

HSJ

High Speed/Class J

NORTH AMERICAN 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



Shah & Shah Enterprise

www.shahent.co.in

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 H 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 |

