

A50P

Amp-Trap® Form 101

HIGH SPEED FUSES



A50P Amp-Trap Form 101 high speed fuses were developed for DC drives, uninterruptable power supplies and similar applications requiring better protection (lower I²t) and superior reliability. The A50P is typically used for replacement.

FEATURES/BENEFITS

- Low I²t 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

Catalog Numbering System					
A	50	P	100	- 4	TI
Amp-Trap Fuse	Rated Voltage - 500	Style	Amperes*	Mounting Types*	Integral Blown-Fuse Indicator
				Ferrule: 1 Blades, bolt-in; 4, 4K	Trigger Indicator: TI Trigger Acuator: TA

* For ampere ratings and styles not listed, call Technical Services at 978-248-8914.

* Contact technical services for applications data.

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

HIGHLIGHTS

- Very fast acting
- Current limiting
- Low I²t
- Indicator options available

APPLICATIONS

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

APPROVALS/STANDARDS

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



SINGLE POLE FUSE BLOCKS FOR A50P FUSES

Fuse Ampere Rating	Mounting Type	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*	

Mersen products have been designed by Mersen for a range of specific applications to be operated depending on particular specification and conditions. Mersen makes no representation or/and warranty, and waives any liability either express or implied for products' reliability and life time or technical performance in case Mersen has not been provided with customer's specifications or if the products are not purchased directly from Mersen or its distributors and/or agents.

CATALOG NUMBERS (AMPS)

Catalog No.	Dimen. Fig.	Catalog No.	Dimen. Fig.	Catalog No.	Dimen. Fig.	Catalog No.	Dimen. Fig.
A50P10-1	1	A50P125-4TI	3	A50P300-4TA	4	A50P600-4TI	3
A50P15-1	1	A50P150-4	3	A50P300-4TI	3	A50P700-4	5
A50P20-1	1	A50P150-4TI	3	A50P325-4	3	A50P700-4TA	6
A50P25-1	1	A50P175-4	3	A50P350-4	3	A50P700-4TI	5
A50P30-1	1	A50P175-4TI	3	A50P350-4K	3	A50P800-4	5
A50P35-4	2	A50P200-4	3	A50P350-4TI	3	A50P800-4TA	6
A50P40-4	2	A50P200-4TA	4	A50P400-4	3	A50P800-4TI	5
A50P50-4	2	A50P200-4TI	3	A50P400-4K	3	A50P900-4	3
A50P60-4	2	A50P225-4	3	A50P400-4TA	4	A50P1000-4	3
A50P70-4	3	A50P250-4	3	A50P400-4TI	3	A50P1000-4TI	3
A50P80-4	3	A50P250-4K	3	A50P450-4	3	A50P1200-4	3
A50P90-4	3	A50P250-4TA	4	A50P450-4TI	3	A50P1200-4TI	3
A50P100-4	3	A50P250-4TI	3	A50P500-4	3	A50P1400-4	7
A50P100-4TI	3	A50P275-4	3	A50P500-4TI	3	A50P1500-4	7
A50P125-4	3	A50P300-4	3	A50P600-4	3	A50P1600-4	7
A50P125-4TA	4	A50P300-4K	3	A50P600-4TA	4		

* For ampere ratings and styles not listed, call Technical Services at 978-248-8914.

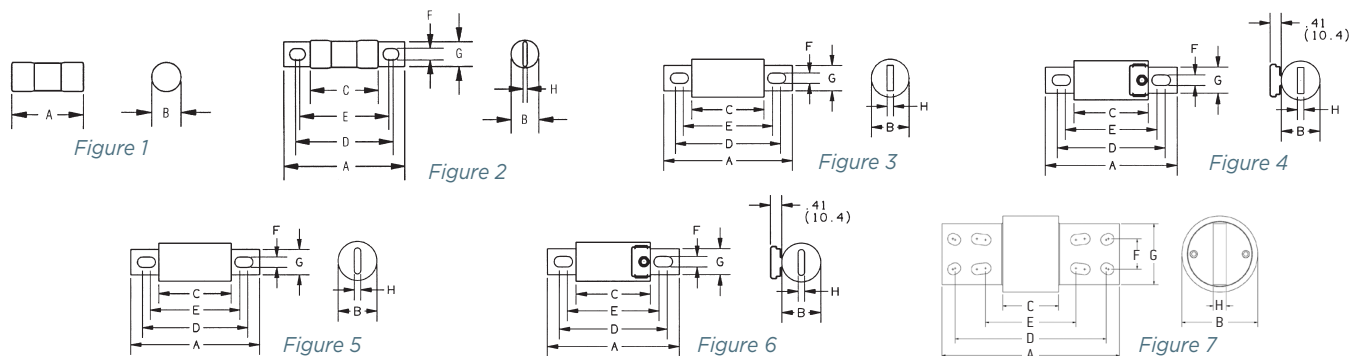
DIMENSIONS

Catalog Number Range	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 [53.2]	3.41 [86.6]	2.78 [70.6]	0.41 [10.4]	1.00 [25.4]	0.25 [6.4]	
A50P225 to 400	4K	3	6.25 [158.8]	1.50 [38.1]	2.09 [53.2]	4.75 [120.7]	***	0.56 [14.3]	1 [25.4]	0.19 [4.7]	
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]	2.88 [73]	3.22 [81.8]	5.47 [138.9]	4.47 [113.5]	0.62 [15.8]	2.38 [60.3]	0.44 [11.1]	
A50P1400 to 1600	4	7	10.22 [259.6]	4.38 [111.1]	3.22 [81.8]	8.72 [221.5]	5.22 [132.6]	1.75 [44.5]	3.5 [88.9]	0.75 [19.1]	

* Use with 60306J fuse block.

** Optional Trigger Actuator (TA)

*** Mounting hole is round, diameter F.



A50P

Amp-Trap® Form 101

HIGH SPEED FUSES



A50P Amp-Trap Form 101 high speed fuses were developed for DC drives, uninterruptable power supplies and similar applications requiring better protection (lower I²t) and superior reliability. The A50P is typically used for replacement.

FEATURES/BENEFITS

- Low I²t 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

Catalog Numbering System					
A	50	P	100	- 4	TI
Amp-Trap Fuse	Rated Voltage - 500	Style	Amperes*	Mounting Types*	Integral Blown-Fuse Indicator
				Ferrule: 1 Blades, bolt-in; 4, 4K	Trigger Indicator: TI Trigger Acuator: TA

* For ampere ratings and styles not listed, call Technical Services at 978-248-8914.

* Contact technical services for applications data.

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

HIGHLIGHTS

- Very fast acting
- Current limiting
- Low I²t
- Indicator options available

APPLICATIONS

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

APPROVALS/STANDARDS

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



SINGLE POLE FUSE BLOCKS FOR A50P FUSES

Fuse Ampere Rating	Mounting Type	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*	

Mersen products have been designed by Mersen for a range of specific applications to be operated depending on particular specification and conditions. Mersen makes no representation or/and warranty and waives any liability either express or implied for products' reliability and life time or technical performance in case Mersen has not been provided with customer's specifications or if the products are not purchased directly from Mersen or its distributors and/or agents.

CATALOG NUMBERS (AMPS)

Catalog No.	Dimen. Fig.	Catalog No.	Dimen. Fig.	Catalog No.	Dimen. Fig.	Catalog No.	Dimen. Fig.
A50P10-1	1	A50P125-4TI	3	A50P300-4TA	4	A50P600-4TI	3
A50P15-1	1	A50P150-4	3	A50P300-4TI	3	A50P700-4	5
A50P20-1	1	A50P150-4TI	3	A50P325-4	3	A50P700-4TA	6
A50P25-1	1	A50P175-4	3	A50P350-4	3	A50P700-4TI	5
A50P30-1	1	A50P175-4TI	3	A50P350-4K	3	A50P800-4	5
A50P35-4	2	A50P200-4	3	A50P350-4TI	3	A50P800-4TA	6
A50P40-4	2	A50P200-4TA	4	A50P400-4	3	A50P800-4TI	5
A50P50-4	2	A50P200-4TI	3	A50P400-4K	3	A50P900-4	3
A50P60-4	2	A50P225-4	3	A50P400-4TA	4	A50P1000-4	3
A50P70-4	3	A50P250-4	3	A50P400-4TI	3	A50P1000-4TI	3
A50P80-4	3	A50P250-4K	3	A50P450-4	3	A50P1200-4	3
A50P90-4	3	A50P250-4TA	4	A50P450-4TI	3	A50P1200-4TI	3
A50P100-4	3	A50P250-4TI	3	A50P500-4	3	A50P1400-4	7
A50P100-4TI	3	A50P275-4	3	A50P500-4TI	3	A50P1500-4	7
A50P125-4	3	A50P300-4	3	A50P600-4	3	A50P1600-4	7
A50P125-4TA	4	A50P300-4K	3	A50P600-4TA	4		

* For ampere ratings and styles not listed, call Technical Services at 978-248-8914.

DIMENSIONS

Catalog Number Range	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 [53.2]	3.41 [86.6]	2.78 [70.6]	0.41 [10.4]	1.00 [25.4]	0.25 [6.4]	
A50P225 to 400	4K	3	6.25 [158.8]	1.50 [38.1]	2.09 [53.2]	4.75 [120.7]	***	0.56 [14.3]	1 [25.4]	0.19 [4.7]	
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]	2.88 [73]	3.22 [81.8]	5.47 [138.9]	4.47 [113.5]	0.62 [15.8]	2.38 [60.3]	0.44 [11.1]	
A50P1400 to 1600	4	7	10.22 [259.6]	4.38 [111.1]	3.22 [81.8]	8.72 [221.5]	5.22 [132.6]	1.75 [44.5]	3.5 [88.9]	0.75 [19.1]	

* Use with 60306J fuse block.

** Optional Trigger Actuator (TA)

*** Mounting hole is round, diameter F.

