

Switchboard retrofit

with H 27 load disconnectors
rated voltage 25 kV
rated current 400 and 630 A



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ISO 9001
BUREAU VERITAS
Certification



Switchboard retrofit

Since already a lot of years, the company DRIBO Ltd. is involved in the retrofitting of older types of switchboards. The procedures and experiences gathered from the S11 switchboard retrofit (replacement of BA or BAJ load disconnectors), and the RSO 6 switchboards (with OK or OKJ load disconnectors), as well as the skills and practices gathered from the reconstruction works on the Irodel VH 271 type of switchboard, can also be used in the reconstruction of other types of switching systems.

The retrofit consists in the replacement of the existing load disconnectors with the new H 27 EK or H 27 SEA types which meet the EN 62271-1 and EN 60265-1 standards. On request also the supporting consoles, busbars and tappings can be replaced and a new manually or electrically operated drive mechanism can be installed, or the existing supporting insulators can be replaced with new plastic ones.

The retrofit provides for the modernization of the system with only a very short period of the system being out of service.

Technical data of the H 27 load disconnectors

rated voltage	U_r	kV	25	
rated frequency	f_r	Hz	50	
rated current	I_r	A	400	630
rated peak withstand current	I_p	kA	40 ¹⁾	50
rated short-time current	I_k	kA	16 ¹⁾	20
rated making current	I_{ma}	kA	40 ¹⁾	40
rated breaking current	I_1	A	400	630
closed-loop breaking current	I_2	A	400	630
inductive breaking current	I_3	A	10	
capacitive breaking current	I_4	A	35	
earth-fault current	I_{6a}	A	250	
absorption current with earth fault	I_{6b}	A	45	
frequency at rated transient recovery voltage	f_e	kHz	4,6	
rated amplitude factor	γ		1,4	
rated short-time withstand power frequency voltage / 1min.				
against the earth, across the poles and between contacts		kV	125	
across the isolating distance		kV	145	
rated lightning pulse withstand voltage				
against the earth, across the poles and between contacts		kV	50	
across the isolating distance		kV	60	

¹⁾ These values also apply to built-in earthing switches

Auxiliary material

On request the switching system can be provided with the following auxiliary devices and items:

- consoles to support the existing insulators installed at bottom,
- Cu busbars,
- couplers to interconnect the existing cable ends mounted on bottom insulators with the switching device,
- door interlocking system to block the opening of the door during switched-on state of the load disconnector,
- customer specified auxiliary switches.