

KBSG | Mining Explosion Proof Dry-type Transformer

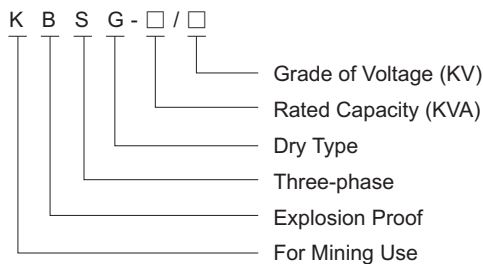


Use

KBSG mining dry type transformer is a kind of electricity supplying and distribution equipment in the coal mine, which is equipped with explosion-proof enclosure, independent high and low voltage cable connection cavity, devices of input / output cables and movable supporting bracket and wheels.

KBSG mining explosion-proof dry type transformer is used as the power supply device for comprehensive coal machine, transportation machine, pump station, fan and so on, in three phase neutral point ground disconnected power supply system of AC50Hz, first side rated voltage is 10KV or 6KV, second side rated voltage of transformer is 3450V/1200V/693V/400V in the places of coal mine、 color metal mine and tunnel project where are filled with methane mixture, coal dust and powder dust.

Meaning of Type



Technical Descriptions

1. Adopts ripple rectangle cylinder type explosion proof enclosure to realize excellent explosion proof performance, enough mechanical strength and good heat diffusion. Dust on the top cover is easy to be cleared . Transformer iron core is made of high quality cold rolling Grain-Oriented thin silicon steel plates which adopt no punching hole colligation processing craft to decrease empty load loss and empty load current of iron core. The transformer has the features of low loss and low noise. The enclosure is designed with no hang core structure to avoid inside looseness during transportation.
2. Adopts Dupont Nomex-T410 insulating paper between windings and layers to ensure winding electric performance efficiently. So the transformer has strong heat impact resistance, high overload capability, excellent short-circuit resistance, good insulation performance to stabilize the overload capacity of transformer in a short time.
3. Adopts international advanced VPI vacuum pressure dipping lacquer equipment and craft to dip it in grade H with no solvent insulation lacquer to avoid the aging breakdown caused by long-playing discharge. Winding teams will improve its mechanical strength and damp -proof performance after dipping, drying and solidifying.
4. The enclosure adopts grade H or C insulation material which has characteristics of fire-proof, no harmful gas and pollution.
5. There is a small temperature relay on the top of the enclosure to realize over-temperature alarming function for the transformer.

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Technical Data

Rated capability (kVA)	High voltage (kV)	Low voltage (kV)	Connection mark	Loss (W)		Empty load current (%)	Impedance voltage (%)	Dimension W × H × D (mm)	Weight (kg)	Rail distance (mm)	
				Empty load	Load						
50	6	0.693 (0.4)	Yy0(d11)	350	550	2.5	4	2336×1049×815	1280	600 or 900	
100				520	920	2.5	4	2336×1049×815	1400		
200				820	1550	2	4	2446×1193×835	2100		
315		1.2 (0.693)		Yy0(d11) Dyn11	1100	2150	1.8	4	2526×1276×875		2550
400					1300	2600	1.8	4	2581×1325×895		3000
500					1500	3100	1.5	4	2696×1405×950		3300
630					1800	3680	1.5	4	2696×1405×950		3900
800		3.45 1.2 (0.693)	2050		4500	1.0	4	2893×1633×1165	5200		
1000			2350		5400	1.0	4	2893×1633×1165	6000		
1250		3.45 1.2	2750		6500	1.0	4	3088×1771×1165	6850		
1600			3350	8000	0.8	4	3206×1851×1175	8410			
2000			3800	9500	0.6	4.5	3316×1934×1260	9800			
2500			4500	10600	0.6	5	4110×1692×1350	13350			
50		10	0.693 (0.4)	Yy0(d11)	390	680	2.5	4	2366×1049×815		1380
100	560				1050	2.5	4	2476×1193×835	1800		
200	950				1800	2	4	2556×1276×875	2450		
315	1.2 (0.693)		Yy0 (d11) Dyn11		1300	2500	1.8	4	2726×1405×950	2930	
400					1500	3000	1.8	4	2726×1405×950	3200	
500					1750	3500	1.5	4	2796×1530×965	3700	
630	3.45 1.2(0.693)			2000	4100	1.5	4	2796×1530×965	4500		
800				2300	5100	1.2	4	3118×1771×1165	5400		
1000				2600	6100	1.2	4.5	3118×1771×1165	6000		
1250	3.45 1.2		3100	7400	1.0	4.5	3118×1771×1165	7350			
1600			3800	8500	1.0	5	3376×1934×1260	9330			
2000			4500	9700	0.7	5	3346×1934×1260	9750			
2500	3.45		5200	10800	0.7	5.5	4810×1692×1350	17500			
3150			6100	12800	0.7	5.5	4810×1692×1350	19800			
4000			7000	15000	0.7	6	4810×1692×1350	20500			

Remark: The parameters above are for reference only. The load loss is the value at temperature 145°C (the reference value when the insulation heat-resistant temperature class is H ), Dimension of KBSGZY depends on specific switch.