

USA Ground Operations CIL Sheet

Criticality Category: 1S
Total Quantity: 2

Critical Item: Circuit Breaker
NASA Part No: None
Mfg/Part No: Federal Pacific Electric / NFJLK1444
System: 60 Hertz Low Voltage Power System

Find No.	Qty	Area	PMN	Baseline	Drawing / Sheet
Emergency Switchboard/ CB-4A	1	Pad-B	K61-1663	353.25	39K6150023 / 75
Emergency Switchboard/ CB-4B	1	Pad-B	K61-1663	353.25	39K6150023 / 75

Function:

Provides circuit overload protection for top and bottom section of Panel P-3. Panel P-3 provides power to Pad B FSS passenger elevators #1 and #2.

Failure Mode No. Failure Mode	Failure Cause Failure Effect	Detection Method Time to Effect	Crit Cat
09ELB2-001.030 Premature Trip	Internal piece part structural failure Failure of CB-4A would cause loss of power to Panel P-3 top section and FSS passenger elevator #1 drive motor. Failure of CB-4B would cause loss of power to Panel P-3 bottom section and FSS passenger elevator #2 drive motor. Loss of egress / ingress route for rescue personnel / crew. Possible entrapment of personnel. Failure could allow loss of life during a hazardous condition.	Visual Immediate	1S

ACCEPTANCE RATIONALE

Design:

- Rated 600V/225A Estimated Operating load: 100 Amps Trip Set: 150 Amps
- Environment is normal for application.
- Circuit breaker is used throughout industry.

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.