XL Fuse bases for XL Style photovoltaic fuse links





Product description

Eaton's Bussmann® series XL fuse bases with integral shields have been specifically designed to be fitted with Eaton's Bussmann series XL photovoltaic fuse links (see data sheet 10201).

XL Fuse bases for XL Style photovoltaic fuse links

Catalogue symbol

- SD1XL-S-PV to fit 01XL and 1XL PV Fuse links*
- SD2XL-S-PV to fit 2XL PV fuse links*
- SD3L-S-PV to fit 3L PV fuse links*

* Please refer to data sheet 10201 for details on Eaton's Bussmann series XL style photovoltaic fuse links

Technical data

- Rated voltage: 1500 V d.c.
- Rated current: 250, 400 and 500 A
- Power acceptance (Watts)
  - Sizes 01XL and 1XL: 57W
  - Size 2XL: 75W
  - Size 3L: 108W
- Continuous load current: 100 % for all PV XLfuse links ratings apart from the fuse links listed below
  - PV-250A-2XL-15: Continuous load rating of 95%
  - PV-350A-3L: Continous load rating of 90%
  - PV-400A-3L: Continuous load rating of 70%
- Degree of protection level: IP20 with terminal covers in place and shielding of any exposed part of the terminal lugs
- Operating temperature range: -45°C to 80°C (with fuse link derating above 30°C)

Ambient Temperature	De-Rating
20°C	1
30°C	0.95
40°C	0.90
50°C	0.80
60°C	0.70
70°C	0.50

- Screw mounting, dimensions and spacing of screw holes are shown on drawing and dimension table page 3
- Terminal/Lug mounting torque: 32N•m
- Fuse terminals mounting terminals: 12 N•m
- Silver plated copper fuse clips
- UL94 Flammability rating: base V-0, terminal cover V-0
- Glow wire test (IEC-695) 960°C
- Multiple poles can be configured with use of phase barrier accessory kit (SDsize-PB)
- Weight:
  - SD1XL-S-PV: 0.37 kg
  - SD2XL-S-PV: 0.53 kg
  - SD3L-S-PV: 0.65 kg

Standards/Approvals

- IEC 60269-1
- UL Listed (file number E348242)

Packaging

- MOQ: 1

Application note

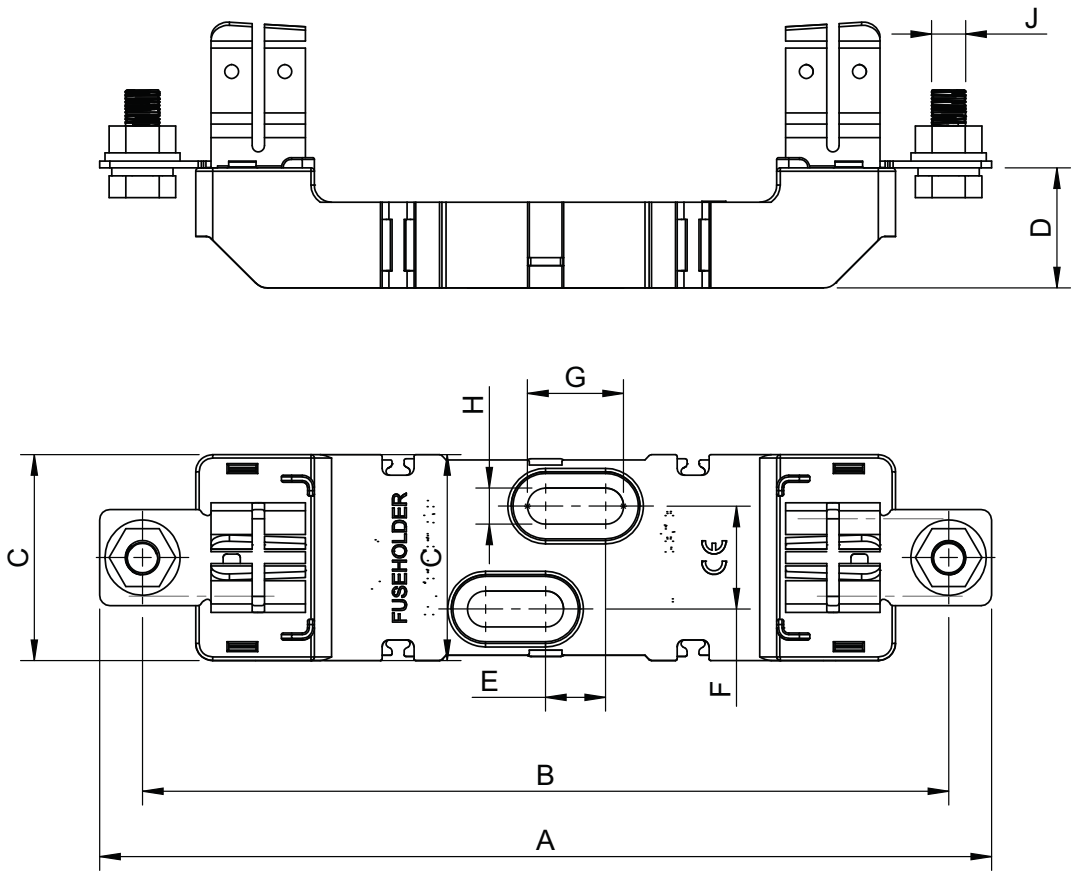
Rated current (In) of the sub-array or array fuse links shall be 1.25 x Isc_array < In < 2.4 Isc_array in accordance with IEC 60269-6 where
Isc_array is the current at the output terminals of a PV array at a particular temperature and irradiance when the device output voltage is equal to or close to zero. Thus the current experienced by the fuse link and fuse base under normal PV array service conditions will not exceed 0.8 x In . These Eaton recommendations are based on this worst case condition.

Technical Data 10685
Effective October 2018

XL Fuse bases for XL Style photovoltaic fuse links

Dimensions - mm

Catalogue numbers	XL Style fuse link size	Maximum fuse rated current (Amps)	Power acceptance	A	B	C	D	E	F	G	H	J
SD1XL-S-PV	01XL, 1XL	250	57W	260	235	60	35	17.5	30	28	10.5	M10
SD2XL-S-PV	2XL	400	75W	285	260	60	35	17.5	30	28	10.5	M12
SD3L-S-PV	3L	500	108W	300	270	60	35	17.5	30	28	10.5	M12



Changes to the products, to the information contained in this document, and to prices are reserved; so are errors and omissions. Only order confirmations and technical documentation by Eaton is binding. Photos and pictures also do not warrant a specific layout or functionality. Their use in whatever form is subject to prior approval by Eaton. The same applies to Trademarks (especially Eaton, Moeller, and Cutler-Hammer). The Terms and Conditions of Eaton apply, as referenced on Eaton Internet pages and Eaton order confirmations.

Eaton
EMEA Headquarters
Route de la Longeraie 7
1110 Morges, Switzerland

Eaton Electrical Products Limited
Melton Road
Burton-on-the-Wolds
Leicestershire, LE12 5TH
United Kingdom

© 2018 Eaton
All Rights Reserved
PDF Only
Publication No. 10685
October 2018

Powering Business Worldwide

Eaton is a registered trademark.

All other trademarks are property of their respective owners.