S13-M · RL

three-dimensional wound core distribution transformer



Brief introduction to products

The capacity range of S13 three–dimensional wound core transformer is 30–1600KVA. 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.

S13 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 50%. 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.

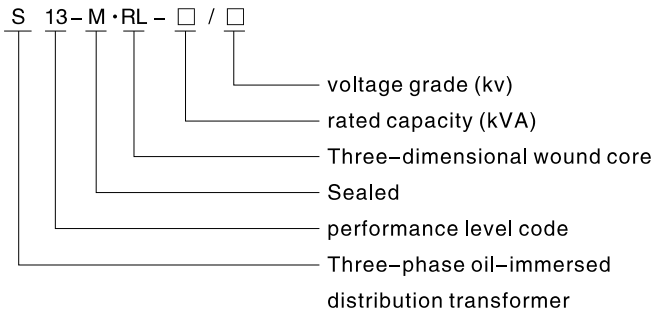
Fuel tank: mainly refers to a corrugated tank. It can also be designed into a rectangular finned radiator tank.

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Model designation



Technical parameters of S13 new energy–saving 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;	±2 ×2.5%; or ±5%;	0.4	Dyn11; Yzn11; Yyn0;	80	630 / 600	0.30	4.0	178	113	377	380 × 550	1028 × 682 × 1199
50					100	910 / 870	0.24		236	111	435	380 × 550	1025 × 683 × 1224
80					130	1310 / 1250	0.22		313	146	553	380 × 550	1096 × 722 × 1314
100					150	1580 / 1500	0.21		356	148	607	380 × 550	1096 × 722 × 1334
160					200	2310 / 2200	0.19		484	185	797	400 × 660	1080 × 935 × 1441
200					240	2730 / 2600	0.18		556	228	937	400 × 660	1109 × 960 × 1444
250					290	3200 / 3050	0.17		655	263	1091	400 × 660	1196 × 1036 × 1457
315					340	3830 / 3650	0.16		769	274	1269	550 × 820	1276 × 1105 × 1467
400					410	4520 / 4300	0.16		896	323	1437	550 × 820	1306 × 1131 × 1542
500					480	5410 / 5100	0.16		1044	433	1872	550 × 820	1483 × 1284 × 1592
630					570	6200	0.15	4.5	1352	414	2085	550 × 820	1395 × 1210 × 1649
800					700	7500	0.15		1613	496	2481	550 × 820	1526 × 1321 × 1711
1000					830	10300	0.14		1703	656	3000	550 × 1070	1717 × 1487 × 1726
1250					970	12000	0.13		2065	702	3449	550 × 1070	1711 × 1482 × 1829
1600					1170	14500	0.12		2592	1045	4450	550 × 1070	1880 × 1628 × 1938