

Type 3Ph 50Hz Oil-immersed transformer Hermetically Sealed 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.	955	1190	1100	1130	1170	1120	1470	1600	1840	1840	1890	2000	1960	2040	2300	2390	2520
	W ... mm.	705	690	840	850	900	840	850	950	1140	1140	1120	1220	1180	1260	1420	1460	1500
	H ... mm.	1225	1435	1465	1425	1475	1515	1585	1630	1630	1630	1660	1740	1915	1915	1985	2255	2375
Total weight	... Kg.	550	880	1035	1220	1385	1480	1820	2175	2535	2550	2940	3750	4120	4500	5430	6640	7440
Oil quantity	... Litr.	200	310	345	385	415	400	495	620	725	730	785	1015	1110	1330	1430	1910	1970

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