

Technology Flyer

Upgrade & Retrofit

VSC retrofit solution for 800 mm width panel



Retrofit is a cost-effective alternative to the complete switchgear replacement. ABB Service experts conduct site audits on existing installations to assess the condition of the equipment, recommend the proper solution and support the right investment decision.

Retrofit stands for the replacement of wear devices by more efficiency products which are mechanically and electrically adapted for the existing engineering. The result is a deep improvement on reliability, safety, maintenance and performances.

ABB Service is a full system provider for retrofit solutions, from the proposal and design, through the manufacturing and testing, up to the installation and commissioning.

Benefits

Reliability

- Significant extension of useful life
- Lower maintenance
- Guaranteed supply of original spare parts

Safety

- Increased system availability
- Better operator comfort and protection

Technology

- Base on the existing product and technology
- Compliance with the standard GB14808 and IEC 62271-106

Project

- Warranty on conversion work
- Minimum service interruption
- Short implementation and replacement times

Investment

- The most cost-efficiency investment
- Reduction in further maintenance costs
- Same warranty with standard product

Facts

Vacuum contactor is suitable for operating in alternating current and are normally used to control user's applications requiring a high number of hourly operations. But until now both of ABB and third-part manufacturers can only provide the vacuum contactors adapted to UniGear 650mm width panel.

There were appreciable quantity installations of the 800 mm width panel with vacuum circuit breaker used to control the equipment with small electromotor such as blenders, blowers and so on, in those conditions vacuum contactor usage is more cost-effective than vacuum circuit breaker.

The VSC for 800 mm width panels is the retrofit solution to solve the problem mentioned.

Technical data

- Distance of phase to phase is 210 mm suitable for UniGear 800 mm width panel
- Chopping current within 0.5 A
- Lower maintenance needs than original vacuum circuit breaker
- Suitable for high number of hourly operation
- High electrical and mechanical endurance
- Low energy consumption and environment impact
- Multi-voltage feeder module
- Double Command Operated (DCO) and Single Command Operated (SCO) available
- Under voltage function on request

Ratings

Ratings	Units	Value
Rated Voltage Ur	kV	7.2/12
Rated service current Ir	A	400
Short-time withstand current (1 s) Ik	kA	6
Short-time current duration tk	s	1
Peak withstand current Ip	kA	15
Breaking current Isc	kA	50 ¹⁾
Version available ²⁾	mm	205
Distance between lower and upper terminals	mm	275
	mm	310

1) As in combined with fuse.

2) 205 mm for VD4 ...1250 A/...31.5 kA P210 embedded and assembly circuit breaker replacement.

275 mm for VD4 ...1250 A/...31.5 kA P210 assembly circuit breaker replacement.

310 mm for VD4 1250 A/40 kA P210 embedded and assembly circuit breaker replacement.

ABB Xiamen Switchgear Co., Ltd.

ABB Industrial Park, Torch High-Tech Zone, No. 319,

Xiamen, Fujian, P.R.China

Tel: +86 592 602 6033

Fax: +86 592 603 0505

Zip Code: 361006

Service hotline: 800-820-9696 400-820-9696

www.abb.com.cn/mv

We reserve the right to make changes in the course of technical development.