

Standard retrofit circuit breakers

MH medium voltage switchgears



— 01 HD4 circuit breaker ready to be installed into an MH switchgear

— 02 MH switchgear equipped with an original HPA circuit breaker

The standardized HD4 and VD4 CBs represent the latest technology, but are still both mechanically and electrically compatible with the original MH switchgear. CB retrofit provides an ideal, safe and cost-efficient alternative to replacing the entire switchgear, with significantly improved switchgear reliability, safety, maintenance and performance as a result.

Extend the lifetime of your MH switchgear by replacing the original HPA circuit breaker (CB) with the new HD4 or VD4.

Benefits:

Safety

- Improved operator safety
- Additional embedded safety features
- Environmentally friendly VD4 solution

Reliability

- Significant lifetime extension of the switchgear
- Increased maintenance intervals
- Long-term availability of spare parts

Investment

- CB retrofit less expensive than replacing the switchgear
- Reduced maintenance costs
- Standard warranty

Technology

- New generation CBs
- Designed according to the IEC 62271-100 standard
- Tested and certified

Execution

- Fast and easy installation and commissioning
- Minimum outage time of the cubicle

Ratings

Circuit breaker type	HD4		VD4	
	Rated current [A]	Rated short-circuit current [kA]	Rated current [A]	Rated short-circuit current [kA]
12	630 - 3150 ^{*)}	20 / 25 / 31,5 / 40 / 50	630 - 3150	20 / 25 / 31.5 / 40 / 50
17.5	630 - 3150 ^{*)}	20 / 25 / 31.5 / 40	630 - 2500	20 / 25 / 31.5 / 40
24	630 - 1250	16 / 20 / 25	630 - 2000	16 / 20 / 25

^{*)} 3150 A with forced ventilation

Complete CB retrofit solution for MH switchgears

ABB's CB retrofit solution can cover everything from mapping and design, manufacturing and testing, to installation and commissioning.

The condition of existing installations can be assessed through a site audit, based on which a solution is proposed to support the investment decision.

Support throughout the entire life cycle for MH switchgears

To ensure maximum return on investments, ABB provides the following life cycle services for MH switchgears:

- CB retrofits
- Protection relay retrofits
- Maintenance and repair services
- Original spare parts
- Extension cubicles

Standards and approvals

The HD4 and VD4 CBs comply with the IEC 62771-100 and CEI 17-1/1375 standards.

Additional information

For more information, please contact your local ABB representative or visit our website at:

abb.com/service

abb.com/mediumvoltage

