20 kV Epoxy Cast Resin Off-Circuit Tap-Changing Dry-Type Transformer

Model meaning

S Three-phase	C Epoxy resin pouring type	B Low-voltage foil winding
11、12、13 Code of performance level	Rated capacity/voltage class	

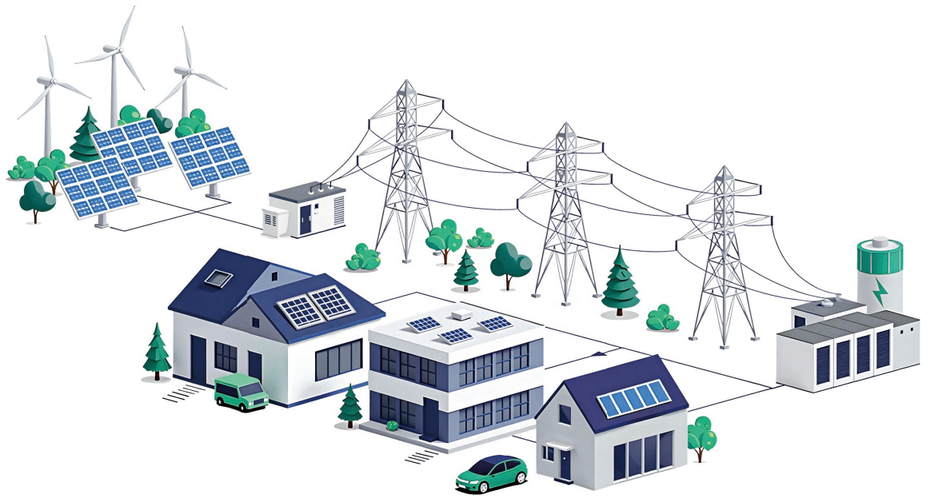
Product description

This transformer is designed for 20 kV power networks, meeting the requirements for energy conservation, low loss, and low noise. It adopts an F-class epoxy resin mixture with fillers, which, after vacuum degassing treatment, is cast into the coil reinforced with fiberglass mesh on the surface and then cured and molded.

The product offers significant improvements in mechanical strength, electrical strength, and thermal endurance. The insulating material is flame-retardant, explosion-proof, and environmentally friendly.Transformers equipped with a temperature monitoring system can automatically control the operation of the forced-air cooling system according to the operating temperature. Under extreme conditions, the system can also issue over-temperature alarm signals and trip signals.The enclosure is available in stainless steel, cold-rolled steel with spray coating, or aluminum alloy. Cable entry and exit can be configured in various ways, including top entry–top exit, bottom entry–top exit, and bottom entry–bottom exit.

Features

- Flame-retardant, explosion-proof, and non-polluting
- Strong short-circuit resistance
- Excellent lightning impulse withstand capability
- Low maintenance costs
- Low losses for energy-saving efficiency
- Optional vibration-damping devices can better mitigate resonance issues



20KV SC(B)11 Type Three-phase Resin Insulated Dry-type Power Transformer Performance Parameters

Type	Rated voltage combination			Conect ion symbol	o-load Current (%)	o-load Loss (K)	Load Loss (K)	Impedance voltage (%)
	H.V (KV)	Tapping range of HV (%)	L.V (KV)					
SC11-50					1.8	0.305	1.23	
SC11-100					1.6	0.485	1.99	
SC11-160					1.4	0.6	2.47	
SC(B)11-200					1.4	0.655	2.94	
SC(B)11-250					1.2	0.755	3.42	
SC(B)11-315					1.2	0.87	4.08	
SC(B)11-400	20			Dyn11	1.0	1.03	4.84	
SC(B)11-500	22	±2 ×2.5	0.4		1.0	1.21	5.79	6.0
SC(B)11-630	24			Yyn0	0.9	1.37	6.84	
SC(B)11-800					0.9	1.57	8.26	
SC(B)11-1000					0.8	1.86	9.78	
SC(B)11-1250					0.8	2.14	11.5	
SC(B)11-1600					0.8	2.51	13.8	
SC(B)11-2000					0.6	2.91	16.3	
SC(B)11-2500					0.6	3.48	19.3	

20KV SC(B)12 Type Three-phase Resin Insulated Dry-type Power Transformer Performance Parameters

Type	Rated voltage combination			Conect ion symbol	o-load Current (%)	o-load Loss (K)	Load Loss (K)	Impedance voltage (%)
	H.V (KV)	Tapping range of HV (%)	L.V (KV)					
SC12-50					1.8	0.272	1.23	
SC12-100					1.6	0.432	1.99	
SC12-160					1.4	0.536	2.47	
SC(B)12-200					1.4	0.584	2.94	
SC(B)12-250					1.2	0.672	3.42	
SC(B)12-315					1.2	0.776	4.08	
SC(B)12-400	20			Dyn11	1.0	0.920	4.84	
SC(B)12-500	22	±2 ×2.5	0.4		1.0	1.080	5.79	6.0
SC(B)12-630	24			Yyn0	0.9	1.220	6.84	
SC(B)12-800					0.9	1.400	8.26	
SC(B)12-1000					0.8	1.660	9.78	
SC(B)12-1250					0.8	1.900	11.5	
SC(B)12-1600					0.8	2.230	13.8	
SC(B)12-2000					0.6	2.590	16.3	
SC(B)12-2500					0.6	3.100	19.3	

20KV SC(B)13 Type Three-phase Resin Insulated Dry-type Power Transformer Performance Parameters

Type	Rated voltage combination			Conect ion symbol	o-load Current (%)	o-load Loss (K)	Load Loss (K)	Impedance voltage (%)
	H.V (KV)	Tapping range of HV (%)	L.V (KV)					
SC11-50	20 22 24	±2 ×2.5	0.4	Dyn11 Yyn0	1.8	0.272	1.23	6.0
SC11-100					1.6	0.432	1.99	
SC11-160					1.4	0.536	2.47	
SC(B)11-200					1.4	0.584	2.94	
SC(B)11-250					1.2	0.672	3.42	
SC(B)11-315					1.2	0.776	4.08	
SC(B)11-400					1.0	0.920	4.84	
SC(B)11-500					1.0	1.080	5.79	
SC(B)11-630					0.9	1.220	6.84	
SC(B)11-800					0.9	1.400	8.26	
SC(B)11-1000					0.8	1.660	9.78	
SC(B)11-1250					0.8	1.900	11.5	
SC(B)11-1600					0.8	2.230	13.8	
SC(B)11-2000					0.6	2.590	16.3	
SC(B)11-2500					0.6	3.100	19.3