

Type 3Ph 50Hz Oil-immersed transformer Hermetically Sealed 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.	1000	975	1030	1120	1190	1230	1430	1610	1910	1940	1940	2080	2110	2110	2290	2420	2450
	W ... mm.	615	695	745	800	850	850	850	950	1180	1190	1190	1280	1260	1310	1420	1460	1480
	H ... mm.	1135	1225	1325	1375	1405	1465	1565	1580	1610	1600	1730	1730	1825	1905	2035	2255	2375
Total weight	... Kg.	480	645	860	1190	1310	1540	1700	2095	2430	2520	2930	3490	4240	4390	5050	6540	7350
Oil quantity	... Litr.	130	175	230	310	360	415	430	525	655	670	760	870	1120	1150	1360	1690	1850

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