

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

Aluminium Conductor

HV Side 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	1070	1250	1500	1800	2100	2400	3000	3600	4130	
Load loss 75 °C	...Watt	5600	6600	8200	9600	11300	13950	15650	20000	23300	
Impedance Voltage 75 °C	...%	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	
Z _{LV}	...mOhm/phase	20.8	16.5	13.0	10.4	8.3	6.5	5.2	4.2	3.5	
Reactance Voltage	...%	5.89	5.91	5.91	5.92	5.93	5.94	5.95	5.95	5.95	
X _{LV}	...mOhm/phase	20.4	16.2	12.8	10.2	8.2	6.4	5.1	4.1	3.4	
Resistance Voltage	...%	1.120	1.048	1.025	0.960	0.904	0.872	0.783	0.800	0.777	
R _{LV}	...mOhm/phase	3.88	2.88	2.22	1.66	1.25	0.94	0.68	0.55	0.45	
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	69.69	
Sound level (Lpa at 1m)	...dB(A)	56	56	58	59	59	61	62	63	64	
Efficiency at P.F. = 1											
	at 25 % Load	...%	98.88	98.96	99.00	99.05	99.11	99.19	99.21	99.23	99.26
	at 50 % Load	...%	99.02	99.09	99.12	99.17	99.22	99.27	99.31	99.32	99.34
	at 75 % Load	...%	98.89	98.96	98.99	99.05	99.11	99.15	99.22	99.21	99.24
	at 100 % Load	...%	98.68	98.77	98.80	98.87	98.94	98.99	99.08	99.06	99.09
Voltage regulation at 100% load											
	at P.F. = 0.8	...%	4.51	4.47	4.45	4.41	4.37	4.35	4.29	4.30	4.28
	at P.F. = 0.9	...%	3.69	3.64	3.62	3.57	3.52	3.50	3.42	3.44	3.42
	at P.F. = 1.0	...%	1.29	1.22	1.20	1.14	1.08	1.05	0.96	0.98	0.95
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	1500	1600	1750	1800	1950	2050	2050	2200	2450
Transformer weight	...Kg.	1500	1750	2200	2500	3000	3500	4200	5700	7000	
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	