

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

**HV side** 24 KV. With off-circuit tap changer - 4 X 2.5%

**LV side** 416 /240 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	160	250	360	500	700	850	1000	1200	1250	1300	1600	1800	2000	2100	2700	3200	3600
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	138.4	69.22	43.26	27.69	21.98	17.31	13.84	10.99	13.84	12.98	10.38	8.31	6.92	6.49	5.19	4.15	4.04
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	121.8	63.81	40.87	26.46	20.90	16.57	13.31	10.62	13.45	12.63	10.12	8.12	6.77	6.35	5.10	4.09	3.99
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	65.76	26.82	14.20	8.17	6.80	4.98	3.81	2.83	3.26	2.97	2.34	1.77	1.45	1.32	0.98	0.74	0.59
Rated Current	HV ... amp.	1.20	2.41	3.85	6.01	7.58	9.62	12.03	15.16	18.04	19.25	24.06	30.07	36.09	38.49	48.11	60.14	72.17
	LV ... amp.	69	139	222	347	437	555	694	874	1,041	1,110	1,388	1,735	2,082	2,221	2,776	3,470	4,164
I short circuit LV ( I <sub>sc</sub> )	... KA	1.7	3.5	5.6	8.7	11	14	17	22	17	19	23	29	35	37	46	58	59
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	... %	98.28	98.63	98.79	98.92	98.82	98.88	98.94	98.99	98.99	99.02	99.03	99.11	99.16	99.18	99.18	99.23	99.27
at 50% Load	... %	98.43	98.74	98.91	99.02	98.95	99.01	99.06	99.11	98.97	99.00	99.01	99.08	99.11	99.14	99.17	99.21	99.25
at 75% Load	... %	98.18	98.53	98.73	98.86	98.79	98.87	98.92	98.98	98.73	98.77	98.79	98.86	98.89	98.92	98.98	99.03	99.08
at 100% Load	... %	97.83	98.23	98.49	98.64	98.56	98.66	98.72	98.79	98.44	98.49	98.51	98.60	98.63	98.67	98.75	98.81	98.87
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.	850	1310	1170	1100	1190	1185	1550	1610	1910	1940	1940	2060	2110	2110	2240	2420	2480
W	... mm.	675	770	805	810	850	850	890	950	1180	1190	1190	1280	1260	1310	1350	1460	1510
H	... mm.	1145	1305	1335	1405	1405	1465	1465	1580	1610	1600	1730	1730	1825	1905	1935	2255	2385
Total weight	... Kg.	485	880	905	1250	1320	1520	1760	2090	2420	2505	2960	3460	4180	4370	5040	6390	7580
Oil quantity	... Litr.	140	250	270	335	360	405	440	530	660	675	760	870	1130	1150	1330	1710	1960

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