

Type 3Ph 50Hz Oil-immersed transformer Conservator Type

HV side 12 /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 _{LV}	...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 _{LV}	...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 _{LV}	...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 (12kv)	... amp.	2.41	4.81	7.70	12.03	15.16	19.25	24.06	30.31	36.09	38.49	48.11	60.14	72.17	76.98	96.23	120.28	144.34
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 _{sc})	... 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 _{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.	1185	1290	1315	1430	1495	1595	1700	1835	2105	2105	2080	2115	2175	2235	2450	2550	2800
W	... mm.	870	715	715	890	995	895	990	1000	970	970	1190	1165	1300	1245	1440	1500	1600
H	... mm.	1370	1500	1540	1640	1690	1900	1800	1925	2120	2120	2005	2210	2195	2245	2430	2460	2600
Total weight	... Kg.	670	875	945	1250	1520	1800	1920	2400	3200	3200	3350	3790	4540	4990	5425	7100	8500
Oil quantity	... Litr.	250	290	330	420	485	515	610	655	900	900	1050	1100	1410	1520	1440	2200	2600

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