

RESULTS OF NO LOAD TESTS CONDUCTED ON INDUCTION MOTORS UNDER BALANCED AND UNBALANCED VOLTAGE CONDITIONS

KW/HP	Pole	V1	V2	V3	% Unbalanced Voltage	A1	A2	A3	% Unbalanced Current
30/40	4	420	420	420	----	13.5	12.8	12.75	3.72
30/40	4	420	416	422	0.72	15.5	12.0	11.00	21.00
15/20	4	440	440	440	----	11.25	11.5	11.38	1.14
15/20	4	440	418	418	3.52	13.70	5.75	12.35	45.50
11/15	4	414	414	414	----	8.6	8.1	8.25	3.42
11/15	4	414	414	396	2.95	10.65	7.4	6.50	30.42
150/200	8	425	425	425	----	69.60	69.60	70.8	1.2
150/200	8	423	426	426	0.47	67.2	68.4	74.4	6.35
110/150	4	424	424	424	----	49.2	49.2	49.8	0.85
110/150	4	426	427	423	0.14	55.8	49.8	43.8	12.00
100/135	4	420	420	420	----	25.8	25.2	25.2	1.65
100/135	4	427	431	430	0.465	24.0	26.4	30.6	13.2

INSULATION :

All motors are insulated with class 'F' insulation system. Class 'F' allows temperature rise of 105 K. By the resistance variation method) over 50°C ambient temperature and maximum temperature of 155°C at the hot spots.

Insulation Class	Temperature Rise	Max. Temp. At Hot Spots
CLASS 'F'	105 K	155°C

Note : For all Class 'F' Insulation motors Temp. rise is limited to Class 'B' i.e. 70°C over and ambient temp of 50°C.