

ACB-2012 AIR CIRCUIT BREAKER

Ideal for applications where integrated control, condition-based maintenance and power monitoring are required.

L3Harris is the world's leading supplier of innovative, shock-hardened circuit breakers and switchgear for harsh environment applications.

PRODUCT DESCRIPTION

L3Harris' ACB-2012 is a draw-out style, low-voltage air circuit breaker that is rated for a continuous current of 2,000 amps at 500 volts and a symmetrical interrupting rating of 85kA RMS. The L3Harris ACB-2012 is a removable circuit breaker assembly that fits into a stationary cradle with a fold-down track extension, making it ideal for applications where integrated control, condition-based maintenance and power monitoring are required.

Originally a commercial design, L3Harris has ruggedized the ACB-2012 circuit breaker assembly to qualified military specifications MIL-C-017587; MIL-S-901, Grade A; and MIL-STD-167-1, 4-to-60 Hz for use in harsh conditions experienced on board navy ships. The circuit breaker is designed for easy front access so that the unit can be controlled and monitored safely through an access port on the front door of a switchgear enclosure.

OPERATION

- > **Opening:** The opening of the breaker can be initiated with or without control power applied using the red PUSH OFF button.
- > **Charging:** The closing springs can be charged, either automatically (when control power is applied to the charging motor) or manually (using the charging handle) after the breaker has been opened.
- > **Closing:** Once the closing springs have been charged, the breaker can be closed using the green PUSH ON button with or without control power applied.
- > **Resetting a fault trip:** If a protective trip occurs, the reset button on the protective device can be used to clear the fault alarm after the cause is resolved.

STATUS INDICATION

- > **Protection module:** Indicates operating status using LED lights and messages displayed on the 3-line LED display.
- > **Racking mechanism:** Contains flags that indicate when the breaker is fully in the CONNECTED, TEST or DISCONNECT positions. Operating mechanism – The charged/discharged and open/closed status indicating flags are mechanically linked to the auxiliary switch to indicate breaker status.
- > **Optional:** An indicating light can be added at the bottom of the breaker to the left of the racking mechanism for user-defined status indication.



AVAILABLE FEATURES

- > Electric closing mechanism
- > Hold-closed mechanism
- > Racking mechanism lockout (mechanical)
- > Mechanical racking position indicator
- > Secondary disconnect terminal blocks (qty 30)
- > Operations counter
- > Overcurrent protection
- > Shunt trip (120 VAC)
- > Electromechanical undervoltage lockout
- > Status indicating light

HIGHLIGHTS

- > Potential replacement for ACB-1606HRC and ACB-2010HRC
- > Ruggedized commercial design qualified to military specifications
- > Easy front access for convenient manual control
- > Sophisticated electronic protection module
- > Quick and easy removal from cradle
- > Closing spring charged either automatically or manually
- > Breaker position and closing spring status flags
- > Optional indicator light
- > Optional electromechanical undervoltage lockout

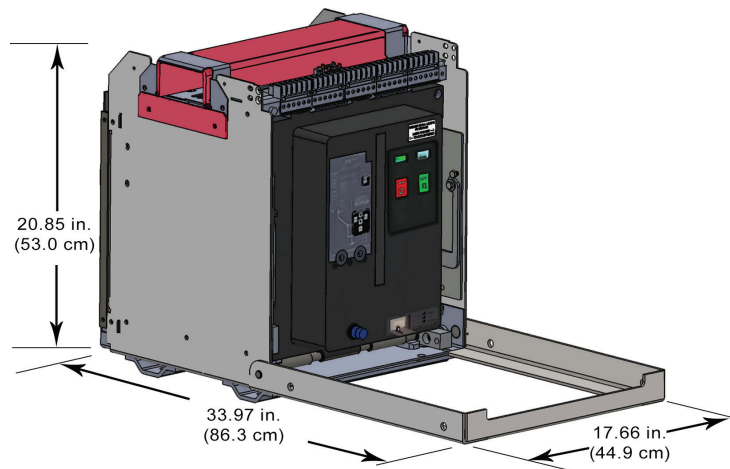
PROTECTION

This circuit breaker is equipped with a sophisticated electronic protection module to provide configurable power monitoring capabilities and automatic equipment protection. The built-in electronic protection module enables:

- > Access to real-time and stored monitoring data
- > Control functions using either a laptop with control software installed or the 3-line LED display and tactile push-buttons
- > Monitoring of breaker status and resetting after trip event right from the front of the breaker
- > Adjustable long-time, short-time and instantaneous trip signals

ACB-2012	WIDTH	HEIGHT	DEPTH	WEIGHT
Circuit Breaker	16.5 in (41.9 cm)	17.7 in (45.0 cm)	16.5 in (41.9 cm)	202 lbs
Cradle (Track Extension Raised)	17.66 in (44.9 cm)	20.85 in (53.0 cm)	17.30 in (43.9 cm)	130 lb
Cradle (Track Extension Lowered With Breaker In Test Or Connect Positions)	17.66 in (44.9 cm)	20.85 in (53.0 cm)	33.97 in (86.3 cm)	130 lb
Maximum Overall (Breaker In Disconnect Position On Track Extension)	17.66 in (44.9 cm)	20.85 in (53.0 cm)	34.35 in	332 lbs

CIRCUIT BREAKER AND ATTACHMENTS	
Maximum Continuous Current (amps)	2,000
Continuous Current Setting (amps) (100 amp increments)	500-to-2,000
Rated Maximum Volts	(60 Hz) 500 VAC
Maximum Interrupting Rating - Symmetrical Short Circuit Current (amps)	85,000
Rated Short-Time Current Delay at 85kA RMS	0.5
Number of Phases	3
Number of Protected Poles	3
Auxiliary Switch - Number of Contacts	8 (4 'A' and 4 'B')
Auxiliary Switch Ratings	120 VAC, 15amps / 500 VAC, 15 amps
Secondary Disconnect Terminal Block	0-to-50°C



L3Harris sht_AirCircuitBreakerACB-2012

© 2023 L3Harris Technologies, Inc. | 01/2023

NON-EXPORT CONTROLLED - These item(s)/data have been reviewed in accordance with the International Traffic in Arms Regulations (ITAR), 22 CFR part 120.33, and the Export Administration Regulations (EAR), 15 CFR 734(3)(b)(3), and may be released without export restrictions.

L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.



1025 W. NASA Boulevard
Melbourne, FL 32919
productsales@L3Harris.com