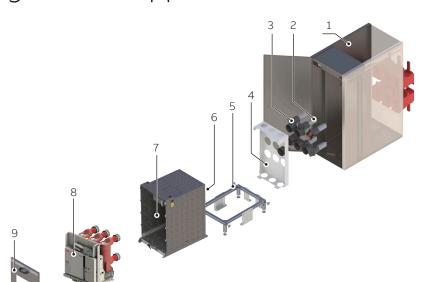


MEDIUM VOLTAGE SERVICE

Generator circuit breakers retrofitting with VD4G onboard OneFit hard-bus retrofill

Small footprint with full protection for generator applications



Take advantage of using the compact OneFit retrofill solution to upgrade your circuit breaker installed base for generator application.

ABB has developed a retrofill solution in order to extend the safe operational life of an electrical facility using the VD4G vacuum generator circuit breaker.

- 1. Existing panel
- Copper adaptation system
- 3. Insulating shell
- 4. Insulating plate
- 5. Basement
- 6. Shutter7. Frame
- 8. VD4G circuit breaker
- 9. Door

OneFit is the latest ABB hard-bus retrofill design concept, providing an integrally safe plug-in technology to a wide range of existing panels.

OneFit comprises a frame that hosts a standard circuit breaker connected to the existing switchgear bushings by an additional power circuit that acts as an internal interface with the new breaker.

The adaptation system allows a completely standard ABB withdrawable apparatus to be fitted to the original switchgear.

The circuit breaker family designed for generator application is VD4G complying with dual logo IEC/ IEEE 62271-37-013.

The result is a great improvement in reliability, safety, maintenance and performance.

ABB Service is a complete system provider of retrofitting solutions, from proposal to design, manufacturing and testing, down to installation and commissioning.

Safety

- · Great reduction in the risk of faults
- Additional incorporated safety features: the original shutter system and all the relevant interlocking are replaced
- · Improved operator protection

Technology

- · Latest generation apparatus
- Tested according to the latest edition of generator circuit breaker standards IEC/IEEE 62271-37-013-2015

Project

- · Short replacement times
- · Minimum switchgear downtime
- · Simple plant activities

Investment

- · Limited capital investment
- · Minimization of all further maintenance activities
- ABB warranty on the retrofit package, apparatus ready for future ABB replacement switchgear
- Equipment and spare parts are interchangeable with new ABB switchgear

Technical data

The OneFit is type tested with the VD4G range in the different frames sizes to support all ratings required and gives a new life to the switchgear with complete equipment revamping.

Each generator has specific technical characteristics and therefore an application analysis is always needed.

The following basic technical data are required in order to provide retrofill solutions:

- single line diagram
- technical data sheet of generator, transformer and other grid equipment
- · rating plate data and serial number
- photos of all four sides
- photo of the interior of the switchgear compartment
- existing functional electric circuit diagram.

OneFit frame	Unit	W600	W700	W800
Width	mm	535	685	754
Height	mm	859	859	886
Depth	mm	792	792	792
Weight	kg	60	70	80

Unit	VD4G/P-25	VD4G/P-40	VD4G/LR-50
mm	150	210	210
kV	15	15	15
А	1250	up to 2000	2500 3150 (b)
Hz	50/60	50/60	50/60
kA	16	25	50
kA	25	40	50
kg	116	190	250 255
	mm kV A Hz kA	Unit VD4G/P-25 mm 150 kV 15 A 1250 Hz 50/60 kA 16 kA 25 kg 116	mm 150 210 kV 15 15 A 1250 up to 2000 Hz 50/60 50/60 kA 16 25 kA 25 40

a) Refer to VD4G family documentation for detailed technical characteristics b) 3150A rated normal current value may require forced ventilation depending

on the original panel

Options

- TruckMaster remote motorized racking
- MySiteCare monitoring and diagnostic
- MyRemoteCare cloud based services
- Power Care customer support agreement

For more information please contact:

Your sales contact:
www.abb.com/contacts
More product information:
www.abb.com/productguide
More service information:
www.abb.com/service

OneFit webpage:

VD4G webpage:



The data and illustrations are not binding. We reserve the right to make changes without notice in the course of technical development of the product