

ACB-3220 LOW VOLTAGE AIR CIRCUIT BREAKER



LEONARDO DRS DELIVERS SURVIVABLE POWER WHERE NAVY COMBATANTS NEED IT.

Fielded in the latest U.S. Navy combatants, the MIL-DTL-17587 qualified air circuit breaker is designed to withstand rugged maritime conditions for the life of the ship. The ACB-3220 is the most power dense, low voltage Air Circuit Breaker qualified to MIL-DTL-17587. This circuit breaker is based on a COTS breaker Leonardo DRS militarized to provide a small, lightweight, and cost effective solution.

Whether for new shipbuilding or modernization programs Leonardo DRS's ACB-3220 is ideal for integrated control, condition based maintenance, power monitoring, and interfacing with ship network communications. The built-in electronic trip unit can be remotely accessed for diagnostics, breaker status, ampere, voltage and power monitoring.

Controls and indicators are functionally grouped on the breaker faceplate to optimize the human interface, visibility, and ease of use. For maximum safety, a modern, through-the-door design permits access to the breaker levering system, trip unit, controls and indicators with the door closed.



FEATURES

- Electric trip unit with long, short and instantaneous trip curve settings
- 24 character LED display for status
- System diagnostics:
 - Cause of trip
 - Trip log
 - Waveform capture
 - Remote signal contacts
 - Programmable contacts
 - Electronic operations counter

ACB-3220

LOW VOLTAGE AIR CIRCUIT BREAKER

TECHNICAL INFORMATION

Max. Continuous Current	3,200A
Max. Voltage and Frequency	500VAC, 60Hz
Max. Interrupting Rating	85,000A symmetrical
Rate Short Time Current	85,000A
Rate Short Time Duration	0.5 Sec
Poles	3
Operating Temperature	-20 to +70° C
Operating Humidity	95% non-condensing
Circuit Breaker Sizes	
Width	16.5 inches (41.9 cm)
Height	18.2 inches (46.2 cm)
Depth	16.8 inches (42.7 cm)
Weight	200 lbs. (90.7 kg)
Cassette Sizes	
Width	18.3 inches (46.5 cm)
Height	20.8 inches (52.8 cm)
Depth	17.7 inches (45.0 cm)
Weight	120 lbs. (54.4 kg)



MILITARY SPECIFICATIONS

- MIL-DTL-17587
- MIL-S-901, Grade A
- MIL-STD-167-1

ATTACHMENTS

Electrical Closing Mechanism	Standard
Shunt Trip Device	Standard
Remote Close Function	Optional
Vertical Bus Stop Adapters	Optional
Auxiliary Switches	Quantity: 8 Ratings: 120VAC, 15A / 450VAC, 5A
Mechanical Lockout Device	Standard
Mechanical Position Indicator	Standard
Secondary Disconnect	16 @ 15A and 28 @ 10A
Cell Switch	120VAC, 15A
Under Voltage Relay	Optional

PROTECTIVE FEATURES

- Time out current
- Ground fault
- Over voltage
- Over frequency
- Reverse power
- Zonal interlocking
- Under voltage
- Under frequency
- Voltage unbalance
- Phase rotation

The information in this data sheet is to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create any warranty, expressed or implied. Copyright © Leonardo DRS 2019. All Rights Reserved. Statement A: Approved for Release. Distribution is unlimited. Per NAVSEA OOD #2016-0690

1-2019