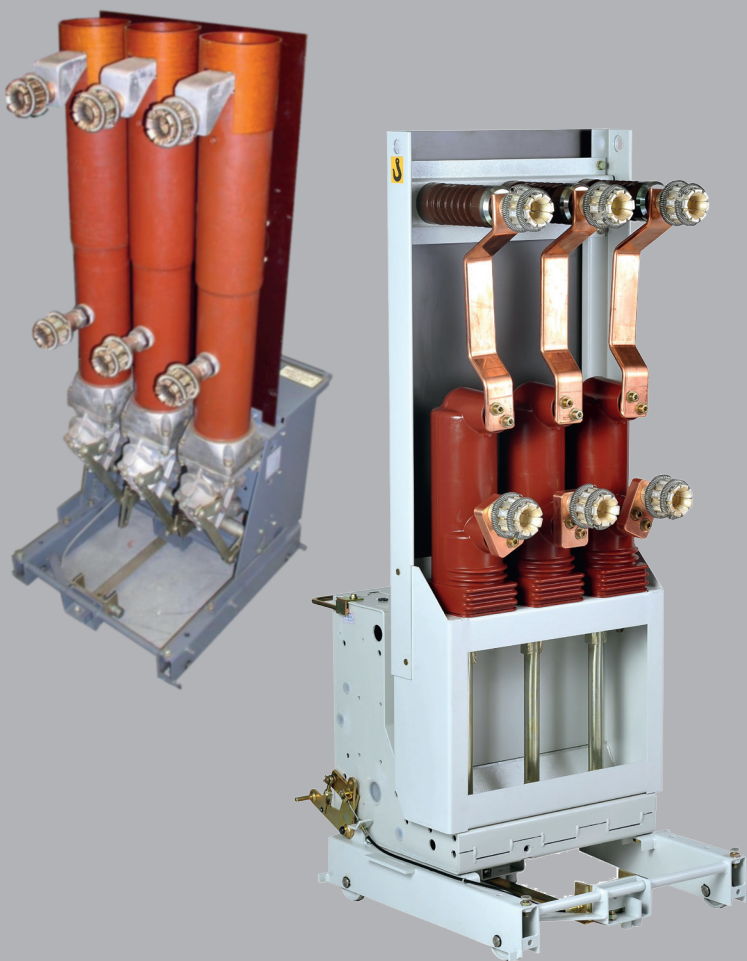


SERVICE MEDIUM VOLTAGE

Retrofit solution for CSIM panels

SCI-4 truck for use in panels of types CSIM-1 and -3



01 Original truck SCI-4 (left) with oil circuit-breaker and retrofit truck solution SCI-4 (right) with vacuum circuit-breaker type VD4 for switchgear of types CSIM-1 and -3 (manufacturer Starkstrom Anlagenbau Dresden)

In many cases, the modernization of an existing switchgear system is economically more sensible than replacing it with a new one. ABB retrofit solutions facilitate subsequent system upgrading by integrating customized modern components such as vacuum circuit-breakers of type VD4. The goals of maximum system availability and compliance with high safety standards can thus be achieved.

Retrofit truck solutions are to be recommended especially when

- current maintenance work is too cost-intensive,
- there are no more reliable supplies of spare parts,
- failure rates are to be minimized,
- only limited funds are available for investments,
- minimum interruptions to service are required (plug & play),
- no changes to the infrastructure are to be made.

The metal-enclosed, compact medium voltage panels of type CSIM-3 are notable for adopting the tried and tested, familiar properties of the CSIM-1 in the entire 12 kV CSIM range. The features of these panels include the use of oil circuit-breakers on trucks, stationary-mounted compact switch-disconnectors, and secondary systems on an electronic and semi-electronic basis.

By combining the various solutions, variants for a range of applications can be established, e.g. for switching and distribution systems in power supply, station service systems in power plants, or distribution systems in agriculture.

Technical specification		
Switchgear	CSIM-1 and -3	
Switching device (retrofit solution)	VD4 1212-31	
Rated voltage	...12	kV
Rated current	1250	A
Rated frequency	50 / 60	Hz
Rated insulation voltage	12 / 28 / 75	kV
Rated power frequency withstand voltage	28 / 42	kV
Rated lightning impulse withstand voltage	75 / 85	kV
Standards	VDE 0670, Part 1000 or IEC 60694 / VDE 0671, Part 100 or IEC 62271-100	
Test certificates are available for inspection as required.		

Truck type SCI-4 with vacuum circuit-breaker type VD4; front view (left), rear view (right)



ABB AG
Electrification Products
Service Medium Voltage
P.O. Box 10 12 20
40832 Ratingen, Germany
Telephone +49 (0) 180 6222 007

abb.com/service

We reserve the right to make technical modifications to the products and alterations to the contents of this document at any time without notice. With regard to purchase orders, the agreed particulars shall prevail. ABB AG accepts no responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in part – is prohibited without the prior written consent of ABB AG.
Copyright© 2017 ABB
All rights reserved