

Type 3Ph 50Hz Oil-immersed transformer N₂ Gas 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
No-Load loss	... Watt	170	260	370	520	740	900	1100	1300	1350	1400	1700	1900	2100	2150	2800	3300
Load loss 75°C	... Watt	950	1550	2100	2950	3900	4600	5500	6500	10600	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	6
Z _{LV}	...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
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
X _{LV}	...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
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
R _{LV}	...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
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
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
I short circuit LV (I _{sc})	... KA	1.8	3.6	5.8	9.0	11	14	18	23	18	19	24	30	36	38	48	60
Sound level (L _{pa} 0.3m)	... dB(A)	48	51	51	51	56	56	56	57	58	58	58	60	60	60	60	62
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
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
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
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
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
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
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
Overall dimension																	
L	... mm.	980	1230	1370	1350	1450	1560	1660	1820	2000	2100	1990	2100	2120	2140	2480	2480
W	... mm.	655	655	705	660	850	880	910	1010	1300	1330	1210	1250	1260	1260	1460	1480
H	... mm.	1480	1650	1560	1660	1690	1760	1830	1725	1780	1805	1870	1945	2000	2020	2085	2250
Total weight	... Kg.	680	910	1235	1355	1570	1670	2300	2840	2900	2920	3410	3800	4500	4640	6100	7100
Oil quantity	... Litr.	225	265	405	415	475	525	620	840	1000	1015	1020	1080	1100	1110	1810	2140

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