

# A50P Semiconductor Protection Fuses

A50P Amp-Trap® Form 101 Semiconductor Protection fuses were developed for DC drives, uninterruptable power supplies and similar applications requiring better protection (lower I<sup>2</sup>t) and superior reliability. The A50P is typically used for replacement.

## Features/Benefits:

- Low I<sup>2</sup>t minimizes damage to protected components on short circuit
- Controlled arc voltage reduces stress to circuit components during fuse clearing
- Choice of mounting types helps in equipment design

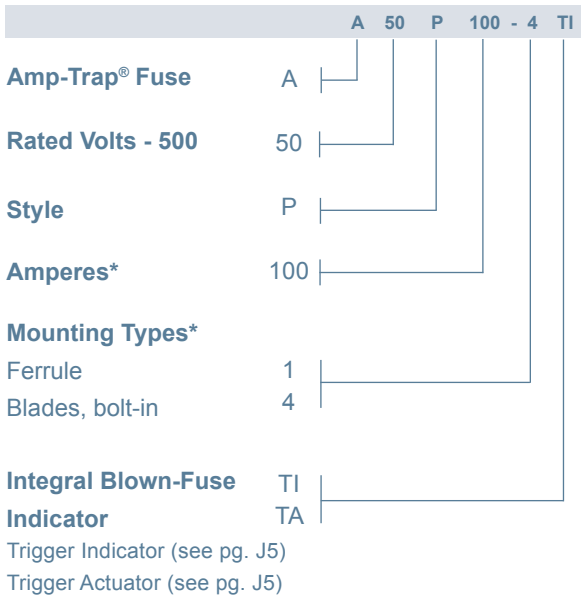
## Highlights:

- Very fast acting
- Current limiting
- Low I<sup>2</sup>t
- Indicator options available

## Applications:

- Protection of DC drives, UPS and other equipment of 500 volts or less

## Catalog Numbering System



\* Contact technical services for applications data.

\* For ampere ratings and styles not listed, call Technical Services at 978-465-4853.

## Single Pole Fuse Blocks for A50P Fuses

Fuse Ampere Rating	Mounting Type	Fuse Block Catalog No.
10-30	1	70316
35-60	4	P243G
70-200	4	P243E
225-600	4	P266C
700-800	4	1SC375
900-1000	4	FH50F5*

\*(not UL)



## Ratings:

- Volts** : 500VAC  
: 450VDC
- Amps** : 10 to 1200A (AC)  
: 35 to 1000A (DC)
- I.R.** : 100kA I.R. AC  
: 79kA I.R. DC
- L/R** : 10ms

## Approvals:

- UL Recognized Component  
UL File 60314
- AC: UL Guide No. JFHR2  
(10-800A)
- DC: UL Guide No. JFHR2  
(35-800A)



**MERSEN**

# A50P Semiconductor Protection Fuses

## Catalog Numbers (amps)

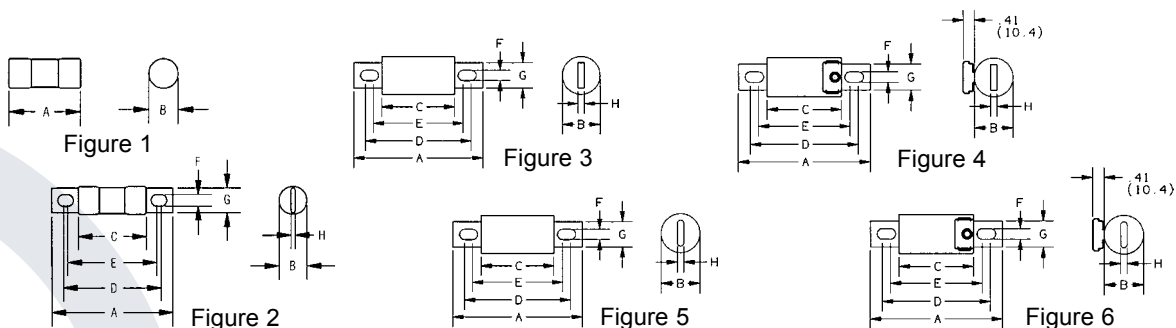
Catalog No.	Dimen. Fig.	Catalog No.	Dimen. Fig.	Catalog No.	Dimen. Fig.
A50P10-1	1	A50P175-4	3	A50P450-4	3
A50P15-1	1	A50P175-4TI	3	A50P450-4TI	3
A50P20-1	1	A50P200-4	3	A50P500-4	3
A50P25-1	1	A50P200-4TA	4	A50P500-4TI	3
A50P30-1	1	A50P200-4TI	3	A50P600-4	3
A50P35-4	2	A50P225-4	3	A50P600-4TA	4
A50P40-4	2	A50P250-4	3	A50P600-4TI	3
A50P50-4	2	A50P250-4TA	4	A50P700-4	5
A50P60-4	2	A50P250-4TI	3	A50P700-4TA	6
A50P70-4	3	A50P275-4	3	A50P700-4TI	5
A50P80-4	3	A50P300-4	3	A50P800-4	5
A50P90-4	3	A50P300-4TA	4	A50P800-4TA	6
A50P100-4	3	A50P300-4TI	3	A50P800-4TI	5
A50P100-4TI	3	A50P325-4	3	A50P900-4	3
A50P125-4	3	A50P350-4	3	A50P1000-4	3
A50P125-4TA	4	A50P350-4TI	3	A50P1000-4TI	3
A50P125-4TI	3	A50P400-4	3	A50P1200-4	3
A50P150-4	3	A50P400-4TA	4	A50P1200-4TI	3
A50P150-4TI	3	A50P400-4TI	3		

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## Dimensions

Outline Ref.	Mounting Type	Fig.	Dimensions - Inches (mm)								
			A	B	C	D	E	F	G	H	
A50P10 to 30	1	1	2.00 (50.8)	0.56 (14.2)	-	-	-	-	-	-	-
A50P35 to 60	1DS*	1	2.25 (57.2)	0.81 (20.6)	-	-	-	-	-	-	-
A50P35 to 60	4	2	3.19 (81.0)	0.81 (20.6)	1.63 (41.4)	2.50 (63.5)	2.25 (57.2)	0.34 (8.6)	0.72 (18.3)	0.13 (3.3)	
A50P70 to 100	4	3	3.63 (92.2)	1.00 (25.4)	2.13 (54.1)	2.94 (74.7)	2.81 (71.4)	0.31 (7.9)	0.75 (19.1)	0.13 (3.3)	
A50P125 to 200	4, 4TA**	3, 4**	3.63 (92.2)	1.22 (31.0)	2.13 (54.1)	2.94 (74.7)	2.81 (71.4)	0.31 (7.9)	1.00 (25.4)	0.19 (4.8)	
A50P225 to 400	4, 4TA**	3, 4**	4.34 (110)	1.50 (38.1)	2.09 (53.1)	3.41 (86.6)	2.78 (70.6)	0.41 (10.4)	1.00 (25.4)	0.25 (6.4)	
A50P450 to 600	4, 4TA**	3, 4**	4.47 (114)	2.00 (50.8)	2.22 (56.4)	3.53 (89.7)	2.91 (73.9)	0.41 (10.4)	1.50 (38.1)	0.25 (6.4)	
A50P700 to 800	4, 4TA**	5, 6**	6.47 (164)	2.50 (63.5)	2.22 (56.4)	4.63 (118)	4.31 (109)	0.53 (13.5)	2.00 (50.8)	0.38 (9.7)	
A50P900 to 1200	4	3	6.97 (177)	3.00 (76.2)	3.22 (81.8)	4.97 (126)	***	0.63 (16.0)	2.38 (60.5)	0.44 (11.1)	

\* Use with 60306J fuse block.  
 \*\* Optional Trigger Actuator (TA)  
 \*\*\* Mounting hole is round, diameter F.



For the most current product performance data visit [us-ferrazshawmut.mersen.com](http://us-ferrazshawmut.mersen.com) and use catalog search.