

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

**HV side** 33 KV. With off-circuit tap changer +/- 2 X 2.5%

**LV side** 400 /230 V. Vector connection Dyn11



Rating Power	... KVA.	50	100	160	250	315	400	500	630	750	800	1000	1250	1500	1600	2000	2500	3000
No-Load loss	... Watt	170	260	370	520	740	900	1100	1300	1350	1400	1700	1900	2100	2150	2800	3300	3800
Load loss 75°C	... Watt	950	1550	2100	2950	3900	4600	5500	6500	10600	11000	13500	16000	18900	19500	22700	26800	30800
Impedance voltage 75°C	... %	4	4	4	4	4	4	4	4	6	6	6	6	6	6	6	6	7
Z <sub>LV</sub>	...mOhm	128.0	64.00	40.00	25.60	20.32	16.00	12.80	10.16	12.80	12.00	9.60	7.68	6.40	6.00	4.80	3.84	3.73
Reactance Voltage	... %	3.52	3.69	3.78	3.82	3.80	3.83	3.85	3.86	5.83	5.84	5.85	5.86	5.87	5.87	5.89	5.90	6.92
X <sub>LV</sub>	...mOhm	112.6	59.00	37.79	24.46	19.32	15.32	12.31	9.81	12.44	11.68	9.35	7.50	6.26	5.87	4.71	3.78	3.69
Resistance Voltage	... %	1.90	1.55	1.31	1.18	1.24	1.15	1.10	1.03	1.41	1.38	1.35	1.28	1.26	1.22	1.14	1.07	1.03
R <sub>LV</sub>	...mOhm	60.80	24.80	13.13	7.55	6.29	4.60	3.52	2.62	3.02	2.75	2.16	1.64	1.34	1.22	0.91	0.69	0.55
Rated Current	HV ... amp.	0.87	1.75	2.80	4.37	5.51	7.00	8.75	11.02	13.12	14.00	17.50	21.87	26.24	27.99	34.99	43.74	52.49
	LV ... amp.	72	144	231	361	455	577	722	909	1,083	1,155	1,443	1,804	2,165	2,309	2,887	3,609	4,330
I short circuit LV ( I <sub>sc</sub> )	... KA	1.8	3.6	5.8	9.0	11	14	18	23	18	19	24	30	36	38	48	60	62
Sound level ( L <sub>pa</sub> 0.3m )	... dB(A)	48	51	51	51	56	56	56	57	58	58	58	60	60	60	60	62	64
Efficiency at P.F. = 1																		
at 25% Load	... %	98.20	98.59	98.76	98.89	98.77	98.83	98.86	98.93	98.94	98.97	98.99	99.08	99.13	99.16	99.16	99.21	99.24
at 50% Load	... %	98.40	98.72	98.89	99.00	98.92	98.99	99.02	99.08	98.94	98.97	99.00	99.06	99.10	99.13	99.16	99.21	99.24
at 75% Load	... %	98.16	98.51	98.72	98.85	98.77	98.85	98.89	98.96	98.72	98.75	98.78	98.85	98.88	98.92	98.97	99.03	99.07
at 100% Load	... %	97.81	98.22	98.48	98.63	98.55	98.64	98.70	98.78	98.43	98.47	98.50	98.59	98.62	98.66	98.74	98.81	98.86
Voltage regulation at 100% load																		
at P.F. = 0.8	... %	3.65	3.47	3.34	3.26	3.30	3.25	3.22	3.17	4.70	4.68	4.66	4.62	4.61	4.58	4.52	4.48	5.10
at P.F. = 0.9	... %	3.27	3.04	2.87	2.77	2.81	2.75	2.71	2.66	3.92	3.89	3.87	3.82	3.80	3.77	3.71	3.66	4.11
at P.F. = 1	... %	1.96	1.62	1.38	1.25	1.31	1.22	1.17	1.11	1.58	1.55	1.52	1.45	1.43	1.39	1.31	1.25	1.27
Overall dimension																		
L	... mm.	1180	1180	1200	1240	1290	1350	1620	1690	1900	1900	2000	2010	2080	2160	2320	2480	2630
W	... mm.	780	785	760	900	890	910	890	950	1120	1120	1150	1160	1200	1280	1370	1480	1530
H	... mm.	1360	1410	1615	1510	1525	1585	1655	1720	1700	1700	1780	1870	1950	1950	1950	2305	2265
Total weight	... Kg.	745	970	1000	1580	1490	1770	2005	2340	2630	2570	3240	2830	4440	4670	5430	6640	7970
Oil quantity	... Litr.	295	320	325	490	440	520	555	645	820	710	930	1060	1240	1310	1470	1790	2210

Note : The data in this table are indicative and can be modified at any time.