10 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
12、13、14、18 Code of performance level	Rated capacity/voltage class	

Product description

This transformer complies with the technical parameters and requirements of GB/T 10228 and GB 20052 standards. The product 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.

This design significantly improves 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 temperature conditions, the system can also issue over-temperature alarm signals and trip signals.The transformer enclosure can be optionally made of 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

10KV SC(B)12 Type Three-phase Resin Insulated Dry-type PowerTransformer 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)					
SC12-30					2.5	0.15	0.71	
SC12-50					2.2	0.215	1	
SC12-80					2.1	0.295	1.38	
SC12-100					1.9	0.32	1.57	
SC12-125					1.7	0.375	1.85	
SC12-160					1.7	0.43	2.13	
SC (B)12-200					1.5	0.495	2.53	4.0
SC (B)12-250	6				1.5	0.575	2.76	
SC (B)12-315	6.3			Dyn11	1.3	0.705	3.47	
SC (B)12-400	10	±2 ×2.5	0.4		1.3	0.785	3.99	
SC (B)12-500	10.5			Yyn0	1.3	0.93	4.88	
SC (B)12-630	11				1.2	1.07	5.88	
SC (B)12-630					1.2	1.04	5.96	
SC (B)12-800					1.2	1.21	6.96	
SC (B)12-1000					1.0	1.41	8.13	
SC (B)12-1250					1.0	1.67	9.69	6.0
SC (B)12-1600					1.0	1.96	11.7	
SC (B)12-2000					0.9	2.44	14.4	
SC (B)12-2500					0.9	2.88	17.1	

10KV 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)					
SC13-30					2.5	0.135	0.64	
SC13-50					2.2	0.195	0.9	
SC13-80					2.1	0.265	1.24	
SC13-100					1.9	0.29	1.41	
SC13-125					1.7	0.34	1.66	
SC13-160					1.7	0.385	1.91	
SC (B)13-200					1.5	0.445	2.27	4.0
SC (B)13-250	6				1.5	0.515	2.48	
SC (B)13-315	6.3			Dyn11	1.3	0.635	3.12	
SC (B)13-400	10	±2 ×2.5	0.4		1.3	0.705	3.59	
SC (B)13-500	10.5			Yyn0	1.3	0.835	4.39	
SC (B)13-630	11				1.2	0.965	5.29	
SC (B)13-630					1.2	0.935	5.36	
SC (B)13-800					1.2	1.09	6.26	
SC (B)13-1000					1.0	1.27	7.31	
SC (B)13-1250					1.0	1.5	8.72	6.0
SC (B)13-1600					1.0	1.76	10.5	
SC (B)13-2000					0.9	2.19	13	
SC (B)13-2500					0.9	2.59	15.4	

10KV SC(B)14 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)					
SC14-30					2.5	0.13	0.64	
SC14-50					2.2	0.185	0.9	
SC14-80					2.1	0.25	1.24	
SC14-100					1.9	0.27	1.415	
SC14-125					1.7	0.32	1.665	
SC14-160					1.7	0.365	1.915	
SC (B) 14-200					1.5	0.42	2.275	4.0
SC (B) 14-250	6				1.5	0.49	2.485	
SC (B) 14-315	6.3			Dyn11	1.3	0.6	3.125	
SC (B) 14-400	10	±2 ×2.5	0.4		1.3	0.665	3.59	
SC (B) 14-500	10.5			Yyn0	1.3	0.79	4.39	
SC (B) 14-630	11				1.2	0.91	5.29	
SC (B) 14-630					1.2	0.885	5.365	
SC (B) 14-800					1.2	1.035	6.265	
SC (B) 14-1000					1.0	1.205	7.315	
SC (B) 14-1250					1.0	1.42	8.72	6.0
SC (B) 14-1600					1.0	1.665	10.555	
SC (B) 14-2000					0.9	2.075	13.005	
SC (B) 14-2500					0.9	2.45	15.445	

10KV SC(B)18 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)					
SC18-30					2.5	0.105	0.64	
SC18-50					2.2	0.155	0.9	
SC18-80					2.1	0.21	1.24	
SC18-100					1.9	0.23	1.415	
SC18-125					1.7	0.27	1.665	
SC18-160					1.7	0.31	1.915	
SC (B) 18-200					1.5	0.36	2.275	4.0
SC (B) 18-250	6				1.5	0.415	2.485	
SC (B) 18-315	6.3			Dyn11	1.3	0.51	3.125	
SC (B) 18-400	10	±2 ×2.5	0.4		1.3	0.57	3.59	
SC (B) 18-500	10.5			Yyn0	1.3	0.67	4.39	
SC (B) 18-630	11				1.2	0.775	5.29	
SC (B) 18-630					1.2	0.75	5.365	
SC (B) 18-800					1.2	0.875	6.265	
SC (B) 18-1000					1.0	1.02	7.315	
SC (B) 18-1250					1.0	1.205	8.72	6.0
SC (B) 18-1600					1.0	1.415	10.555	
SC (B) 18-2000					0.9	1.76	13.005	
SC (B) 18-2500					0.9	2.08	15.445	