

Type 3Ph 50Hz Oil-immersed transformer Conservator 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 _{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	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 _{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	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 _{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	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 _{sc})	... 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 _{pa} 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.	1450	1520	1520	1650	1680	1710	1895	1905	2135	2135	2215	2300	2350	2350	2540	2595	2545
W	... mm.	740	790	785	800	850	850	970	950	1190	1190	1230	1330	1410	1410	1400	1430	1950
H	... mm.	1480	1560	1580	1680	1730	1790	1870	1925	1975	1975	2020	2145	2195	2195	2265	2460	2630
Total weight	... Kg.	665	900	995	1480	1610	1780	2355	2700	2960	2960	3420	4160	4580	4580	6110	7150	9870
Oil quantity	... Litr.	215	305	295	485	480	525	685	790	890	890	940	1175	1235	1235	1640	1940	2550

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