Fuse Specifications

500 VDC/VAC

Catalog Symbol: EVF (FUSE)
Voltage Rating: 500 VDC/VAC
Current Rating: 250 Amps
Short Circuit Rating: 5 kA @ 500 VDC - 2.5 ms TC
600 Amps or less @ 385 VDC - 2.5 ms TC
Rated Cable: 32 mm² (#2 AWG)
After-Blow Resistance: 1 MΩ minimum resistance between the terminals (<385 V)

<table>
<thead>
<tr>
<th>Blow Times</th>
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</thead>
<tbody>
<tr>
<td>% of Rated Current</td>
</tr>
<tr>
<td>100%</td>
</tr>
<tr>
<td>135%</td>
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<tr>
<td>200%</td>
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<tr>
<td>350%</td>
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<tr>
<td>500%</td>
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Maximum Voltage Drop: 250 mV @ 250 A
Transient Current Cycling: 75,000 cycles of 305A for 15 seconds followed by 280A for 45 seconds followed by zero A for 3 minutes forced air cooling.
Life Cycle: 150,000 cycles of 120% rated current for 10 seconds, followed by zero A for 20 seconds (test results pending).
Drop: 1 meter on to concrete in 3 axes.
Endbell Pull: 3,000 Newtons minimum.
Endbell Torque: 30 NM minimum.
Vibration: 1.5 mm displacement frequency from 10Hz to 55 Hz to 10 Hz in one minute. 2 hours in each of three mutually perpendicular axes. Alternatively, test per SAE J1211. (test results pending).
Accelerated Aging: 60 cycles of the following (test results pending).
16 hr. at 50% ±5% relative humidity @85°C ±2°C,
75% rated current and vibration (10-200 Hz in 20 min.).
2 hr. at -30 °C ±2°C.
2 hr. at 85 °C ±2°C.
4 hr. at room ambient.
Thermal Shock: 48 cycles under following conditions:
30 min. @ -30°C ±2°C.
30 min. @ 85°C ±2°C.
Salt Fog: 16 hour exposure per ASTM B117.
Battery Electrolyte Resistance: Tested per SAE J1888 with:
Sulfuric acid (specific gravity of 1.31 - 1.33
Potassium hydroxide (molarity of 6)

EVF 250 FUSE

METRIC (mm)

INCHES

MELAMINE TUBE
BRASS TERMINALS - SILVER PLATED

ELECTRICAL RATINGS:
385 VDC for CURRENTS LESS THAN 600 AMPS.
500 VAC/VDC 200,000 AMP INTERRUPTING RATING.
THERMAL SHOCK: 30 MIN. @ EACH -30°C THEN
+85°C 48 CYCLES
SALT-FOG TEST: PER ASTM B117 FOR 16 HOURS.
+85°C 48 CYCLES

BATTERY ELECTROLYTE RESISTANCE TEST: SAMPLES BRUSHED
WITH BATTERY ELECTROLYTE (4% SULFURIC ACID) HEAT AGED
@ 85°C FOR 96 HOURS.
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$I^2T$ (Amperes$^2$ Seconds)
Fuse Specifications
500 VDC/VAC
EVF-250

Time-Current Characteristic Curve
Minimum Melting

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