AEO 10.3x38

EV Fuse 10.3 x 38 mm, 1000 VDC, up to 50 A

new			
Standard version	Screw-on version	PCB version	Screw-on version (axial)
1000 VDC · EV Fuse		See below: Approvals and Compliant	ces
 Description High breaking capacity up to 50 kA @ 1000 VDC Manifold mounting versions Unique Selling Proposition Designed for electric vehicles (EV Car) Very high rated current up to 50 A 		Applications - Battery Management Syster - On-Board Battery Charger - DC/DC Converters - Air-Conditioning Compresso - PCT Heater References Corresponding Fuseholder	
		Weblinks pdf data sheet, html datashee Stock-Check, Accessories, D	et, General Product Information, Distributor- etailed request for product
Technical Data			
Rated Voltage	800 - 1000 VDC	Solderability	JESD22-B102E, Method 1
Rated current	10 - 50A	Resistance to Soldering Heat	JEDEC J-STD-020, Method B
Breaking Capacity	10 - 50kA	Solderability	245 °C / 2 sec acc. to IEC 60068-2-20,
Characteristic	EV Fuse		Test Ta, method 1
Mounting	Insert, PCB/THT, Screw	Resistance to Soldering Heat	
Admissible Ambient Air Te	emp40°C to 125°C		Test Tb, method 1A
Material: Tube	Ceramics	Operational Life	MIL-STD-202, Method 108 Condition D
Material: Endcaps	Ni/Sn-Plated Copper Alloy		1000h @ 0.4 x ln @ 125°C
Unit Weight	8.1 g	Vibration, High Frequency	MIL-STD-202, Method 204 Condition D
Storage Conditions	0°C to 60°C, max. 70% r.h.	Temperature Cycling	JESD22, Method JA-104 Condition G

Approvals and Compliances

Product Marking

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in Details about Approvals

Flame Retardance

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products. Approval Reference Type: AEO 10x38

"EV Fuse"

(, Type, Rated current, Rated Voltage, Breaking Capacity, CE mark, Approvals,

Approval Logo	Certificates	Certification Body	Description
c FL [°] us	UL Approvals	UL	UL File Number: E184831

AEC-Q200-001

AEO 10.3x38

Application standards

Application standards where the product can be used

Organization	Design	Standard	Description
I <u>EC</u>	Designed for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

Compliances

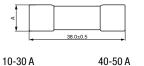
The product complies with following Guide Lines

The product complies wi	In following Guide Lines		
Identification	Details	Initiator	Description
CE	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
UK CA	UKCA declaration of conformity	SCHURTER AG	The UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 765/2008.
	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
©	China RoHS	SCHURTER AG	The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS.
REACH	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.
AEC Q200	Automotive	SCHURTER AG	AEC-Q200 is a test standard for passive components used in automotive applications. SCHURTER tests components according to the customer's agreement and is certified according to IATF 16949.

Dimension [mm] Standard

10.3 mm

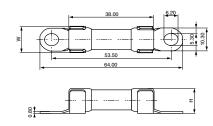
Screw-on mounting



Dimensions [mm] А

40-50 A ø10.4

ø10.3



Dimensions [mm] 10-30 A W 11.9±0.8 Н 11.1±0.8 Mounting Torque: 3-5Nm

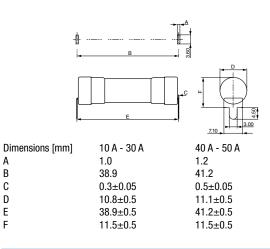
Screw mount (Axial)

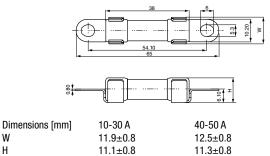
40-50 A 12.5±0.8 11.3±0.8

PCB terminals

A B C D E

F

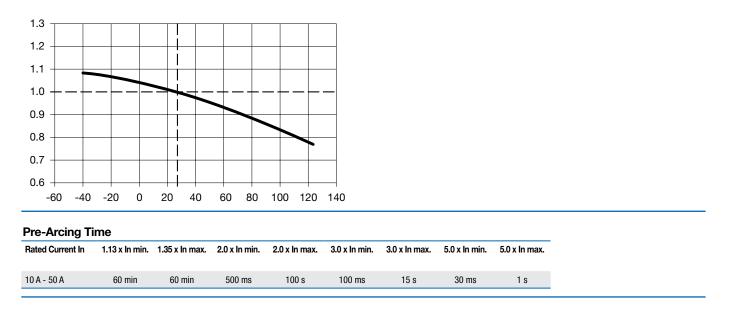




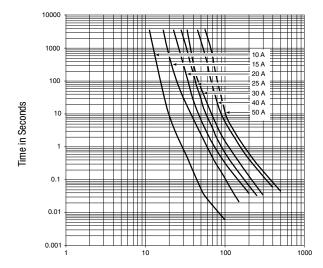
Н Mounting Torque: 3-5Nm

W

Derating Curves



Time-Current-Curves



Current in Amperes

All Variants

Rated Current [A]	Mounting	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 I _n max. [mV]	Power Dissipation 0.5 I _n typ. [mW]	Melting I ² t 10.0 I _n typ. [A ² s]	c ¶U us	Order Number
10	Standard	1000	1)	225	860	62	•	8020.2050
15	Standard	1000	1)	175	1000	488	٠	8020.2051
20	Standard	1000	1)	165	1300	1507	•	8020.2052
25	Standard	1000	1)	165	1400	2094	٠	8020.2056
30	Standard	1000	1)	155	1800	3150	•	8020.2053
40	Standard	800	2)	155	1800	9600	٠	8020.2054
50	Standard	800	2)	155	2600	11417	٠	8020.2055
10	Screw	1000	1)	225	860	62	٠	8020.2060

Rated Current [A]	Mounting	Rated Voltage [VDC]	Breaking Capacity	Voltage Drop 1.0 I _n max. [mV]	Power Dissipation 0.5 I _n typ. [mW]	Melting I ² t 10.0 I _n typ. [A ² s]	c 'RL 'us	Order Number
15	Screw	1000	1)	175	1000	488	•	8020.2061
20	Screw	1000	1)	165	1300	1507	٠	8020.2062
25	Screw	1000	1)	165	1400	2094	•	8020.2066
30	Screw	1000	1)	155	1800	3150	•	8020.2063
40	Screw	800	2)	155	1800	9600	•	8020.2064
50	Screw	800	2)	155	2600	11417	٠	8020.2065
10	Screw (Axial)	1000	1)	225	860	62	•	8020.2080
15	Screw (Axial)	1000	1)	175	1000	488	•	8020.2081
20	Screw (Axial)	1000	1)	165	1300	1507	•	8020.2082
25	Screw (Axial)	1000	1)	165	1400	2094	•	8020.2086
30	Screw (Axial)	1000	1)	155	1800	3150	•	8020.2083
40	Screw (Axial)	800	2)	155	1800	9600	•	8020.2084
50	Screw (Axial)	800	2)	155	2600	11417	•	8020.2085
10	PCB	1000	1)	225	860	62	٠	8020.2090
15	PCB	1000	1)	175	1000	488	٠	8020.2091
20	PCB	1000	1)	165	1300	1507	٠	8020.2092
25	PCB	1000	1)	165	1400	2094	•	8020.2096
30	PCB	1000	1)	155	1800	3150	•	8020.2093
40	PCB	800	2)	155	1800	9600	•	8020.2094
50	PCB	800	2)	155	2600	11417	٠	8020.2095

Availability for all products can be searched real-time:https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER

1) UL: 20 kA @ 1000 VDC with L/R < 3 ms; internal testing: 10 kA @ 275 VAC with 0.99 $\ge \cos \phi \ge 0.7$

1) Internal tests: 50 kA @ 1000 VDC with L/R \leq 1 ms

2) UL: 20 kA @ 800 VDC with L/R < 3 ms; internal testing: 10 kA @ 275 VAC with 0.99 \ge cos $\phi \ge$ 0.7

Ρ

Packaging Unit	Standard version	Bulk (10 pcs.)	
	PCB version	Bulk (100 pcs.)	
	Screw-on version	Bulk (50 pcs.)	

Accessories

Description



ESO 10.3x38 Fuse Inserter/Extractor with Cover Function for 10.3x38 mm Fuses in Clips, Patent Pending

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Cartridge Fuses category:

Click to view products by Schurter manufacturer:

Other Similar products are found below :

5TT3A-R MBO-20 MDM-4/10 MDQ-V-15/100 MDX-1-6/10 MDX-2 MDX-3-2/10 MDX-6-1/4 FLSR-15 FLSR-30 FRS-1-1/4 FRS-1-6/10 FRS-4/10 H362003 ABC-2 1/2A AGC-1-1/2RX AGC-15EX AGC-V-3-12-R AGY-50 15019-G MSL-1-1/2 MSL-1-1/4 MSL-1/2 MSL-1/4 MSL-3 MSL-3/4 MSL-4 MSL-5 BK1/C436-2A BK1-GMA-1-6-R BK1-S505-1-R BK1-S506-3-15-R BK/MDM-15 BK/MDM-3/4 S501-V-10A S505-V-500MA SEF-1697-1-002 301030 303030 FLA10 FLA-4/10 FLNR-5 20.0M6.3X32F GBB-17-1/2 301001 301020 311008 313.25 313.75