

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



HV side 22 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	110	180	260	360	700	850	1000	1200	1300	1600	1800	2000	2100	2700	3200
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.	1.31	2.62	4.20	6.56	8.27	10.50	13.12	16.53	21.00	26.24	32.80	39.37	41.99	52.49	65.61
	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)	42	44	47	50	56	56	56	57	58	58	60	60	60	60	62
Efficiency at P.F. = 1																
	at 25% Load .. %	98.70	98.93	99.05	99.16	98.82	98.88	98.94	98.99	99.02	99.03	99.11	99.16	99.18	99.18	99.23
	at 50% Load .. %	98.70	98.93	99.06	99.17	98.95	99.01	99.06	99.11	99.00	99.01	99.08	99.11	99.14	99.17	99.21
	at 75% Load .. %	98.42	98.69	98.86	98.99	98.79	98.87	98.92	98.98	98.77	98.79	98.86	98.89	98.92	98.98	99.03
	at 100% Load .. %	98.07	98.40	98.61	98.77	98.56	98.66	98.72	98.79	98.49	98.51	98.60	98.63	98.67	98.75	98.81
Voltage regulation at 100% load																
	at P.F. = 0.8 ... %	3.58	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 .. %	1.82	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.	1030	1170	1210	1440	1170	1220	1550	1650	1940	1960	2160	2060	2120	2230	2410
	W .. mm.	645	715	725	780	850	850	890	940	1170	1180	1320	1220	1230	1300	1420
	H .. mm.	1145	1245	1325	1365	1385	1425	1465	1490	1590	1610	1700	1775	1795	1805	2180
Total weight	.. Kg.	560	770	935	1150	1215	1435	1745	1940	2490	2715	3245	3845	4085	4590	6025
Oil quantity	.. Litr.	140	185	205	240	320	345	450	455	640	660	780	920	980	1045	1315

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