

Type 3Ph 50Hz TMC Dry Type Cast Resin Transformer

HV side: 33 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	800	880	980	1100	1180	1300	1430	1600	1900	2250	2600	2880	3000	3500	4200
Load loss 75 c	.. Watt	1800	2320	2870	3420	4040	4860	5680	6750	8100	9900	11700	13620	14400	16650	20250
Load loss 120 c	.. Watt	2000	2580	3180	3800	4490	5400	6310	7500	9000	11000	13000	15140	16000	18500	22500
Impedance voltage 75 c	.. %	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	Z_{TV} ..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	.. %	5.72	5.80	5.83	5.84	5.86	5.88	5.89	5.90	5.91	5.92	5.93	5.93	5.93	5.94	5.95
	X_{TV} ..mOhm	99.05	66.88	50.41	40.44	32.20	25.42	20.39	16.22	12.79	10.24	8.20	6.84	6.42	5.14	4.12
Resistance Voltage	.. %	1.80	1.55	1.44	1.37	1.28	1.22	1.14	1.07	1.01	0.99	0.94	0.91	0.90	0.83	0.81
	R_{TV} ..mOhm	31.15	17.84	12.42	9.47	7.05	5.26	3.93	2.94	2.19	1.71	1.30	1.05	0.97	0.72	0.56
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	49	51	52	54	55	57	57	59	60	62	63	63	64	65
Efficiency at P.F. = 1																
at 25% Load	.. %	96.48	97.34	97.73	97.94	98.21	98.42	98.59	98.73	98.81	98.87	98.95	99.01	99.03	99.10	99.13
at 50% Load	.. %	97.56	98.09	98.33	98.46	98.63	98.76	98.87	98.97	99.03	99.06	99.12	99.17	99.18	99.24	99.26
at 75% Load	.. %	97.64	98.09	98.30	98.41	98.56	98.67	98.78	98.87	98.94	98.97	99.03	99.07	99.08	99.15	99.18
at 100% Load	.. %	97.47	97.91	98.11	98.22	98.37	98.48	98.60	98.69	98.77	98.80	98.87	98.91	98.92	99.00	99.03
Voltage regulation at 100% load																
at P.F. = 0.8	.. %	4.94	4.78	4.72	4.67	4.62	4.58	4.52	4.48	4.44	4.43	4.39	4.37	4.37	4.32	4.31
at P.F. = 0.9	.. %	4.21	4.02	3.94	3.89	3.82	3.77	3.71	3.66	3.61	3.59	3.55	3.52	3.52	3.46	3.45
at P.F. = 1	.. %	1.96	1.71	1.60	1.54	1.45	1.39	1.31	1.25	1.19	1.17	1.11	1.08	1.08	1.01	0.99
Transformer dimension																
L (a1)	.. mm.	1660	1660	1660	1660	1760	1760	1800	1860	1860	1950	1950	2050	2050	2050	2100
W (b2)	.. mm.	1450	1450	1450	1450	1450	1450	1450	1450	1550	1550	1650	1650	1650	1650	1650
H (h1)	.. mm.	1960	1980	2000	2020	2060	2080	2120	2140	2220	2330	2330	2430	2470	2650	2730
Total weight	.. Kg.	1250	1350	1500	1600	1800	2050	2350	2700	3100	3500	4000	4750	5000	5850	6750
Terminal Type		A	A	B	B	B	B	C	D	E	F	G	H	H	I	J
Enclosure dimension																
L	.. mm.	2500	2500	2500	2500	2600	2600	2600	2800	2800	2800	2800	2800	2800	2900	2900
W	.. mm.	1700	1700	1700	1700	1700	1700	1700	1700	1800	1800	1900	1900	1900	1900	1900
H	.. mm.	2400	2400	2400	2400	2500	2500	2500	2500	2700	2800	2800	2900	2900	3000	3100
Total weight	.. Kg.	560	560	560	560	620	620	620	650	710	730	740	785	785	930	960

Note : Dimension Tolerance +/- 10 %

