

SPXV-S SERIES SOLAR FUSE

1500 Vdc • 1 – 30 A



Description

The Littelfuse SPXV-S silver plated solar string fuse is designed specifically for 1-30 A 1500 Vdc applications.

Features/Benefits

- 10 x 85 mm package size
- UL 248-19 Listed
- Meets IEC 60269-6 electrical performance requirements
- Up to 50,000A interrupting rating

Applications

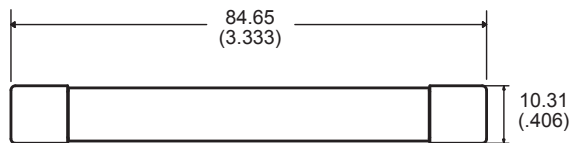
- Inverters
- Combiner boxes

Web Resources

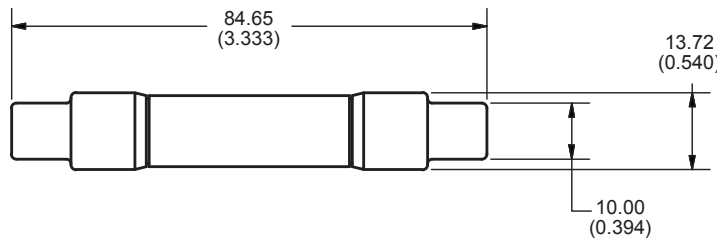
Download technical resources at:
littelfuse.com/spxvs

Dimensions mm (inches)

1 – 20 A



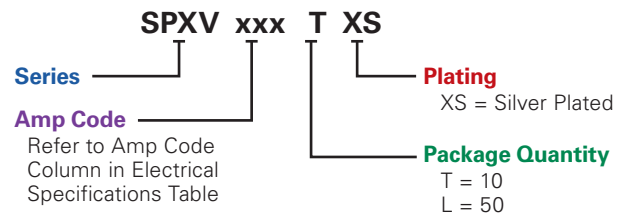
25 – 30 A



Specifications

Voltage Rating	1500 Vdc
Amperage Rating	1, 2, 2.25, 2.5, 3, 3.5, 4, 5, 6, 8, 10, 12, 15, 20, 25, 30 A
Interrupting Rating	15 kA (UL 248-19) 50 kA (Self-Certified) 1A – 20A 30 kA (Self-Certified) 25A – 30A
Time Constant	≤ 1ms
Material	Body: Melamine Caps: Copper Alloy (Silver Plated)
Approvals	UL 248-19 Listed (File: E339112)
Environmental	RoHS Compliant REACH
Country of Origin	Mexico

Part Numbering System



SERIES	AMP	PACKAGE QUANTITY	CATALOG NUMBER	ORDERING NUMBER
SPXVS	6	10	SPXV006-S	SPXV006.TXS
SPXVS	20	50	SPXV020-S	SPXV020.LXS

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Ordering Information

SERIES	AMPERAGE	AMP CODE	CATALOG NUMBER	PRODUCT MARKING	PACK QUANTITY	ORDERING NUMBER	UPC
SPXV	1	006.	SPXV006-S	SPXV 1-S	10	SPXV001.TXS	07945822105
					50	SPXV001.LXS	07945822106
SPXV	2	008.	SPXV008-S	SPXV 2-S	10	SPXV002.TXS	07945822107
					50	SPXV002.LXS	07945822108
SPXV	2.25	010.	SPXV010-S	SPXV 2 ¼-S	10	SPXV2.25TXS	07945822109
					50	SPXV2.25LXS	07945822110
SPXV	2.5	012.	SPXV012-S	SPXV 2 ½-S	10	SPXV02.5TXS	07945822111
					50	SPXV02.5LXS	07945822112
SPXV	3	015.	SPXV015-S	SPXV 3-S	10	SPXV003.TXS	07945822113
					50	SPXV003.LXS	07945822114
SPXV	3.5	020.	SPXV020-S	SPXV 3 ½-S	10	SPXV03.5TXS	07945822115
					50	SPXV03.5LXS	07945822116
SPXV	4	025.	SPXV025-S	SPXV 4-S	10	SPXV004.TXS	07945819882
					50	SPXV004.LXS	07945819884
SPXV	5	030.	SPXV030-S	SPXV 5-S	10	SPXV005.TXS	07945819886
					50	SPXV005.LXS	07945819888
SPXV	6	006.	SPXV006-S	SPXV 6-S	10	SPXV006.TXS	07945884279
					50	SPXV006.LXS	07945884278
SPXV	8	008.	SPXV008-S	SPXV 8-S	10	SPXV008.TXS	07945884281
					50	SPXV008.LXS	07945884280
SPXV	10	010.	SPXV010-S	SPXV 10-S	10	SPXV010.TXS	07945884283
					50	SPXV010.LXS	07945884282
SPXV	12	012.	SPXV012-S	SPXV 12-S	10	SPXV012.TXS	07945884285
					50	SPXV012.LXS	07945884284
SPXV	15	015.	SPXV015-S	SPXV 15-S	10	SPXV015.TXS	07945884287
					50	SPXV015.LXS	07945884286
SPXV	20	020.	SPXV020-S	SPXV 20-S	10	SPXV020.TXS	07945884289
					50	SPXV020.LXS	07945884288
SPXV	25	025.	SPXV025-S	SPXV 25-S	10	SPXV025.TXS	07945884291
					50	SPXV025.LXS	07945884290
SPXV	30	030.	SPXV030-S	SPXV 30-S	10	SPXV030.TXS	07945884293
					50	SPXV030.LXS	07945884292

Electrical Specifications

AMPERAGE	VOLTAGE	INTERRUPTING RATING		NOM COLD RESISTANCE (ohm)	WATTS LOSS AT 100% RATED CURRENT (W)	WATTS LOSS AT 80% RATED CURRENT (W)	MELTING I ² T (A ² S) 15 kA (1500Vdc)	TOTAL CLEARING I ² T (A ² S) 15 kA (1500 Vdc)
		AC	DC*					
1	1500	—	50kA	0.9256	1.67	0.90	.27	0.48
2	1500	—	50kA	0.2891	2.17	1.10	1.35	3.24
2.25	1500	—	50kA	0.2492	2.43	1.21	1.59	4.44
2.5	1500	—	50kA	0.2234	2.90	1.40	3.68	5.8
3	1500	—	50kA	0.1587	2.91	1.41	6	12
3.5	1500	—	50kA	0.1240	2.95	1.47	10	19
4	1500	—	50kA	0.1229	2.96	1.65	14	24
5	1500	—	50kA	0.0760	3.01	1.66	48	71
6	1500	—	50kA	0.0576	3.05	1.71	49	75
8	1500	—	50kA	0.0349	3.26	1.84	121	214
10	1500	—	50kA	0.0223	3.25	1.82	407	509
12	1500	—	50kA	0.0163	3.34	1.89	798	951
15	1500	—	50kA	0.0131	5.27	3.05	299	637
20	1500	—	50kA	0.0085	5.38	3.14	701	1464
25	1500	—	30kA	0.0064	5.64	3.18	2671	3202
30	1500	—	30kA	0.0052	7.16	3.93	3770	4692

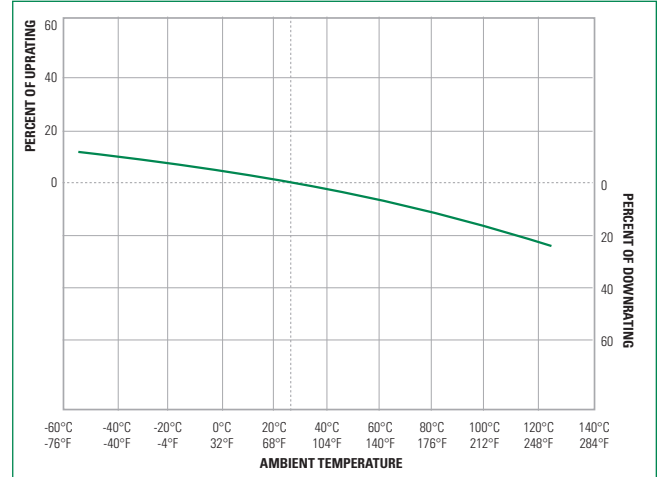
* 15 kA per UL 248-19

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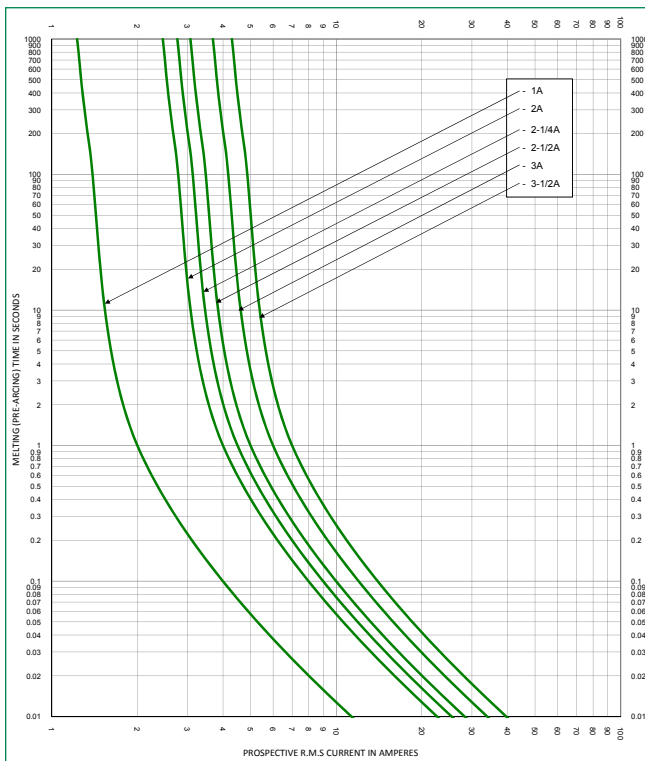
Electrical Specification — Agency Requirements

AMPERE RATING	OPENING TIME (MINUTES)				
	100% of Amp Rating per UL	113% of Amp Rating per IEC	135% of Amp Rating per UL	145% of Amp Rating per IEC	200% of Amp Rating per UL
1-30	Temperature Stabilization	60 Min	60 Max	60 Max	4 Max

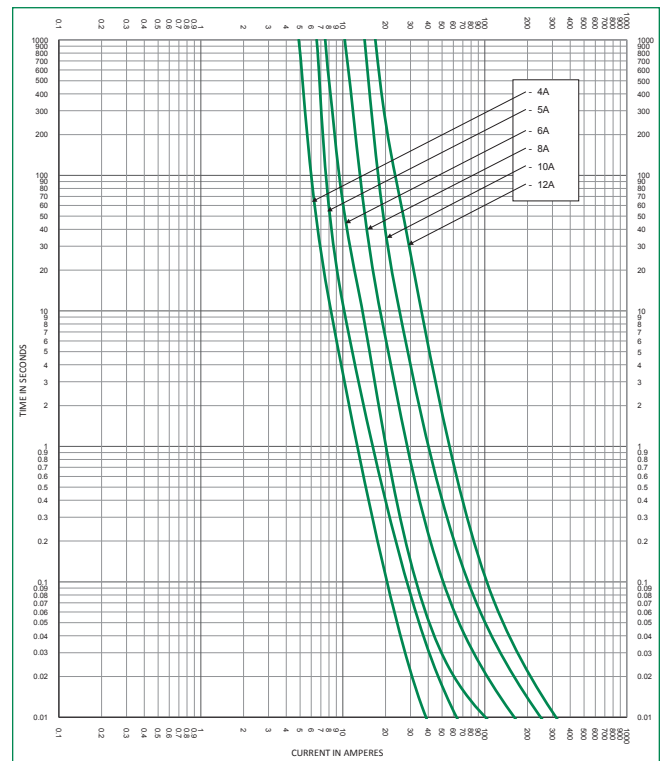
Temperature Derating Curve (Temperature of Air Immediately Surrounding Fuse)



Time Current Curve (1-3.5 A)

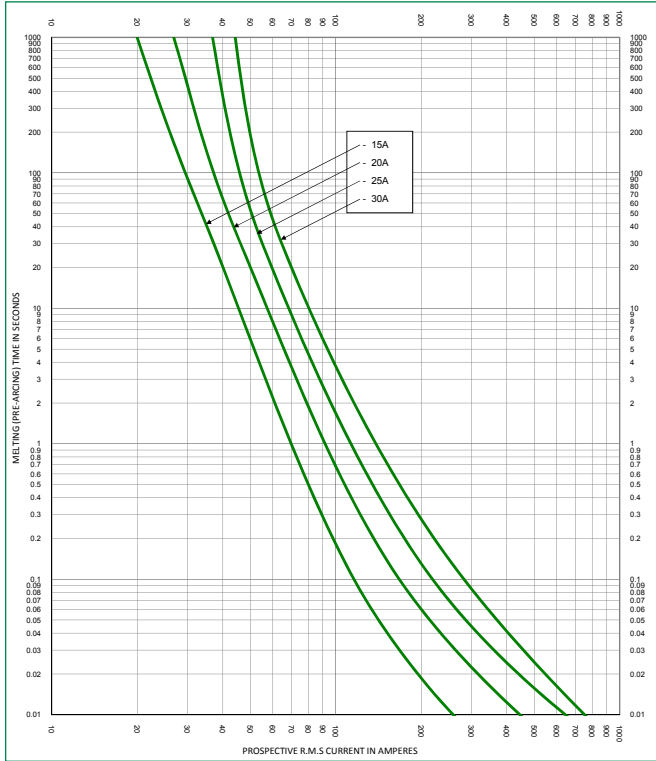


Time Current Curve (4-12 A)



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Time Current Curve (15-30 A)



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