

Type 3Ph 50Hz Oil-immersed transformer N₂ Gas 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
No-Load loss	... Watt	160	250	360	500	700	850	1000	1200	1250	1300	1600	1800	2000	2100	2700	3200
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	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
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	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
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	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
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
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
I short circuit LV (Isc)	... KA	1.7	3.5	5.6	8.7	11	14	17	22	17	19	23	29	35	37	46	58
Sound level (Lpa 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	... %	98.28	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
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
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
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
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.	1040	1170	1250	1310	1270	1500	1580	1760	1800	1820	1990	2030	2100	2160	2340	2600
W	... mm.	665	685	740	730	850	890	910	1040	1150	1190	1210	1230	1300	1340	1430	1520
H	... mm.	1320	1500	1510	1520	1590	1670	1730	1755	1800	1820	1870	1930	2040	2095	2135	2270
Total weight	... Kg.	700	910	1010	1390	1490	1880	2150	2530	2650	2710	3410	4110	4600	4810	5590	7765
Oil quantity	... Litr.	210	265	350	380	440	525	560	630	650	675	1010	1020	1200	1260	1365	2030

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