

USA Ground Operations CIL Sheet**Critical Item:** Circuit Breaker**Criticality Category:** 1S**NASA Part No:** None**Total Quantity:** 1**Mfg/Part No:** Westinghouse / MA3800G**System:** 60 Hz Low Voltage Power Distribution System

Find No.	Qty	Area	PMN	Baseline	Drawing / Sheet
CB-21, Panel PF	1	Pad-A	K61-4318	353.20	39K6150018 /

Function:

Provides circuit overload protection for Panel PG.

Failure Mode No. Failure Mode	Failure Cause Failure Effect	Detection Method Time to Effect	Crit Cat
09ELA2-001.023 Premature trip	Internal piece part structural failure Loss of 60 Hz power to Cooling Tower Fans 1, 2, 3, and 4; Chiller Water Pumps CHWP-1, 2, and 3; Loss of cooling air to sensitive electronic hazardous gas detection equipment and LPS/CCMS Hardware Interface Modules (HIMS) could allow loss of life or vehicle during hazardous conditions.	CCS monitors breaker status. 2-4 Hours	1S

ACCEPTANCE RATIONALE**Design:**

Rated	Estimated Operating Load	Operating Voltage
800/225A	180A	480V

- This component is a standard commercial item used throughout industry.

Test:

- OMRSD File VI requires time/current trip test, megger test, and instantaneous trip test prior to installation and after a fault (ref. OMI I2001, Electrical Hardware Testing).

Inspection:

- OMRSD File VI requires annual inspection and maintenance per OMI I2001.
- Operational check and visual inspection of circuit breaker for excessive heat performed annually.

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.