

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

Aluminium Conductor

HV Side 33 KV with off- circuit +2 x 2.5%

LV side 400/230 V. Vector connection Dyn11



Ekarat Engineering Public Company Limited.

Rating Power	...KVA	500	630	800	1000	1250	1600	2000	2500	3000	
No-Load loss	...Watt	1280	1400	1650	1900	2200	2550	3000	3500	3960	
Load loss 75 °C	...Watt	5500	6550	7850	9600	11300	13950	16100	19600	22900	
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	19.2	15.2	12.0	9.6	7.7	6.0	4.8	3.8	3.2	
Reactance Voltage	...%	5.90	5.91	5.92	5.92	5.93	5.94	5.95	5.95	5.95	
X <sub>LV</sub>	...mOhm/phase	18.9	15.0	11.8	9.5	7.6	5.9	4.8	3.8	3.2	
Resistance Voltage	...%	1.100	1.040	0.981	0.960	0.904	0.872	0.805	0.784	0.763	
R <sub>LV</sub>	...mOhm/phase	3.52	2.64	1.96	1.54	1.16	0.87	0.64	0.50	0.41	
Rated Current	HV	...amp	8.75	11.02	14.00	17.50	21.87	27.99	34.99	43.74	52.49
	LV	...amp	721.69	909.33	1154.70	1443.38	1804.22	2309.40	2886.75	3608.44	4330.13
I short circuit LV (Isc)	...kA	12.03	15.16	19.25	24.06	30.07	38.49	48.11	60.14	72.17	
Sound level (Lpa at 1m)	...dB(A)	57	57	59	60	62	63	64	65	67	
Efficiency at P.F. = 1											
	at 25 % Load	...%	98.72	98.86	98.94	99.01	99.08	99.15	99.21	99.29	
	at 50 % Load	...%	98.95	99.04	99.10	99.15	99.20	99.25	99.30	99.36	
	at 75 % Load	...%	98.85	98.94	99.00	99.04	99.10	99.14	99.20	99.26	
	at 100 % Load	...%	98.66	98.75	98.83	98.86	98.93	98.98	99.05	99.11	
Voltage regulation at 100% load											
	at P.F. = 0.8	...%	4.50	4.46	4.42	4.41	4.37	4.35	4.30	4.27	
	at P.F. = 0.9	...%	3.68	3.63	3.58	3.57	3.52	3.50	3.44	3.41	
	at P.F. = 1.0	...%	1.27	1.21	1.16	1.14	1.08	1.05	0.98	0.94	
Transformer diemnsion											
	L	...mm	1550	1760	1760	1960	2060	2260	2260	2460	2460
	W	...mm	1450	1450	1450	1450	1550	1650	1650	1650	1650
	H	...mm	1650	1650	1800	1950	2440	2470	2600	2650	2730
Transformer weight	...Kg.	1500	2150	2550	3540	4300	5150	5300	6200	7450	
Enclosure dimension											
	A	...mm	2300	2500	2500	2700	2800	2800	2900	3000	3000
	B	...mm	1550	1550	1550	1650	1750	1750	1750	1750	1750
	C	...mm	2200	2300	2400	2900	2900	2900	3000	3100	3100
Enclosure weight	...Kg.	550	650	670	715	750	750	750	770	800	
Terminal Type		C	D	E	F	G	H	I	J	K	