

Semiconductor Fuses



American Round Fuses

Form 101

A100P



A100P Amp-trap® Form 101 semiconductor protection fuses are rated 1000V, extending the range of protection for UPS systems, AC and DC drives, reduced voltage motor starters and similar applications where lower I²t and superior reliability are needed. With ratings from 15 through 1000 amperes, a wide range of high voltage applications can be served.

Features/Benefits

- ✓ **Low I²t** minimizes damage to protected components on short circuit
- ✓ **Controlled arc voltage** reduces stress to circuit components during fuse clearing
- ✓ **Wide range of ampere ratings**

Ratings

- ✓ **AC:** 15-30A
1000VAC, 100kA I.R.
35-1000A
1000VAC, 100kA I.R.
- ✓ **DC:** 15-1000A
750VDC, 100kA I.R.

Approvals

- ✓ UL Recognized Component
- ✓ AC: UL Guide No. JFHR2 (60-800A)
- ✓ DC: Ferraz Shawmut Certified

HIGHLIGHTS:

- ✓ Fast Acting
- ✓ Current Limiting
- ✓ Low I²t
- ✓ Optional Trigger Indicator



APPLICATIONS:

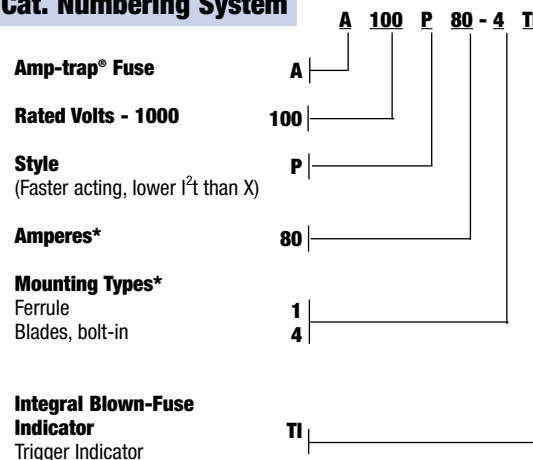
- ✓ Protection of UPS systems AC/DC drives, reduced voltage motor starters and other 1000V or less semiconductor devices
- ✓ Spares market only
For new installations, refer to PSC range

Single Pole Fuse Blocks for A100P Fuses

FUSE AMPERE RATING	FUSE BLOCK	
	CATALOG NUMBER	REFERENCE NUMBER
35-100	P266G	Z214428
125-400	P266L	J215955



Cat. Numbering System



* For ampere ratings and types not listed, ask sales agent.

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Standard Fuse Ampere Ratings, Catalog and Reference Numbers

AMPERE RATING	CATALOG NUMBER	REFERENCE NUMBER	OUTLINE FIG.	AMPERE RATING	CATALOG NUMBER	REFERENCE NUMBER	OUTLINE FIG.	AMPERE RATING	CATALOG NUMBER	REFERENCE NUMBER	OUTLINE FIG.
15	A100P15-1	D222643	1	-	-	-	-	350	A100P350-4	Q201494	2
20	A100P20-1	Y212265	1	100	A100P100-4	A215832	2	-	-	-	-
25	A100P25-1	J216852	1	-	-	-	-	400	A100P400-4	Z212266	2
30	A100P30-1	E218918	1	125	A100P125-4	D218917	2	-	-	-	-
35	A100P35-4	S223162	2	-	-	-	-	500	A100P500-4	W214816	3
40	A100P40-4	A211232	2	150	A100P150-4	R223161	2	-	-	-	-
50	A100P50-4	Q213799	2	-	-	-	-	600	A100P600-4	A217373	3
-	-	-	-	200	A100P200-4	J212781	2	-	-	-	-
60	A100P60-4	G216344	2	-	-	-	-	650	A100P650-4	F218919	4
-	-	-	-	225	A100P225-4	F216343	2	700	A100P700-4	T223163	4
65	A100P65-4	-	2	250	A100P250-4	Z217372	2	800	A100P800-4	B211233	4
-	-	-	-	300	A100P300-4	T219437	2	-	-	-	-
80	A100P80-4	R201495	2	-	-	-	-	1000	A100P1000-4	Y217371	5

For ampere ratings and styles not listed, ask sales agent. All of these catalog and reference numbers are without TI

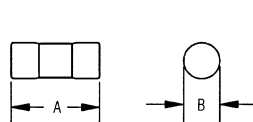


Figure 1

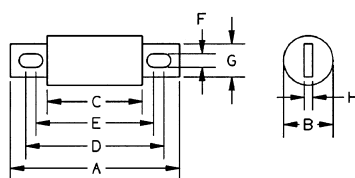


Figure 2

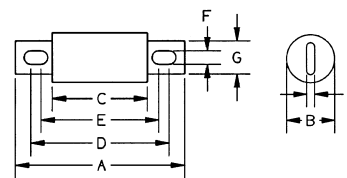


Figure 3

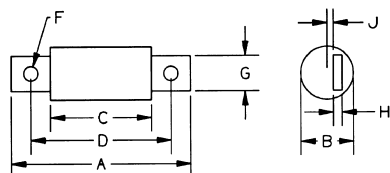


Figure 4

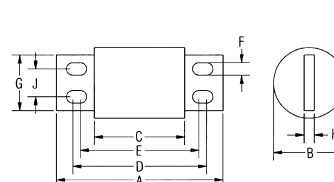


Figure 5

Dimensions

CATALOG NUMBER	MOUNTING TYPE	FIG.	DIMENSIONS - INCHES (mm)									
			A	B	C	D	E	F	G	H	J	
A100P15 to 30	1	1	2.63 (66.8)	0.56 (14.2)	-	-	-	-	-	-	-	-
A100P35 to 60	4, 4TI	2	5.00 (127)	1.00 (25.4)	3.50 (173)	4.31 (109)	4.19 (106)	0.31 (7.9)	0.75 (19.1)	0.13 (3.3)	-	-
A100P65 to 100	4, 4TI	2	5.00 (127)	1.22 (31.0)	3.50 (173)	4.31 (109)	4.19 (106)	0.31 (7.9)	1.00 (25.4)	0.19 (4.8)	-	-
A100P125 to 200	4, 4TI	2	5.72 (145)	2.00 (38.1)	3.47 (88.1)	4.78 (121)	4.16 (106)	0.41 (10.4)	1.00 (25.4)	0.25 (6.4)	-	-
A100P225 to 400	4, 4TI	2	5.72 (145)	2.00 (50.8)	3.47 (88.1)	4.78 (121)	4.16 (106)	0.41 (10.4)	1.50 (25.4)	0.25 (6.4)	-	-
A100P500 to 600	4, 4TI	3	7.72 (196)	2.50 (63.5)	3.47 (88.1)	5.88 (149)	5.56 (141)	0.53 (13.5)	2.00 (50.8)	0.38 (9.7)	-	-
A100P650 to 800	4, 4TI	4	7.44 (189)	2.88 (73.2)	3.94 (100)	5.94 (151)	-	0.63 (16.0)	2.00 (50.8)	0.38 (9.7)	0.31 (7.9)	-
A100P1000	4	5	8.22 (209)	3.50 (88.9)	4.47 (114)	6.59 (167)	5.84 (148)	0.63 (16.0)	2.75 (69.9)	0.50 (12.7)	1.38 (35.1)	-

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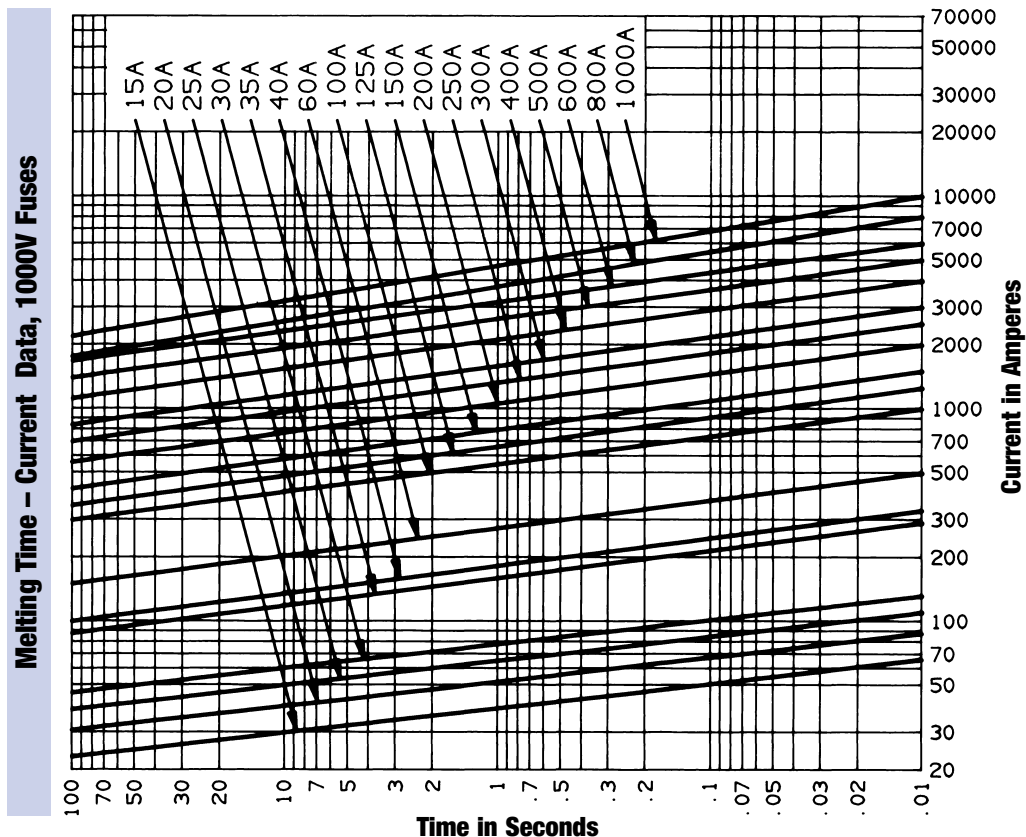


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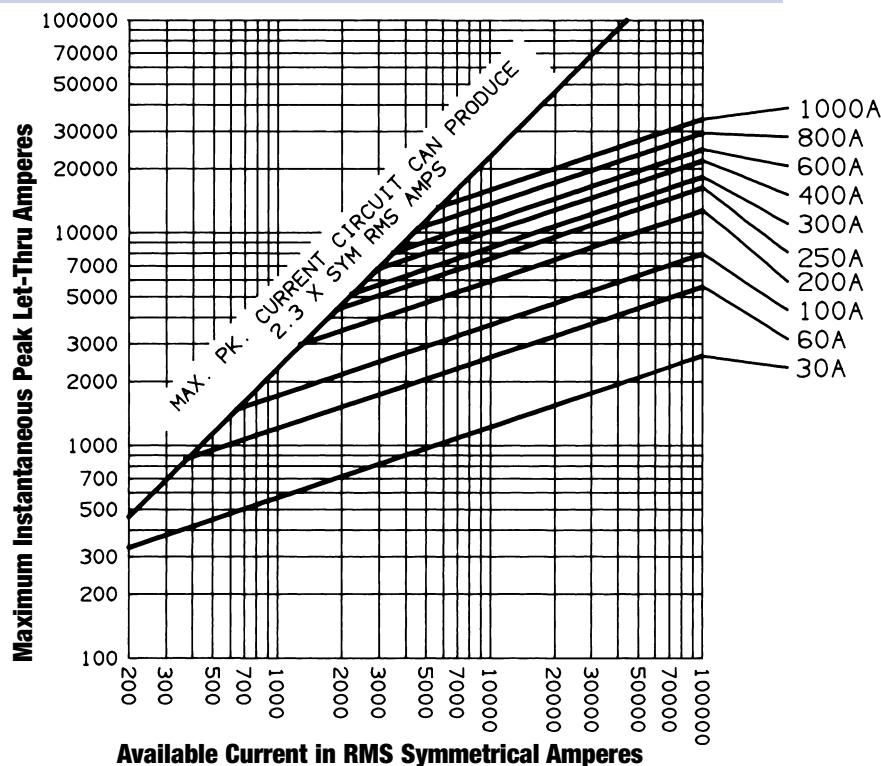
Form 101

A100P

A100P15 to 1000



Peak Let-Thru Current Data – A100P30 to 1000, 1000 Volts AC



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Form 101

A100P

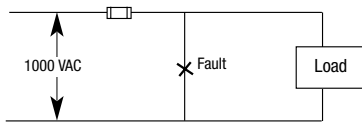
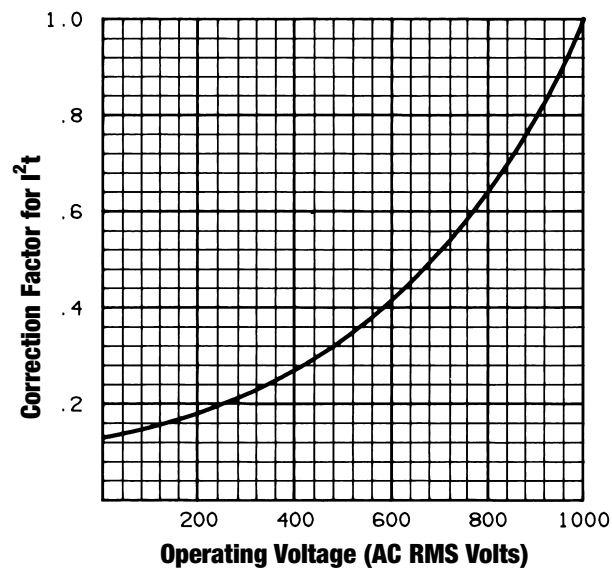


Fig. A

I²t Data – 1000 Volts AC, 100kA

FUSE AMPERE RATING	I ² t DATA	
	MELTING (A ² s x 10 ³)	CLEARING @ 1000VAC FIG. A (A ² s x 10 ³)
35	.29	2.2
40	.38	2.9
50	.60	4.5
60	.86	6.5
65	1.0	7.6
70	1.2	8.8
80	1.5	12
100	2.4	18
125	3.8	28
150	5.4	41
200	9.6	72
225	12	91
250	15	110
300	22	160
350	29	220
400	38	290
500	60	450
600	86	650
650	100	760
700	120	880
800	150	1,200
1,000	240	1,900

Clearing I²t vs. AC Operating Voltage



Watts Loss at Rated Current

AMPERE RATING	WATTS LOSS	AMPERE RATING	WATTS LOSS
35	7.3	250	45
40	8.3	300	55
50	11	350	65
60	13	400	70
70	13	500	90
80	14	600	110
100	18	650	120
125	23	700	125
150	28	800	140
200	36	1000	190
225	40		

Watts Loss vs. % Rated Current

