

# 15kV

# VACUUM CIRCUIT BREAKER



## SAFE AND HIGH POWER DENSITY ELECTRICAL POWER DISTRIBUTION

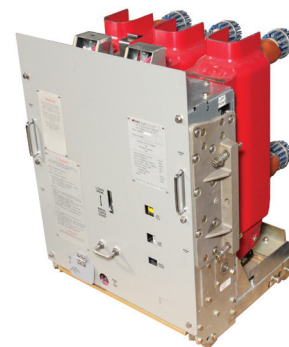
As electric drive ships and power hungry weapon systems are fielded, 15kV generation and distribution systems become natural stepping stones. To minimize the risk, Leonardo DRS developed our 15kV 1600A medium voltage Vacuum Circuit Breaker (VCB). This circuit breaker is based on a COTS breaker that DRS militarized to provide a small, lightweight, and cost effective solution. Used on the latest U.S. Navy ships for power distribution, the military hardened VCB is designed to withstand rugged Navy combatant conditions for the life of the ship.

The Vacuum Interrupter design significantly reduces breaker size and weight as arc chutes are not needed. Maintenance is reduced since no contact adjustments are required, only a periodic check of the integral wear indicator is needed. The VCB is drawout (removable) for ease of inspection and replacement.

From power distribution and electrical control products to ship control automation, Leonardo DRS offers advanced product development, world-class manufacturing and global engineering services and support. That is why our products are found on all U. S. Navy combatants since WWII.

### SELECTED FEATURES

- Maintenance free vacuum interrupter
- Trip free operation
- Interlocks for proper and safe operation
- Built-in contact erosion indicator
- Operations counter
- Mechanical position indicator
- Closing springs charged indicator
- Mechanical and electric open and close capability



# 15kV VACUUM CIRCUIT BREAKER (VCB)

## BREAKER SPECIFICATIONS

CHARACTERISTICS	MEASUREMENT
Voltage	5,000V to 15,000V
Dielectric Withstand	36,000V for 1 second
Basic Impulse Level (BIL)	95,000V
Corona Extinction Voltage Level	17,500V
Max. Continuous Current	1600A
Max. Voltage and Frequency	15,000VAC, 60Hz
Max. Short Circuit Interrupting Current	41,000A symmetrical
Short Circuit Duration	3 seconds
Max. Short Circuit Making Current	103,000A peak
Max. Trip Time	3 cycles
Max. Close Time	5 cycles
Mechanical Endurance	10,000 cycles
Poles	3
Operating Temperature	-30 to +65° C
Operating Humidity	95% non-condensing
Width	27.6 inches (70.1 cm)
Height	32.2 inches (81.8 cm)
Depth	25.1 inches (63.8 cm)
Weight	430 lbs. (195.0 kg)

## MILITARY STANDARD COMPLIANCE

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

## ATTACHMENTS

Electrical Closing Device	Standard
Shunt Trip Device	Standard
Charging Motor Protection	Standard
Grounding Contacts	Standard
Auxilliary Switches	Quantity: 15
	Ratings: 120VAC, 15A/125VDC, 10A
Secondary Disconnect Pins	50



**This breaker fits in a two (2) VCB high, 80" high x 32" wide vertical unit.**

### Naval Power Systems

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