

# Standard retrofit circuit breakers

## METE medium voltage switchgears



01 Original OSA circuit breaker

02 VD4 circuit breaker ready to be installed into an METE switchgear

**The standardized HD4 and VD4 CBs represent the latest technology, but are still both mechanically and electrically compatible with the original METE 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 METE switchgear by replacing the original OSA 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 switchgear replacement
- Reduced maintenance costs
- Standard warranty

#### Technology

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

#### Execution

- Fast and easy installation and commissioning
- Minimum cubicle outage

## Ratings

Circuit breaker type	HD4		VD4	
	Rated current [A]	Rated short-circuit current [kA]	Rated current [A]	Rated short-circuit current [kA]
12	630 - 2500	20 - 40	630 - 2500	20 - 40
24	630 - 1250	16 - 25	630 - 1250	16 - 25

### Complete CB retrofit solution

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

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

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

### 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](http://abb.com/service)  
[abb.com/mediumvoltage](http://abb.com/mediumvoltage)

