

USA Ground Operations CIL Sheet

Critical Item: Circuit Breaker

Criticality Category: 1S

NASA Part No: None

Total Quantity: 1

Mfg/Part No: Westinghouse / LB-340-OF

System: 60 Hertz Low Voltage Power System

Find No.	Qty	Area	PMN	Baseline	Drawing / Sheet
SS1042/ CB-4B	1	Pad-B	K61-1663	353.25	39K6150023 / 14

**Function:**

Provides circuit overload protection for transformer T-30. T-30 provides power to panel P-42 and Hypergol Vapor Detection System racks 6280 thru 6283.

Failure Mode No. Failure Mode	Failure Cause Failure Effect	Detection Method Time to Effect	Crit Cat
09ELB2-001.017  Premature Trip	Internal piece part structural failure  Loss of power to transformer T-30. Loss of power to PNL P-42 and all HVDS equipment racks. Loss of hypergol vapor detection capabilities. Failure could allow loss of life and vehicle during hazardous conditions.	LPS console operator will receive alarm indicating HVDS sensor failures  Immediate	1S

**ACCEPTANCE RATIONALE****Design:**

- Rated: 600V/225A Operating load: 45 Amps Trip Set: 125 Amps
- Environment is normal for application.
- Circuit breaker is used throughout industry
- Draw-out Type, AK-2A-25-1

**Test:**

- OMRSD File VI requires Time/Current trip tests and insulation resistance test performed prior to installation and after a fault per NETA-MTS.

**Inspection:**

- OMRSD File VI requires inspection and maintenance prior to installation and after a fault per NETA-MTS.

**Failure History:**

- Current data on test failures, unexplained anomalies, and other failures experienced during ground processing activities can be found in the PRACA database. The PRACA database was researched and no data was found on this component in the critical failure mode.

**Operational Use:**

Correcting Action	Timeframe
There is no action which can be taken to mitigate the failure effect.	Since no correcting action is available, timeframe does not apply.