HSJ

High Speed/Class J

UL/CSA LISTED POWER FUSES

PROTECT YOUR WIRING AND POWER SEMICONDUCTORS WITH A SINGLE FUSE



The High Speed J (HSJ) fuse combines the low I^2t of a semiconductor fuse and the branch circuit performance of a Class J UL listed fuse. This fuse was designed for the starting characteristics of solid state motor controllers. The HSJ can provide branch circuit protection per NEC requirements, as well as very low I^2t for protection of power semiconductors such as Diodes, SCRs, GTOs and SSRs.

FEATURES/BENEFITS:

- Optimized over-load capability for withstanding elevated levels of current during electronic motor controller starts
- Low I^2t (low thermal energy)
- Excellent cycling ability for frequent starts/stops without nuisance opening

RATINGS:

- **Volts:** 600VAC, 500VDC
- **Amps:** 1 to 600A (AC), 15 to 600A (DC)
- **IR:** 200kA I.R. AC, 100kA I.R. DC, L/R =10mS or less (Self Certified for 600VAC, 300kA I.R., UL witnessed.)

HIGHLIGHTS:

- Current-limiting
- AC & DC ratings
- Low I^2t
- Compact size

APPLICATIONS:

- Branch circuits
- Control panels
- Electronic motor controllers
- Phase controllers
- Drives
- Soft-starters
- Solid state relays

APPROVALS:

- UL listed to standard 248-8 File E2137
- CSA certified to standard C22.2 no. 248.8
- DC listed to UL 248

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CATALOG NUMBERS (AMPS)

HSJ1	HSJ30	HSJ90	HSJ250
HSJ3	HSJ35	HSJ100	HSJ300
HSJ6	HSJ40	HSJ110	HSJ350
HSJ10	HSJ45	HSJ125	HSJ400
HSJ15	HSJ50	HSJ150	HSJ450
HSJ17-1/2	HSJ60	HSJ175	HSJ500
HSJ20	HSJ70	HSJ200	HSJ600
HSJ25	HSJ80	HSJ225	

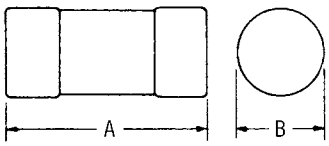
RECOMMENDED FUSE BLOCKS WITH BOX CONNECTORS FOR AMP-TRAP® CLASS J FUSES

Fuse Ampere Rating	Catalog Number 600V or Less	
	1-Pole	3-Pole
0-30	US3J1I	US3J3I
31-60	US6J1I	US6J3I
61-100	61036J	61038J
101-200	62001J	62003J
201-400	64031J	64033J
401-600	6631J	6633J

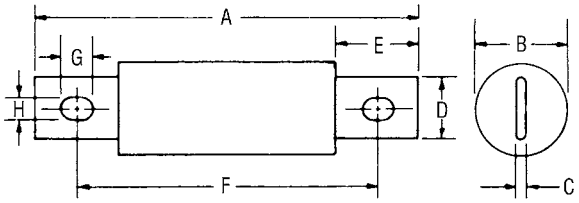
A variety of pole configurations and termination provisions are available. Refer to Section FB for details.

DIMENSIONS

Ampere Rating	A		B		C		D		E		F		G		H	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
1-30	2-1/4	57	13/16	21	-	-	-	-	-	-	-	-	-	-	-	-
31-60	2-3/8	60	1-1/16	27	-	-	-	-	-	-	-	-	-	-	-	-
61-100	4-4/8	117	1-1/8	29	1/8	3.2	3/4	19	1	25	3-5/8	92	3/8	10	9/32	7
101-200	5-3/4	146	1-5/8	41	3/16	4.8	1-1/8	29	1-3/8	35	4-3/8	111	3/8	10	9/32	7
201-400	7-1/8	181	2-1/8	54	1/4	6.3	1-5/8	41	1-7/8	48	5-1/4	133	17/32	13	13/32	10
401-600	8	203	2-1/2	64	3/8	9.5	2	51	2-1/8	54	6	152	11/16	18	17/32	13



1-60A



61-600A

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HSJ200 HSJ10 HSJ150 HSJ100 HSJ300 HSJ90 HSJ70 HSJ35 HSJ60 HSJ20 HSJ30 HSJ40 HSJ15 HSJ125 HSJ80 HSJ400 HSJ50 HSJ25