



1500 MVA - 63 kA Power/Vac[®] Metalclad Switchgear

The latest offering from GE ED&C Switchgear Operation—the first U.S. manufacturer to furnish this higher rating in 15 kV metalclad switchgear

Applications

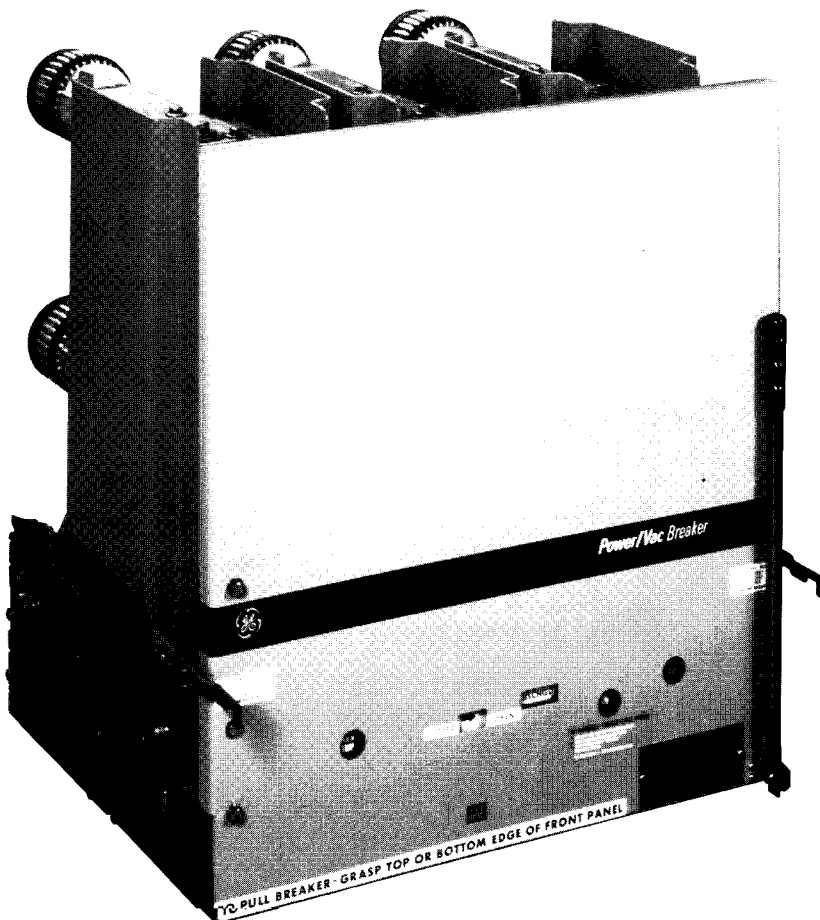
Close/eliminate bus ties

Reduce/eliminate need for current-limiting reactors or higher impedance transformers

Simplify large motor starting requirements

Provide protection for larger generators and transformers

Retrofit/upgrade existing Power/Vac installations



GE Electrical Distribution & Control

1500 MVA - 63 kA Power/Vac® Metalclad Switchgear

Product Description

- 63kA rated, 1kV to 15kV
- Available as new metalclad switchgear equipment and retro-fit/upgrade equipment for existing Power/Vac installations
- Based on the ML-17 breaker mechanism which has more than 15 years of excellent field experience
- Manufactured by GE ED&C Switchgear Operation, Burlington, Iowa, which has qualified as an ISO 9002 manufacturing plant since 1992
- UL and CSA listings available as an option

Benefits

EXPANDED RATINGS

Expanded metalclad switchgear ratings provide greater design flexibility by permitting alternative choices for system configuration, equipment type and protection.

EASY UPGRADES

Retrofit upgrades to 15 kV can be achieved without total system redesign; simply replace the breakers with this higher rating and modify the bus bracing. The physical size of this breaker is the same as that of other Power/Vac breakers.

ENHANCED RELIABILITY

System reliability is enhanced by allowing system sources to remain on-line, eliminating source transfers, optimizing processes, and accommodating increased short circuit ratings from motors.

COST AND SPACE SAVINGS

Total system cost savings - including equipment, space, installation and operating losses - cost reductions are achievable through the reduction/elimination of multiple bus ties, current limiting reactors, high impedance transformers and complex motor starting schemes.

IMPROVED POWER QUALITY

By simplifying system design, installation and operation, this higher rating allows the user to achieve more consistent power quality.

SAFE OPERATION

Vacuum interrupters are housed in insulated support barriers, providing a greater degree of isolation between phases. Vertical insulation prevents ready adherence of contaminants, which can cause tracking and flashover.

Weight & Dimensions

This 1500 MVA rating has the same weight and dimensions as all other Power/Vac ratings. Refer to publication GEA-10049E.

Technical Data Summary

Operating Voltage Range	1 kV to 15 kV
Rated Maximum Voltage	15.0 kV
Rated Short Circuit Current	63 kA
Voltage Range Factor (K)	1.0
Frequency	50/60 Hz
Continuous Current @ 60Hz Amps	1200, 2000 or 3000
Low Frequency Withstand 1Min. Dry	36 kV
Impulse Voltage B.L.L.	95 kV Crest
Duty Cycle	CO + 15s + CO
Interrupting Time	5 Cycles
Asymmetry Factor (S)	1.1
Close and Latch Capability	170 kA Crest
3-Second Short Time Current Capability	63 kA
Transient Recovery Voltage	28.2 kV
Reclosing Time	< 10 Cycles
Reclosing Duty Factor (R)	100%
Number of Operations	
No Load	10,000
Between Servicing	2,000
Spare Auxiliary Switch Contacts	2a, 3b
Operator Designation	ML-17H
Control Voltage	
Close Coil and Monitor	48V, 125V, 250V DC; 120V, 240V AC
Trip Coil	48V, 125V, 250V DC; 240V AC requires separate ST230-3 capacitor trip unit

* 1500 MVA/63 kA class not listed in Table 1 of ANSI C37.06-1987



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