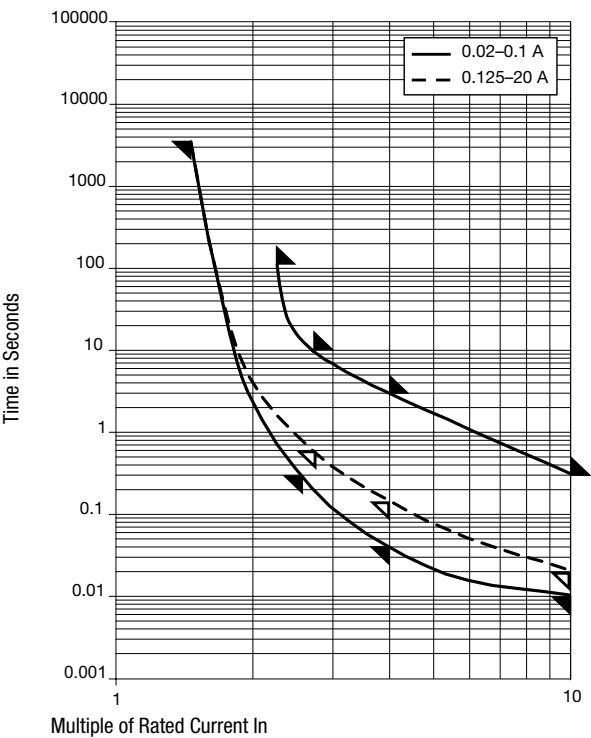
2) 10 In @ 250 VAC

Packaging Unit

.xx = .PT Bulk (1000 pcs.)

.xx = .TR Taped 33 cm Reel (1000 pcs.)

Time-Current Curves



Miniature Fuse, 5 x 20 mm, Quick-Acting F, H, 250 VAC



IEC 60127-2 · 250 VAC · Quick-Acting F

**Description**

- IEC Standard Fuse
- H = High Breaking Capacity (Ceramic Tube)

Standards

- IEC 60127-2/1
- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- VDE License Number: 40009397
- UL File Number: E41599

Applications

- Primary Protection in Equipment

References

General Product Information
 Pigtail Type SP 5x20 Pigtail
 Fuse Kit Fuse Kit 5x20

Weblinks

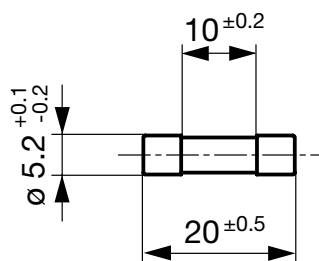
Approvals, RoHS, CHINA-RoHS, e-Store, SCHURTER-Stock-Check, Distributor-Stock-Check

Technical Data

Rated Voltage	250 VAC
Rated Current	0.5 - 16 A
Breaking Capacity	500 A - 1500 A
Characteristic	Quick-Acting F
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Tube	Ceramic
Material: Endcaps	Nickel-Plated Copper Alloy
Unit Weight	1.18 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	, Current Rating, Voltage Rating, Characteristic, Breaking Capacity, Approvals

Dimensions

Length 20 mm

**Pre-Arcing Time**

Rated Current In	1.5 x In min.	2.1 x In max.	2.75 x In min.	2.75 x In max.	4.0 x In min.	4.0 x In max.	10.0 x In max.
0.5 A - 4 A	60 min	30 min	10 ms	2 s	3 ms	300 ms	20 ms
5 A - 6.3 A	60 min	30 min	10 ms	3 s	3 ms	300 ms	20 ms
8 A - 10 A	30 min	30 min	40 ms	20 s	10 ms	1 s	30 ms
12.5 A - 16 A	15 min	30 min	40 ms	20 s	10 ms	1 s	30 ms

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

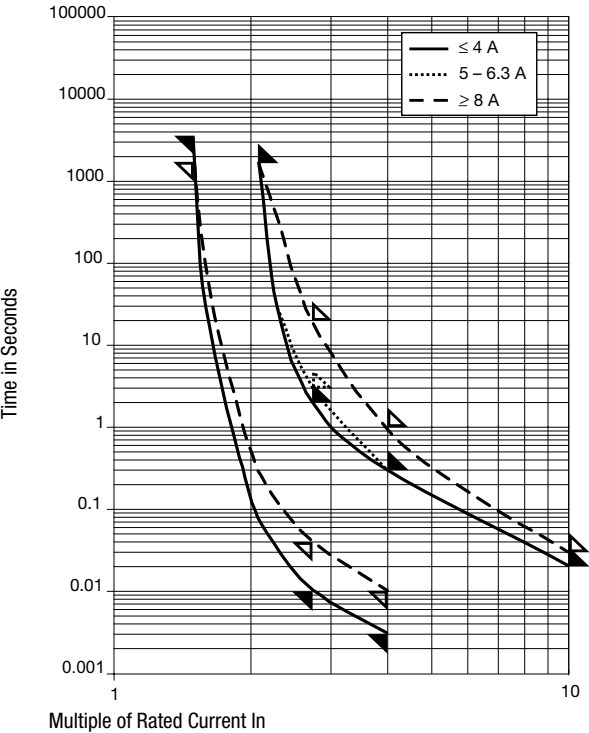
Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 I _n max. [mV]	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipation 1.5 I _n max. [mW]	Power Dissipation 1.5 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A²s]		Order Number
0.5	250	1)	1800	830	2500	2400	0.098	● ● ● ● ●	0001.1001
0.63	250	1)	1500	800	2500	2400	0.207	● ● ● ● ●	0001.1002
0.8	250	1)	1200	580	2500	2400	0.469	● ● ● ● ●	0001.1003
1	250	1)	1000	600	2500	2500	0.75	● ● ● ● ●	0001.1004
1.25	250	1)	800	270	4000	1000	0.538	● ● ● ● ●	0001.1005
1.6	250	1)	600	350	4000	1600	0.755	● ● ● ● ●	0001.1006
2	250	1)	500	260	4000	1600	2	● ● ● ● ●	0001.1007
2.5	250	1)	400	260	4000	1900	3.28	● ● ● ● ●	0001.1008
3.15	250	1)	350	210	4000	1900	6.78	● ● ● ● ●	0001.1009
4	250	1)	300	200	4000	2400	12.6	● ● ● ● ●	0001.1010
5	250	1)	250	160	4000	2400	30.8	● ● ● ● ●	0001.1011
6.3	250	1)	200	150	4000	3200	36.7	● ● ● ● ●	0001.1012
8	250	1)	200	140	4000	3900	81.9	● ● ● ● ●	0001.1013
10	250	1)	200	130	4000	4700	141	● ● ● ● ●	0001.1014
12.5	250	2)	-	110	-	6900	203	● ● ● ● ●	0001.1015
16	250	2)	-	120	-	7400	461	● ● ● ● ●	0001.1016

- 1) IEC: H = 1500 A @ 250 VAC, p.f. = 0.7 - 0.8
- 1) UL: 10 kA @ 125 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 250 VAC, p.f. = 0.7 - 0.8
- 2) IEC: 1000 A @ 250 VAC
- 2) UL: 500 A @ 125 VAC, p.f. = 0.7 - 0.8 / 1000 A @ 125 VAC / 500 A @ 250 VAC

Packaging Unit

Small Box Pack (10 pcs.)
 xxxx.xxxx.G Bulk 128 x 91 x 60 mm (1000 pcs.)

Time-Current Curves



Miniature Fuse with Pigtail, 5.4 x 22.5 mm, Quick-Acting F, H, 250 VAC



IEC 60127-2 · 250 VAC · Quick-Acting F



Description

- IEC Standard Fuse
- H = High Breaking Capacity (Ceramic Tube)

Standards

- IEC 60127-2/1
- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- UL File Number: E41599

Applications

- Primary Protection on PCB

References

[General Product Information](#)
[Packaging Details](#)

Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

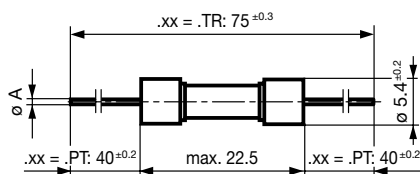
Technical Data

Rated Voltage	250 VAC
Rated Current	0.5 - 16 A
Breaking Capacity	500 A - 1500 A
Characteristic	Quick-Acting F
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Tube	Ceramic
Material: Endcaps	Nickel-Plated Copper Alloy
Material: Axial Leads	Tin-Plated Copper
Unit Weight	1.67 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	, Current Rating, Voltage Rating, Characteristic, Breaking Capacity, Approvals

Soldering Methods	Wave, Iron
Solderability	235 °C / 2 sec acc. to IEC 60068-2-20, Test Ta, method 1
Resistance to Soldering Heat	260 °C / 5 sec acc. to IEC 60068-2-20, Test Tb, method 1A

Dimensions

Length 22.5 mm



$I_n \leq 6.3 \text{ A}$: $\varnothing A = 0.65 \text{ mm}$

$8 \text{ A} \leq I_n \leq 12.5 \text{ A}$: $\varnothing A = 0.8 \text{ mm}$

$I_n \geq 16 \text{ A}$: $\varnothing A = 1.0 \text{ mm}$

Pre-Arcing Time

Rated Current I _n	1.5 x I _n min.	2.1 x I _n max.	2.75 x I _n min.	2.75 x I _n max.	4.0 x I _n min.	4.0 x I _n max.	10.0 x I _n max.
0.5 A - 4 A	60 min	30 min	10 ms	2 s	3 ms	300 ms	20 ms
5 A - 6.3 A	60 min	30 min	10 ms	3 s	3 ms	300 ms	20 ms
8 A - 10 A	30 min	30 min	40 ms	20 s	10 ms	1 s	30 ms
12.5 A - 16 A 12.5	15 min	30 min	40 ms	20 s	10 ms	1 s	30 ms

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 I _n max. [mV]	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipation 1.5 I _n max. [mW]	Power Dissipation 1.5 I _n typ. [mW]	Melting I ² t 10.0 I _n typ. [A ² s]	 US	Order Number
0.5	250	1)	1800	830	2500	2400	0.098	●	0001.1001.xx
0.63	250	1)	1500	800	2500	2400	0.207	●	0001.1002.xx
0.8	250	1)	1200	580	2500	2400	0.469	●	0001.1003.xx
1	250	1)	1000	600	2500	2500	0.75	●	0001.1004.xx
1.25	250	1)	800	270	4000	1000	0.538	●	0001.1005.xx
1.6	250	1)	600	350	4000	1600	0.755	●	0001.1006.xx
2	250	1)	500	260	4000	1600	2	●	0001.1007.xx
2.5	250	1)	400	260	4000	1900	3.28	●	0001.1008.xx
3.15	250	1)	350	210	4000	1900	6.78	●	0001.1009.xx
4	250	1)	300	200	4000	2400	12.6	●	0001.1010.xx
5	250	1)	250	160	4000	2400	30.8	●	0001.1011.xx
6.3	250	1)	200	150	4000	3200	36.7	●	0001.1012.xx
8	250	1)	200	140	4000	3900	81.9	●	0001.1013.xx
10	250	1)	200	130	4000	4700	141	●	0001.1014.xx
12.5	250	2)	-	110	-	6900	203	●	0001.1015.xx
16	250	2)	-	120	-	7400	461	●	0001.1016.xx

1) IEC: H = 1500 A @ 250 VAC, p.f. = 0.7 - 0.8

1) UL: 10 kA @ 125 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 250 VAC, p.f. = 0.7 - 0.8

2) IEC: 1000 A @ 250 VAC

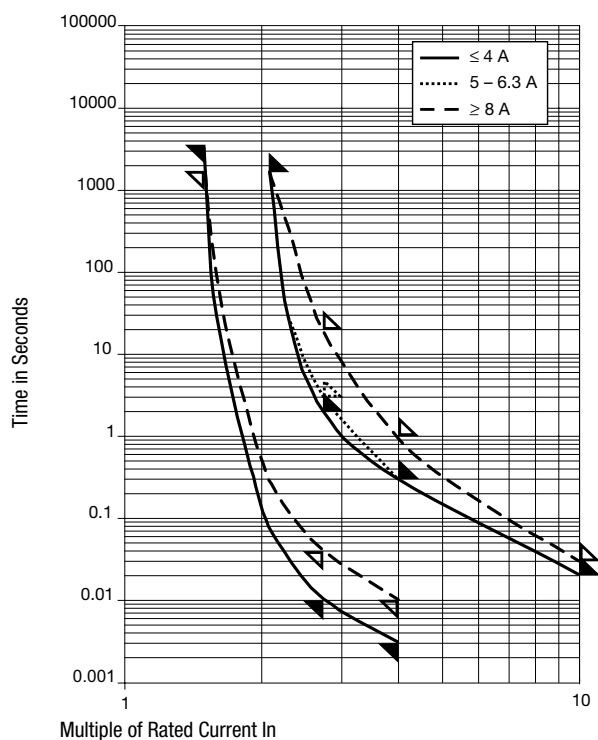
2) UL: 500 A @ 125 VAC, p.f. = 0.7 - 0.8 / 1000 A @ 125 VAC / 500 A @ 250 VAC

Packaging Unit

.xx = .PT Bulk (1000 pcs.)

.xx = .TR Taped 33 cm Reel (1000 pcs.)

Time-Current Curves



Miniature Fuse, 5 x 20 mm, Time-Lag T, H, 250 VAC, UL: 115 V - 300 VDC



IEC 60127-2 · 250 VAC · 300 VDC · Time-Lag T

**Description**

- IEC Standard Fuse
- H = High Breaking Capacity (Ceramic Tube)

Standards

- IEC 60127-2/5
- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- VDE License Number: 40014395
- UL File Number: E41599

Applications

- Primary Protection in Equipment
- Power Supply Adapter for e.g. laptops
- SMPS (Switching Mode Power Supply) for TV's and DVD's

References

General Product Information

Pigtail Type [SPT 5x20 Pigtail](#)

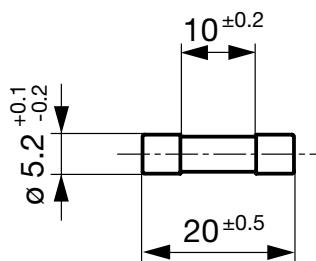
Fuse Kit [Fuse Kit 5x20](#)

Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

Rated Voltage	250 VAC, 300 VDC
Rated Current	0.5 - 16 A
Breaking Capacity	500 A - 1500 A
Characteristic	Time-Lag T
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Tube	Ceramic
Material: Endcaps	Nickel-Plated Copper Alloy
Unit Weight	1.16 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Current Rating, Voltage Rating, Characteristic, Breaking Capacity, Approvals

DimensionsLength  20 mm

Pre-Arcing Time

Rated Current I _n	1.5 x I _n min.	2.1 x I _n max.	2.75 x I _n min.	2.75 x I _n max.	4.0 x I _n min.	4.0 x I _n max.	10.0 x I _n min.	10.0 x I _n max.
0.5 A - 0.8 A	60 min	30 min	250 ms	80 s	50 ms	5 s	5 ms	150 ms
1 A - 3.15 A	60 min	30 min	750 ms	80 s	95 ms	5 s	10 ms	150 ms
4 A - 6.3 A	60 min	30 min	750 ms	80 s	150 ms	5 s	10 ms	150 ms
8 A - 10 A	30 min	30 min	750 ms	80 s	150 ms	5 s	10 ms	150 ms
12.5 A - 16 A	15 min	30 min	750 ms	80 s	150 ms	5 s	20 ms	150 ms

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 I _n max. [mV]	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipation 1.5 I _n max.	Power Dissipation 1.5 I _n typ.	Melting I ² t 10.0 Intyp. [A²s]	     	Order Number			
0.5	250	300	1)	850	360	1600	500	0.5	●	●		0001.2501	
0.63	250	300	1)	650	330	1600	500	1.55	●	●		0001.2502	
0.8	250	300	1)	500	260	1600	500	2.3	●	●		0001.2503	
1	250	300	1)	350	180	2500	500	1.1	●	●	●	●	0001.2504
1.25	250	300	1)	300	150	2500	500	1.86	●	●	●	●	0001.2505
1.6	250	300	1)	200	130	2500	500	4.35	●	●	●	●	0001.2506
2	250	300	1)	190	120	2500	600	9.2	●	●	●	●	0001.2507
2.5	250	300	1)	180	100	2500	600	11.7	●	●	●	●	0001.2508
3.15	250	300	1)	140	100	4000	800	33.7	●	●	●	●	0001.2509
4	250	150	2)	100	90	4000	900	62.4	●	●	●	●	0001.2510
5	250	150	2)	100	90	4000	1200	97.5	●	●	●	●	0001.2511
6.3	250	150	2)	100	70	4000	1200	171	●	●	●	●	0001.2512
8	250	150	3)	100	70	4000	1300	268		●	●		0001.2513
10	250	150	3)	100	70	4000	2100	400		●	●		0001.2514
12.5	250	125	4)	-	70	-	3100	563		●	●		0001.2515
16	250	125	4)	-	70	-	4000	1500		●	●		0001.2516

1) IEC: H = 1500 A @ 250 VAC, p.f. = 0.7 - 0.8

1) UL: 10 kA @ 125 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 250 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 300 VDC

2) IEC: H = 1500 A @ 250 VAC, p.f. = 0.7 - 0.8

2) UL: 10 kA @ 125 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 250 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 150 VDC

3) IEC: 1000 A @ 250 VAC

3) UL: 1000 A @ 250 VAC, 1500 A @ 150 VDC

4) IEC: 500 A @ 250 VAC

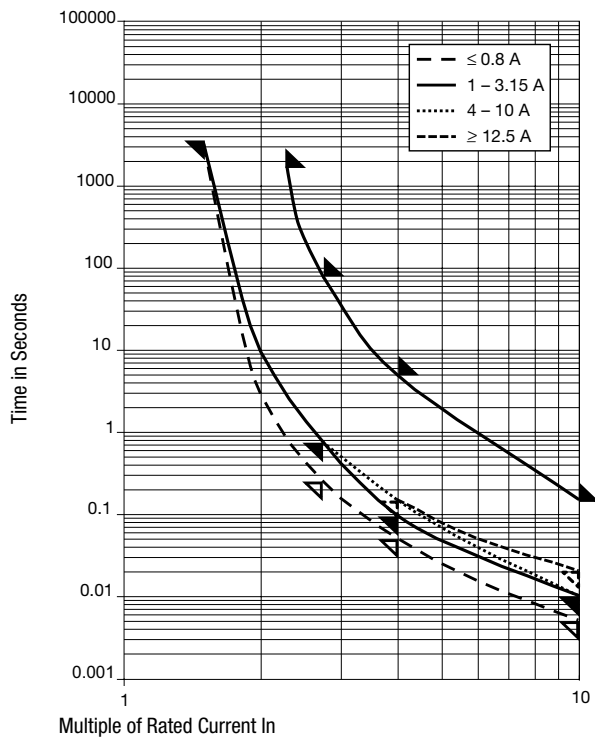
4) UL: 500 A @ 125 VAC, p.f. = 0.7 - 0.8 / 1000 A @ 125 VAC / 500 A @ 250 VAC / 1500 A @ 125 VDC

Packaging Unit

Small Box Pack (10 pcs.)

xxxx.xxxx.G Bulk 128 x 91 x 60 mm (1000 pcs.)

Time-Current Curves



Miniature Fuse with Pigtail, 5.4 x 22.5 mm, Time-Lag T, H, 250 VAC, UL: 115 - 300 VDC



IEC 60127-2 · 250 VAC · 300 VDC · Time-Lag T



Description

- IEC Standard Fuse
- H = High Breaking Capacity (Ceramic Tube)

Standards

- IEC 60127-2/5
- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- UL File Number: E41599

Applications

- Primary Protection on PCB
- Power Supply Adapter for e.g. laptops
- SMPS (Switching Mode Power Supply) for TV's and DVD's

References

[General Product Information](#)
[Packaging Details](#)

Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

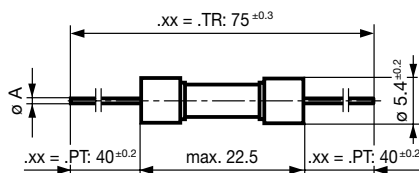
Technical Data

Rated Voltage	250 VAC 300 VDC
Rated Current	0.5 - 16 A
Breaking Capacity	500 A - 1500 A
Characteristic	Time-Lag T
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Tube	Ceramic
Material: Endcaps	Nickel-Plated Copper Alloy
Material: Axial Leads	Tin-Plated Copper
Unit Weight	1.68 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Current Rating, Voltage Rating, Characteristic, Breaking Capacity, Approvals

Soldering Methods	Wave, Iron
Solderability	235 °C / 2 sec acc. to IEC 60068-2-20, Test Ta, method 1
Resistance to Soldering Heat	260 °C / 5 sec acc. to IEC 60068-2-20, Test Tb, method 1A

Dimensions

Length  22.5 mm



$I_n \leq 6.3 \text{ A}$: $\varnothing A = 0.65 \text{ mm}$

$8 \text{ A} \leq I_n \leq 12.5 \text{ A}$: $\varnothing A = 0.8 \text{ mm}$

$I_n \geq 16 \text{ A}$: $\varnothing A = 1.0 \text{ mm}$

Pre-Arcing Time

Rated Current In	1.5 x In min.	2.1 x In max.	2.75 x In min.	2.75 x In max.	4.0 x In min.	4.0 x In max.	10.0 x In min.	10.0 x In max.
0.5 A - 0.8 A	60 min	30 min	250 ms	80 s	50 ms	5 s	5 ms	150 ms
1 A - 3.15 A	60 min	30 min	750 ms	80 s	95 ms	5 s	10 ms	150 ms
4 A - 6.3 A	60 min	30 min	750 ms	80 s	150 ms	5 s	10 ms	150 ms
8 A - 10 A	30 min	30 min	750 ms	80 s	150 ms	5 s	10 ms	150 ms
12.5 A - 16 A	15 min	30 min	750 ms	80 s	150 ms	5 s	20 ms	150 ms

Variants

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 In max. [mV]	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.5 I _n max. [mW]	Power Dissipation 1.5 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]		Order Number
0.5	250	300	1)	850	360	1600	500	0.5	●	0001.2501.xx
0.63	250	300	1)	650	330	1600	500	1.55	●	0001.2502.xx
0.8	250	300	1)	500	260	1600	500	2.3	●	0001.2503.xx
1	250	300	1)	350	180	2500	500	1.1	●	0001.2504.xx
1.25	250	300	1)	300	150	2500	500	1.86	●	0001.2505.xx
1.6	250	300	1)	200	130	2500	500	4.35	●	0001.2506.xx
2	250	300	1)	190	120	2500	600	9.2	●	0001.2507.xx
2.5	250	300	1)	180	100	2500	600	11.7	●	0001.2508.xx
3.15	250	300	1)	140	100	4000	800	33.7	●	0001.2509.xx
4	250	150	2)	100	90	4000	900	62.4	●	0001.2510.xx
5	250	150	2)	100	90	4000	1200	97.5	●	0001.2511.xx
6.3	250	150	2)	100	70	4000	1200	171	●	0001.2512.xx
8	250	150	3)	100	70	4000	1300	268	●	0001.2513.xx
10	250	150	3)	100	70	4000	2100	400	●	0001.2514.xx
12.5	250	125	4)	-	70	-	3100	563	●	0001.2515.xx
16	250	125	4)	-	70	-	4000	1500	●	0001.2516.xx

1) IEC: H = 1500 A @ 250 VAC, p.f. = 0.7 - 0.8

1) UL: 10 kA @ 125 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 250 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 300 VDC

2) IEC: H = 1500 A @ 250 VAC, p.f. = 0.7 - 0.8

2) UL: 10 kA @ 125 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 250 VAC, p.f. = 0.7 - 0.8 / 1500 A @ 150 VDC

3) IEC: 1000 A @ 250 VAC

3) UL: 1000 A @ 250 VAC, 1500 A @ 150 VDC

4) IEC: 500 A @ 250 VAC

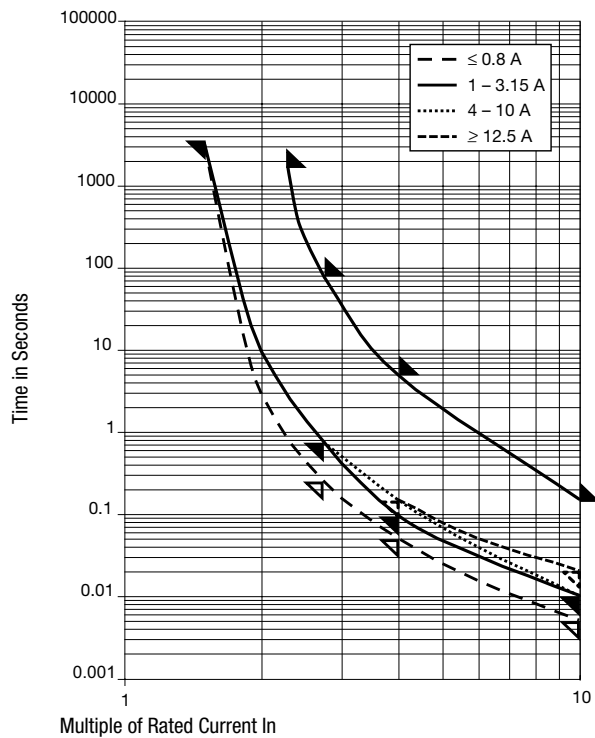
4) UL: 500 A @ 125 VAC, p.f. = 0.7 - 0.8 / 1000 A @ 125 VAC / 500 A @ 250 VAC / 1500 A @ 125 VDC

Packaging Unit

.xx = .PT Bulk (1000 pcs.)

.xx = .TR Taped 33 cm Reel (1000 pcs.)

Time-Current Curves



Miniature Fuse, 5 x 20 mm, Quick-Acting F, cULus, 250 VAC



UL 248-14 · 250 VAC · Quick-Acting F

**Description**

- UL Standard Fuse
- Low Breaking Capacity

Standards

- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- UL File Number: E184831

References

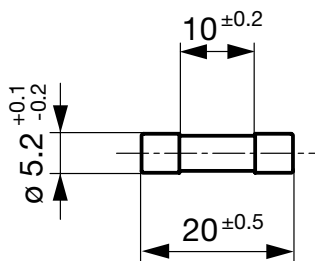
General Product Information
 Pigtail Type [FSK 5x20 Pigtail](#)

Weblinks

Approvals, RoHS, CHINA-RoHS, e-Store, SCHURTER-Stock-Check, Distributor-Stock-Check

Technical Data

Rated Voltage	250 VAC
Rated Current	0.05 - 6.3 A
Breaking Capacity	32 A - 10 kA
Characteristic	Quick-Acting F
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/21 acc. to IEC 60068-1
Material: Tube	Glass
Material: Endcaps	Nickel-Plated Copper Alloy
Unit Weight	1 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Type, Current Rating, Voltage Rating, Approvals

DimensionsLength  20 mm**Pre-Arcing Time**

Rated Current I _n	1.1 x I _n min.	1.35 x I _n max.	2.0 x I _n max.
0.05 A - 6.3 A	4 h	60 min	120 s

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.0 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]		Order Number
0.05	250	1)	13000	650	0.00078	●	0034.3851
0.063	250	1)	6600	416	0.0014	●	0034.3852
0.08	250	1)	2900	232	0.00077	●	0034.3853
0.1	250	1)	4500	450	0.0015	●	0034.3854
0.125	250	1)	3700	463	0.031	●	0034.3855
0.15	250	1)	2900	435	0.034	●	0034.3856
0.18	250	1)	2100	378	0.033	●	0034.3858
0.2	250	1)	2300	460	0.043	●	0034.3859
0.25	250	1)	2100	525	0.08	●	0034.3860
0.3	250	1)	1200	360	0.07	●	0034.3861
0.315	250	1)	1700	536	0.084	●	0034.3862
0.4	250	1)	370	148	0.03	●	0034.3864
0.45	250	1)	240	108	0.058	●	0034.3865
0.5	250	1)	280	140	0.072	●	0034.3866
0.63	250	1)	260	164	0.1	●	0034.3867
0.7	250	1)	270	189	0.28	●	0034.3869
0.75	250	1)	230	173	0.31	●	0034.3870
0.8	250	1)	240	192	0.4	●	0034.3871
1	250	1)	230	230	0.68	●	0034.3872
1.2	250	2)	160	192	0.98	●	0034.3873
1.25	250	2)	160	200	0.97	●	0034.3874
1.5	250	2)	160	240	1.59	●	0034.3875
1.6	250	2)	140	224	1.52	●	0034.3876
2	250	2)	200	400	2.93	●	0034.3877
2.5	250	2)	140	350	4.6	●	0034.3879
3	250	2)	120	360	6.8	●	0034.3880
3.15	250	2)	130	410	9.72	●	0034.3881
3.5	250	2)	130	455	9.75	●	0034.3882
4	250	3)	120	480	13.31	●	0034.3883
5	250	3)	140	700	21.4	●	0034.3884
6.3	250	3)	120	756	40.8	●	0034.3885

1) 10 kA @ 125 VAC, p.f. = 0.7 - 0.8 / 35 A @ 250 VAC, p.f. = 0.7 - 0.8

2) 10 kA @ 125 VAC, p.f. = 0.7 - 0.8 / 100 A @ 250 VAC, p.f. = 0.7 - 0.8

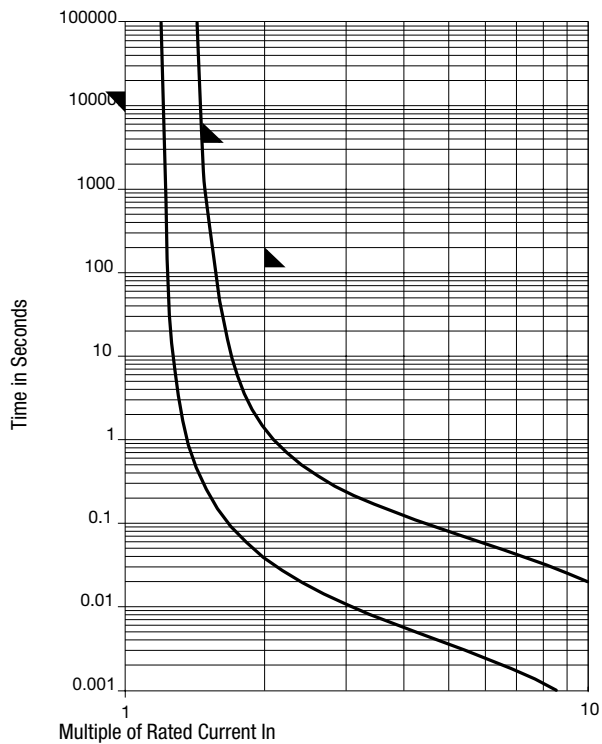
3) 10 kA @ 125 VAC, p.f. = 0.7 - 0.8 / 200 A @ 250 VAC, p.f. = 0.7 - 0.8

Packaging Unit

Small Box Pack (10 pcs.)

xxxx.xxxx.G Bulk 128 x 91 x 60 mm (1000 pcs.)

Time-Current Curves



Miniature Fuse with Pigtail, 5.4 x 22.5 mm, Quick-Acting F, cULus, 250 VAC



UL 248-14 · 250 VAC · Quick-Acting F



Description

- UL Standard Fuse
- Low Breaking Capacity

Standards

- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- UL File Number: E184831

References

[General Product Information](#)
[Packaging Details](#)

Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

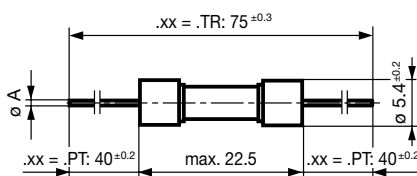
Technical Data

Rated Voltage	250 VAC
Rated Current	0.05 - 6.3 A
Breaking Capacity	32 A - 10 kA
Characteristic	Quick-Acting F
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/21 acc. to IEC 60068-1
Material: Tube	Glass
Material: Endcaps	Nickel-Plated Copper Alloy
Material: Axial Leads	Tin-Plated Copper
Unit Weight	1.5 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Type, Current Rating, Voltage Rating, Approvals

Soldering Methods	Wave, Iron
Solderability	235 °C / 2 sec acc. to IEC 60068-2-20, Test Ta, method 1
Resistance to Soldering Heat	260 °C / 5 sec acc. to IEC 60068-2-20, Test Tb, method 1A

Dimensions

Length  22.5 mm



Pre-Arcing Time

Rated Current I _n	1.1 x I _n min.	1.35 x I _n max.	2.0 x I _n max.
0.05 A - 6.3 A	4 h	60 min	120 s

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.0 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]		Order Number
0.05	250	1)	13000	650	0.00078	●	0034.3851.xx
0.063	250	1)	6600	416	0.0014	●	0034.3852.xx
0.08	250	1)	2900	232	0.00077	●	0034.3853.xx
0.1	250	1)	4500	450	0.0015	●	0034.3854.xx
0.125	250	1)	3700	463	0.031	●	0034.3855.xx
0.15	250	1)	2900	435	0.034	●	0034.3856.xx
0.18	250	1)	2100	378	0.033	●	0034.3858.xx
0.2	250	1)	2300	460	0.043	●	0034.3859.xx
0.25	250	1)	2100	525	0.08	●	0034.3860.xx
0.3	250	1)	1200	360	0.07	●	0034.3861.xx
0.315	250	1)	1700	536	0.084	●	0034.3862.xx
0.4	250	1)	370	148	0.03	●	0034.3864.xx
0.45	250	1)	240	108	0.058	●	0034.3865.xx
0.5	250	1)	280	140	0.072	●	0034.3866.xx
0.63	250	1)	260	164	0.1	●	0034.3867.xx
0.7	250	1)	270	189	0.28	●	0034.3869.xx
0.75	250	1)	230	173	0.31	●	0034.3870.xx
0.8	250	1)	240	192	0.4	●	0034.3871.xx
1	250	1)	230	230	0.68	●	0034.3872.xx
1.2	250	2)	160	192	0.98	●	0034.3873.xx
1.25	250	2)	160	200	0.97	●	0034.3874.xx
1.5	250	2)	160	240	1.59	●	0034.3875.xx
1.6	250	2)	140	224	1.52	●	0034.3876.xx
2	250	2)	200	400	2.93	●	0034.3877.xx
2.5	250	2)	140	350	4.6	●	0034.3879.xx
3	250	2)	120	360	6.8	●	0034.3880.xx
3.15	250	2)	130	410	9.72	●	0034.3881.xx
3.5	250	2)	130	455	9.75	●	0034.3882.xx
4	250	3)	120	480	13.31	●	0034.3883.xx
5	250	3)	140	700	21.4	●	0034.3884.xx
6.3	250	3)	120	756	40.8	●	0034.3885.xx

1) 10 kA @ 125 VAC , p.f. = 0.7 - 0.8 / 35 A @ 250 VAC , p.f. = 0.7 - 0.8

2) 10 kA @ 125 VAC , p.f. = 0.7 - 0.8 / 100 A @ 250 VAC , p.f. = 0.7 - 0.8

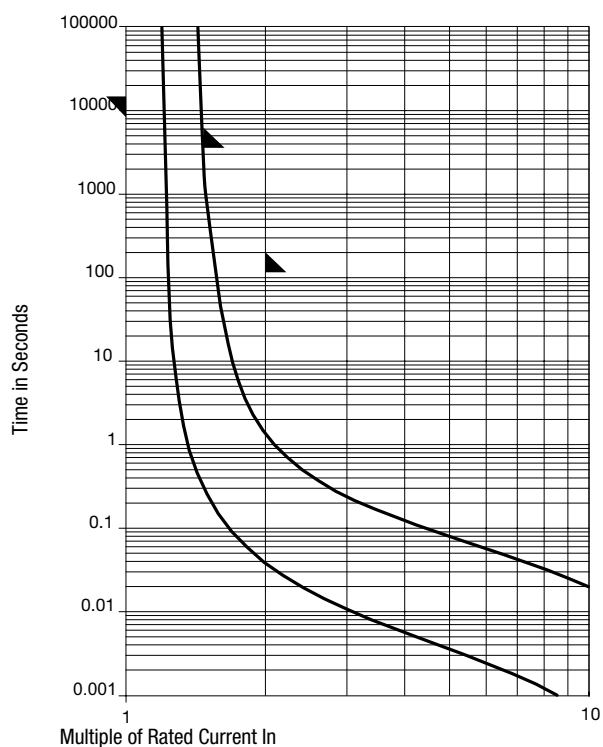
3) 10 kA @ 125 VAC , p.f. = 0.7 - 0.8 / 200 A @ 250 VAC , p.f. = 0.7 - 0.8

Packaging Unit

.xx = .PT Bulk (1000 pcs.)

.xx = .TR Taped 33 cm Reel (1000 pcs.)

Time-Current Curves



Miniature Fuse, 5 x 20 mm, Time-Lag T, cULus, 250 VAC



UL 248-14 · 250 VAC · Time-Lag T

**Description**

- UL Standard Fuse
- Low Breaking Capacity

Standards

- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- UL File Number: E184831

References

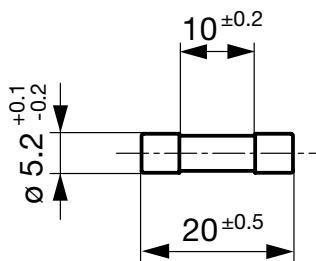
General Product Information
 Pigtail Type [FSL 5x20 Pigtail](#)

Weblinks

Approvals, RoHS, CHINA-RoHS, e-Store, SCHURTER-Stock-Check, Distributor-Stock-Check

Technical Data

Rated Voltage	250 VAC
Rated Current	0.08 - 3 A
Breaking Capacity	35 A - 10 kA
Characteristic	Time-Lag T
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/21 acc. to IEC 60068-1
Material: Tube	Glass
Material: Endcaps	Nickel-Plated Copper Alloy
Unit Weight	1 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Type, Current Rating, Voltage Rating, Approvals

DimensionsLength  20 mm**Pre-Arcing Time**

Rated Current In	1.1 x In min.	1.35 x In max.	2.0 x In min.	2.0 x In max.
0.08 A - 3 A	4 h	60 min	5 s	120 s

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.0 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]		Order Number
0.08	250	1)	1400	112	0.0367	●	0034.3761
0.1	250	1)	900	90	0.128	●	0034.3762
0.125	250	1)	750	94	0.161	●	0034.3763
0.16	250	1)	460	74	0.122	●	0034.3765
0.18	250	1)	680	122	0.393	●	0034.3766
0.2	250	1)	460	92	0.344	●	0034.3767
0.25	250	1)	310	78	0.29	●	0034.3768
0.315	250	1)	250	79	0.345	●	0034.3769
0.4	250	1)	280	112	0.337	●	0034.3770
0.5	250	1)	200	100	0.73	●	0034.3771
0.63	250	1)	200	126	3.62	●	0034.3772
0.75	250	1)	200	150	5.54	●	0034.3773
0.8	250	1)	200	160	5.12	●	0034.3774
1	250	1)	200	200	4.52	●	0034.3775
1.25	250	2)	230	288	1.54	●	0034.3776
1.5	250	2)	190	285	2.86	●	0034.3777
1.6	250	2)	190	304	2.93	●	0034.3778
2	250	2)	180	360	4.45	●	0034.3779
2.5	250	2)	190	475	9.45	●	0034.3780
3	250	2)	150	450	17.5	●	0034.3781

1) 10 kA @ 125 VAC, p.f. = 0.7 - 0.8 / 35 A @ 250 VAC, p.f. = 0.7 - 0.8

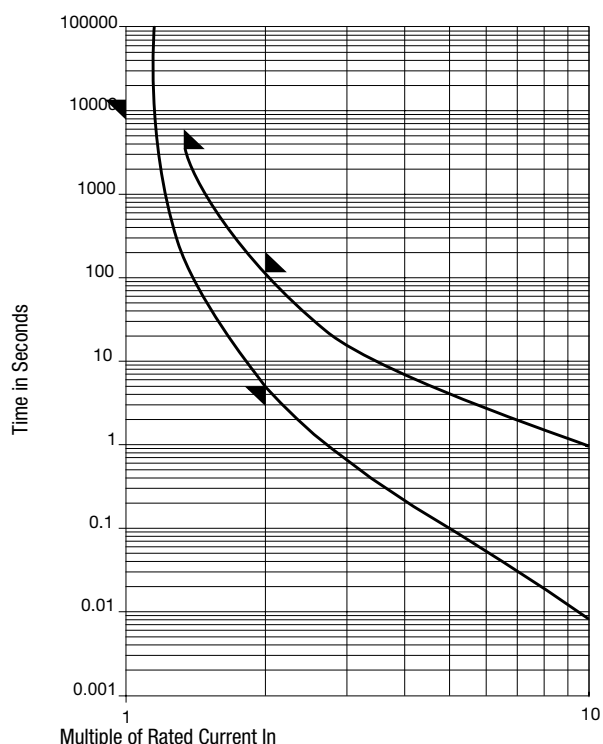
2) 10 kA @ 125 VAC, p.f. = 0.7 - 0.8 / 100 A @ 250 VAC, p.f. = 0.7 - 0.8

Packaging Unit

Small Box Pack (10 pcs.)

xxxx.xxxx.G Bulk 128 x 91 x 60 mm (1000 pcs.)

Time-Current Curves



Miniature Fuse with Pigtail, 5.4 x 22.5 mm, Time-Lag T, cULus, 250 VAC



UL 248-14 · 250 VAC · Time-Lag T



Description

- UL Standard Fuse
- Low Breaking Capacity

Standards

- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- UL File Number: E184831

References

[General Product Information](#)
[Packaging Details](#)

Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

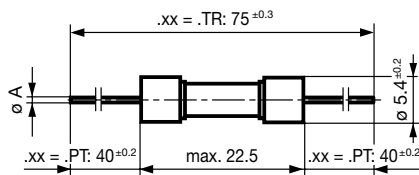
Technical Data

Rated Voltage	250 VAC
Rated Current	0.08 - 3 A
Breaking Capacity	35 A - 10 kA
Characteristic	Time-Lag T
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/21 acc. to IEC 60068-1
Material: Tube	Glass
Material: Endcaps	Nickel-Plated Copper Alloy
Material: Axial Leads	Tin-Plated Copper
Unit Weight	1.5 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Type, Current Rating, Voltage Rating, Approvals

Soldering Methods	Wave, Iron
Solderability	235 °C / 2 sec acc. to IEC 60068-2-20, Test Ta, method 1
Resistance to Soldering Heat	260 °C / 5 sec acc. to IEC 60068-2-20, Test Tb, method 1A

Dimensions

Length  22.5 mm



Pre-Arcing Time

Rated Current In	1.1 x In min.	1.35 x In max.	2.0 x In min.	2.0 x In max.
0.08 A - 3 A	4 h	60 min	5 s	120 s

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.0 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]		Order Number
0.08	250	1)	1400	112	0.0367	●	0034.3761.xx
0.1	250	1)	900	90	0.128	●	0034.3762.xx
0.125	250	1)	750	94	0.161	●	0034.3764.xx
0.16	250	1)	460	74	0.122	●	0034.3765.xx
0.18	250	1)	680	122	0.393	●	0034.3766.xx
0.2	250	1)	460	92	0.344	●	0034.3767.xx
0.25	250	1)	310	78	0.29	●	0034.3768.xx
0.315	250	1)	250	79	0.345	●	0034.3769.xx
0.4	250	1)	280	112	0.337	●	0034.3770.xx
0.5	250	1)	200	100	0.73	●	0034.3771.xx
0.63	250	1)	200	126	3.62	●	0034.3772.xx
0.75	250	1)	200	150	5.54	●	0034.3773.xx
0.8	250	1)	200	160	5.12	●	0034.3774.xx
1	250	1)	200	200	4.52	●	0034.3775.xx
1.25	250	2)	230	288	1.54	●	0034.3776.xx
1.5	250	2)	190	285	2.86	●	0034.3777.xx
1.6	250	2)	190	304	2.93	●	0034.3778.xx
2	250	2)	180	360	4.45	●	0034.3779.xx
2.5	250	2)	190	475	9.45	●	0034.3780.xx
3	250	2)	150	450	17.5	●	0034.3781.xx

1) 10 kA @ 125 VAC , p.f. = 0.7 - 0.8 / 35 A @ 250 VAC , p.f. = 0.7 - 0.8

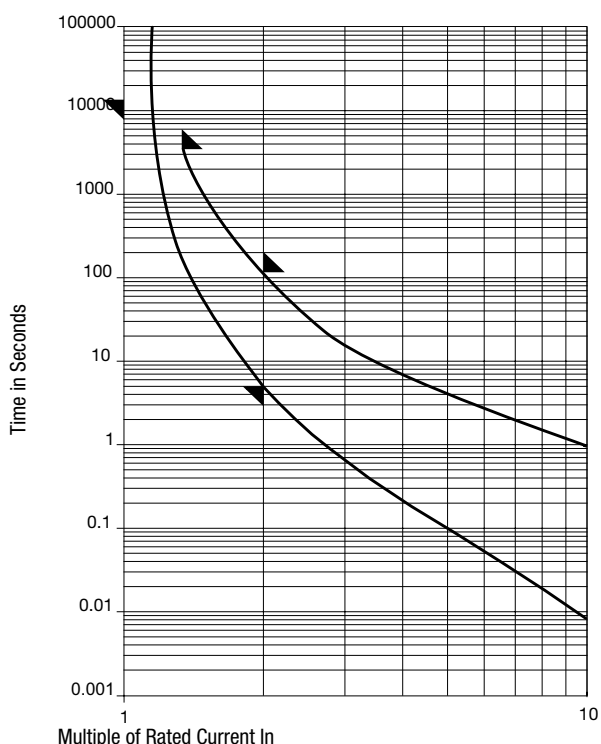
2) 10 kA @ 125 VAC , p.f. = 0.7 - 0.8 / 100 A @ 250 VAC , p.f. = 0.7 - 0.8

Packing Unit

.xx = .PT Bulk (1000 pcs.)

.xx = .TR Taped 33 cm Reel (1000 pcs.)

Time-Current Curves



Miniature Fuse, 5 x 20 mm, Super-Quick-Acting FF, 250 VAC



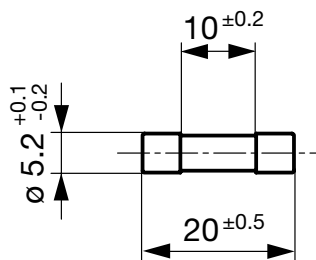
250 VAC · Super-Quick-Acting FF

**Description**

- High Breaking Capacity
- Ceramic Tube

References
[General Product Information](#)
Weblinks
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

Rated Voltage	250 VAC
Rated Current	1.6 - 10 A
Breaking Capacity	1500 A
Characteristic	Super-Quick-Acting FF
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/21 acc. to IEC 60068-1
Material: Tube	Ceramic
Material: Endcaps	Nickel-Plated Copper Alloy
Unit Weight	1.19 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Current Rating, Voltage Rating, Characteristic

DimensionsLength  20 mm**Pre-Arcing Time**

Rated Current In	1.2 x In min.	2.0 x In min.	2.0 x In max.	2.75 x In min.	2.75 x In max.	4.0 x In min.	4.0 x In max.	10.0 x In max.
1.6 A - 10 A	60 min	10 ms	2 s	4 ms	50 ms	2 ms	15 ms	2 ms

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

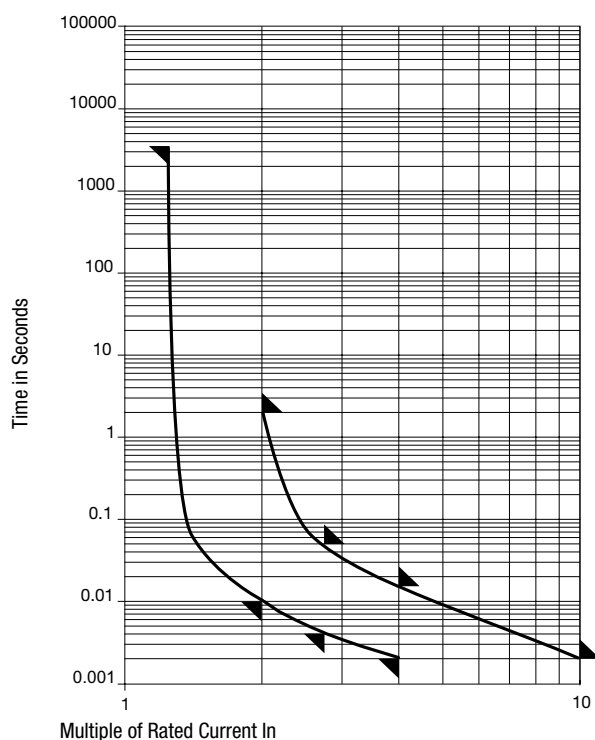
Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 I _n max. [mV]	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipation 1.25 I _n typ. [mW]	Melting I ² t 10.0 I _n Intyp. [A ² s]	Order Number
1.6	250	1)	400	250	600	0.384	0034.0903
2	250	1)	370	200	600	0.484	0034.0904
2.5	250	1)	340	200	800	1.06	0034.0905
3.15	250	1)	310	180	1000	1.26	0034.0906
4	250	1)	280	180	1200	1.28	0034.0907
5	250	1)	250	160	1400	1.78	0034.0908
6.3	250	1)	250	170	2000	5.95	0034.0909
8	250	1)	250	190	2800	8.32	0034.0910
10	250	1)	250	160	2900	17	0034.0911

1) 1500 A @ 250 VAC, p.f. = 0.7 - 0.8

Packaging Unit

Small Box Pack (10 pcs.)
 xxxx.xxxx.G Bulk 128 x 91 x 60 mm (1000 pcs.)

Time-Current Curves



Miniature Fuse, 5 x 20 mm, Medium-Time-Lag M, 250 VAC



250 VAC · Medium-Time-Lag M

**Description**

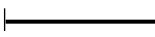
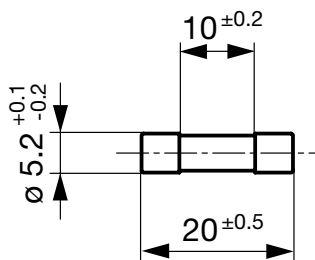
- Low and Medium Breaking Capacity

Standards

- DIN 41571/2

References[General Product Information](#)**Weblinks**[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)**Technical Data**

Rated Voltage	250 VAC
Rated Current	0.315 - 10 A
Breaking Capacity	80 A - 1000 A
Characteristic	Medium-Time-Lag M
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/21 acc. to IEC 60068-1
Material: Tube	Glass / Ceramic
Material: Endcaps	Nickel-Plated Copper Alloy
Unit Weight	0.92 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Current Rating, Voltage Rating, Characteristic

DimensionsLength  20 mm**Pre-Arcing Time**

Rated Current In	1.5 x In min.	2.1 x In max.	4.0 x In min.	4.0 x In max.	10.0 x In min.	10.0 x In max.
0.315 A - 1.25 A	60 min	10 min	40 ms	2 s	5 ms	90 ms
1.6 A - 10 A	60 min	30 min	40 ms	2 s	5 ms	90 ms

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 I _n max. [mV]	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipation 1.5 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]	Order Number
0.315	250	1)	250	200	200	0.268	0034.2511
0.4	250	1)	230	160	200	0.632	0034.2512
0.5	250	1)	210	140	200	0.675	0034.2513
0.63	250	1)	190	140	200	0.905	0034.2514
0.8	250	1)	170	130	200	1.68	0034.2515
1	250	1)	160	70	200	3.6	0034.2516
1.25	250	1)	160	70	200	5.47	0034.2517
1.6	250	2)	160	150	600	3.33	0034.2518
2	250	2)	160	140	700	4.8	0034.2519
2.5	250	2)	160	130	800	10.9	0034.2520
3.15	250	2)	160	120	1000	20.4	0034.2521
4	250	2)	160	120	1300	35.2	0034.2522
5	250	2)	150	100	1400	52.5	0034.2523
6.3	250	2)	140	100	1700	159	0034.2524
8	250	3)	140	90	2300	237	0034.2525
10	250	3)	120	80	2300	430	0034.2526

1) 80 A @ 250 VAC / 80 A @ 125 VDC

2) 1000 A @ 250 VAC / 1000 A @ 125 VDC

3) 300 A @ 250 VAC / 300 A @ 125 VDC

Glass Tube: 0.315 A - 1.25 A

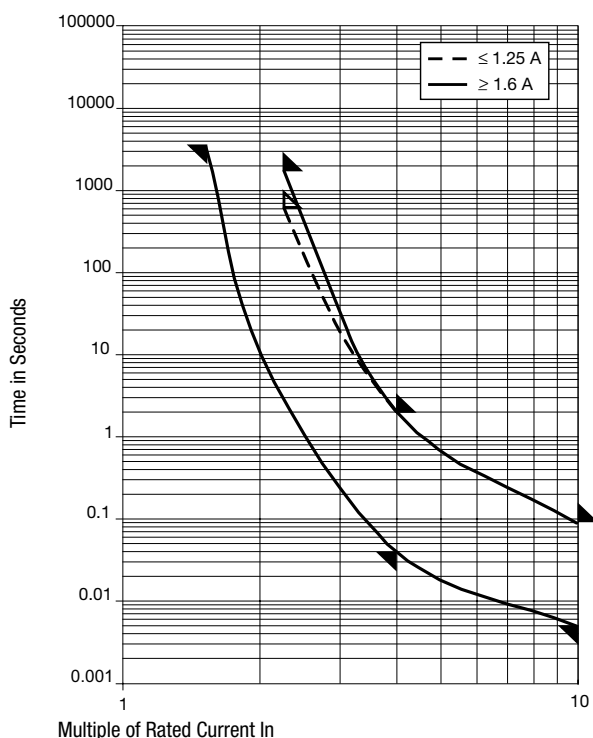
Ceramic Tube: 1.6 A - 10 A

Packaging Unit

Small Box Pack (10 pcs.)

xxxx.xxxx.G Bulk 128 x 91 x 60 mm (1000 pcs.)

Time-Current Curves



Miniature Fuse, 5 x 20 mm, Super-Time-Lag TT, 250 VAC



UL 248-14 · 250 VAC · Super-Time-Lag TT

**Description**

- Low Breaking Capacity
- Glass Tube

Standards

- UL 248-14
- CSA C22.2 no. 248.14

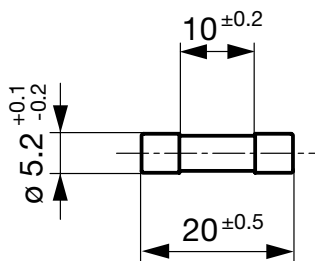
Approvals

- UL File Number: E41599

References
[General Product Information](#)

 Assembled Fuseholder [OGN-SMD](#)
Weblinks
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

Rated Voltage	250 VAC
Rated Current	0.063 - 4 A
Breaking Capacity	35 A
Characteristic	Super-Time-Lag TT
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/21 acc. to IEC 60068-1
Material: Tube	Glass
Material: Endcaps	Nickel-Plated Copper Alloy
Unit Weight	1 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 , Current Rating, Voltage Rating, Characteristic, Approvals

DimensionsLength  20 mm**Pre-Arcing Time**

Rated Current In	1.5 x In min.	2.1 x In max.	2.75 x In min.	2.75 x In max.	4.0 x In min.	4.0 x In max.	10.0 x In min.	10.0 x In max.
0.063 A - 0.1 A	60 min	30 min	3 s	100 s	800 ms	20 s	60 ms	1 s
0.125 A - 4 A	60 min	30 min	5 s	200 s	1.5 s	40 s	150 ms	3 s

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

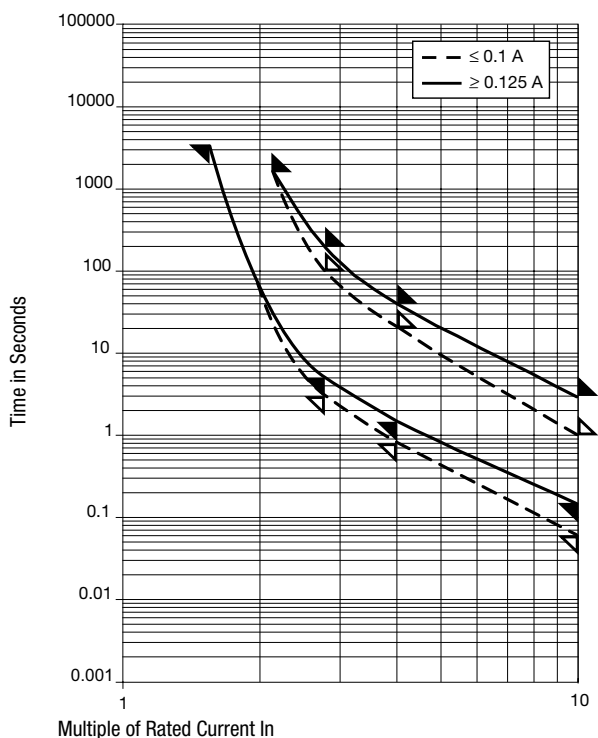
Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 I _n max. [mV]	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipation 1.5 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]		Order Number
0.063	250	1)	5000	1000	220	0.037	●	0034.5031
0.08	250	1)	4500	980	270	0.032	●	0034.5032
0.1	250	1)	4000	870	300	0.14	●	0034.5033
0.125	250	1)	3000	500	270	0.259	●	0034.5034
0.16	250	1)	2000	450	300	1	●	0034.5035
0.2	250	1)	1500	400	330	1.73	●	0034.5036
0.25	250	1)	1200	330	350	2.53	●	0034.5037
0.315	250	1)	1000	300	360	4.17	●	0034.5038
0.4	250	1)	900	225	400	5.2	●	0034.5039
0.5	250	1)	800	250	440	7.9	●	0034.5040
0.63	250	1)	700	200	470	13.7	●	0034.5041
0.8	250	1)	500	160	540	19.6	●	0034.5042
1	250	1)	250	150	540	19.4	●	0034.5043
1.25	250	1)	200	130	570	33.3	●	0034.5044
1.6	250	1)	200	100	650	87	●	0034.5045
2	250	1)	200	100	800	124	●	0034.5046
2.5	250	1)	150	90	850	258	●	0034.5047
3.15	250	1)	100	90	1000	395	●	0034.5048
4	250	1)	100	80	1150	410	●	0034.5049

1) 35 A @ 250 VAC

Packaging Unit

Small Box Pack (10 pcs.)
 xxxx.xxxx.G Bulk 128 x 91 x 60 mm (1000 pcs.)

Time-Current Curves



Miniature Fuse, 5 x 20 mm, Quick-Acting F, NF, 220 VAC



NF C 93-435 · 220 VAC · Quick-Acting F

GAM
T1 NNO**Description**

- Low Breaking Capacity

Standards

- NF C 93-435 - Model HA21
 - Contrôle de Conformité de Qualité (CCQ)

References[General Product Information](#)**Weblinks**

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

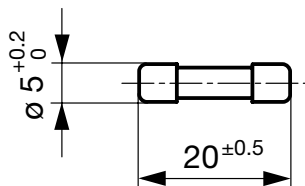
Technical Data

Rated Voltage	32 - 220 VAC
Rated Current	0.02 - 20 A
Breaking Capacity	60 A - 300 A
Characteristic	Quick-Acting F
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 70 °C
Climatic Category	40/070/56 acc. to IEC 60068-1
Material: Tube	Glass
Material: Endcaps	Nickel-Plated Copper Alloy
Unit Weight	1.2 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	HA21, Current Rating

Resistance to Vibration	acc. to NF C 20-706 / IEC 60068-2-6, test Fc
Shocks	acc. to NF C 20-706 / IEC 60068-2-27
Bumps	acc. to NF C 20-729 / IEC 60068-2-29
Salt Mist	acc. to NF C 20-711 / IEC 60068-2-11

Dimensions

Length 20 mm

**Pre-Arcing Time**

Rated Current I _n	1.15 x I _n min.	1.65 x I _n max.	3.0 x I _n max.
0.02 A - 6.3 A	60 min	60 min	200 ms

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Variants

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Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.15 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]	 GAM T1 NNO	Order Number
0.02	220	1)	790	21	0.00027	●	7010.3110
0.031	220	1)	1400	60	0.00029	●	7010.3120
0.04	220	1)	2400	155	0.00017	●	7010.3130
0.05	220	1)	3300	260	0.00017	●	7010.3140
0.063	220	1)	2250	220	0.00046	●	7010.3150
0.08	220	1)	1750	215	0.0012	●	7010.3160
0.1	220	1)	1200	175	0.003	●	7010.3210
0.125	220	1)	1550	295	0.0037	●	7010.3220
0.16	220	1)	1300	320	0.0076	●	7010.3230
0.2	220	1)	1200	375	0.012	● ● ●	7010.3240
0.25	220	1)	1000	400	0.025	● ● ●	7010.3250
0.31	220	1)	475	225	0.018	● ● ●	7010.3260
0.4	220	1)	310	185	0.054	● ● ●	7010.3270
0.5	220	1)	285	215	0.096	● ● ●	7010.3280
0.63	220	1)	310	300	0.14	● ● ●	7010.3290
0.8	220	1)	270	335	0.3	● ● ●	7010.3310
1	220	1)	150	215	0.81	● ● ●	7010.3410
1.25	220	1)	325	660	0.47	● ● ●	7010.3420
1.6	125	2)	300	790	0.93	● ● ●	7010.3430
2	125	2)	185	560	1.9	● ● ●	7010.3440
2.5	125	2)	285	1250	2.5	● ● ●	7010.3450
3.15	125	2)	145	670	7.1	● ● ●	7010.3460
4	125	2)	165	1050	10	● ● ●	7010.3470
5	125	2)	165	1300	18	● ● ●	7010.3480
6.3	125	2)	130	1200	41	● ● ●	7010.3510
8	32	3)	120	1400	79	●	7010.3520
10	32	3)	120	1750	145	●	7010.3530
12.5	32	3)	115	2000	300	●	7010.3620
15	32	3)	125	2750	460	●	7010.3630
20	32	3)	95	2600	1800	●	7010.3650

1) 60 A @ 220 VAC , p.f. = 0.6 - 0.8

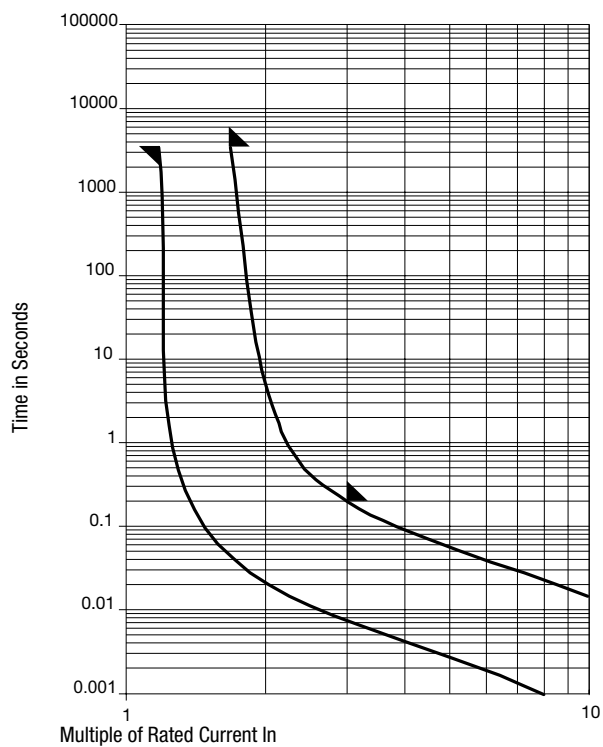
2) 300 A @ 125 VAC , p.f. ≥ 0.95 / Schurter: 60 A @ 220 VAC

3) 300 A @ 32 VAC , p.f. ≥ 0.95

Packaging Unit

Small Box Pack (10 pcs.)

Time-Current Curves



Miniature Fuse, 5 x 20 mm, Super-Time-Lag TT, NF, 220 VAC



NF C 93-435 · 220 VAC · Super-Time-Lag TT

**Description**

- Low Breaking Capacity

Standards

- UL 248-14
 - NF C 93-435 - Model HA20
 - Contrôle de Conformité de Qualité (CCQ)

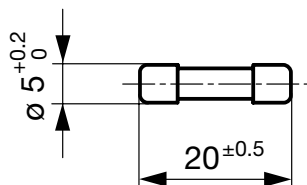
Approvals

- UL File Number: E42088

References[General Product Information](#)**Weblinks**
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

Rated Voltage	32 - 220VAC
Rated Current	0.031 - 15 A
Breaking Capacity	40 A - 100 A
Characteristic	Super-Time-Lag TT
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 70 °C
Climatic Category	40/070/56 acc. to IEC 60068-1
Material: Tube	Glass
Material: Endcaps	Nickel-Plated Copper Alloy
Unit Weight	1.4 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	Type, HA20, Current Rating, Characteristic

Resistance to Vibration	acc. to NF C 20-706 / IEC 60068-2-6, test Fc
Shocks	acc. to NF C 20-706 / IEC 60068-2-27
Salt Mist	acc. to NF C 20-711 / IEC 60068-2-11

DimensionsLength  20 mm**Pre-Arcing Time**

Rated Current In	1.1 x In min.	2.0 x In max.	2.1 x In max.	3.0 x In min.	3.0 x In max.	5.0 x In min.	5.0 x In max.	10.0 x In min.
0.031 A - 1.25 A	-	10 min	-	1 s	60 s	300 ms	10 s	30 ms
1.6 A - 15 A	-	-	10 min	1 s	60 s	300 ms	10 s	30 ms

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Variants

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Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.1 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]				Order Number
0.031	220	1)	3850	145	0.079	●		●	7030.3110
0.04	220	1)	3150	155	0.2	●		●	7030.3120
0.05	220	1)	2600	160	0.22	●	●	●	7030.3130
0.063	220	1)	2000	155	0.35	●	●	●	7030.3140
0.08	220	1)	1850	180	0.26	●	●	●	7030.3150
0.1	220	1)	1600	190	0.028	●	●	●	7030.3210
0.125	220	1)	2000	300	0.61	●	●	●	7030.3220
0.16	220	1)	745	150	0.2	●	●	●	7030.3230
0.2	220	1)	715	180	0.39	●	●	●	7030.3240
0.25	220	1)	480	150	0.4	●	●	●	7030.3250
0.31	220	1)	870	340	0.21	●	●	●	7030.3260
0.4	220	1)	665	340	0.64	●	●	●	7030.3270
0.5	220	1)	555	360	1	●	●	●	7030.3280
0.63	220	1)	460	370	1.6	●	●	●	7030.3290
0.8	220	1)	365	370	4.2	●	●	●	7030.3310
1	220	1)	295	365	9	●	●	●	7030.3320
1.25	220	1)	300	465	7.1	●	●	●	7030.3330
1.6	125	2)	280	535	22	●	●	●	7040.3110
2	125	2)	245	595	43	●	●	●	7040.3120
2.5	125	2)	210	630	128	●	●	●	7040.3130
3.15	125	2)	160	615	370	●	●	●	7040.3140
4	125	3)	165	790	260	●	●	●	7040.3150
5	125	3)	175	1100	440	●	●	●	7040.3160
6.3	125	3)	105	775	800	●	●	●	7040.3170
8	125	4)	105	1000	1400	●			7040.3180
10	125	4)	90	1050	2200	●			7040.3190
12.5	32	5)	55	795	890				7040.3200
15	32	5)	45	745	3400				7040.3210

1) NF: 60 A @ 220 VAC , p.f. = 1.0

1) UL: 4000 A @ 125 VAC , p.f. ≥ 0.9 / 4000 A @ 125 VDC , L/R = 5 ms

2) NF: 40 A @ 125 VAC , p.f. = 0.7 - 0.8

2) UL: 100 A @ 125 VAC , p.f. ≥ 0.9

3) NF: 40 A @ 125 VAC , p.f. = 0.7 - 0.8

3) UL: 50 A @ 125 VAC , p.f. ≥ 0.9

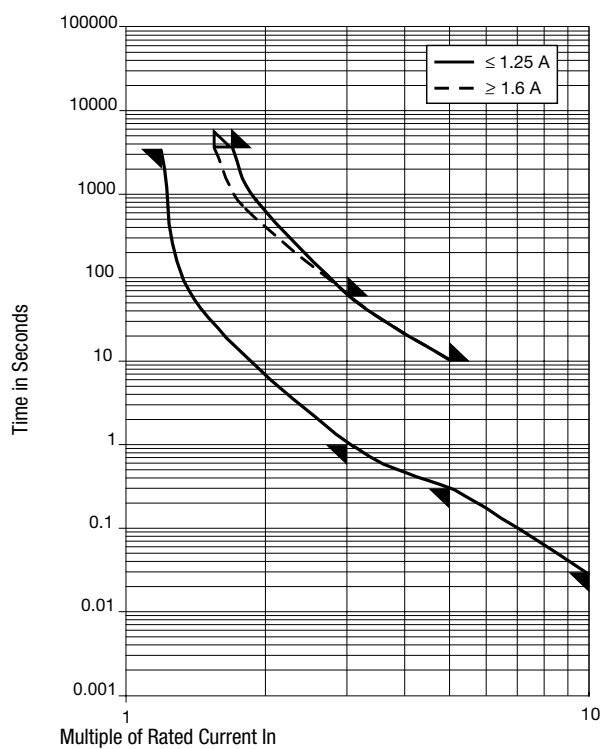
4) UL: 50 @ 125 VAC , p.f. ≥ 0.9

5) 100 A @ 32 VAC , p.f. ≥ 0.9

Packaging Unit

Small Box Pack (10 pcs.)

Time-Current Curves



Miniature Fuse, 6.3 x 32 mm, Quick-Acting F, 250 VAC



250 VAC · Quick-Acting F



Standards

- IEC 60127-2/4

Applications

- Industrial electronic

References

[General Product Information](#)

Weblinks

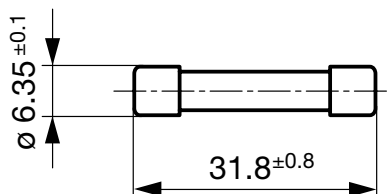
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

Rated Voltage	250 VAC
Rated Current	0.1 - 10 A
Breaking Capacity	35 A - 100 A
Characteristic	Quick-Acting F
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/21 acc. to IEC 60068-1
Material: Tube	Glass
Material: Endcaps	Nickel-Plated Copper Alloy
Unit Weight	1.85 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Current Rating, Voltage Rating, Characteristic, Approvals

Resistance to Vibration	acc. to IEC 60068-2-6, test Fc
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Dimensions

Length  32 mm

Pre-Arcing Time

Rated Current In	1.15 x In min.	2.0 x In max.	2.75 x In min.	2.75 x In max.	4.0 x In min.	4.0 x In max.	10.0 x In max.
0.1 A	60 min	20 s	2 ms	200 ms	1 ms	30 ms	5 ms
0.125 A - 10 A	60 min	20 s	20 ms	1.5 s	8 ms	400 ms	80 ms

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Variants

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Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 I _n max. [mV]	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipation 1.15 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]	Order Number
0.1	250	1)	6000	4200	600	-	0034.1736
0.125	250	1)	5500	3600	600	0.03	0034.1737
0.16	250	1)	5000	1700	600	0.05	0034.1738
0.2	250	1)	4000	3500	1000	0.03	0034.1739
0.25	250	1)	3500	2300	900	0.006	0034.1740
0.315	250	1)	3000	2000	900	0.001	0034.1741
0.4	250	1)	2500	1700	900	0.002	0034.1742
0.5	250	1)	2000	1700	1400	0.08	0034.1743
0.63	250	1)	1800	1400	1500	0.005	0034.1744
0.8	250	1)	1500	1300	1500	3.4	0034.1745
1	250	1)	500	370	500	0.7	0034.1746
1.25	250	1)	400	350	600	1.8	0034.1747
1.6	250	1)	400	350	600	3.1	0034.1748
2	250	1)	300	280	1000	4.5	0034.1749
2.5	250	1)	250	240	900	9.7	0034.1750
3.15	250	1)	250	230	1900	6.6	0034.1751
4	250	2)	250	230	1400	30.6	0034.1752
5	250	2)	200	180	2000	45	0034.1753
6.3	250	2)	200	140	1400	80	0034.1754
8	250	2)	200	200	2700	90	0034.1755
10	250	2)	200	180	3100	160	0034.1756

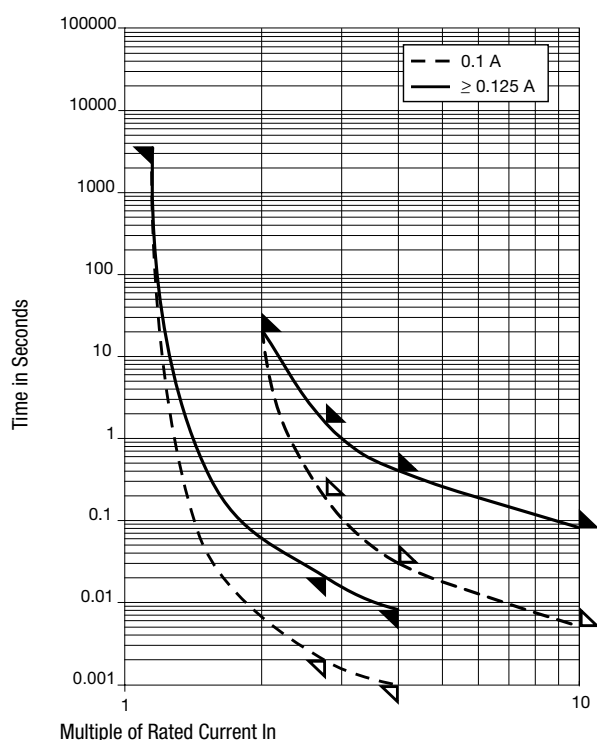
1) IEC: L = 35 A @ 250 VAC

2) IEC: L = 10 I_n @ 250 VAC

Packaging Unit

Small Box Pack (10 pcs.)

Time-Current Curves



Miniature Fuse, 6.3 x 32 mm, Time-Lag T, 250 VAC



250 VAC · Time-Lag T

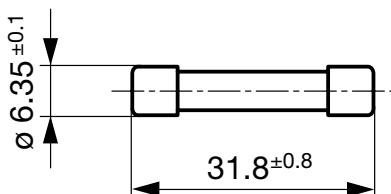
**Applications**

- Industrial electronic

References[General Product Information](#)**Weblinks**[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)**Technical Data**

Rated Voltage	250 VAC
Rated Current	0.02 - 20 A
Breaking Capacity	35 A - 200 A
Characteristic	Time-Lag T
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/21 acc. to IEC 60068-1
Material: Tube	Glass
Material: Endcaps	Nickel-Plated Copper Alloy
Unit Weight	2.02 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Current Rating, Voltage Rating, Characteristic, Approvals

Resistance to Vibration	acc. to IEC 60068-2-6, test Fc
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DimensionsLength  32 mm**Pre-Arcing Time**

Rated Current In	2.0 x In min.	2.0 x In max.	2.75 x In min.	2.75 x In max.	4.0 x In min.	4.0 x In max.	10.0 x In min.	10.0 x In max.
0.02 A - 2 A	800 ms	20 s	150 ms	3 s	60 ms	1 s	10 ms	200 ms
2.5 A - 20 A	800 ms	20 s	200 ms	6 s	80 ms	2 s	15 ms	300 ms

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Variants

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Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 In max. [mV]	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.15 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]	Order Number
0.02	250	1)	5500	2800	100	0.003	0034.3401
0.032	250	1)	5500	2700	100	0.01	0034.3402
0.04	250	1)	5000	2100	100	0.007	0034.3403
0.05	250	1)	5000	1600	100	0.007	0034.3404
0.063	250	1)	4000	1500	100	0.02	0034.3405
0.08	250	1)	3400	1100	100	0.04	0034.3406
0.1	250	1)	2500	940	100	0.04	0034.3407
0.125	250	1)	2000	890	100	0.09	0034.3408
0.16	250	1)	1700	770	100	0.17	0034.3409
0.2	250	1)	1400	840	200	0.3	0034.3410
0.25	250	1)	1200	590	200	0.4	0034.3411
0.315	250	1)	900	200	100	0.13	0034.3412
0.4	250	1)	650	180	100	0.3	0034.3413
0.5	250	1)	550	140	100	0.5	0034.3414
0.63	250	1)	450	140	100	1.2	0034.3415
0.8	250	1)	320	140	100	2.2	0034.3416
1	250	1)	270	140	200	3.6	0034.3417
1.25	250	1)	250	100	200	7	0034.3418
1.6	250	1)	200	100	200	15	0034.3419
2	250	1)	200	90	200	27	0034.3420
2.5	250	1)	200	80	300	48	0034.3421
3.15	250	1)	200	80	300	72	0034.3422
4	250	2)	200	80	400	131	0034.3423
5	250	2)	200	80	500	218	0034.3424
6.3	250	2)	200	80	700	300	0034.3425
8	250	2)	200	120	1500	500	0034.3426
10	250	2)	200	110	1600	670	0034.3427
12.5	250	2)	180	100	1700	1070	0034.3428
16	250	2)	150	90	2200	1720	0034.3429
20	250	2)	150	100	3300	3520	0034.3430

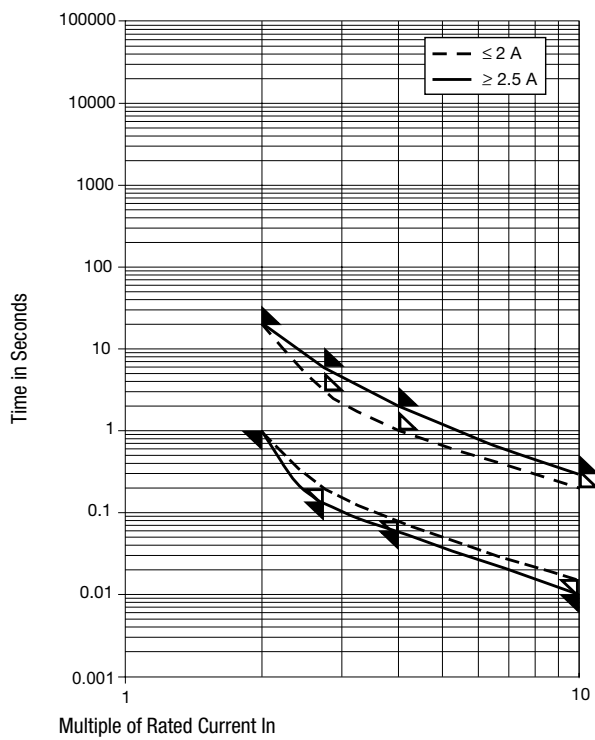
1) 35 A @ 250 VAC, p.f. = 1.0

2) 10 In @ 250 VAC, p.f. = 1.0

Packaging Unit

Small Box Pack (10 pcs.)

Time-Current Curves



Miniature Fuse, 6.3 x 32 mm, Quick-Acting F, Sand, 250 VAC



250 VAC · Quick-Acting F

**Description**

- H = High Breaking Capacity

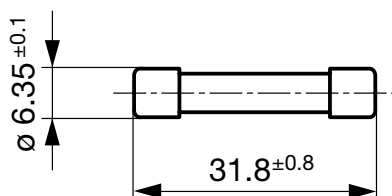
Applications

- Industrial electronic

References[General Product Information](#)**Weblinks**[Approvals, RoHS, CHINA-RoHS, e-Store, SCHURTER-Stock-Check, Distributor-Stock-Check](#)**Technical Data**

Rated Voltage	250 VAC
Rated Current	0.5 - 20 A
Breaking Capacity	1000 A - 1500 A
Characteristic	Quick-Acting F
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/21 acc. to IEC 60068-1
Material: Tube	Glass with sand filling
Material: Endcaps	Nickel-Plated Copper Alloy
Unit Weight	2.51 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 , Current Rating, Voltage Rating, Characteristic, Approvals

Resistance to Vibration	acc. to IEC 60068-2-6, test Fc
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DimensionsLength  32 mm**Pre-Arcing Time**

Rated Current I _n	1.5 x I _n min.	2.1 x I _n max.	2.75 x I _n min.	2.75 x I _n max.	4.0 x I _n min.	4.0 x I _n max.	10.0 x I _n max.
0.5 A - 4 A	60 min	60 min	70 ms	5 s	10 ms	150 ms	10 ms
5 A - 20 A	60 min	60 min	150 ms	2 s	25 ms	200 ms	20 ms

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Variants

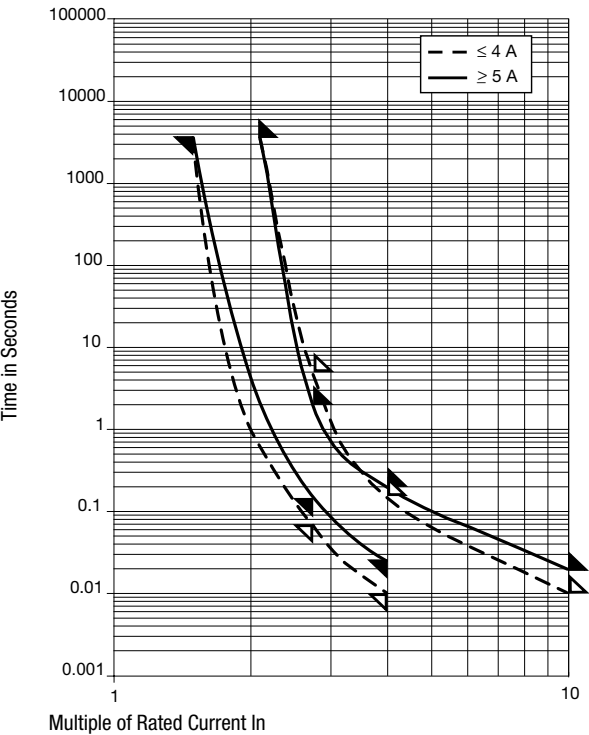
[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 In max. [mV]	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.5 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A²s]	Order Number
0.5	250	1)	3000	1000	3000	0.13	0001.1021
0.63	250	1)	2500	2500	3800	0.003	0001.1022
0.8	250	1)	2200	520	1200	0.06	0001.1023
1	250	1)	1900	410	1200	0.4	0001.1024
1.25	250	1)	1600	1600	5400	-	0001.1025
1.6	250	1)	1300	460	2100	1.2	0001.1026
2	250	1)	1000	340	2000	2.4	0001.1027
2.5	250	1)	700	350	2800	4.1	0001.1028
3.15	250	1)	600	270	3000	7.9	0001.1029
4	250	1)	550	270	3500	15	0001.1030
5	250	1)	500	240	3700	32	0001.1031
6.3	250	1)	450	170	4700	38	0001.1032
8	250	1)	400	250	6700	62	0001.1033
10	250	1)	350	150	5200	140	0001.1034
12.5	250	2)	300	150	7600	230	0001.1035
16	250	2)	250	130	8400	455	0001.1036
20	250	2)	250	130	11500	846	0001.1037

- 1) 1500 A @ 250 VAC , p.f. = 0.7 - 0.8
- 2) 1000 A @ 250 VAC , p.f. = 0.7 - 0.8

Packaging Unit
 Small Box Pack (10 pcs.)

Time-Current Curves



Miniature Fuse, 6.3 x 32 mm, Time-Lag T, Sand, 250 VAC



250 VAC · Time-Lag T

**Description**

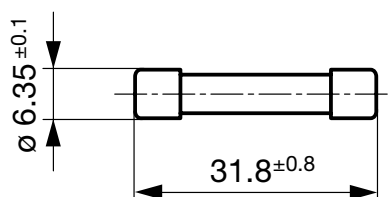
- H = High Breaking Capacity

Approvals

- UL File Number: E42088

References[General Product Information](#)**Weblinks**[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)**Technical Data**

Rated Voltage	150 - 250 VAC
Rated Current	0.5 - 32 A
Breaking Capacity	1000 A - 1500 A
Characteristic	Time-Lag T
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/21 acc. to IEC 60068-1
Material: Tube	Glass with sand filling
Material: Endcaps	Nickel-Plated Copper Alloy
Unit Weight	2.45 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Current Rating, Voltage Rating, Characteristic, Approvals

DimensionsLength  32 mm**Pre-Arcing Time**

Rated Current In	1.5 x In min.	2.1 x In max.	2.75 x In min.	2.75 x In max.	4.0 x In min.	4.0 x In max.	10.0 x In min.	10.0 x In max.
0.5 A - 4 A	60 min	60 min	2 s	40 s	150 ms	2.5 s	5 ms	40 ms
5 A - 32 A	60 min	60 min	3 s	50 s	400 ms	4 s	15 ms	100 ms

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Variants

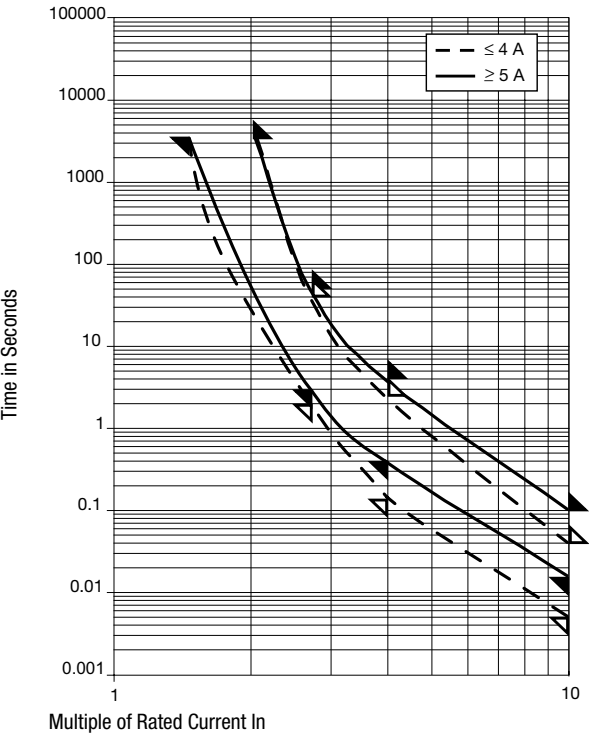
[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 In max. [mV]	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.5 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A²s]		Order Number
0.5	250	1)	2500	2400	3100	0.3	●	0001.2521
0.63	250	1)	2000	560	900	0.3	●	0001.2522
0.8	250	1)	1200	490	1000	0.5	●	0001.2523
1	250	1)	900	350	900	2.4	●	0001.2524
1.25	250	1)	700	170	500	2.5	●	0001.2525
1.6	250	1)	500	240	1000	4.2	●	0001.2526
2	250	1)	400	200	1100	13	●	0001.2527
2.5	250	1)	350	150	1000	18	●	0001.2528
3.15	250	1)	300	160	1500	33	●	0001.2529
4	250	1)	250	130	1500	53	●	0001.2530
5	250	1)	250	110	1500	127	●	0001.2531
6.3	250	1)	250	110	1900	224	●	0001.2532
8	250	1)	200	70	1600	360	●	0001.2533
10	250	1)	200	70	2000	805	●	0001.2534
12.5	250	2)	200	70	2300	1024		0001.2535
16	250	2)	150	70	3800	1690		0001.2536
20	250	2)	150	70	4300	2670		0001.2537
25	150	3)	150	70	5100	1390		0001.2538
32	150	3)	150	70	8600	2600		0001.2539

- 1) IEC: 1500 A @ 250 VAC, p.f. = 0.7 - 0.8
- 1) UL: 1500 A @ 250 VAC, p.f. = 0.7 - 0.8 / 10 kA @ 125 VAC, p.f. = 0.7 - 0.8
- 2) 1000 A @ 250 VAC
- 3) 1000 A @ 150 VAC

Packing Unit
Small Box Pack (10 pcs.)

Time-Current Curves



Miniature Fuse, 6.3 x 32 mm, Quick-Acting F, UL, 250 VAC



UL 248-14 · 250 VAC · Quick-Acting F

**Description**

- UL Standard Fuse
- Glass Tube

Standards

- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- UL File Number: E42088

References

[General Product Information](#)

Weblinks

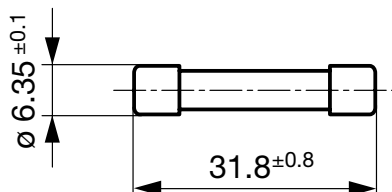
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

Rated Voltage	125 - 250 VAC
Rated Current	0.1 - 15 A
Breaking Capacity	200 A - 10 kA
Characteristic	Quick-Acting F
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	55/125/21 acc. to IEC 60068-1
Material: Tube	Glass
Material: Endcaps	Nickel-Plated Copper Alloy
Unit Weight	1.8 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	Current Rating, Voltage Rating, Characteristic, Approvals

Dimensions

Length  32 mm

**Pre-Arcing Time**

Rated Current I_n	1.1 x I_n min.	1.35 x I_n max.	2.0 x I_n max.
0.1 A - 15 A	4 h	60 min	5 s

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 I _n max. [mV]	Power Dissipation 1.1 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]	 	Order Number
0.1	250	1)	5651	930	0.002	● ●	0034.5107
0.125	250	1)	5200	1050	0.003	● ●	0034.5108
0.2	250	1)	4500	1430	0.01	● ●	0034.5113
0.25	250	1)	4200	1800	0.019	● ●	0034.5114
0.3	250	1)	4100	1880	0.034	● ●	0034.5115
0.375	250	1)	4000	2250	0.055	● ●	0034.5117
0.5	250	1)	450	330	0.11	● ●	0034.5119
0.75	250	1)	389	420	0.17	● ●	0034.5123
1	250	1)	344	560	1.4	● ●	0034.5125
1.25	250	1)	330	600	2.5	● ●	0034.5127
1.6	250	1)	308	750	4.4	● ●	0034.5129
2	250	1)	250	900	7.6	● ●	0034.5131
2.5	250	1)	240	1020	13	● ●	0034.5133
3	250	1)	239	1140	23	● ●	0034.5135
4	250	1)	203	1500	40	● ●	0034.5138
5	250	1)	178	2000	70	● ●	0034.5139
6	250	1)	177	2100	123	● ●	0034.5140
7	250	1)	171	2250	162	● ●	0034.5143
8	250	1)	165	2550	214	● ●	0034.5144
10	250	1)	162	2850	372	● ●	0034.5145
12	125	2)	157	3450	597	● ●	0034.5146
15	125	2)	150	3900	1023	● ●	0034.5147

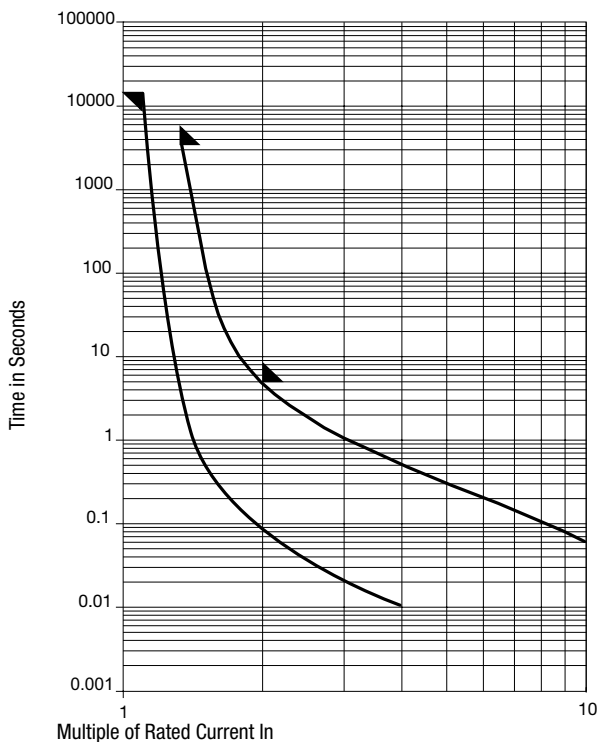
1) 10 kA @ 125 VAC , p.f. = 0.7 - 0.8 / 200 A @ 250 VAC , p.f. = 0.7 - 0.8

2) 10 kA @ 125 VAC , p.f. = 0.7 - 0.8

Packaging Unit

Small Box Pack (10 pcs.)

Time-Current Curves



Miniature Fuse, 6.3 x 32 mm, Time-Lag T, UL, 250 VAC



UL 248-14 · 250 VAC · Time-Lag T

**Description**

- UL Standard Fuse
- Glass Tube

Standards

- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- UL File Number: E42088

References

[General Product Information](#)

Weblinks

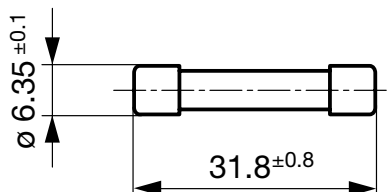
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

Rated Voltage	125 - 250 VAC
Rated Current	0.63 - 15 A
Breaking Capacity	35 A - 10 kA
Characteristic	Time-Lag T
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-55 °C to 125 °C
Climatic Category	055/085/21 acc. to IEC 60068-1
Material: Tube	Glass
Material: Endcaps	Nickel-Plated Copper Alloy
Unit Weight	2 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	Current Rating, Voltage Rating, Characteristic, Approvals

Dimensions

Length  32 mm

**Pre-Arcing Time**

Rated Current I_n	1.1 x I_n min.	1.35 x I_n max.	2.0 x I_n min	2.0 x I_n max
0.02 A - 2 A	4 h	60 min	5 s	30 s
2.5 A - 20 A	4 h	60 min	5 s	30 s

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 In max. [mV]	Power Dissipation 1.1 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]			Order Number
0.1	250	1)	4500	1170	0.24	●	●	0034.5207
0.125	250	1)	4136	1220	0.37	●	●	0034.5208
0.2	250	1)	2808	1350	0.91	●	●	0034.5213
0.25	250	1)	2334	1410	1.42	●	●	0034.5214
0.3	250	1)	1950	1460	2.22	●	●	0034.5215
0.375	250	1)	1800	1580	3.15	●	●	0034.5217
0.5	250	1)	1125	1800	5.41	●	●	0034.5219
0.75	250	1)	931	2030	10.1	●	●	0034.5223
1	250	1)	750	2210	206	●	●	0034.5225
1.25	250	2)	537	2300	32.3	●	●	0034.5227
1.6	250	2)	450	2370	50	●	●	0034.5229
2	250	2)	427	2480	79	●	●	0034.5231
2.5	250	2)	359	2570	123	●	●	0034.5233
3	250	2)	325	2660	192	●	●	0034.5235
4	250	3)	286	2750	300	●	●	0034.5238
5	250	3)	270	2840	469	●	●	0034.5239
6	250	3)	180	1400	455	●	●	0034.5241
7	250	3)	156	1470	592	●	●	0034.5243
8	250	3)	140	1530	769	●	●	0034.5244
10	125	4)	91	2700	1300	●	●	0034.5245
12	125	4)	90	3300	2031	●	●	0034.5246
15	125	4)	90	4500	3377	●	●	0034.5247

1) 10 kA @ 125 VAC, p.f. = 0.7 - 0.8 / 35 A @ 250 VAC, p.f. = 0.7 - 0.8

2) 10 kA @ 125 VAC, p.f. = 0.7 - 0.8 / 35 A @ 250 VAC, p.f. = 0.7 - 0.8

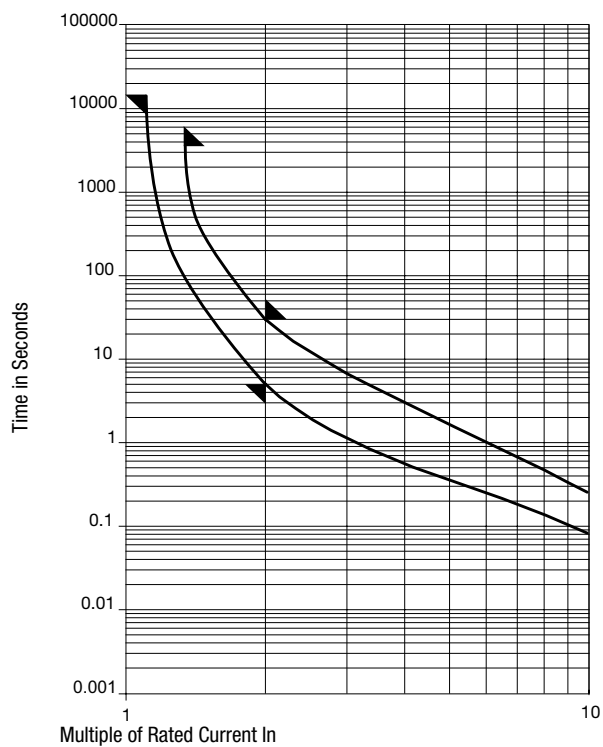
3) 10 kA @ 125 VAC, p.f. = 0.7 - 0.8 / 200 A @ 250 VAC, p.f. = 0.7 - 0.8

4) 10 kA @ 125 VAC, p.f. = 0.7 - 0.8

Packaging Unit

Small Box Pack (10 pcs.)

Time-Current Curves



Miniature Fuse, 6.3 x 32 mm, Super-Quick-Acting FF, 250 VAC



250 VAC · Super-Quick-Acting FF

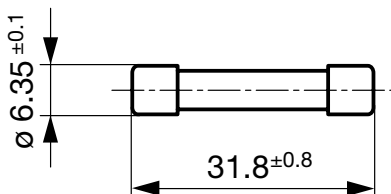
**Applications**

- Semiconductor Protection
- Test equipment

References
[General Product Information](#)
Weblinks
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

Rated Voltage	250 VAC
Rated Current	1.6 - 16 A
Breaking Capacity	1500 A
Characteristic	Super-Quick-Acting FF
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/21 acc. to IEC 60068-1
Material: Tube	Glass
Material: Endcaps	Nickel-Plated Copper Alloy
Unit Weight	2.54 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Current Rating, Voltage Rating, Characteristic, Approvals

Resistance to Vibration	acc. to IEC 60068-2-6, test Fc
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DimensionsLength  32 mm**Pre-Arcing Time**

Rated Current In	1.2 x In min.	2.0 x In min.	2.0 x In max.	2.75 x In min.	2.75 x In max.	4.0 x In min.	4.0 x In max.	10.0 x In max.
1.6 A - 5 A	60 min	10 ms	2 s	4 ms	200 ms	2 ms	40 ms	5 ms
6.3 A - 16 A	60 min	10 ms	2 s	4 ms	50 ms	2 ms	15 ms	2 ms

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Variants

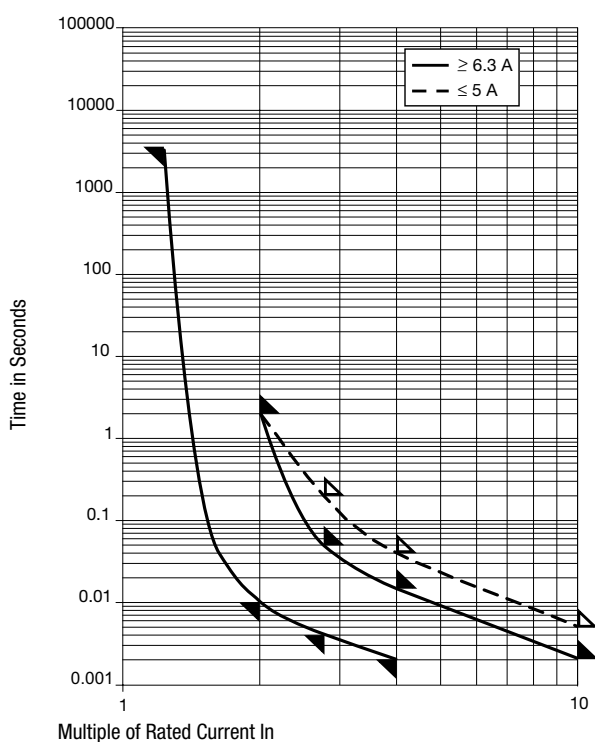
Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 I _n max. [mV]	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipation 1.5 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]	Order Number
1.6	250	1)	700	500	1400	0.5	0034.1001
2	250	1)	600	470	1600	1.2	0034.1002
2.5	250	1)	600	440	2000	2	0034.1003
3.15	250	1)	600	370	2100	4	0034.1004
3.5	250	1)	500	450	2700	7	0034.1005
4	250	1)	500	450	3200	10	0034.1006
5	250	1)	400	330	3300	13	0034.1007
6.3	250	1)	400	200	2400	7	0034.1008
8	250	1)	350	220	3600	8	0034.1009
10	250	1)	350	190	3600	12	0034.1010
12.5	250	1)	300	160	4600	19	0034.1011
16	250	1)	200	180	6600	41	0034.1012

1) 1500 A @ 250 VAC, p.f. = 0.7 - 0.8

Packaging Unit Small Box Pack (10 pcs.)

Time-Current Curves



Miniature Fuse, 6.3 x 32 mm, Quick-Acting F, NNO, 220 VAC



220 VAC · Quick-Acting F



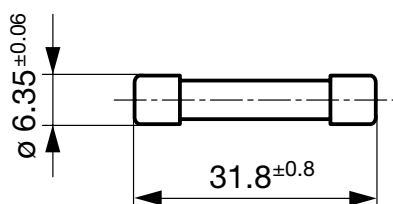
NNO

Description

- Low Breaking Capacity

References[General Product Information](#)**Weblinks**[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)**Technical Data**

Rated Voltage	125 - 220 VAC
Rated Current	0.04 - 20 A
Breaking Capacity	100 A - 500 A
Characteristic	Quick-Acting F
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/56 acc. to IEC 60068-1
Material: Tube	Glass
Unit Weight	1.5 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	Current Rating

DimensionsLength  32 mm**Pre-Arcing Time**

Rated Current I_n	$1.1 \times I_n$ min.	$1.7 \times I_n$ max.
0.04 A - 20 A	60 min	60 min

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Variants

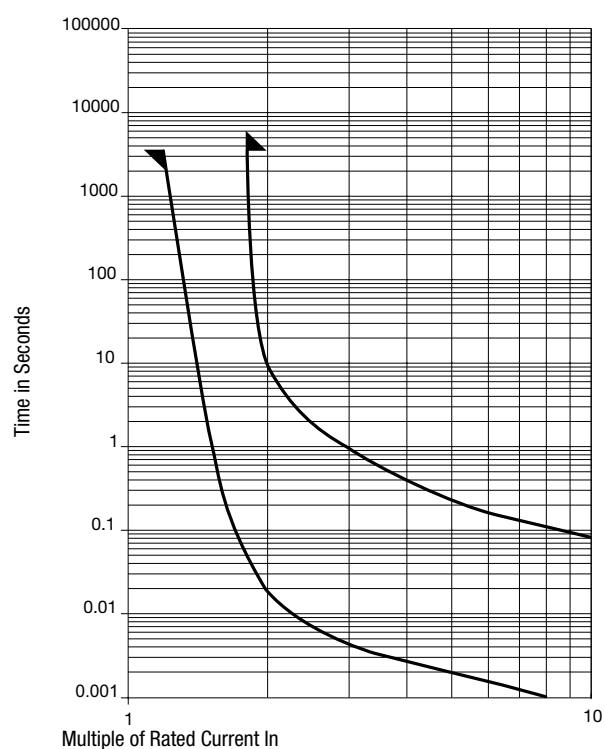
Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	NNO	Order Number
0.04	220	1)	3800	●	7015.1130
0.05	220	1)	3100	●	7015.1140
0.063	220	1)	4800	●	7015.1150
0.08	220	1)	2860	●	7015.1160
0.1	220	1)	2400	●	7015.1210
0.125	220	1)	2300	●	7015.1220
0.16	220	1)	2500	●	7015.1230
0.2	220	1)	1750	●	7015.1240
0.25	220	1)	2200	●	7015.1250
0.31	220	1)	3200	●	7015.1270
0.4	220	1)	2370	●	7015.1280
0.5	220	1)	2370	●	7015.1290
0.63	220	1)	2050	●	7015.1320
0.8	220	1)	490	●	7015.1340
1	220	1)	820	●	7015.1350
1.25	220	1)	660	●	7015.1410
1.6	220	1)	710	●	7015.1430
2	220	2)	600	●	7015.1440
2.5	220	2)	350	●	7015.1450
3.15	220	2)	320	●	7015.1470
4	220	2)	420	●	7015.1480
5	220	2)	270	●	7015.1490
6.3	220	2)	210	●	7015.1520
8	125	-	190	●	7015.1540
10	125	-	90	●	7015.1550
12.5	125	-	80	●	7015.1610
16	125	-	80	●	7015.1620
20	125	-	90	●	7015.1660

1) 500 A @ 220 VAC , p.f. $\geq$ 0.92) 100 A @ 220 VAC , p.f. $\geq$ 0.9

Packaging Unit

Small Box Pack (10 pcs.)

Time-Current Curves



Miniature Fuse, 6.3 x 32 mm, Quick-Acting F, 125 VAC, 125 VDC



125 VAC · 125 VDC · Quick-Acting F



NNO

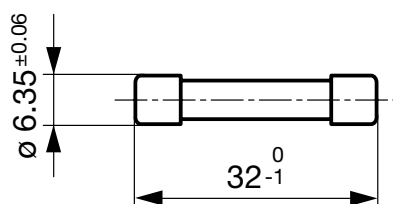
Description

- Low Breaking Capacity
- Type D8M 125V (0.16 - 6.3 A), A12M 125V (10 A)

References
[General Product Information](#)
Weblinks
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

Rated Voltage	125 VAC, 125 VDC
Rated Current	0.16 - 6.3 A
Breaking Capacity	5 kA
Characteristic	Quick-Acting F
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 70 °C
Climatic Category	40/070/56 acc. to IEC 60068-1
Material: Tube	Glass
Unit Weight	2.2 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	Current Rating, Voltage Rating

Resistance to Vibration	acc. to NF C 20-706 / IEC 60068-2-6, test Fc
Shocks	acc. to NF C 20-706 / IEC 60068-2-27
Bumps	acc. to NF C 20-729 / IEC 60068-2-29
Salt Mist	acc. to NF C 20-711 / IEC 60068-2-11

DimensionsLength  32 mm**Pre-Arcing Time**

Rated Current I _n	1.2 x I _n min.	1.65 x I _n max.	3.0 x I _n max.
0.16 A - 6.3 A	60 min	60 min	400 ms

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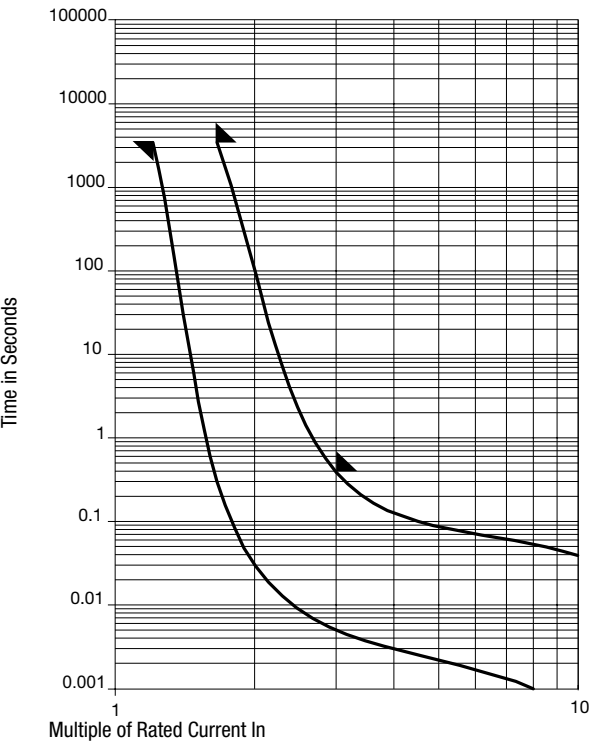
Variants

Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	NNO	Order Number
0.16	125	125	1)	1600	●	7015.6410
0.25	125	125	1)	1400	●	7015.6310
0.4	125	125	1)	500	●	7015.6320
0.63	125	125	1)	750	●	7015.6330
1	125	125	1)	600	●	7015.6340
1.6	125	125	1)	550	●	7015.6420
2.5	125	125	1)	400	●	7015.6360
4	125	125	1)	300	●	7015.6370
6.3	125	125	1)	250	●	7015.6380

1) 5 kA @ 125 VAC , p.f. = 0.3 - 0.4 / 5 kA @ 125 VDC

Packaging Unit
 Small Box Pack (10 pcs.)

Time-Current Curves



Miniature Fuse, 6.3 x 32 mm, Quick-Acting F, 10 A, 125 VAC, 125 VDC



125 VAC · 125 VDC · Quick-Acting F



NNO

Description

- Low Breaking Capacity
- Type D8M 125V (0.16 - 6.3 A), A12M 125V (10 A)

References

General Product Information

Weblinks

Approvals, RoHS, CHINA-RoHS, e-Store, SCHURTER-Stock-Check, Distributor-Stock-Check

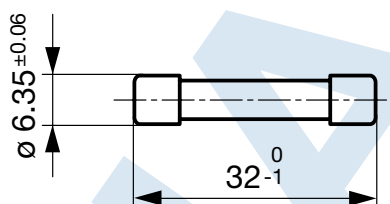
Technical Data

Rated Voltage	125 VAC, 125 VDC
Rated Current	10 A
Breaking Capacity	5 kA
Characteristic	Quick-Acting F
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 70 °C
Climatic Category	40/070/21 acc. to IEC 60068-1
Material: Tube	Ceramic
Unit Weight	3.2 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	Current Rating, Voltage Rating

Resistance to Vibration	acc. to NF C 20-706 / IEC 60068-2-6, test Fc
Shocks	acc. to NF C 20-706 / IEC 60068-2-27
Bumps	acc. to NF C 20-729 / IEC 60068-2-29
Salt Mist	acc. to NF C 20-711 / IEC 60068-2-11

Dimensions

Length | 32 mm

**Pre-Arcing Time**

Rated Current In	1.2 x In min.	1.65 x In max.	3.0 x In max.
10 A	60 min	60 min	400 ms

Variants

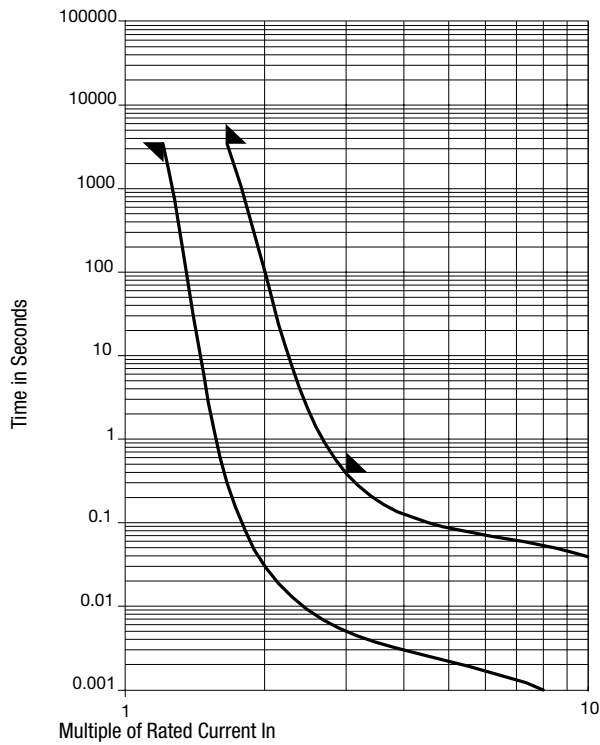
Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	Order Number
10	125	125	1)	200 ●	7023.1710

1) 5 kA @ 125 VAC, p.f. = 0.3 - 0.4 / 5 kA @ 125 VDC

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Packaging Unit Small Box Pack (10 pcs.)

Time-Current Curves



Miniature Fuse, 6.3 x 32 mm, Super-Time-Lag TT, NNO, 220 VAC



220 VAC · Super-Time-Lag TT



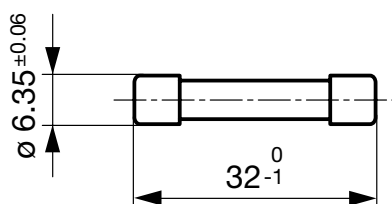
NNO

Description

- Low Breaking Capacity

References[General Product Information](#)**Weblinks**[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)**Technical Data**

Rated Voltage	32 - 220 VAC
Rated Current	0.012 - 30 A
Breaking Capacity	100 A
Characteristic	Super-Time-Lag TT
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/56 acc. to IEC 60068-1
Material: Tube	Glass
Unit Weight	1.5 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	TD3AG, Current Rating, Characteristic

DimensionsLength  32 mm**Pre-Arcing Time**

Rated Current In	1.1 x In min.	1.45 x In max.	2.0 x In min.	2.0 x In max.	3.0 x In min.	3.0 x In max.	5.0 x In min.	5.0 x In max.
0.012 A - 30 A	60 min	60 min	12 s	30 s	4 s	9 s	1 s	4 s

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Variants

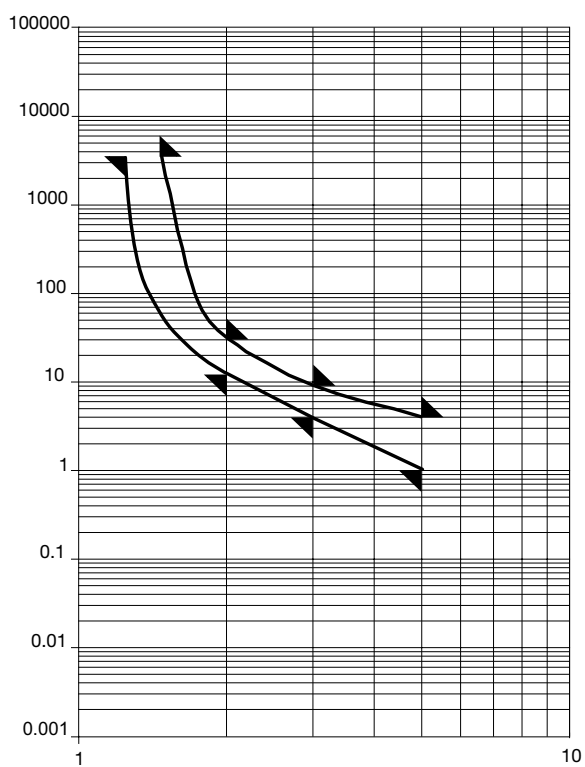
Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	NNO	Order Number
0.012	220	1)	15200	●	7035.1510
0.02	220	1)	16700		7035.1520
0.031	220	1)	8800		7035.1530
0.04	220	1)	8470	●	7035.1540
0.05	220	1)	7260	●	7035.1550
0.063	220	1)	4620	●	7035.1560
0.08	220	1)	4020	●	7035.1570
0.1	220	1)	3300	●	7035.1580
0.125	220	1)	2970	●	7035.1610
0.16	220	1)	1900	●	7035.1620
0.2	220	1)	1540	●	7035.1630
0.25	220	1)	1100	●	7035.1640
0.31	220	1)	920	●	7035.1650
0.4	220	1)	660	●	7035.1660
0.5	220	1)	600		7035.1670
0.63	220	1)	480	●	7035.1680
0.8	220	1)	420		7035.1690
1	220	1)	340	●	7035.1710
1.25	220	1)	290	●	7035.1720
1.6	220	1)	620	●	7045.1110
2	220	1)	470		7045.1120
2.5	220	1)	470	●	7045.1130
3.15	220	1)	370	●	7045.1140
4	220	1)	290		7045.1150
5	220	1)	320		7045.1160
6.3	220	1)	230	●	7045.1170
8	220	1)	170	●	7045.1180
10	220	1)	180	●	7045.1190
12.5	220	1)	120	●	7045.1210
16	220	1)	130	●	7045.1230
20	32	1)	80		7045.1310
25	32	1)	70		7045.1410
30	32	1)	40		7045.1420

1) 100 A @ 220 VAC

Packaging Unit

Small Box Pack (10 pcs.)

Time-Current Curves



Miniature Fuse, 6.3 x 32 mm, Super-Quick-Acting FF, 250 VAC



UL 248-14 · 250 VAC · Super-Quick-Acting FF

**Description**

- High Breaking Capacity
- Current ratings above 12.5 A not China-RoHS compliant

Standards

- UL 248-14

Approvals

- UL File Number: E132506

Applications

- Semiconductor Protection
- Test equipment

References

[General Product Information](#)

Weblinks

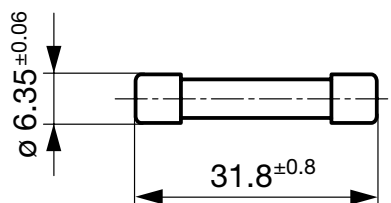
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

Rated Voltage	250 VAC
Rated Current	0.1 - 16 A
Breaking Capacity	200 kA
Characteristic	Super-Quick-Acting FF
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/56 acc. to IEC 60068-1
Material: Tube	Ceramic
Unit Weight	3 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	Type, Current Rating, Voltage Rating, Approvals

Dimensions

Length 32 mm

**Pre-Arcing Time**

Rated Current I _n	1.0 x I _n min.	1.5 x I _n min.	2.1 x I _n max.
0.1 A - 8 A	-	60 min	60 min
10 A - 16 A	60 min	-	60 min

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Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

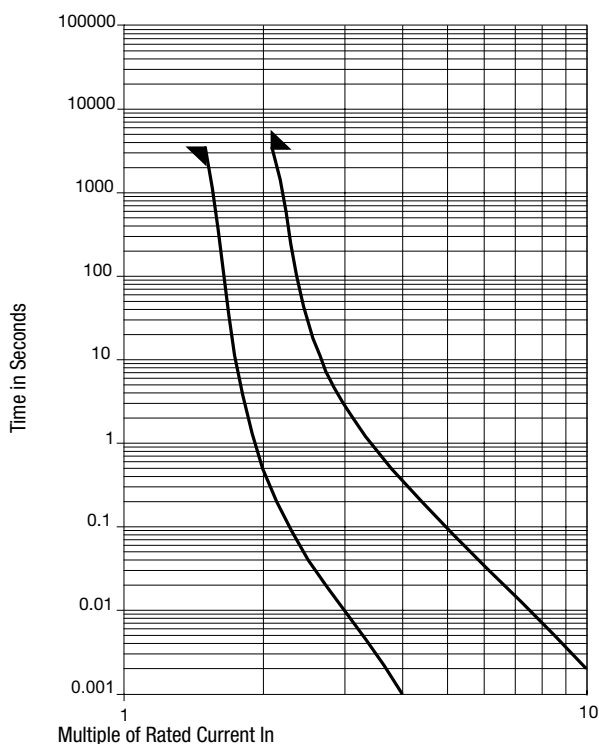
Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.5 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]		Order Number
0.1	250	1)	2600	1500	0.0017	●	7022.0610
0.125	250	1)	2300	1500	0.0033	●	7022.0260
0.16	250	1)	1700	1400	0.0064	●	7022.0270
0.2	250	1)	1500	1200	0.013	●	7022.0280
0.25	250	1)	1500	2200	0.019	●	7022.0290
0.315	250	1)	2150	4100	0.027	●	7022.0300
0.4	250	1)	2750	2850	0.025	●	7022.0310
0.5	250	1)	2850	3650	0.045	●	7022.0320
0.63	250	1)	2000	3200	0.11	●	7022.0330
0.8	250	1)	2050	4150	0.18	●	7022.0340
1	250	1)	1750	4450	0.41	●	7022.0350
1.25	250	1)	740	4150	0.22	●	7022.0360
1.6	250	1)	570	3050	0.5	●	7022.0370
2	250	1)	615	4500	0.89	●	7022.0380
2.5	250	1)	465	4350	1.8	●	7022.0390
3.15	250	1)	440	5000	3.4	●	7022.0400
4	250	1)	335	4800	8.4	●	7022.0410
5	250	1)	395	7700	12	●	7022.0420
6.3	250	1)	170	3000	34	●	7022.0430
8	250	1)	135	3000	12	●	7022.0440
10	250	1)	155	4750	30	●	7022.0450
12.5	250	1)	180	-	26	●	7022.0460
16	250	1)	270	-	39	●	7022.0470

1) 200 kA @ 250 VAC, p.f. ≥ 0.2

Packaging Unit

Small Box Pack (10 pcs.)

Time-Current Curves



Miniature Fuse, 6.3 x 32 mm, Super-Quick-Acting FF, 380 VAC



UL 248-14 · 380 VAC · Super-Quick-Acting FF

**Description**

- High Breaking Capacity
- Current ratings above 12.5 A not China-RoHS compliant

Standards

- UL 248-14

Approvals

- UL File Number: E132506

Applications

- Semiconductor Protection
- Test equipment

References

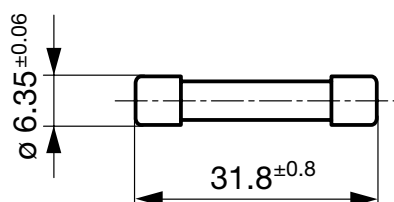
[General Product Information](#)

Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

Rated Voltage	380 VAC
Rated Current	0.1 - 12.5 A
Breaking Capacity	150 kA
Characteristic	Super-Quick-Acting FF
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/56 acc. to IEC 60068-1
Material: Tube	Ceramic
Unit Weight	3 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	Type, Current Rating, Voltage Rating, Approvals

DimensionsLength  32 mm**Pre-Arcing Time**

Rated Current I _n	1.0 x I _n min.	1.5 x I _n min.	2.1 x I _n max.
0.1 A - 8 A	-	60 min	60 min
10 A - 12.5 A	60 min	-	60 min

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Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

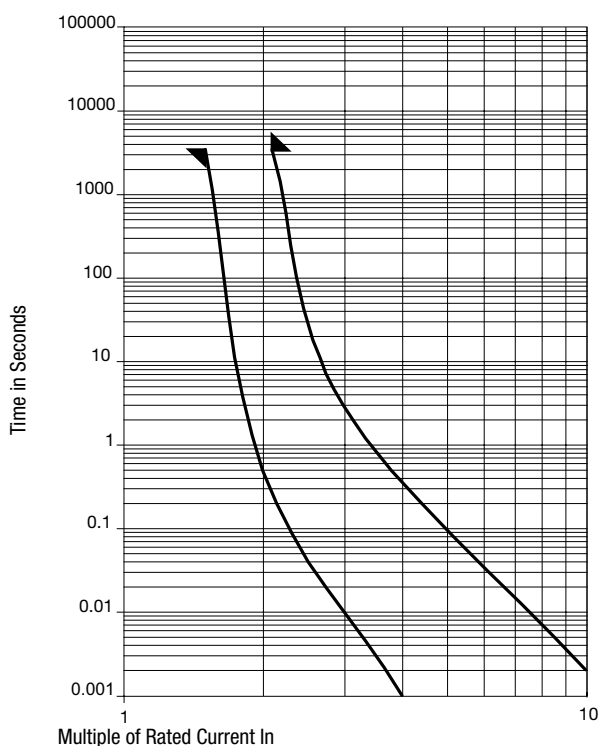
Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipation 1.5 I _n typ. [mW]	Melting I ² t 10.0 I _n Intyp. [A ² s]		Order Number
0.1	380	1)	2600	1500	0.0017	●	7022.0000
0.125	380	1)	2300	1500	0.0033	●	7022.0010
0.16	380	1)	1700	1400	0.0064	●	7022.0020
0.2	380	1)	1500	1200	0.013	●	7022.0030
0.25	380	1)	1500	2200	0.019	●	7022.0040
0.315	380	1)	2150	4100	0.027	●	7022.0050
0.4	380	1)	2750	2850	0.025	●	7022.0060
0.5	380	1)	2850	3650	0.045	●	7022.0070
0.63	380	1)	2000	3200	0.11	●	7022.0080
0.8	380	1)	2050	4150	0.18	●	7022.0090
1	380	1)	1750	4450	0.41	●	7022.0100
1.25	380	1)	740	4150	0.22	●	7022.0110
1.6	380	1)	570	3050	0.5	●	7022.0120
2	380	1)	615	4500	0.89	●	7022.0130
2.5	380	1)	465	4350	1.8	●	7022.0140
3.15	380	1)	440	5000	3.4	●	7022.0150
4	380	1)	335	4800	8.4	●	7022.0160
5	380	1)	395	7700	12	●	7022.0170
6.3	380	1)	170	3000	34	●	7022.0180
8	380	1)	135	3000	12	●	7022.0190
10	380	1)	155	4750	30	●	7022.0200
12.5	380	1)	180	-	26	●	7022.0210

1) 150 kA @ 380 VAC, p.f. ≥ 0.2

Packaging Unit

Small Box Pack (10 pcs.)

Time-Current Curves



Miniature Fuse, 6.3 x 32 mm, Super-Quick-Acting FF, 500 VAC



UL 248-14 · 500VAC · Super-Quick-Acting FF

**Description**

- High Breaking Capacity
- Current ratings above 12.5 A not China-RoHS compliant

Standards

- UL 248-14

Approvals

- UL File Number: E132506

Applications

- Semiconductor Protection
- Test equipment

References

[General Product Information](#)

Weblinks

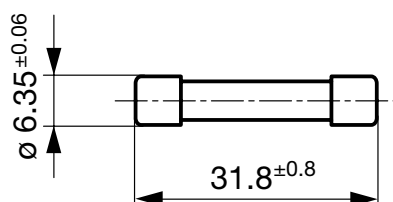
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

Rated Voltage	500VAC
Rated Current	0.1 - 12.5A
Breaking Capacity	10 kA - 150 kA
Characteristic	Super-Quick-Acting FF
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/56 acc. to IEC 60068-1
Material: Tube	Ceramic
Unit Weight	3 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	Type, Current Rating, Voltage Rating, Approvals

Dimensions

Length |—————| 32 mm

**Pre-Arcing Time**

Rated Current In	1.0 x In min.	1.5 x In min.	2.1 x In max.
0.1 A - 8 A	-	60 min	60 min
10 A - 12.5 A	60 min	-	60 min

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Variants

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Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipation 1.5 I _n typ. [mW]	Melting I ² t 10.0 I _n Intyp. [A ² s]		Order Number
0.1	500	1)	2600	1500	0.0017	●	7022.0500
0.125	500	1)	2300	1500	0.0033	●	7022.0510
0.16	500	1)	1700	1400	0.0064	●	7022.0520
0.2	500	1)	1500	1200	0.013	●	7022.0530
0.25	500	1)	1500	2200	0.019	●	7022.0540
0.315	500	1)	2150	4100	0.027	●	7022.0550
0.4	500	1)	2750	2850	0.025	●	7022.0560
0.5	500	1)	2850	3650	0.045	●	7022.0570
0.63	500	1)	2000	3200	0.11	●	7022.0580
0.8	500	1)	2050	4150	0.18	●	7022.0590
1	500	1)	1750	4450	0.41	●	7022.0600
1.25	500	1)	740	4150	0.22	●	7022.0610
1.6	500	1)	570	3050	0.5	●	7022.0620
2	500	1)	615	4500	0.89	●	7022.0630
2.5	500	1)	465	4350	1.8	●	7022.0640
3.15	500	1)	440	5000	3.4	●	7022.0650
4	500	1)	335	4800	8.4	●	7022.0660
5	500	2)	395	7700	12	●	7022.0670
6.3	500	2)	170	3000	34	●	7022.0680
8	500	2)	135	3000	12	●	7022.0690
10	500	2)	155	4750	30	●	7022.0700
12.5	500	2)	180	-	26	●	7022.0710

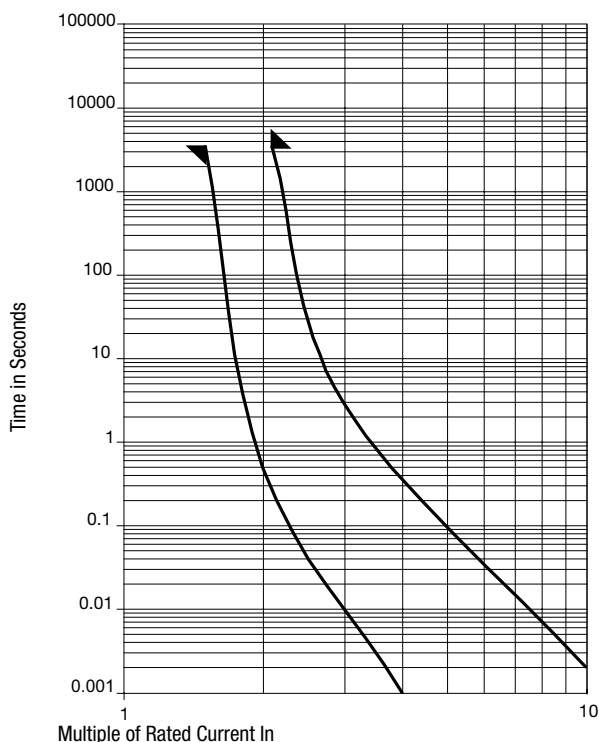
1) 150 kA @ 500 VAC, p.f. ≥ 0.2

2) 10 kA @ 500 VAC, p.f. ≥ 0.7

Packaging Unit

Small Box Pack (10 pcs.)

Time-Current Curves



Miniature Fuse, 6.3 x 32 mm, Super-Quick-Acting FF, 660 VAC



UL 248-14 · 660 VAC · Super-Quick-Acting FF

**Description**

- High Breaking Capacity

Standards

- UL 248-14

Approvals

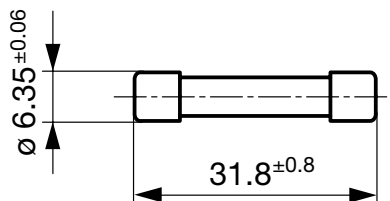
- UL File Number: E132506

Applications

- Semiconductor Protection
- Test equipment

References[General Product Information](#)**Weblinks**
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

Rated Voltage	660 VAC
Rated Current	0.1 - 2 A
Breaking Capacity	30 kA
Characteristic	Super-Quick-Acting FF
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/56 acc. to IEC 60068-1
Material: Tube	Ceramic
Unit Weight	3 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	Type, Current Rating, Voltage Rating, Approvals

DimensionsLength  32 mm**Pre-Arcing Time**

Rated Current In	1.5 x In min.	2.1 x In max.
0.1 A - 2 A	60 min	60 min

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Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

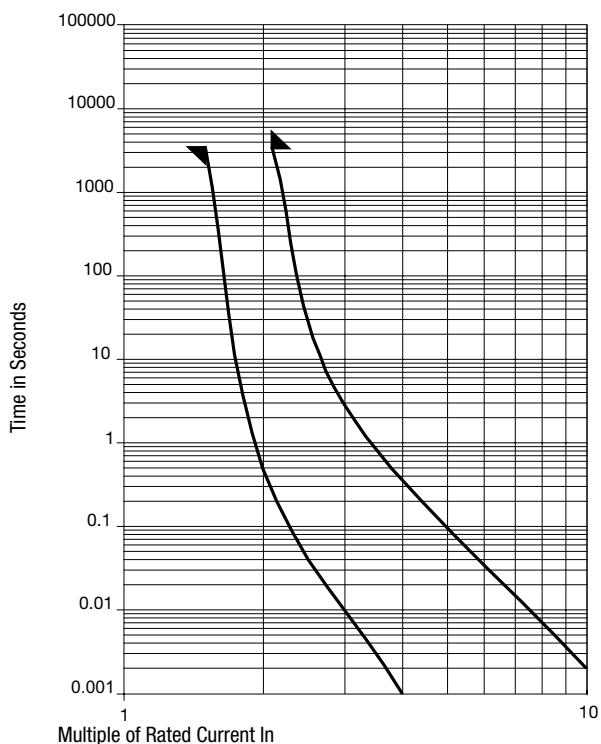
Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipation 1.5 I _n typ. [mW]	Melting I ² t 10.0 I _n typ. [A ² s]		Order Number
0.1	660	1)	2600	1500	0.0017	●	7022.0750
0.125	660	1)	2300	1500	0.0033	●	7022.0760
0.16	660	1)	1700	1400	0.0064	●	7022.0770
0.2	660	1)	1500	1200	0.013	●	7022.0780
0.25	660	1)	1500	2200	0.019	●	7022.0790
0.315	660	1)	2150	4100	0.027	●	7022.8000
0.4	660	1)	2750	2850	0.025	●	7022.0810
0.5	660	1)	2850	3650	0.045	●	7022.0820
0.63	660	1)	2000	3200	0.11	●	7022.0830
0.8	660	1)	2050	4150	0.18	●	7022.0840
1	660	1)	1750	4450	0.41	●	7022.0850
1.25	660	1)	740	4150	0.22	●	7022.0860
1.6	660	1)	570	3050	0.5	●	7022.0870
2	660	1)	615	4500	0.89	●	7022.0880

1) 30 kA @ 660 VAC, p.f. ≥ 0.2

Packaging Unit

Small Box Pack (10 pcs.)

Time-Current Curves



Miniature Fuse, 6.3 x 32 mm, Quick-Acting F, UL, NNO, 250 VAC



UL 248-14 · 250 VAC · Quick-Acting F



Description

- High Breaking Capacity

Standards

- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- UL File Number: E42088

References

[General Product Information](#)

Weblinks

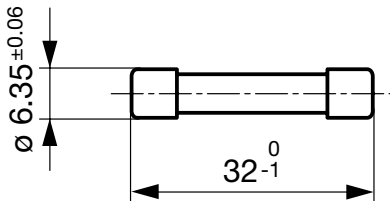
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

Rated Voltage	250 VAC
Rated Current	0.125 - 25 A
Breaking Capacity	35 A - 10 kA
Characteristic	Quick-Acting F
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/21 acc. to IEC 60068-1
Material: Tube	Ceramic
Unit Weight	2.8 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Type, Current Rating, Voltage Rating, Approvals

Dimensions

Length  32 mm



Pre-Arcing Time

Rated Current I_n	$1.1 \times I_n$ min.	$1.35 \times I_n$ max.	$2.0 \times I_n$ max.
0.125 A - 25 A	60 min	60 min	120 s

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Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

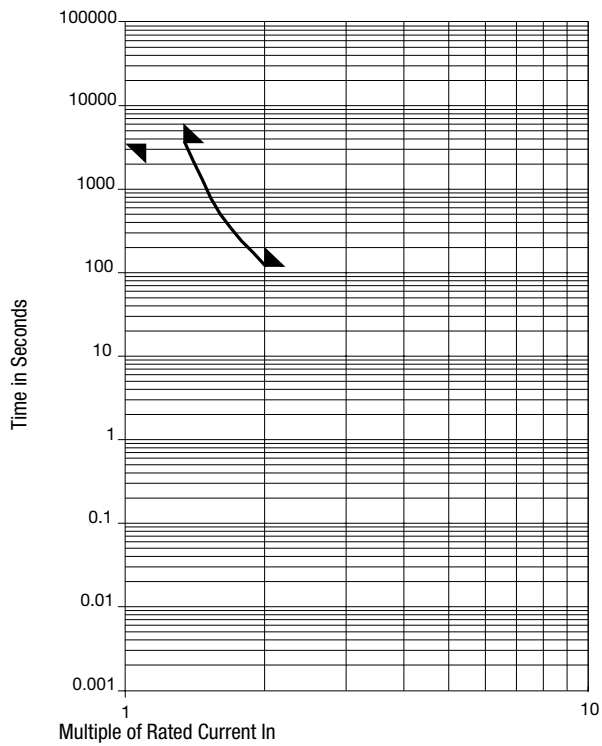
Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.5 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]	  NNO	Order Number
0.125	250	1)	2100	400	0.0043	• • •	7023.0110
0.16	250	1)	1400	345	0.011	• • •	7023.0330
0.2	250	1)	1700	545	0.016	• • •	7023.0340
0.25	250	1)	1800	725	0.027	• • •	7023.0120
0.31	250	1)	1780	930	0.047	• • •	7023.0130
0.4	250	1)	2700	1550	0.05	• • •	7023.0140
0.5	250	1)	2320	1650	0.07	• • •	7023.0150
0.63	250	1)	2100	1900	0.2	• • •	7023.0160
0.8	250	1)	1900	2200	0.39	• • •	7023.0170
1	250	1)	1300	1700	0.1	• • •	7023.0180
1.25	250	2)	650	1250	0.37	• • •	7023.0190
1.6	250	2)	390	900	0.83	• • •	7023.0210
2	250	2)	350	1100	1.5	• • •	7023.0220
2.5	250	2)	320	1250	3.2	• • •	7023.0230
3.15	250	2)	880	3650	6.5	• • •	7023.0240
4	250	2)	250	1550	12	• • •	7023.0250
5	250	2)	220	1700	26	• • •	7023.0260
6.3	250	2)	240	2350	43	• • •	7023.0270
8	250	2)	84	965	10	• • •	7023.0280
10	250	2)	110	1375	22	• • •	7023.0290
12.5	250	2)	85	1500	20	• • •	7023.0310
16	250	2)	115	2300	92	• • •	7023.0320
20	250	2)	110	3250	800	• • •	7023.0350
25	250	2)	150	5100	625	• • •	7023.0360

1) 10 kA @ 125 VAC , p.f. = 0.7 - 0.8 / 35 A @ 250 VAC , p.f. = 0.7 - 0.8

2) 10 kA @ 250 VAC , p.f. = 0.7 - 0.8

Packaging Unit

Small Box Pack (10 pcs.)

Time-Current Curves

Miniature Fuse, 6.3 x 32 mm, Time-Lag T, UL, NNO, 250 VAC



UL 248-14 · 250 VAC · Time-Lag T

**Description**

- Phase-Out: Current Ratings 0.125 - 1.6 A
- High Breaking Capacity

Standards

- UL 248-14

Approvals

- UL File Number: E42088

References

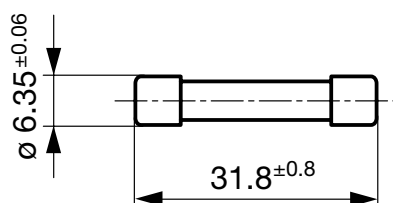
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Weblinks

[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

Rated Voltage	125 - 250 VAC
Rated Current	0.125 - 20 A
Breaking Capacity	35 A - 10 kA
Characteristic	Time-Lag T
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 70 °C
Climatic Category	40/070/21 acc. to IEC 60068-1
Material: Tube	Ceramic
Material: Endcaps	Tin-Plated Nickel
Unit Weight	2.5 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Type, Current Rating, Voltage Rating, Characteristic, Approvals

DimensionsLength  32 mm**Pre-Arcing Time**

Rated Current I_n	1.1 x I_n min.	1.35 x I_n max.	2.0 x I_n min.	2.0 x I_n max.
0.125 A - 3 A	60 min	60 min	5 s	120 s
4 A - 20 A	60 min	60 min	12 s	120 s

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.1 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]	  NNO	Order Number
0.125	250	1)	3200	480	1.8	●	7033.8100
0.16	250	1)	1120	230	2.7	●	7033.8110
0.2	250	1)	1200	290	2	●	7033.8160
0.25	250	1)	560	170	1.6	●	7033.8120
0.4	250	1)	610	310	8.4	●	7033.8130
0.5	250	2)	655	420	2.6	●	7033.8050
0.6	250	2)	615	470	3	●	7033.8140
0.7	250	2)	540	490	5	●	7033.8060
0.8	250	2)	510	530	8.8	●	7033.8070
1	250	2)	385	490	24	● ●	7033.8150
1.25	250	2)	350	560	30	●	7033.8080
1.5	250	2)	345	670	42	●	7033.8090
1.6	250	2)	315	650	47	● ●	7043.8110
2	250	2)	270	530	84	● ●	7043.8120
2.5	250	2)	255	850	170	●	7043.8130
3	250	2)	240	860	200	●	7043.8140
4	250	2)	168	1650	600	● ●	7043.8150
5	250	2)	150	900	690	●	7043.8160
6.3	250	2)	166	1750	1130	●	7043.8170
7	125	2)	210	1970	1360	●	7043.8180
8	125	3)	150	1520	100	●	7043.8190
10	250	3)	165	2150	38	●	7043.8200
12.5	250	4)	150	2500	70	●	7043.8210
16	250	4)	175	3700	330	●	7043.8220
20	250	4)	168	4500	1300	●	7043.8230

1) 10 kA @ 125 VAC , p.f. = 0.7 - 0.8 / 35 A @ 250 VAC , p.f. = 0.7 - 0.8

2) 10 kA @ 125 VAC , p.f. = 0.7 - 0.8 / 200 A @ 250 VAC , p.f. = 0.7 - 0.8

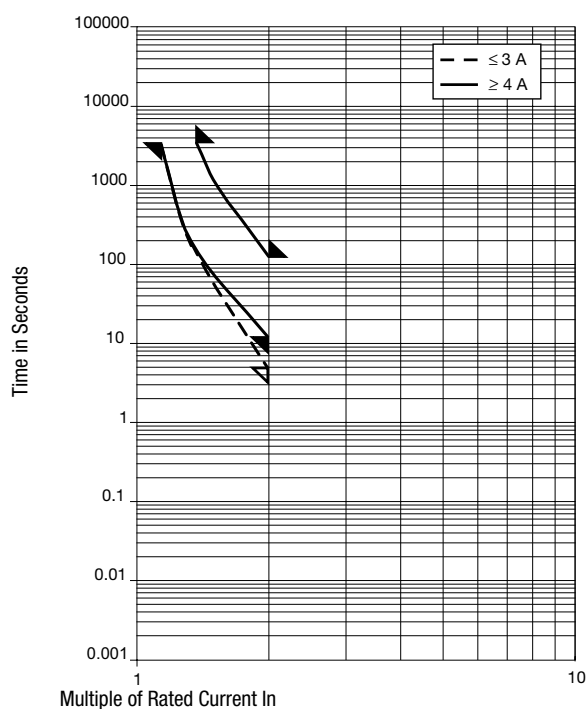
3) 10 kA @ 125 VAC , p.f. = 0.7 - 0.8

4) 10 kA @ 125 VAC , p.f. = 0.7 - 0.8 / 1500 A @ 250 VAC , p.f. = 0.7 - 0.8

Packaging Unit

Small Box Pack (10 pcs.)

Time-Current Curves



Miniature Fuse, 6.3 x 32 mm, Quick-Acting F, GAM T1, 250 VAC, 125 VDC



250 VAC · 125 VDC · Quick-Acting F

GAM
T1 NNO**Description**

- High Breaking Capacity

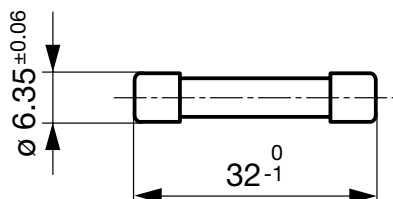
References[General Product Information](#)Corresponding Fuseholder [231549P](#)**Weblinks**[Approvals, RoHS, CHINA-RoHS, e-Store, SCHURTER-Stock-Check, Distributor-Stock-Check](#)**Technical Data**

Rated Voltage	250 VAC, 125 VDC
Rated Current	0.16 - 20 A
Breaking Capacity	1 kA - 10 kA
Characteristic	Quick-Acting F
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 125 °C
Climatic Category	40/125/56 acc. to IEC 60068-1
Material: Tube	Ceramic
Unit Weight	3 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	Current Rating, Voltage Rating, HA39

Resistance to Vibration	acc. to NF C 20-706 / IEC 60068-2-6, test Fc
Shocks	acc. to NF C 20-706 / IEC 60068-2-27
Bumps	acc. to NF C 20-729 / IEC 60068-2-29
Salt Mist	acc. to NF C 20-711 / IEC 60068-2-11

Dimensions

Length 32 mm

**Pre-Arcing Time**

Rated Current I_n	1.1 x I_n min.	1.7 x I_n max.	3.0 x I_n max.
0.16 A - 20 A	60 min	60 min	10 s

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

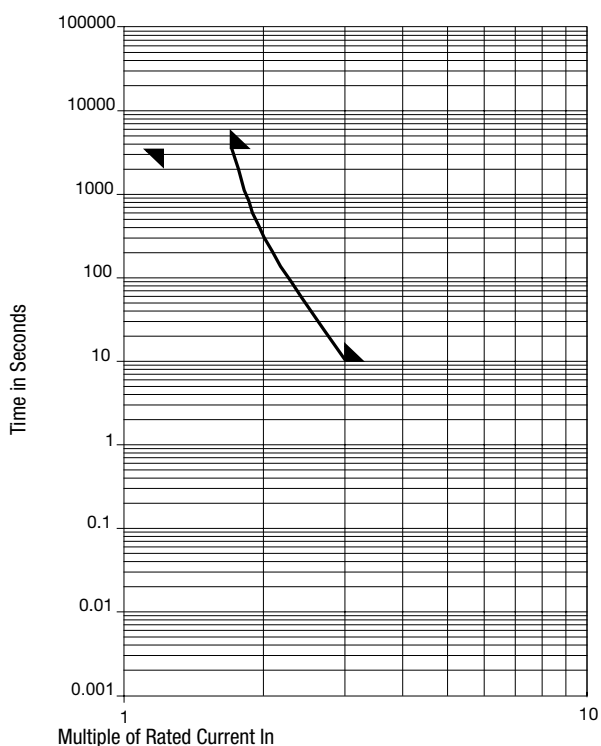
Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.1 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]	GAM T1	NNO	Order Number
0.16	250	125	1)	3000	770	0.0021	●		7023.0790
0.25	250	125	1)	2290	870	0.0075	●		7023.0810
0.4	250	125	1)	1800	1000	0.01	●		7023.0830
0.63	250	125	1)	1050	1050	0.44	●	●	7023.0850
1	250	125	1)	770	1170	0.16	●		7023.0870
1.6	250	125	1)	540	1350	0.74	●	●	7023.0890
2.5	250	125	1)	310	1150	4.8	●	●	7023.0910
4	250	125	1)	220	1300	24	●		7023.0930
6.3	250	125	1)	310	3100	27	●		7023.0950
8	250	125	1)	90	1050	9.3	●		7023.0960
10	250	125	1)	85	1350	34	●	●	7023.0970
12.5	250	125	1)	90	1600	62			7023.0980
16	250	125	1)	80	1900	160			7023.0990
20	250	125	1)	75	2000	240			7023.0940

1) 10 kA @ 250 VAC, p.f. = 0.7 - 0.8 / 1 kA @ 125 VDC

Packaging Unit

Small Box Pack (10 pcs.)

Time-Current Curves



Miniature Fuse, 6.3 x 32 mm, Time-Lag T, GAM T1, 1.25 A, 220 VAC, 125 VDC



220 VAC · 125 VDC · Time-Lag T

GAM
T1 NNO**Description**

- High Breaking Capacity
- Type D8STTD (0.16 - 1.25 A), A12TD (1.6 A - 30 A)

References

General Product Information

Weblinks

Approvals, RoHS, CHINA-RoHS, e-Store, SCHURTER-Stock-Check, Distributor-Stock-Check

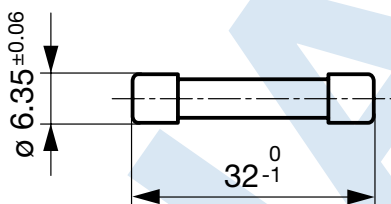
Technical Data

Rated Voltage	220 VAC, 125 VDC
Rated Current	0.16 - 1.25 A
Breaking Capacity	50 A
Characteristic	Time-Lag T
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 55 °C
Climatic Category	40/055/21 acc. to IEC 60068-1
Material: Tube	Ceramic
Unit Weight	2.8 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Current Rating, Voltage Rating, Characteristic

Resistance to Vibration	acc. to NF C 20-706 / IEC 60068-2-6, test Fc
Shocks	acc. to NF C 20-706 / IEC 60068-2-27
Bumps	acc. to NF C 20-729 / IEC 60068-2-29
Salt Mist	acc. to NF C 20-711 / IEC 60068-2-11

Dimensions

Length | 32 mm

**Pre-Arcing Time**

Rated Current In	1.1 x In min.	1.45 x In max.	3.0 x In min.	3.0 x In max.	5.0 x In min.	5.0 x In max.
0.16 A - 1.25 A	60 min	60 min	4 s	9 s	1 s	4 s

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

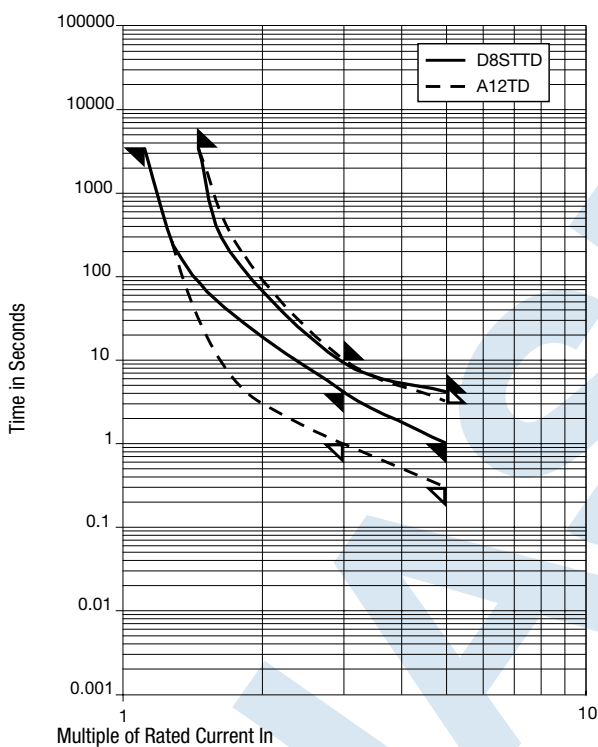
Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipation 1.1 I _n typ. [mW]	Melting I ² t 10.0 I _n Intyp. [A ² s]	GAM T1	NNO	Order Number
0.16	220	125	1)	1100	210	1.6	●	●	7035.7310
0.2	220	125	1)	1100	265	1.9	●	●	7035.7320
0.25	220	125	1)	570	180	1.4	●	●	7035.7330
0.31	220	125	1)	500	195	7.2	●		7035.7340
0.4	220	125	1)	505	255	6.3	●	●	7035.7350
0.5	220	125	1)	450	285	1.9	●	●	7035.7360
0.63	220	125	1)	460	370	11	●		7035.7370
0.8	220	125	1)	320	325	12	●	●	7035.7380
1	220	125	1)	405	515	15	●	●	7035.7390
1.25	220	125	1)	315	505	23	●	●	7035.7410

1) 5 kA @ 125 VAC/DC, p.f. 0.3 - 0.4 / 50 A @ 220 VAC, p.f. ≥ 0.9

Packaging Unit

Small Box Pack (10 pcs.)

Time-Current Curves



Miniature Fuse, 6.3 x 32 mm, Time-Lag T, GAM T1, 30 A, 220 VAC, 125 VDC



220 VAC · 125 VDC · Time-Lag T

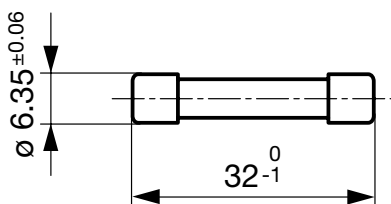
GAM
T1 NNO**Description**

- High Breaking Capacity
- Type D8STTD (0.16 - 1.25 A), A12TD (1.6 A - 30 A)

References
[General Product Information](#)
Weblinks
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

Rated Voltage	220 VAC, 125 VDC
Rated Current	1.6 - 30 A
Breaking Capacity	100 A
Characteristic	Time-Lag T
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 55 °C
Climatic Category	40/055/21 acc. to IEC 60068-1
Material: Tube	Ceramic
Unit Weight	2.8 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Current Rating, Voltage Rating, Characteristic

Resistance to Vibration	acc. to NF C 20-706 / IEC 60068-2-6, test Fc
Shocks	acc. to NF C 20-706 / IEC 60068-2-27
Bumps	acc. to NF C 20-729 / IEC 60068-2-29
Salt Mist	acc. to NF C 20-711 / IEC 60068-2-11

DimensionsLength  32 mm**Pre-Arcing Time**

Rated Current In	1.1 x In min.	1.45 x In max.	3.0 x In min.	3.0 x In max.	5.0 x In min.	5.0 x In max.
1.6 A - 30 A	60 min	60 min	1 s	10 s	300 ms	3 s

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

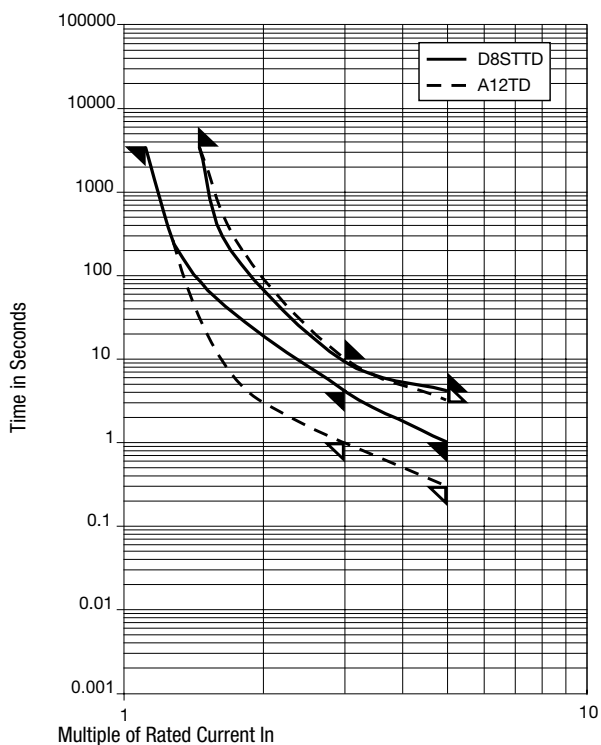
Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 I _n typ. [mV]	Power Dissipation 1.1 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]	GAM T1	NNO	Order Number
1.6	220	125	2)	240	485	47	●	●	7043.6110
2	220	125	2)	210	530	85	●	●	7043.6120
2.5	220	125	2)	165	520	87	●	●	7043.6130
3.15	220	125	2)	500	1900	131	●	●	7043.6140
4	220	125	2)	180	925	590	●	●	7043.6150
5	220	125	2)	190	1150	320	●	●	7043.6160
6.3	220	125	2)	140	1150	1200	●	●	7043.6170
8	220	125	2)	150	1450	560	●		7043.6180
10	220	125	2)	205	2600	250		●	7043.6490
12.5	220	125	2)	110	1700	1200		●	7043.6210
16	220	125	2)	90	1750	4500			7043.6220
20	220	125	2)	200	5800	280			7043.6650
30	220	125	2)	150	6500	2250			7043.6670

2) 5 kA @ 125 VAC/DC / 100 A @ 220 VAC

Packaging Unit

Small Box Pack (10 pcs.)

Time-Current Curves



Miniature Fuse, 4.7 x 16 mm, 125 VAC



125 VAC · Quick-Acting F

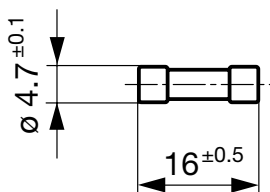
GAM
T1 NNO**Description**

- Low Breaking Capacity

References[General Product Information](#)Corresponding Fuseholder [231600P](#)**Weblinks**[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)**Technical Data**

Rated Voltage	125 VAC
Rated Current	0.063 - 10 A
Breaking Capacity	35 A
Characteristic	Quick-Acting F
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 70 °C
Climatic Category	40/070/56 acc. to IEC 60068-1
Material: Tube	Glass
Unit Weight	1.1 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Current Rating

Resistance to Vibration	acc. to NF C 20-706 / IEC 60068-2-6, test Fc
-------------------------	--

DimensionsLength  16 mm**Pre-Arcing Time**

Rated Current In	1.1 x In min.	1.7 x In max.	3.0 x In max.
0.063 A - 10 A	60 min	60 min	200 ms

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Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

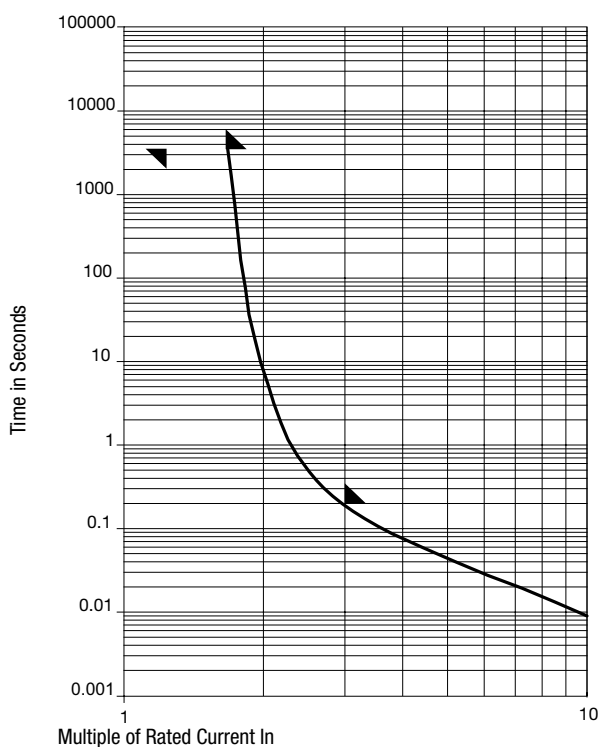
Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	Power Dissipation 1.1 I _n typ. [mW]	Melting I ² t 10.0 Intyp. [A ² s]	GAM T1	NNO	Order Number
0.063	125	1)	1900	140	0.00044			7010.2110
0.08	125	1)	1400	150	0.001			7010.2120
0.1	125	1)	1200	155	0.0015	●	●	7010.2130
0.15	125	1)	960	190	0.0067	●	●	7010.2150
0.2	125	1)	870	240	0.012	●	●	7010.2170
0.25	125	1)	795	270	0.025	●	●	7010.2180
0.31	125	1)	825	360	0.036	●	●	7010.2190
0.4	125	1)	1950	955	0.03	●		7010.2210
0.5	125	1)	1500	905	0.079	●	●	7010.2220
0.63	125	1)	2200	1650	0.092	●	●	7010.2230
0.75	125	1)	1700	1550	0.13	●	●	7010.2240
1	125	1)	275	385	0.2	●	●	7010.2260
1.5	125	1)	270	560	0.63	●	●	7010.2410
2	125	1)	175	470	1.2	●	●	7010.2430
2.5	125	1)	155	515	3.4	●	●	7010.2440
3	125	1)	155	610	4.8	●	●	7010.2450
4	125	1)	210	1160	7.8	●	●	7010.2470
5	125	1)	145	935	14	●	●	7010.2480
6.3	125	1)	130	1040	31	●		7010.2610
8	125	1)	100	1060	68			7010.2620
10	125	1)	120	1480	110		●	7010.2630

1) 35 A @ 125 VAC, p.f. ≥ 0.9

Packaging Unit

Small Box Pack (10 pcs.)

Time-Current Curves



Miniature Fuse, 10.3 x 38 mm, Quick-Acting F, UL, 300 VAC



UL 248-14 · 300VAC · Quick-Acting F

**Description**

- High Breaking Capacity

Standards

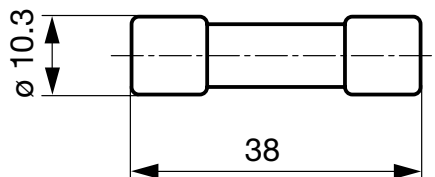
- UL 248-14
- CSA C22.2 no. 248.14

Approvals

- UL File Number: E42088

References[General Product Information](#)**Weblinks**
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)
Technical Data

Rated Voltage	250 - 300VAC
Rated Current	0.125 - 50A
Breaking Capacity	10000 A
Characteristic	Quick-Acting F
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/21 acc. to IEC 60068-1
Material: Tube	Glass
Material: Endcaps	Tin-Plated Copper
Unit Weight	9 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 Type, Current Rating, Voltage Rating, Breaking Capacity, Approvals

DimensionsLength  38 mm**Pre-Arcing Time**

Rated Current I_n	1.1 x I_n min.	1.35 x I_n max.	2.0 x I_n max.
0.125 A - 50 A	60 min	60 min	120 s

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Variants

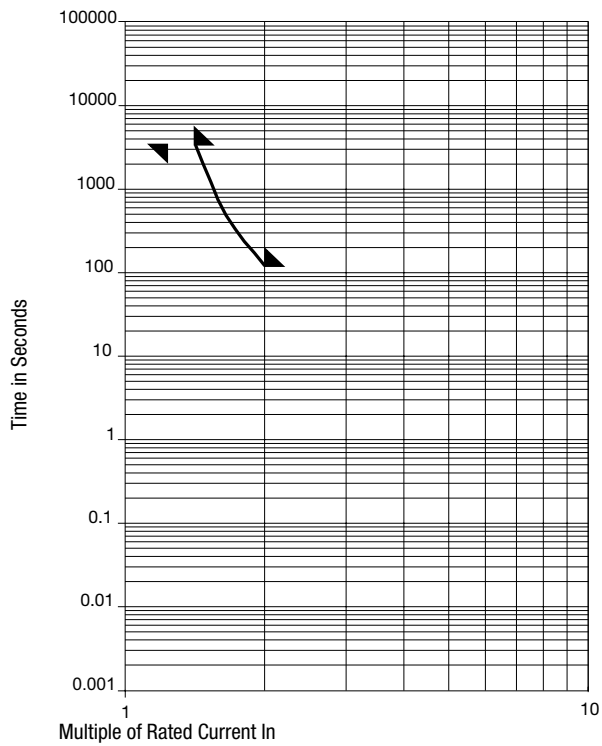
Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]		Order Number
0.125	300	1)	2370	●	7024.9110
0.16	300	1)	2600	●	7024.9120
0.2	300	1)	2200	●	7024.9130
0.25	300	1)	1760	●	7024.9140
0.31	300	1)	1600	●	7024.9150
0.4	300	1)	2380	●	7024.9160
0.5	300	1)	2750	●	7024.9170
0.63	300	1)	2500	●	7024.9180
0.8	300	1)	580	●	7024.9190
1	300	1)	900	●	7024.9210
1.25	300	1)	1100	● ●	7024.9220
1.6	300	1)	460	● ●	7024.9230
2	300	1)	400	● ●	7024.9240
2.5	300	1)	380	● ●	7024.9250
3.15	300	1)	350	● ●	7024.9260
4	300	1)	260	● ●	7024.9270
5	300	1)	550	● ●	7024.9280
6.3	300	1)	560	● ●	7024.9290
8	300	1)	270	● ●	7024.9310
10	300	1)	90	● ●	7024.9320
12.5	300	1)	90	● ●	7024.9330
15	300	1)	80	● ●	7024.9340
16	250	2)	75		7024.9350
20	250	2)	75		7024.9360
30	250	2)	80		7024.9380
40	250	2)	120		7024.9390
50	250	2)	115		7024.9400

1) 10 kA @ 300 VAC , p.f. = 0.7 - 0.8

2) 10 kA @ 250 VAC , p.f. = 0.7 - 0.8

Packaging Unit

Small Box Pack (10 pcs.)

Time-Current Curves

Miniature Fuse, 10.3 x 38 mm, Quick-Acting F, 250 VAC



250 VAC · Quick-Acting F



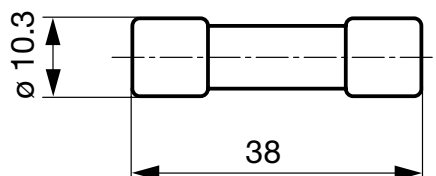
NNO

Description

- Low Breaking Capacity

References[General Product Information](#)**Weblinks**[Approvals, RoHS, CHINA-RoHS, e-Store, SCHURTER-Stock-Check, Distributor-Stock-Check](#)**Technical Data**

Rated Voltage	250 VAC
Rated Current	0.4 - 30 A
Breaking Capacity	100 A - 4000 A
Characteristic	Quick-Acting F
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 70 °C
Climatic Category	40/070/56 acc. to IEC 60068-1
Material: Terminals	Nickel-Plated Copper Alloy
Material: Tube	Glass
Material: Endcaps	Nickel-Plated Copper
Unit Weight	9 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	Current Rating

DimensionsLength  38 mm**Pre-Arcing Time**

Rated Current I_n	1.1 x I_n min.	1.3 x I_n max.	3.0 x I_n max.
0.4 A - 30 A	60 min	60 min	1 s

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Variants

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	NNO	Order Number
0.4	250	1)	4200	●	7017.5150
0.5	250	1)	3600	●	7017.5120
0.63	250	1)	2400	●	7017.5130
0.8	250	1)	2300	●	7017.5140
1	250	1)	2600	●	7017.5210
1.25	250	1)	440	●	7017.5220
1.6	250	1)	630	●	7017.5230
2	250	1)	460	●	7017.5240
2.5	250	2)	360	●	7017.5250
3.15	250	2)	340	●	7017.5260
4	250	2)	230	●	7017.5270
5	250	2)	270	●	7017.5280
6.3	250	3)	220	●	7017.5290
8	250	3)	200	●	7017.5310
10	250	3)	180	●	7017.5320
12.5	250	4)	170	●	7017.5330
15	250	4)	150	●	7017.5340
16	250	4)	160	●	7017.5350
20	250	4)	100	●	7017.5360
25	250	4)	90	●	7017.5370
30	250	4)	100	●	7017.5380

1) 500 A @ 250 VAC , p.f. ≥ 0.9 / 4 kA @ 125 VAC , p.f. ≥ 0.9

2) 100 A @ 250 VAC , p.f. ≥ 0.9 / 4 kA @ 125 VAC , p.f. ≥ 0.8

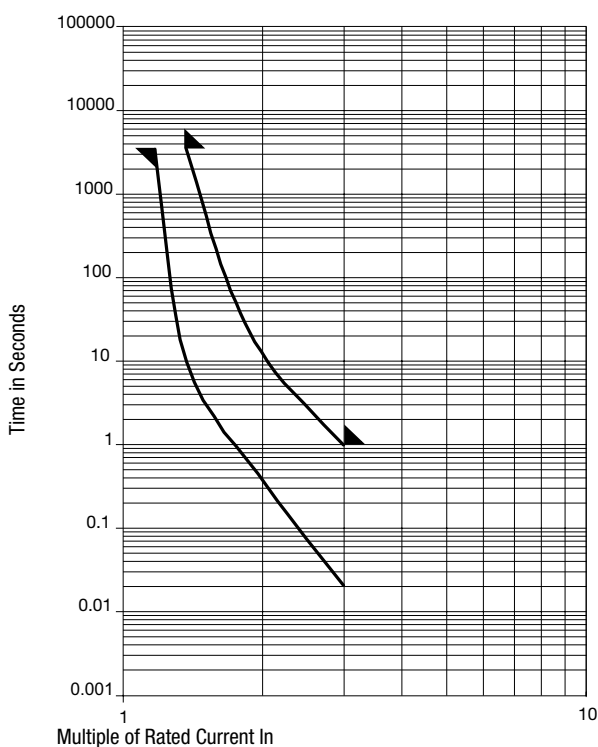
3) 100 A @ 250 VAC , p.f. ≥ 0.9 / 500 A @ 125 VAC , p.f. ≥ 0.9

4) 100 A @ 250 VAC , p.f. ≥ 0.9 / 300 A @ 125 VAC , p.f. ≥ 0.9

Packaging Unit

Small Box Pack (10 pcs.)

Time-Current Curves



Miniature Fuse, 10.3 x 38 mm, Super-Time-Lag TT, 250 VAC



NF C 93-435 · 250 VAC · Super-Time-Lag TT



NNO

Description

- Low Breaking Capacity

Standards

- NF C 93-435 - Modell HA29

References

[General Product Information](#)

Weblinks

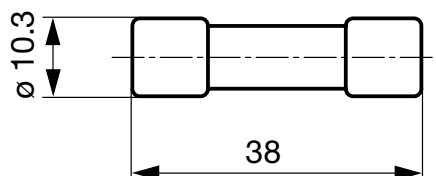
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

Rated Voltage	125 - 250 VAC
Rated Current	0.2 - 50 A
Breaking Capacity	300 A - 500 A
Characteristic	Super-Time-Lag TT
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 55 °C
Climatic Category	40/055/56 acc. to IEC 60068-1
Material: Terminals	Nickel-Plated Copper Alloy
Material: Tube	Glass
Material: Endcaps	Nickel-Plated Copper
Unit Weight	9 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	 HA29, Current Rating, Characteristic

Dimensions

Length  38 mm



Pre-Arcing Time

Rated Current I_n	1.1 x I_n min.	1.45 x I_n max.	3.0 x I_n min.	3.0 x I_n max.	5.0 x I_n min.	5.0 x I_n max.
0.2 A - 6.3 A	60 min	60 min	4 s	9 s	500 ms	4 s
8 A - 50 A	60 min	60 min	4 s	20 s	2 s	6 s

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Variants

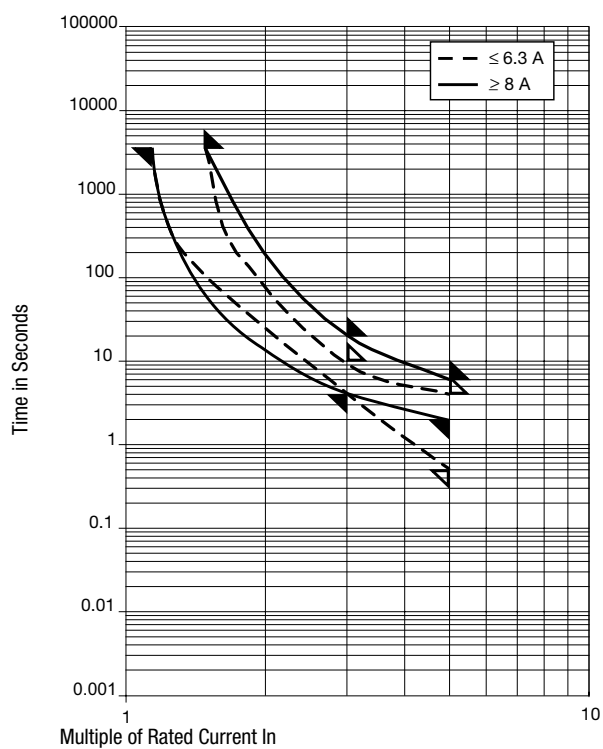
Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	NNO	Order Number
0.2	250	1)	1700	●	7037.1110
0.31	250	1)	650	●	7037.1120
0.4	250	1)	840	●	7037.1130
0.5	250	1)	680	●	7037.1140
0.63	250	1)	490	●	7037.1150
0.8	250	1)	450	●	7037.1160
1	250	1)	365	●	7037.1170
1.25	250	1)	310	●	7037.1210
1.6	250	2)	620	●	7047.1110
2	250	2)	480	●	7047.1210
2.5	250	2)	430	●	7047.1220
3.15	250	2)	295	●	7047.1230
4	250	2)	250	●	7047.1240
5	250	2)	200	●	7047.1250
6.3	250	2)	190	●	7047.1260
8	250	2)	200	●	7047.1270
10	250	2)	160	●	7047.1280
12.5	250	2)	160	●	7047.1290
15	250	2)	110	●	7047.1310
20	250	2)	95	●	7047.1330
25	250	2)	80	●	7047.1340
30	125	2)	75	●	7047.1350
40	125	-	50	●	7047.1410
45	125	-	55	●	7047.1420
50	125	-	45	●	7047.1430

1) 500 A @ 250 VAC , p.f. $\geq$ 0.9 / 500 A @ 125 VAC , p.f. = 0.7 - 0.82) 300 A @ 250 VAC , p.f. $\geq$ 0.9 / 500 A @ 125 VAC , p.f. = 0.7 - 0.8

Packaging Unit

Small Box Pack (10 pcs.)

Time-Current Curves



Miniature Fuse, 10.3 x 38 mm, gG, 500 VAC



IEC 60269-2 · 500 VAC

**Description**

- "gG" indicated fuse-links with a full-range breaking capacity for general application

Standards

- IEC 60269-2-1
- NF C 63-210

Applications

- Industrial electronic

References

[General Product Information](#)

Weblinks

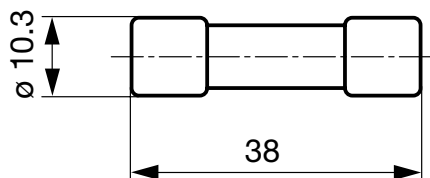
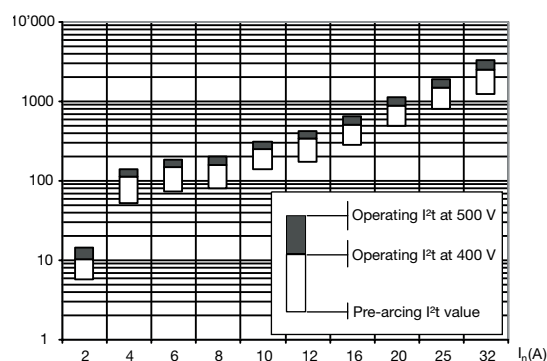
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

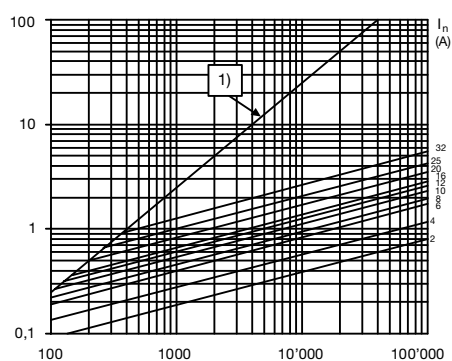
Rated Voltage	400 - 500 VAC
Rated Current	0.5 - 32 A
Breaking Capacity	120 kA
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/21 acc. to IEC 60068-1
Material: Terminals	Silver-Plated Copper Alloy
Material: Tube	Ceramic
Unit Weight	8 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	Type, Current Rating, Voltage Rating, Breaking Capacity

Dimensions

Length |—————| 38 mm

**I²t Characteristik**

Peak Let-Thru Current Data

1) Asymmetrical Short Circuit $2.55 \cdot I_p$

Variants

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Power Dissipation $1.0 I_n$ typ. [mW]	Order Number
0.5	500	1)	-	7181.4120
1	500	1)	270	7181.4121
2	500	1)	400	7181.4122
4	500	1)	600	7181.4123
6	500	1)	850	7181.4124
8	500	1)	1000	7181.4125
10	500	1)	1200	7181.4126
12	500	1)	1400	7181.4127
16	500	1)	1600	7181.4128
20	500	1)	1900	7181.4129
25	500	1)	2300	7181.4130
32	400	2)	2900	7181.4131

1) 120 kA @ 500 VAC

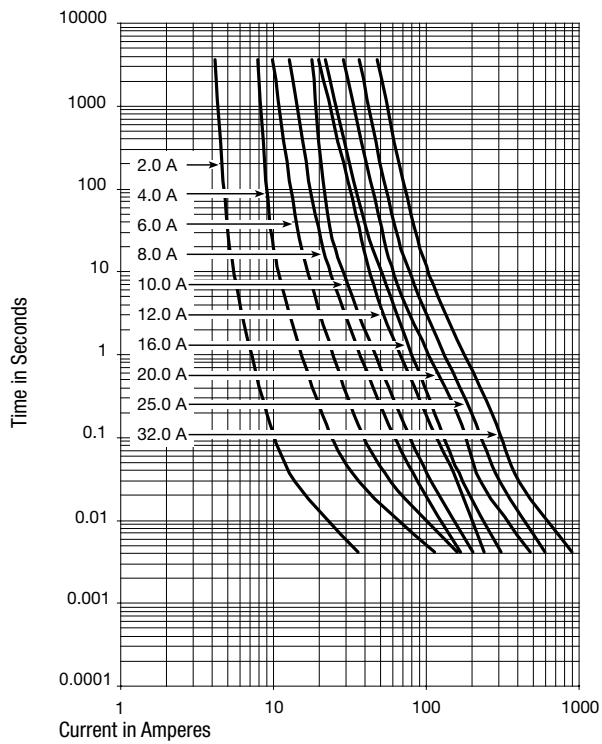
2) 120 kA @ 400 VAC

Packaging Unit

Small Box Pack (10 pcs.)

[Distributor-Stock-Check](#) |
 [SCHURTER-Stock-Check](#) |
 [e-Store](#)

Time-Current Curves



Miniature Fuse, 10.3 x 38 mm, aM, 500 VAC



IEC 60269-2 · 500 VAC

**Description**

- "aM" indicated fuse-links with a partial range breaking capacity for the protection of motor circuits

Standards

- IEC 60269-2-1
- NF C 63-210

Applications

- Industrial electronic

References

[General Product Information](#)

Weblinks

[Approvals, RoHS, CHINA-RoHS, e-Store, SCHURTER-Stock-Check, Distributor-Stock-Check](#)

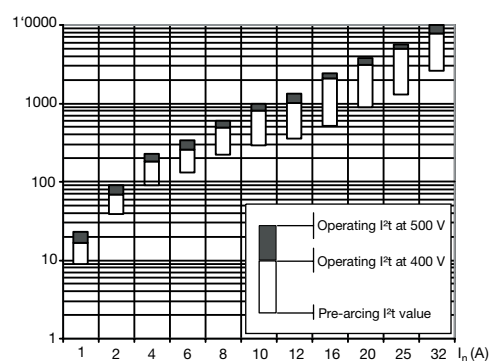
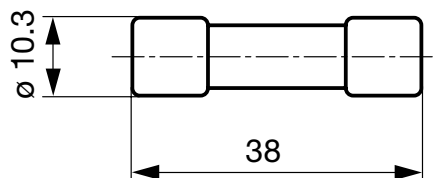
Technical Data

Rated Voltage	400 - 500 VAC
Rated Current	0.16 - 32 A
Breaking Capacity	120 kA
Mounting	Fuseholder / Clip
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/21 acc. to IEC 60068-1
Material: Terminals	Silver-Plated Copper Alloy
Material: Tube	Ceramic
Unit Weight	8 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	Type, Current Rating, Voltage Rating, Breaking Capacity

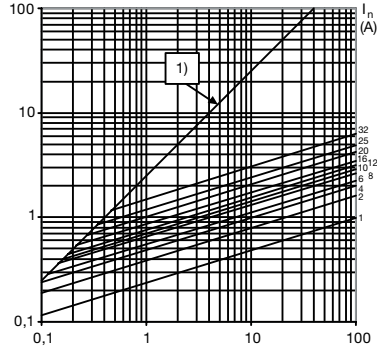
Dimensions

Length | 38 mm

I²t Charakteristik



Peak Let-Thru Current Data



1) Asymmetrical Short Circuit 2.55 * I_p

Variants

Rated Current [A]	Rated Voltage [VAC]	Breaking Capacity	Power Dissipation 1.0 I _n typ. [mW]	Order Number
0.16	500	1)	-	7181.4100
0.25	500	1)	-	7181.4101
0.5	500	1)	-	7181.4102
1	500	1)	100	7181.4103
2	500	1)	200	7181.4104
4	500	1)	300	7181.4105
6	500	1)	400	7181.4106
8	500	1)	500	7181.4107
10	500	1)	600	7181.4108
12	500	1)	700	7181.4109
16	500	1)	800	7181.4110
20	500	1)	1200	7181.4111
25	400	1)	1600	7181.4112
32	400	1)	2000	7181.4113

1) 120 kA @ 500 VAC

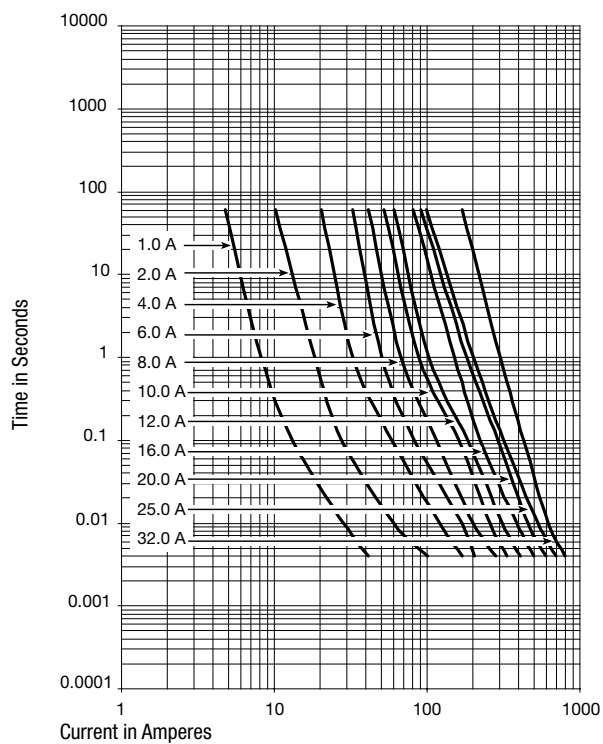
2) 120 kA @ 400 VAC

Packaging Unit

Small Box Pack (10 pcs.)

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Time-Current Curves



Special Fuse, 14 x 50 mm Quick-Acting F, 500 VAC, 250 VDC



DTCN · 500 VAC · 250 VDC · Quick-Acting F

GAM
T1 NNO**Description**

- High Breaking Capacity

Standards

- DTCN: T/5920 CC

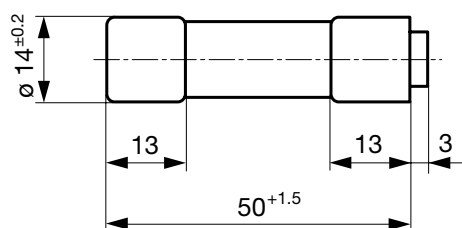
References[General Product Information](#)Corresponding Fuseholder [23162](#)**Weblinks**[Approvals, RoHS, CHINA-RoHS, e-Store, SCHURTER-Stock-Check, Distributor-Stock-Check](#)**Technical Data**

Rated Voltage	500 VAC, 250 VDC
Rated Current	0.5 - 40 A
Breaking Capacity	10 kA - 100 kA
Characteristic	Quick-Acting F
Admissible Ambient Air Temp.	-40 °C to 55 °C
Climatic Category	40/055/21 acc. to IEC 60068-1
Material: Tube	Ceramic
Unit Weight	25 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	HA32, Type, Voltage Rating

Resistance to Vibration	acc. to NF C 20-706 / IEC 60068-2-6, test Fc
Shocks	acc. to NF C 20-706 / IEC 60068-2-27
Bumps	acc. to NF C 20-729 / IEC 60068-2-29
Salt Mist	acc. to NF C 20-711 / IEC 60068-2-11

Dimensions

Length |—————| 50 mm

**Pre-Arcing Time**

Rated Current I _n	1.25 x I _n min.	1.55 x I _n max.	3.0 x I _n max.
0.5 A - 40 A	60 min	60 min	3 s

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Variants

Distributor-Stock-Check | SCHURTER-Stock-Check | e-Store

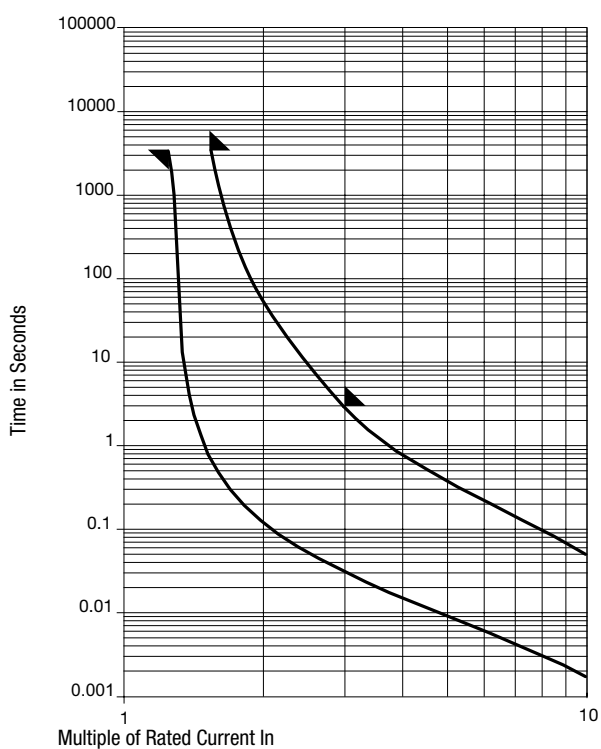
Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 In typ. [mV]	GAM T1 NNO		Order Number
0.5	500	250	1)	2400	●	●	7020.8510
1	500	250	1)	1400	●	●	7020.8520
2	500	250	1)	500	●	●	7020.8530
4	500	250	1)	450	●	●	7020.8540
6	500	250	1)	300	●	●	7020.8550
10	500	250	1)	250	●	●	7020.8560
15	500	250	1)	150	●	●	7020.8570
20	500	250	1)	120	●	●	7020.8580
30	500	250	1)	120	●	●	7020.8590
40	500	380	1)	100	●	●	7020.8610

1) 100 kA @ 500 VAC , p.f. $\geq$ 0.3 / 10 kA @ 250 VDC , L/R < 10 ms

Packaging Unit

Small Box Pack (10 pcs.)

Time-Current Curves



Special Fuse, 14.3 x 51 mm, 500 VAC, 250 VDC



DTCN · 500 VAC · 250 VDC



NNO

Description

- High Breaking Capacity

Standards

- NF C 63-210 / NF C 63-211
 - DTCN: T/5920 DA

References[General Product Information](#)**Weblinks**

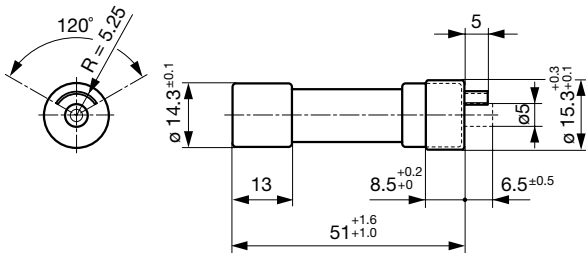
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

Rated Voltage	500 VAC, 250 VDC
Rated Current	1 - 25 A
Breaking Capacity	100 kA
Admissible Ambient Air Temp.	-40 °C to 85 °C
Climatic Category	40/085/21 acc. to IEC 60068-1
Material: Tube	Ceramic
Unit Weight	25 g
Storage Conditions	0 °C to 60 °C, max. 70% r.h.
Product Marking	Type, Current Rating, Voltage Rating

Dimensions

Length | 51 mm

**Pre-Arcing Time**

Rated Current In	4.0 x In min.	6.3 x In max.	8.0 x In min.	10.0 x In min.	12.5 x In max.	25.0 x In max.	50.0 x In max.
1 A - 25 A	60 s	60 s	500 ms	200 ms	500 ms	40 ms	9 ms

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

Variants

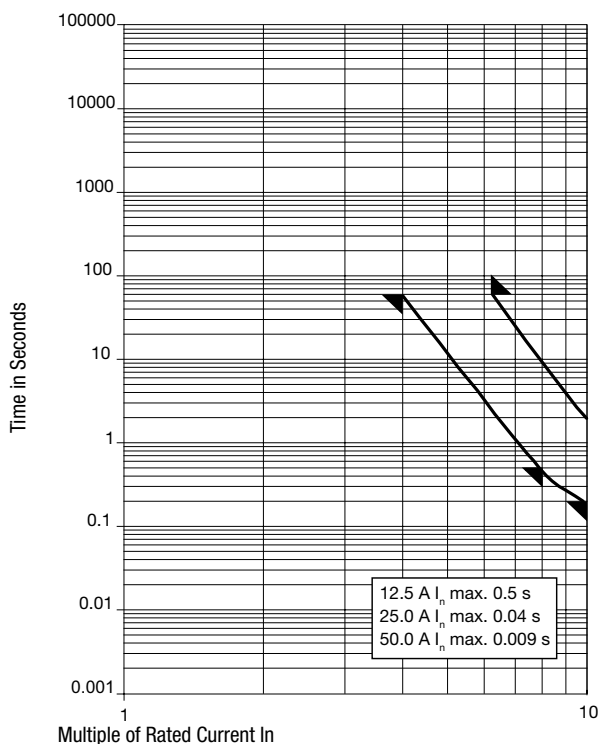
Rated Current [A]	Rated Voltage [VAC]	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 I _n typ. [mV]	NNO	Order Number
1	500	250	1)	110	●	7020.9110
1.6	500	250	1)	80	●	7020.9120
2.5	500	250	1)	70	●	7020.9130
5	500	250	1)	75	●	7020.9140
8	500	250	1)	70	●	7020.9150
12.5	500	250	1)	70	●	7020.9160
20	500	250	1)	75	●	7020.9170

1) 100 kA @ 500 VAC , p.f. ≥ 0.15 / 10 kA @ 250 VDC , L/R < 10 ms

Packaging Unit

Small Box Pack (10 pcs.)

Time-Current Curves



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general product-information

Product standard equipment standard

The product standard only contains minimum requirements. Attention is drawn to the fact that appliance specifications might contain requirements additional to or deviating from those specified in the relevant product standards.

Comments on definitions used

Please be aware that the specifications nominal value used in the German part of the Schurter catalogue and the data sheets, is synonymous with rated value.
The difference between these two values is a pure matter of definition. In order to avoid any unnecessary complications we will continue to use the specifications nominal value.

CE marking acc. to EU-directives

CE marking is the only marking which indicates that a product conforms to the relevant EU-directive.
This means that the CE-mark is no quality or standard conformity mark but only an administration mark.
SCHURTER products are covered by the low voltage directives 72/23/EEC and 93/68/EEC. Those are valid for equipment and appliances with rated voltage values between AC 50 V to AC 1000 V as well as DC 75 V to DC 1500 V.
The CE marking of SCHURTER parts will be found on the label of the smallest packing unit. On request we will submit a CE conformity statement for each component. CE conformity statements and approvals can also be retrieved from the internet under www.schurter.com.

Conformity to component standards, national approvals

National testing institutions are testing according to national and international standards or other generally recognized rules of technology. Their certification/approval-marks confirm the observance of the safety requirements which electric appliances must fulfil.

National approvals

 (Mark)	European Norms Electrical Certification
 (Mark)	VDE Verband Deutscher Elektrotechniker

	(Certificate of conformity with factory surveillance)	
	(Recognition)	UL Underwriters Laboratories (USA, Canada)
	(Listing)	UL Underwriters Laboratories (USA, Canada)
	(Recognition)	UL Underwriters Laboratories (USA)
	(Listing)	UL Underwriters Laboratories (USA, Canada)
		CSA Canadian Standard Association, Component Acceptance Service
		CSA Canadian Standard Association
		CCC China Compulsory Certification
		PSE Japan Electrical Safety & Environment technology Laboratories
		KTL Korea Testing Laboratory
		TÜV Technischer Überwachungs Verein
		NF Norme française
		NNO Numéro de nomenclature Otan (OTAN = NATO = North Atlantic Treaty Organisation)
		GAM T1 Liste interarmées AIR MER TERRE de composants électroniques

In addition to the combined UL/CSA approvals, most of the SCHURTER components are also approved by one of the European Certification Bodies like VDE (Germany), Electrosuisse (Switzerland) or SEMKO (Sweden). The safety testing of all these European Certification Bodies are based on the common European Safety Standards. With the harmonisation effort in Europe, the different National European Certification Bodies have lost their importance and SCHURTER has decided to maintain only one European approval (e.g. VDE, SEV or SEMKO) in future. The others will not be renewed once they have expired.

Because UL and CSA are not members of the CENELEC, the standards of UL and CSA are not harmonised yet with the European Standards. However, UL and CSA are trying to harmonize their standards with each other. Where possible, SCHURTER will apply for the combined cULus or cURus approval.

Further to development in Asia, SCHURTER has obtained national approvals from China, Japan and Korea.



general product-information

IP degrees of protection provided by enclosures (IP code)

Standards IEC 60529; EN 60529

Scope

These standards apply to the classification of degrees of protection provided by enclosures for electrical equipment with a rated voltage not exceeding 72.5 kV.

Object

The object of these standards is to give:

- a) Definitions** for degrees of protection provided by enclosures of electrical equipment as regards:
 - 1. Protection of persons against access to hazardous parts inside the enclosure
 - 2. Protection of the equipment inside the enclosure against ingress of solid foreign objects
 - 3. Protection of the equipment inside the enclosure against harmful effects due to the ingress of water.
- b) Designations** for these degrees of protection.
- c) Requirements** for each designation.
- d) Tests** to be performed to verify that the enclosure meets the requirements of these standards.

Designations

The degree of protection provided by an enclosure is indicated by the IP Code.

Elements of the IP Code and their meanings

A brief description of the IP Code elements is given in the following table.

IP xy	Meaning for the protection of equipment	Meaning for the protection of persons
	Against ingress of solid foreign objectif	Against access to hazardous parts with
x = 0	(non-protected)	(non-protected)
x = 1	50 mm diameter	back of hand
x = 2	12.5 mm diameter	finger
x = 3	2.5 mm diameter	tool
x = 4	1.0 mm diameter	wire
x = 5	dust-protected	wire
x = 6	dust-tight	wire
	Against ingress of water with harmful effects	
y = 0	(non protected)	
y = 1	vertically dripping	
y = 2	dripping (15° tilted)	
y = 3	spraying	
y = 4	splashing	
y = 5	jetting	
y = 6	powerful jetting	
y = 7	temporary immersion	
y = 8	continuous immersion	

Protection against electric shock

1. Protection against direct and indirect contact General terms

The protection against electric shock on electric equipment as well as their components are divided into the following parts:

- Protection against direct contact with live parts concerns all measures for the protection of human beings and animals against hazards which result from direct contact with live parts of electric equipment and their components.
- Protection against indirect contact is the protection of human beings and animals against hazards which result from contact of live parts 1 of electric equipment as well as components thereof, which have become live due to an insulation failure.

¹⁾ Accessible, conductive part, which is not conductive normally but which may be conductive due to a failure.

2. Protection against direct contact with live parts e.g. of a fuseholder

The data sheets of the relevant components inform about the taken measures.

3. Protection against indirect contact

Measures for the protection against indirect contact on electrical equipment are defined according to IEC 61140 by the 4 protection classes 0, I, II, III. Each protection class includes two protection measures. Even if one of these measures should fail, no electric shocks will occur.

Protection class	Main protective measures
0	1. Basic insulation between live parts and accessible conductive parts. 2. Earth-free location, non-conducting environment.
I	 1. Basic insulation between live parts and accessible conductive parts. 2. Means are provided for the connection of accessible conductive parts of the equipment to the protective (earthing) conductor in the fixed wiring of the installation in such a way that accessible conductive parts cannot become live in the event of a failure of the basic insulation.
II	 1. Basic insulation between live parts and accessible conductive parts. 2. Additional insulation. Basic and supplementary insulation are summarised under the term "double insulation". Under certain circumstances also a "reinforced insulation" (single insulation system) may guarantee an equivalent protection against electric shock as a "double-insulation" does. No terminal for a protective conductor is allowable. A possibly existing protective conductor must not be connected and has to be insulated like any live part.
III	 1. Functional insulation. 2. Supply at safety extra-low voltage SELV (the circuit is isolated from the mains supply by such means as a safety isolating transformer). The protection against electric shock is in this case completely based on the supplying by SELV-circuits ($U \leq 42$ V). Higher voltages are not generated in the equipment. No terminal for a protective conductor is allowable.



general product-information

Miniature fuse links

Explanations, application notes

The design engineer of electrical equipment is responsible for its safety and functioning to humans, animals and real values. Above all, it is his task to make sure that the state of the art as well as the valid national and international standards and regulations be observed.

The following information about fuse-links and their application are to be taken into consideration when selecting a fuse-link.

In view of the product liability of electrical equipment the selection of the most suitable fuse-link is of great importance.

1. Fuse

A fuse is a self-acting device that, by the fusing of one of its specially designed and proportioned components, opens the circuit in which it is inserted by breaking the current when this exceeds a given value for a sufficient time.

Definition according to IEC 60127:

The fuse comprises all the parts that form the complete device, that means fuseholder and fuse-link.

Definition according to UL 248-1:

A North American fuse is an IEC fuse-link. An IEC fuse is a North American fuse with a fuse-holder.

2. Fuse-link (IEC 60127)

The part of a fuse including the fuse-element intended to be replaced after the fuse has operated. Fuse-links according to IEC 60127 relate to miniature fuses for the protection of electric appliances, electronic equipment and components thereof normally intended to be used indoors. These fuse-links are not permitted for equipment, which has to operate under special circumstances, e.g. in a corrosive or explosive environment.

3. Miniature fuse-link (IEC 60127)

An enclosed fuse-link of rated breaking capacity not exceeding 2 kA and which has at least one of its principal dimensions exceeding 10 mm.

4. Sub-miniature fuse-link (IEC 60127)

A miniature fuse-link of which the case (body) has no principal dimensions exceeding 10 mm.
Sub-miniature fuse-links are especially suitable for printed circuit boards. They are available for the through hole technique and surface mounting technique (SMT).

5. Standards for fuse-links

IEC 60127	Miniature fuses (general title)	
IEC 60127-1	Part 1:	Definitions for miniature fuses and general requirements for miniature fuse-links
IEC 60127-2	Part 2:	Cartridge fuse-links
IEC 60127-3	Part 3:	Sub-miniature fuse-links
IEC 60127-4	Part 4:	Universal modular fuse-links
IEC 60127-5	Part 5:	Guidelines for quality assessment for miniature fuse-links
NF C 93435		Cartridge Fuses with improved characteristics
UL 248-1		Low-Voltage Fuses: General requirements
UL 248-14		Low-Voltage Fuses: Supplemental Fuses
CSA/C22.2 No. 248.1		Low-Voltage Fuses: General requirements
CSA/C22.2 No. 248.14		Low Voltage Fuses: Supplemental Fuses

6. Rated voltage U_n

The rated voltage is the voltage up to which the fuse-link correctly interrupts an overcurrent.

The rated voltage of a fuse-link must be greater than or equal to the operating voltage of the equipment which is to be protected.

The use during operating voltages below the rated voltage of the fuse-link is permitted only, when the instructions regarding voltage drop (pos. 8) are taken into consideration.

The fuse-links are on principle suitable for use at alternating and direct voltage. The breaking capacity at direct-voltage is however considerably lower than the one at alternating voltage. The performance of the fuse-link at direct-voltage mainly depends on the size of the time-constant $T = L/R$ of the load circuit.

7. Rated current I_n

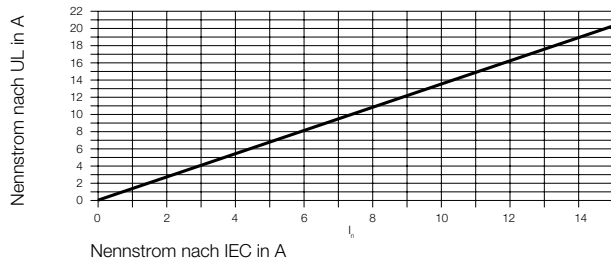
The rated current of the fuse-link corresponds to the operating current of the equipment to be protected. Basically there are two different rated current definitions:

- On fuse-links according to IEC 60127 and EN 60127 the rated current corresponds to the current, which the fuse-link can be exposed to continually, according to the standardized regulations, without interrupting the fuse-link.
- On fuse-links according to UL 248-14 however, the rated current corresponds to the current, which would interrupt the fuse-link already after a few hours. The current, which according to IEC, can flow constantly without interrupting the fuse-link, is approx. $0.7 \cdot I_n$.

Regarding influences of ambient air temperatures $> 23^\circ\text{C}$ on the rated current see pos. 1



Correlation between the rated current of fuse-links according to IEC and UL:



8. Voltage drop

The voltage drop across a fuse-link is measured at an ambient air temperature of 23 °C, when the fuse-link has carried its rated current for a time sufficient to reach temperature stability. Attention is drawn to the fact that problems can arise when fuse-links are used at operating voltages considerably lower than their rated voltage. Due to the increase of the voltage drop when the element of a fuse-link approaches its melting point, care should be taken to ensure that there is sufficient circuit voltage available to cause the fuse-link to interrupt the current when an electrical fault occurs. Furthermore, fuse-links of the same type and rating may, due to difference in design or element material, have different voltage drops and may therefore not be interchangeable in practice when used in applications with low circuit voltages, especially in combination with fuse-links of lower rated currents.

9. Non fusing current I_{nf}

A value of an over-current specified as that which the fuse-link is capable of carrying for a specified time (typical 1 hour) without melting.

10. Pre-arcing time/current characteristic (at T_a 23 °C)

The time-current-characteristic indicates the relation of the pre-arcing time (melting time) to the fault current.

The pre-arcing time is the interval of time between the beginning of a current large enough to cause a break in the fuse-element and the instant when an arc is initiated.

The arcing time is the interval of time between the instant of the initiation of the arc and the instant of final arc extinction. The arcing time is not considered in the time-current-characteristic.

The operating time (total clearing time) is the sum of the pre-arcing time and the arcing time.

The time-current-characteristics are shown as an envelope for all mentioned rated currents.

Usual time-current-characteristic and their symbols:

- FF: denoting very quick acting
- F: denoting quick acting
- M: denoting medium time-lag
- T: denoting time-lag

TT: denoting long time-lag

UL fuse-links are normally divided into:

- Non Time Delay fuse-links. These fuse-links are sometimes also referred to as Normal blow or Quick acting types.
- Time Delay fuse-links. These fuse-links are sometimes also referred to as Slow blow or Surge proof types.

Application notes for the various characteristics:

FF: Super-quick-acting fuse-links

Protection of semiconductors (thyristors, triacs, diodes).

This fuse type tolerates small overcurrents only during a short period of time and limits the current at small short circuit currents. Current limiting even with low short circuit currents.

F: Quick-acting fuse-links

Protection of semiconductors and of an equipment with no current surge when operating or switching on and also for such devices where high overcurrent or high short-circuit current must be interrupted quickly.

M: Medium time lag fuse-links

Protection devices subjected to moderate in-rush currents and/or overcurrent peaks for a short time. Low voltage drop.

T: Time-lag fuse-links

Protection of devices subjected to high in-rush currents and/or overcurrent peaks which decrease only slowly (e.g. transformers and motors).

TT: Super time-lag fuse-links

Protection of devices subjected to longer lasting in-rush currents and/or high overcurrent peaks.

11. Breaking capacity of a fuse-link (UL: interrupting rating IR)

A value (r.m.s. for alternating current) of prospective current that a fuse-link is capable of breaking at a stated voltage under prescribed conditions of use and behaviour.

The max. short-circuit current, which can occur in electric circuit of an equipment, due to fault conditions, may not exceed the breaking capacity of the fuse-link. Non-compliance of this rule can cause the danger of explosions and fire.

At direct current the breaking capacity of a fuse-link is lower than at alternating current. Values are given on request.

IEC 60127 miniature fuse-links are classified into two categories (for sub-miniature fuse-links other breaking capacities are defined).

Fuse-links with Low Breaking Capacity, symbol L.

Typically, the fuse-element of this type of fuse-link is visible. The insulation tube consists of transparent material, normally glass. There is no extinguishing medium, the arc is quenched in air.

The breaking capacity is:
250 VAC/35A or 10.In p.f.1 whichever is greater.

Fuse-links with High Breaking Capacity, symbol H.

Typically, the fuse-element of this type of fuse-link is not visible. The insulation tube normally is of ceramic material or glass. To quench the arc, there is often an extinguishing medium.

The breaking capacity is:
250 VAC 1500A p.f. 0.7 to 0.8

UL's and CSA's short circuit requirements (interrupting rating IR) are different as relates to IEC.



general product-information

Interrupting ratings at 125 VAC = 10 000 A } p.f. 0.7-0.8
250 VAC = 35 to 1500 A
depending on rated current of the fuse-link.

12. Power dissipations

12.1 Max. sustained power dissipation

a) Fuse-links according to IEC 60127:

The test is carried out according to a standardised test procedure (open fuse-holder, room temperature).

The power dissipation produced by the non fusing current I_{nf} after one hour is determined.

Non fusing currents are different and depend on the fuse-link type.

In the SCHURTER catalogue you will usually find two values of sustained power dissipation, namely:

- the maximum sustained power dissipation i.e. according to IEC 60127.
- The typical sustained power dissipation of the SCHURTER fuse-links.

These values are mostly lower than the standardised ones.

b) Fuse-links according to UL 248-14:

UL does not, like IEC, determine the sustained power dissipation, but measures the maximum permissible temperature increase from 75 °C at $1 \cdot I_n$ on the outer surface of the fuse-link according to the UL standard.

12.2 Rated power dissipation

The power dissipation caused by the rated current (over a long period). With respect to the power acceptance for the selection of a suitable fuseholder this rated power dissipation is considered.

13. I^2t -value (joule integral)

The integral of the square of the current over a given time interval. The I^2t -value is a measure of the energy required to disrupt the fuse-link. That means for heating up the fuse-element to its melting temperature, for melting the fuse-element and for interruption of the current via an arcing period. Normally, distinction is made between.

- the pre-arcing I^2t (or fusing I^2t)
is the I^2t integral extended over the pre-arcing time of the fuse-link. It represents the energy for heating up and melting the fuseelement. At high over-currents with melting times <10 ms the pre-arcing I^2t remains constant (adiabatic conditions). Sometimes the pre-arcing I^2t is determined by 10.times the rated current, based on the time-current-characteristic. The pre-arcing I^2t is a characteristic value of a fuse-link and informs about his resistance to pulses and in-rush-currents.
- the arcing I^2t
is the I^2t integral extended over the arcing time of the fuse-links. It represents the arc-energy. The arcing I^2t depends on the electrical circuit parameters (e.g. operation voltage, power factor, closing angle etc.) of an electrical circuit.
- The operating I^2t (or: total I^2t)
is the sum of pre-arcing and arcing I^2t . This value is an important

parameter for the application of a fuse-link. It characterises the energy exposed to the object (let-through-energy) to be protected by the fuse-link in case of a fault current.

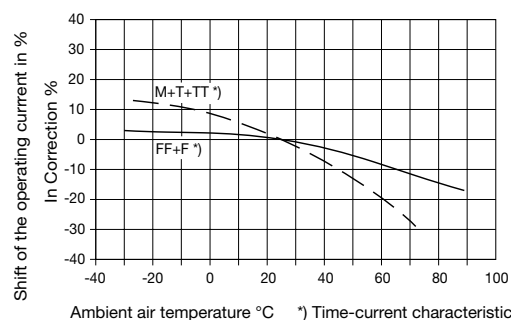
Application notes:

In order to choose the right fuse-link, the permitted I^2t -value of the component or component group to be protected, has to be known.

Selection criteria: The electric circuit to be protected contains:

- Components, which can cause in-rush currents, e.g. transformers. In this case, a fuse-link has to be chosen with a pre-arcing I^2t -value which is higher than the one of the in-rush-current.
- Components, which are sensitive to current impulses, e.g. semi-conductors. In this case a fuse-link has to be chosen, with an operating I^2t -value which is lower than the one of the components to be protected.

Shift of the operating current as a function of ambient air temperature



14. Ambient air temperatures

The standardised current carrying capacity tests (IEC and UL) of fuse-links are performed at 23 °C and 25 °C respectively. In practical applications, the fuse-link's ambient temperature may be significantly higher, especially if the fuse-link is used in an unexposed fuseholder or mounted near other heat generating components. For such applications, the shift of the operating current according to the following diagram has to be considered.

15. Marking of the fuse-links

Marking according to IEC 127

Example: T¹⁾ 200 mA²⁾ L³⁾ 250 V⁴⁾ ⁵⁾
Additional marking: approval marks

- 1) symbol, denoting the relative pre-arcing time-current-characteristic
 - 2) rated current in mA or A
 - 3) symbol, denoting the rated breaking capacity
 - 4) rated voltage in V
 - 5) SCHURTER Logo
- Additional marking: approval marks

16. Interchangeability of IEC- by UL fuse-links and Vice Versa



Fuse-links according to IEC and UL have different features and are on principle not interchangeable. However, after a thorough check of the technical data it may be possible to interchange, when the following, most important requirements are met.

- The rated currents must be adapted (see pos.7)
- The breaking capacity must be compatible.
- The time-current characteristic and voltage drop must be roughly the same.

17. Exchange of fuse-links under load

A fuseholder with an installed fuse-link shall not be used as a «switch» for turning power "on" and "off".

An opening and closing of electric-circuits may cause current- and voltage surges, depending on the dimension of the electric circuit. Such current or voltage peaks produce an arc between the contact points, which causes an increase of the contact resistance. In order to prevent the fuseholder from permanent damage, a fuselink shall only be exchanged when power in an electric circuit is switched off.

18. Quality assessment of fuse-links

SCHURTER fuse-links meet with the requirements according to IEC 60127-5 and EN 60127-5.
More detailed information is available on request.

19. Reliability of fuse-link (MIL-HDBK-217F)

The reliability modeling of fuses presents a unique problem. Unlike most other components, there is very little correlation between the number of fuse replacements and actual fuse failures. Generally when a fuse opens, or "blows" something else in the circuit has created an overload condition and the fuse is simply functioning as designed.

Fuse-link selection guide

1. The operating voltage U_B of the equipment to be protected defines the rated voltage U_N of the fuse-link (see pos. 6) $U_N \geq U_B$ For $U_B \ll U_N$ please refer to the remarks regarding voltage drop (see pos. 8).
2. The max. operating current of the equipment to be protected defines the rated current of the fuse-link. The different definitions for rated current according to IEC or UL as well as the influence of higher ambient temperatures are to be taken into consideration (pos. 6 and 14).
3. The possible fault current as well as its permitted operating times in the electric circuit of the equipment to be protected define the time-current-characteristic of the fuse-link (see pos. 10).
4. The necessary breaking capacity of the fuse-link depends on the max. short-circuit current, which can occur under fault conditions in the electric circuit of the equipment to be protected. It must be lower than the max. current which can be interrupted by the fuselink. (see pos. 11)
5. The rated power dissipation of the fuse-link is of importance for the selection of the suitable fuseholder (see pos. 12.2).
6. If current impulses occur in the electric circuit of the equipment to be protected, which may not interrupt the fuse-link under any circumstances or if the let-through-energy of the fuse-link may only reach a certain value (eg. protection of semi-conductors) the I^2t values have to be taken into consideration accordingly (see pos. 13).
7. The necessary approvals are mostly defined by national and international standards for equipment. SCHURTER fuse-links are according to international standards and were approved by the different agencies (refer to data sheets for the individual fuse-links).
8. It is essential that the selected fuse-links/fuse-holders that are fitted to the equipment to be protected, are being tested under normal and fault conditions, even if all relevant criteria for selection have been taken into consideration.



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