S11-M · RL

three-dimensional wound core distribution transformer



Brief introduction to products

The capacity range of S11 three–dimensional wound core transformer is 30–2500KVA. The core has a three–phase three–column structure with wrapped internal and external frames. The transformer has a high degree of mechanization and a large lamination factor. High and low voltage coils are continuously wound on core columns, so that the concentricity is good and the coils are tight. The main technical and economic indicators have reached the international advanced level of similar products.

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S11 series wound core distribution transformer has a low loss, and its load loss is the same as new S11 laminated core distribution transformer. Compared with GB/T6415–2008 1, the average no–load loss reduces by 20%. Its main materials have low consumption and light weight. The no–load current is small, and magnetic flux is completely arranged along the direction of cold–rolled silicon steel sheet lattice. Its low noise reduces approximately 3–5dB compared with the standard value of JB/T10088–2004. It has strong ability to withstand short circuit and high reliability. The clamping elements mainly tension the windings, and the iron yoke insulator and ladder–shaped pad are integrated into one body, so that the transformer body undergoes uniform pressure.

Core: 30Q120 cold–rolled silicon steel sheet is used. The core has a three–phase three–column structure with wrapped internal and external frames, and the core column is of multi–level stepped cylindrical cross section. The wrapped core is annealed and formed in vacuum. The screws of the upper and lower clamping elements tension the transformer body. Epoxy resin is painted onto the core surface to ensure that the core will not be deformed or not rust.

Windings and transformer body: the low–voltage winding is four–layer (or double–layer) cylindrical wound in parallel by 1–6 flat copper wires covered with paper. The high–voltage winding is multi–layer cylindrical, with good distribution of impact, and a high–strength round copper wire covered with acetal paint is used. Coils are directly wound on the rotating die that is clamped on the core column and is made up of a gear disk and soft paper tube. The iron yoke insulator and ladder–shaped pad are integrated into one body, so that the transformer body undergoes uniform pressure. A new hanger plate positioning structure is adopted for vertical and horizontal positioning, to ensure that the transformer body can not be offset.

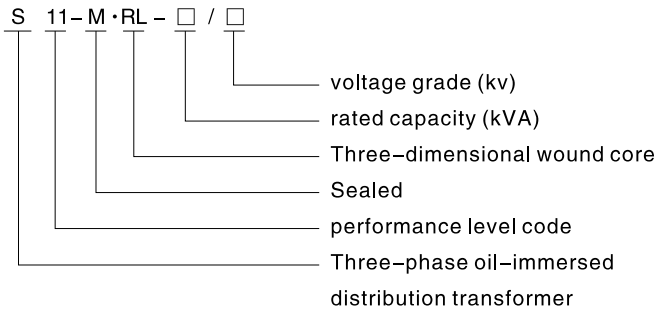
Fuel tank: mainly refers to a corrugated tank. It can also be designed into a rectangular finned radiator tank.

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Model designation



Technical parameters of S11 three–dimensional wound core oil–immersed transformer

rated capacity	voltage combination				no–load current	load loss	no–load loss	short–circuit resistance	Weight			track gauge	overall dimension
	high voltage	high voltage tapping range	low voltage	connection symbol					tare	oil	total		
30	11; 10.5; 10; 6.6; 6.3; 6;	±5%; or ±2 ×2.5%;	0.4	Dyn11; Yzn11; Yyn0;	100	630/600	0.33	4.0	167	107	358	380 × 550	1010 × 667 × 1159
50					130	910/870	0.30		222	113	423	380 × 550	1025 × 683 × 1224
80					180	1310/1250	0.27		278	153	525	380 × 550	1114 × 727 × 1314
100					200	1580/1500	0.26		278	149	554	380 × 550	1148 × 995 × 1314
160					280	2310/2200	0.24		439	168	746	400 × 660	1045 × 905 × 1376
200					340	2730/2600	0.23		509	197	856	400 × 660	1091 × 944 × 1394
250					400	3200/3050	0.22		591	228	986	400 × 660	1114 × 965 × 1397
315					480	3830/3650	0.21		679	252	1124	550 × 820	1190 × 1031 × 1422
400					570	4520/4300	0.21		818	303	1340	550 × 820	1225 × 1060 × 1477
500					680	5140/5100	0.20		964	375	1618	550 × 820	1394 × 1207 × 1562
630					810	6200	0.20	4.5	1128	417	1939	550 × 820	1467 × 1270 × 1594
800					980	7500	0.19		1424	526	2417	550 × 820	1570 × 1360 × 1636
1000					1150	10300	0.18		1660	645	2955	550 × 1070	1731 × 1510 × 1656
1250					1360	12000	0.17		1802	630	3135	550 × 1070	1761 × 1525 × 1768
1600					1640	14500	0.16		2255	781	3784	550 × 1070	1740 × 1510 × 1928
2000					2250	18500	0.15		3166	1239	5637	660 × 1300	1836 × 1699 × 1863
2500					2400	24000	0.15		3158	1541	6089	660 × 1300	1856 × 1762 × 2088