

Type 3Ph 50Hz TMC Dry Type Cast Resin Transformer



HV side: 22 KV. With off-circuit tap changer +/- 2 X 2.5% ALUMINIUM

LV side: 416 /240 & 400/230 V. Vector connection Dyn11

Rating Power	.. KVA.	100	150	200	250	315	400	500	630	800	1000	1250	1500	1600	2000	2500
No-Load loss	.. Watt	340	450	550	650	770	940	1070	1250	1500	1800	2100	2310	2400	3000	3600
Load loss 75 c	.. Watt	1840	2480	2970	3420	4080	4950	5770	6840	8460	9900	11700	13620	14400	16200	20700
Load loss 120 c	.. Watt	2050	2750	3300	3800	4530	5500	6410	7600	9400	11000	13000	15140	16000	18000	23000
Impedance voltage 75 c	.. %	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	Z_{LV} ..mOhm	103.83	69.22	51.92	41.53	32.96	25.96	20.77	16.48	12.98	10.38	8.31	6.92	6.49	5.19	4.15
Reactance Voltage	.. %	5.71	5.77	5.81	5.84	5.86	5.87	5.89	5.90	5.91	5.92	5.93	5.93	5.93	5.95	5.94
	X_{LV} ..mOhm	98.83	66.54	50.30	40.44	32.19	25.40	20.38	16.21	12.78	10.24	8.20	6.84	6.42	5.14	4.11
Resistance Voltage	.. %	1.84	1.65	1.49	1.37	1.30	1.24	1.15	1.09	1.06	0.99	0.94	0.91	0.90	0.81	0.83
	R_{LV} ..mOhm	31.84	19.07	12.85	9.47	7.12	5.35	3.99	2.98	2.29	1.71	1.30	1.05	0.97	0.70	0.57
Rated Current HV	.. amp.	1.75	2.62	3.50	4.37	5.51	7.00	8.75	11.02	14.00	17.50	21.87	26.24	27.99	34.99	43.74
	LV .. amp.	139	208	278	347	437	555	694	874	1110	1388	1735	2082	2221	2776	3470
I short circuit LV (Isc)	.. KA	2.31	3.47	4.63	5.78	7.29	9.25	11.57	14.57	18.51	23.13	28.91	34.70	37.01	46.26	57.83
Sound level (Lpa 0.3m)	.. dB(A)	46	48	50	51	53	54	56	56	58	59	59	61	61	62	63
Efficiency at P.F. = 1																
	at 25% Load .. %	98.21	98.41	98.55	98.64	98.72	98.77	98.87	98.95	99.00	99.04	99.10	99.16	99.18	99.20	99.22
	at 50% Load .. %	98.43	98.59	98.72	98.81	98.88	98.92	99.00	99.07	99.10	99.15	99.20	99.24	99.26	99.30	99.30
	at 75% Load .. %	98.20	98.39	98.54	98.65	98.72	98.77	98.86	98.93	98.97	99.03	99.08	99.12	99.13	99.20	99.19
	at 100% Load .. %	97.87	98.08	98.27	98.40	98.48	98.55	98.65	98.73	98.77	98.84	98.91	98.95	98.96	99.05	99.04
Voltage regulation at 100% load																
	at P.F. = 0.8 .. %	4.96	4.85	4.75	4.67	4.63	4.59	4.54	4.49	4.47	4.43	4.39	4.37	4.37	4.31	4.32
	at P.F. = 0.9 .. %	4.24	4.10	3.98	3.89	3.83	3.79	3.72	3.67	3.64	3.59	3.55	3.52	3.52	3.45	3.46
	at P.F. = 1 .. %	2.00	1.82	1.65	1.54	1.47	1.41	1.33	1.26	1.23	1.17	1.11	1.08	1.08	0.99	1.00
Transformer dimension																
	L (a1) .. mm.	1300	1300	1300	1300	1400	1450	1500	1550	1600	1650	1700	1800	1800	1900	2000
	W (b2) .. mm.	970	970	970	970	1450	1450	1450	1450	1450	1550	1550	1550	1550	1650	1650
	H (h1) .. mm.	1310	1410	1490	1530	1550	1550	1700	1770	1930	1980	2070	2100	2140	2220	2440
Total weight	.. Kg.	800	900	1000	1100	1300	1450	1700	1950	2300	2650	3150	3600	3750	4550	5550
Terminal Type		A	A	B	B	B	B	C	D	E	F	G	H	H	I	J
Enclosure dimension																
	L .. mm.	1900	1900	2100	2100	2100	2100	2200	2500	2500	2500	2500	2600	2600	2700	2700
	W .. mm.	1400	1400	1400	1400	1550	1550	1550	1550	1550	1650	1650	1650	1650	1750	1750
	H .. mm.	1700	1700	1900	1900	2000	2000	2100	2200	2400	2500	2500	2600	2600	2900	2900
Total weight	.. Kg.	365	365	430	430	480	480	510	625	670	685	685	715	715	835	835

Note : Dimension Tolerance +/- 10 %

