

UL IEC DVE CSA CE gPV RoHS



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Rev:4-D-052413

SPF SERIES SOLAR FUSES

Electrical Specifications

Ferrule Version

AMPERAGE	AMP CODE	ORDERING NUMBER	UPC	VOLTAGE	INTERRUPTING RATING		NOM COLD RESISTANCE (ohm)	WATTS LOSS AT 100% RATED CURRENT (W)	WATTS LOSS AT 80% RATED CURRENT (W)	TOTAL CLEARING I ² t (A ² s) 10 kA	TOTAL CLEARING I ² t (A ² s) 20 kA	AGENCY APPROVALS		
				DC	AC	DC						UL	VDE	CSA
1	001.	OSPF001.T	07945816907	1000	—	20 kA	0.394	0.602	0.410	0.554	0.554	•		•
2	002.	OSPF002.T	07945816910	1000	—	20 kA	0.237	1.586	0.851	1.175	4.755	•	•	•
3	003.	OSPF003.T	07945816913	1000	—	20 kA	0.11	1.504	0.824	5.007	7.882	•	•	•
3.5	03.5	OSPF03.5T	07945880087	1000	—	20 kA	0.07787	1.365	0.778	11.297	11.297	•		•
4	004.	OSPF004.T	07945816916	1000	—	20 kA	0.06127	1.491	0.839	23.031	23.031	•	•	•
5	005.	OSPF005.T	07945816919	1000	—	20 kA	0.04086	1.465	0.859	42.600	42.600	•	•	•
6	006.	OSPF006.T	07945816922	1000	—	20 kA	0.0281	1.348	0.769	76.270	80.254	•	•	•
8	008.	OSPF008.T	07945816925	1000	—	20 kA	0.0178	1.610	0.914	193.323	198.960	•	•	•
10	010.	OSPF010.T	07945816928	1000	—	20 kA	0.0125	1.760	1.000	395.556	401.208	•	•	•
12	012.	OSPF012.T	07945816931	1000	—	20 kA	0.00993	1.965	1.109	599.198	641.940	•	•	•
15	015.	OSPF015.T	07945816934	1000	—	20 kA	0.00799	2.282	1.382	457.740	504.770	•	•	•
20	020.	OSPF020.T	07945816937	1000	—	20 kA	0.0045	2.810	1.574	1173.990	1312.850	•	•	•
25	025.	OSPF025.T	07945817595	1000	—	20 kA	0.00353	2.981	1.745	1937.430	2371.140	•	•	•
30	030.	OSPF030.T	07945817598	1000	—	20 kA	0.00284	3.923	2.125	2209.480	2678.750	•		•

Electrical Specifications

PCB Version

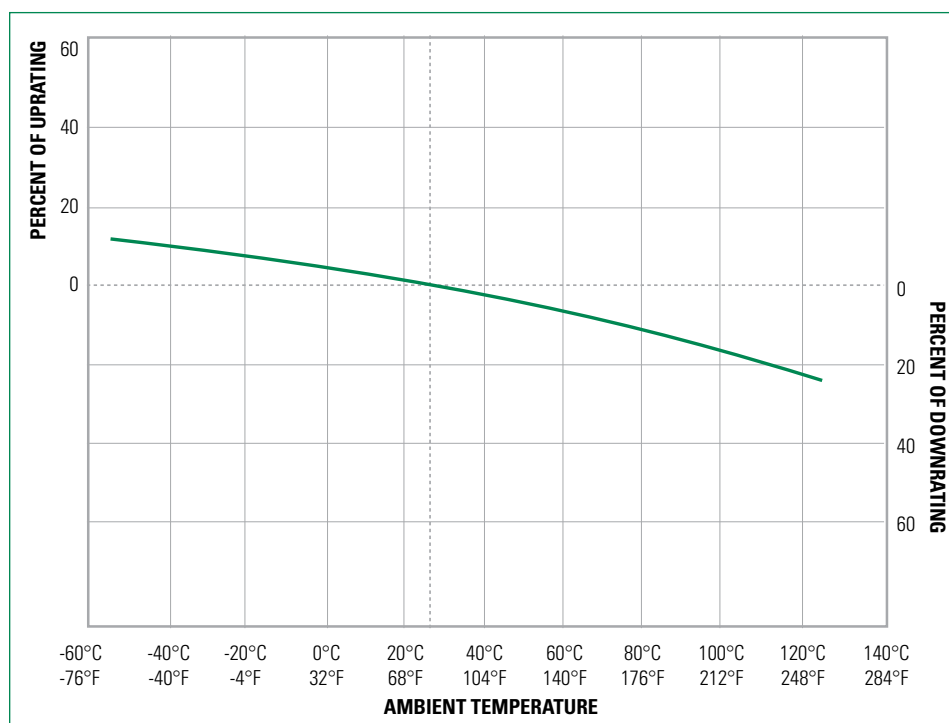
AMPERAGE	AMP CODE	ORDERING NUMBER	UPC	VOLTAGE	INTERRUPTING RATING		NOM COLD RESISTANCE (ohm)	WATTS LOSS AT 100% RATED CURRENT (W)	WATTS LOSS AT 80% RATED CURRENT (W)	TOTAL CLEARING I ² t (A ² s) 10 kA	TOTAL CLEARING I ² t (A ² s) 20 kA	AGENCY APPROVALS	
				DC	AC	DC						UL	CSA
1	001.	OSPF001.HXR	07945816909	1000	—	20 kA	0.394	0.602	0.410	0.554	0.554	•	•
2	002.	OSPF002.HXR	07945816912	1000	—	20 kA	0.237	1.586	0.851	1.175	4.755	•	•
3	003.	OSPF003.HXR	07945816915	1000	—	20 kA	0.11	1.504	0.824	5.007	7.882	•	•
3.5	03.5	OSPF03.5HXR	07945880089	1000	—	20kA	0.07787	1.365	0.778	11.297	11.297	•	•
4	004.	OSPF004.HXR	07945816918	1000	—	20 kA	0.06127	1.491	0.839	23.031	23.031	•	•
5	005.	OSPF005.HXR	07945816921	1000	—	20 kA	0.04086	1.465	0.859	42.600	42.600	•	•
6	006.	OSPF006.HXR	07945816924	1000	—	20 kA	0.0281	1.348	0.769	76.270	80.254	•	•
8	008.	OSPF008.HXR	07945816927	1000	—	20 kA	0.0178	1.610	0.914	193.323	198.960	•	•
10	010.	OSPF010.HXR	07945816930	1000	—	20 kA	0.0125	1.760	1.000	395.556	401.208	•	•
12	012.	OSPF012.HXR	07945816933	1000	—	20 kA	0.00993	1.965	1.109	599.198	641.940	•	•
15	015.	OSPF015.HXR	07945816936	1000	—	20 kA	0.00799	2.282	1.382	457.740	504.770	•	•
20	020.	OSPF020.HXR	07945817594	1000	—	20 kA	0.0045	2.810	1.574	1173.990	1312.850	•	•
25	025.	OSPF025.HXR	07945817597	1000	—	20 kA	0.00353	2.981	1.745	1937.430	2371.140	•	•
30	030.	OSPF030.HXR	07945817600	1000	—	20 kA	0.00284	3.923	2.125	2209.480	2678.750	•	•

SPF SERIES SOLAR FUSES

Electrical Specification – Agency Requirements

AMPERAGE 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

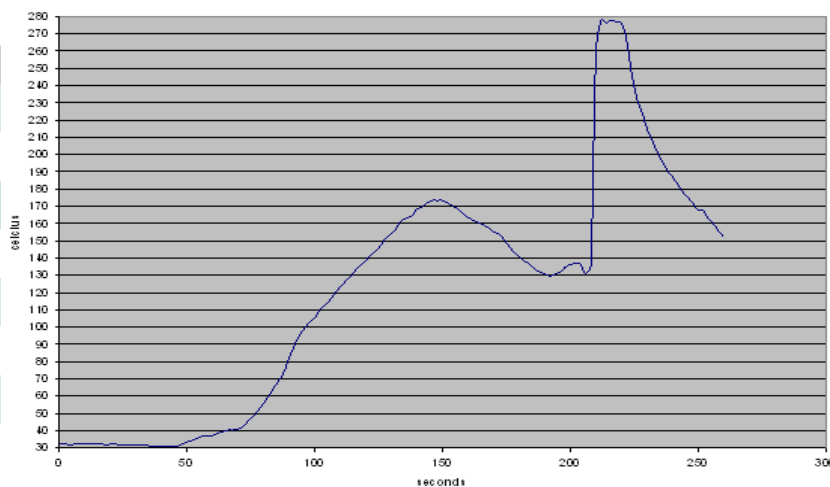
Temperature Derating Curve (Temperature of Air Immediately Surrounding Fuse)



Recommended Process Parameters

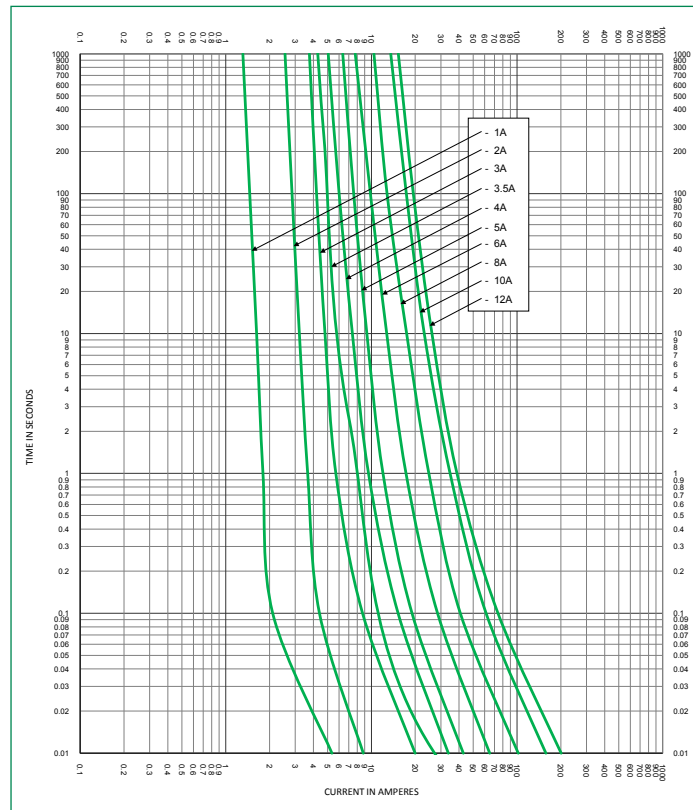
WAVE PARAMETER	LEAD FREE RECOMMENDATION
PREHEAT:	(Typical Industry Recommendation)
TEMPERATURE MINIMUM:	130° C
TEMPERATURE MAXIMUM:	—
PRE-HEAT TIME	75 Seconds Maximum
SOLDER POT TEMPERATURE	280° C Maximum
SOLDER DWELL TIME	270° C for 8 Seconds Maximum
COMPLETE CYCLE TIME	250 Seconds Maximum

Soldering Parameters



SPF SERIES SOLAR FUSES

Time Current Curve (1-12 A)



Time Current Curve (15-30 A)

