

Type 3Ph 50Hz Dry Type Cast Resin Transformer of TMC

Aluminium Conductor

HV Side 12/24 KV with off- circuit -4 x 2.5%

Ekarat Engineering Public Company Limited.

LV side 416/240 V. Vector connection Dyn11



Rating Power	...KVA	500	630	800	1000	1250	1600	2000	2500	3000
No-Load loss	...Watt	1230	1430	1720	2070	2410	2760	3450	4140	4740
Load loss 75 °C	...Watt	6150	7300	9000	10550	12450	15300	17250	22000	25650
Impedance Voltage 75 °C	...%	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
Z <sub>LV</sub>	...mOhm/phase	20.8	16.5	13.0	10.4	8.3	6.5	5.2	4.2	3.5
Reactance Voltage	...%	5.87	5.89	5.89	5.91	5.92	5.92	5.94	5.94	5.94
X <sub>LV</sub>	...mOhm/phase	20.3	16.2	12.7	10.2	8.2	6.4	5.1	4.1	3.4
Resistance Voltage	...%	1.230	1.159	1.125	1.055	0.996	0.956	0.863	0.880	0.855
R <sub>LV</sub>	...mOhm/phase	4.26	3.18	2.43	1.83	1.38	1.03	0.75	0.61	0.49
Rated Current	HV ...amp	12.03	15.16	19.25	24.06	30.07	38.49	48.11	60.14	72.17
	LV ...amp	693.93	874.35	1110.29	1387.86	1734.83	2220.58	2775.72	3469.65	4163.58
I short circuit LV (Isc)	...kA	11.57	14.57	18.50	23.13	28.91	37.01	46.26	57.83	69.39
Sound level (Lpa at 1m)	...dB(A)	56	56	58	59	59	61	62	63	64
Efficiency at P.F. = 1										
	at 25 % Load ...%	98.72	98.82	98.87	98.92	98.99	99.08	99.10	99.13	99.16
	at 50 % Load ...%	98.91	98.98	99.02	99.07	99.12	99.18	99.23	99.23	99.26
	at 75 % Load ...%	98.76	98.84	98.88	98.94	99.01	99.06	99.13	99.13	99.16
	at 100 % Load ...%	98.55	98.63	98.68	98.75	98.83	98.88	98.98	98.97	99.00
Voltage regulation at 100% load										
	at P.F. = 0.8 ...%	4.59	4.54	4.52	4.47	4.43	4.41	4.34	4.35	4.34
	at P.F. = 0.9 ...%	3.78	3.72	3.70	3.64	3.60	3.56	3.49	3.50	3.48
	at P.F. = 1.0 ...%	1.40	1.33	1.30	1.23	1.17	1.13	1.04	1.06	1.03
Transformer diemnsion										
	L ...mm	1400	1450	1500	1550	1700	1700	1700	1850	2050
	W ...mm	1450	1450	1450	1550	1550	1550	1650	1650	1650
	H ...mm	1510	1610	1790	1840	1990	2070	2250	2300	2750
Transformer weight	...Kg.	1540	1770	2270	2530	3030	3520	4220	5770	7400
Enclosure dimension										
	A ...mm	2200	2500	2500	2500	2500	2600	2700	2700	2900
	B ...mm	1550	1550	1550	1650	1650	1650	1750	1750	1750
	C ...mm	2100	2200	2400	2500	2500	2600	2900	2900	3000
Enclosure weight	...Kg.	510	625	670	685	685	715	835	835	910
Terminal Type		C	D	E	F	G	H	I	J	K