SIEMENS

Totally Integrated Power

Switchgear Type 8DJH for Secondary Distribution Systems up to 24 kV, Gas-Insulated

The 8DJH switchgear will impress you with its extensive scope of functions and diverse deployment possibilities. Simple transformer substations, customer transfer substations, and even circuit-breaker switchgear in industrial applications can be implemented easily with this switchgear type.

Flexibility during switchgear configuration is a decisive factor in secondary distribution. The modular switchgear design enables a variable configuration of functions – both within a panel block and also with more complex switchgear layouts. All of the individual panels and panel blocks can be extended as an option. Thus, with the 8DJH switchgear, practically any switching configuration can be implemented.

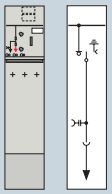
The hermetically sealed welded stainless steel switchgear vessel makes the parts of the 8DJH switchgear carrying high voltage insensitive to salty air, air humidity, dust and condensation. It prevents the ingress of dust and dirt, liquids, humidity and small animals. Additional test requirements, e. g. for climate resistance and seismic safety verifies the overall high resilience of the switchgear.

Your advantages

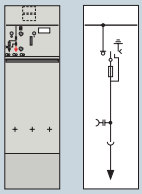
- Independent of environment and climate
- Maintenance-free
- Compact
- Safe for operators
- Cost-efficient
- Ecological
- Reliable and safe operation

8DJH, Medium-Voltage Switchgear

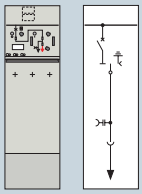
Product range (The following selection is not complete)



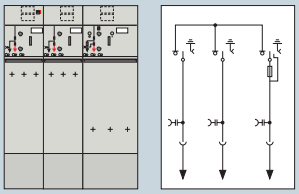
Scheme R



Scheme T



Scheme L



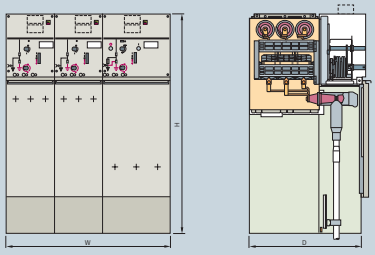
Scheme RRT

Technical data of 8DJH

Rated							
Voltage		kV	**7.2**	**12**	**15**	**17.5**	**24**
Frequency		Hz	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60
Short-duration power-frequency withstand voltage		kV	20	28*	36	38	50
Lightning impulse withstand voltage		kV	60	75	95	95	125
Normal current for ring-main feeders		A	400 or 630				
Normal current for busbar		A	630				
Normal current for circuit-breaker feeders		A	250 or 630				
Normal current for transformer feeders		A	200**				
Short-time withstand current, 1 s	50 Hz	max. kA	25	25	25	25	20
Short-time withstand current, 3 s	50 Hz	max. kA	20	20	20	20	20
Peak withstand current	50 Hz	max. kA	63	63	63	63	50
Short-circuit making current	50 Hz						
for ring-main feeders	50 Hz	max. kA	63	63	63	63	50
for circuit-breaker feeders	50 Hz	max. kA	63	63	63	63	50
for transformer feeders	50 Hz	max. kA	63	63	63	63	50
Short-time withstand current, 1 s	60 Hz	max. kA	25	25	25	25	21
Short-time withstand current, 3 s	60 Hz	max. kA	21	21	21	21	21
Peak current	60 Hz	max. kA	65	65	65	65	55
Short-circuit making current	60 Hz						
for ring-main feeders	60 Hz	max. kA	65	65	65	65	55
for circuit-breaker feeders	60 Hz	max. kA	65	65	65	65	55
for transformer feeders	60 Hz	max. kA	65	65	65	65	55

* 42 kV according to some national requirements ** Depending on HV HRC fuse-link

Dimensions of 8DJH



Dimensions			Dimensions in mm
Width	W	Ring-main feeders	310 or 500
		Transformer feeders	430
		Circuit-breaker feeders	430 or 500
		RRT / RRL block	1,050
Height	H	Panels without low-voltage compartment	1,200 / 1,400 / 1,700
		Panels with low-voltage compartment (option)	1,400–2,600
		Switchgear with pressure absorber (option)	1,800–2,600
Depth	D	Standard switchgear	775
		Switchgear with pressure absorber (option)	890

Performance features

- Type-tested according to IEC 62271-200
- Sealed pressure system with SF_6 filling for the entire service life
- Safe-to-touch enclosure and standardized connections for plug-in cable terminations
- 3-pole, gas-insulated switchgear vessel for switching devices and busbar
- Panel blocks and single panels available (optionally extensible)
- Switching devices: three-position switch-disconnector (OPEN – CLOSED – EARTHED), switch-fuse combination for distribution transformer protection, vacuum circuit-breaker with three-position disconnector
- Earthing function of switching devices generally make-proof
- Metal-enclosed, partition class PM
- Loss of service continuity category for switchgear: LSC 2
- Internal arc classification (option):
  – IAC A FL 21 kA, 1 s
  – IAC A FLR 21 kA, 1 s

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Read the QR code to see further typicals of this switchgear!