

Type 3Ph 50Hz Oil-immersed transformer Hermetically Sealed Type



HV side 33 KV. With off-circuit tap changer +/- 2 X 2.5% Copper LV side 416 /240 V. Vector connection Dyn11

Rating Power	.. KVA.	50	100	160	250	315	400	500	630	800	1000	1250	1500	1600	2000	2500
No-Load loss	.. Watt	170	260	370	520	740	900	1100	1300	1400	1700	1900	2100	2150	2800	3300
Load loss 75 c	.. Watt	875	1450	2000	2750	3900	4600	5500	6500	11000	13500	16000	18900	19500	22700	26800
Impedance voltage 75 c	.. %	4	4	4	4	4	4	4	4	6	6	6	6	6	6	6
	Z _{LV} ..mOhm	138.44	69.22	43.26	27.69	21.98	17.31	13.84	10.99	12.98	10.38	8.31	6.92	6.49	5.19	4.15
Reactance Voltage	.. %	3.60	3.73	3.80	3.85	3.80	3.83	3.85	3.86	5.84	5.85	5.86	5.87	5.87	5.89	5.90
	X _{LV} ..mOhm	124.49	64.51	41.10	26.62	20.90	16.57	13.31	10.62	12.63	10.12	8.12	6.77	6.35	5.10	4.09
Resistance Voltage	.. %	1.75	1.45	1.25	1.10	1.24	1.15	1.10	1.03	1.38	1.35	1.28	1.26	1.22	1.14	1.07
	R _{LV} ..mOhm	60.57	25.09	13.52	7.61	6.80	4.98	3.81	2.83	2.97	2.34	1.77	1.45	1.32	0.98	0.74
Rated Current HV	.. amp.	0.87	1.75	2.80	4.37	5.51	7.00	8.75	11.02	14.00	17.50	21.87	26.24	27.99	34.99	43.74
	LV .. amp.	69	139	222	347	437	555	694	874	1110	1388	1735	2082	2221	2776	3470
I short circuit LV (I _{sc})	.. KA	1.73	3.47	5.55	8.67	10.93	13.88	17.35	21.86	18.51	23.13	28.91	34.70	37.01	46.26	57.83
Sound level (L _{pa} 0.3m)	.. dB(A)	52	56	59	62	56	56	56	57	58	58	60	60	60	60	62
Efficiency at P.F. = 1																
	at 25% Load .. %	98.23	98.62	98.78	98.91	98.77	98.83	98.86	98.93	98.97	98.99	99.08	99.13	99.16	99.16	99.21
	at 50% Load .. %	98.47	98.77	98.92	99.04	98.92	98.99	99.02	99.08	98.97	99.00	99.06	99.10	99.13	99.16	99.21
	at 75% Load .. %	98.26	98.59	98.77	98.91	98.77	98.85	98.89	98.96	98.75	98.78	98.85	98.88	98.92	98.97	99.03
	at 100% Load .. %	97.95	98.32	98.54	98.71	98.55	98.64	98.70	98.78	98.47	98.50	98.59	98.62	98.66	98.74	98.81
Voltage regulation at 100% load																
	at P.F. = 0.8 ... %	3.57	3.42	3.31	3.22	3.30	3.25	3.22	3.17	4.68	4.66	4.62	4.61	4.58	4.52	4.48
	at P.F. = 0.9 .. %	3.17	2.97	2.82	2.71	2.81	2.75	2.71	2.66	3.89	3.87	3.82	3.80	3.77	3.71	3.66
	at P.F. = 1 .. %	1.81	1.52	1.32	1.17	1.31	1.22	1.17	1.11	1.55	1.52	1.45	1.43	1.39	1.31	1.25
Overall dimension																
	L .. mm.	1150	1270	1330	1495	1290	1350	1600	1650	2040	2000	2050	2080	2190	2370	2630
	W .. mm.	685	755	820	640	890	910	890	950	1230	1150	1170	1200	1300	1390	1530
	H .. mm.	1265	1330	1405	1435	1525	1595	1635	1720	1730	1760	1840	1950	1890	1930	2265
Total weight	.. Kg.	745	970	1000	1185	1485	1755	1890	2245	2805	3295	3760	4440	4485	5335	7970
Oil quantity	.. Litr.	295	320	325	350	440	515	540	640	810	875	1005	1240	1185	1380	2210

Note : Dimension / Weight / Oil quantity Tolerance +/- 10 %