

Type 3Ph 50Hz Oil-immersed transformer Conservator Type

HV side 22 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	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 _{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.	1.31	2.62	4.20	6.56	8.27	10.50	13.12	16.53	19.68	21.00	26.24	32.80	39.37	41.99	52.49	65.61	78.73
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	... %	98.28	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.	1140	1320	1370	1440	1530	1620	1610	1805	1955	1955	2065	2180	2220	2220	2415	2500	2545
W	... mm.	665	780	765	820	945	895	980	1000	1190	1190	1120	1290	1300	1300	1350	1450	1950
H	... mm.	1225	1460	1520	1540	1720	1810	1690	1890	1845	1845	1915	2025	2125	2125	2295	2390	2630
Total weight	... Kg.	515	850	1085	1270	1670	1810	1820	2350	2730	2730	3130	3710	4650	4875	5330	7040	9870
Oil quantity	... Litr.	130	240	295	340	515	470	480	600	730	730	940	960	1330	1415	1370	2170	2550

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