

TEST REPORT

Date : 25/09/2015

FOR INDUCTION MOTOR

**NAMEPLATE DATA**

FRAME	: 132	TYPE	: SCR	kW	: 18.5	AMBIENT TEMP. (°C)	: 45
EFFICIENCY(%)	: 90	PHASE	: 3	VOLTS	: 415	RPM	: 1470
POLE	: 4	Inom(A)	: 32.1	IP	: 9	FREQUENCY (Hz)	: 50
S.F.	: 1.1	DUTY	: S1	PF	: 0.89	IC	: 12
CONNECTION	: DELTA	Eff2 / IE2	: 90	INS. CLASS	: F	D.E. BRG.	: 0
GD <sup>2</sup> (kg m <sup>2</sup> )	: 3	SERIAL NO.	: OFP00003			NDE BRG	: 6311
WEIGHT (kg)	: 200	TORQUE	: 120.19 Nm				

**Resistance Test (Cold) :-**

Ambient Temp. (°C)	Resistance (Ohms)			Average
	U - Phase	V - Phase	W - Phase	
29.5	0.705	0.705	0.705	0.705

**Surge Test :-**

Surge Voltage (kV)	Remark
0.23	OK

**HV Test :-**

Applied Voltage (kV)	Leakage Current (mA)	Remark
0.42	5.40	OK

**Insulation Resistance Test :-**

Winding to Frame	487.80
Winding to Ground	387.00

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**Locked Rotor Test :-**

Volts (V) MEB	Current (A) MEB	PF	Input (kW)	Freq. (Hz)	Torque (Nm)	Volts nom (V)	Current nom (A)	Torque (Nm)	Current Is/In	% of FL Torque (Nm) Cs/Cn
396.60	143.00	0.46	44.80	50.00	116.00	415.00	149.63	127.01	4.66	1.06

**Breakdown Performance (Max Torque) :-**

Volts (V) MEB	Current (A) MEB	Speed (RPM)	Freq. (Hz)	Volts nom (V)	Current (A)	Torque (Nm)	Torque Cmax/Cn (Nm)
415.60	106.00	1350.00	50.00	415.00	105.85	231.33	1.92

**Temperature Rise Test (Breakdown Performance) :-**

At 100% load

Winding Resistance before temp. rise 0.705 Ohms at ambient temp. 29.5 °C

Time	Amb. Temp. (°C)	Temp DE T1(°C)	Body Temp T2(°C)	Temp NDE (°C)	I/P kW	Volts.	Curr. (Amps)	O/P kW	Torque (Nm)	SLIP %	RPM	Freq. (Hz)	Eff. %
11:36	29.2	29.5	29.8	30.8	22.660	378.20	39.66	19.86	129.00	1.93	1471	50.00	88.00
11:51	29	37.2	37.5	33.1	21.200	384.90	36.30	18.79	122.00	1.87	1472	50.00	89.00
12:06	29.3	48.2	47.4	35.5	19.720	383.10	33.81	18.51	120.00	1.73	1474	50.00	94.00
12:21	29.4	55.3	53.5	37.3	20.590	384.80	35.13	18.26	119.00	2.27	1466	50.00	89.00
12:36	29.5	60.5	57.8	38.5	20.600	389.60	34.68	18.46	120.00	2.00	1470	50.00	90.00
12:51	29.6	63.9	61	39.4	20.580	403.20	33.56	19.18	125.00	2.27	1466	50.00	93.00
13:06	29.5	66.3	62.9	40.1	20.570	406.90	33.21	17.73	115.00	1.80	1473	50.00	86.00
13:21	29.5	68.3	63.8	40.2	21.130	407.00	34.10	18.5	120.00	1.80	1473	50.00	88.00

Hot Winding Resistance 0.87 Ohms at ambient temp. 29.9 °C

Hot Resistance ( Ohms )	Amb. Temp. Hot ( °C )	Temp. Rise fÅhš7 Ł
0.720	29.500	5.617

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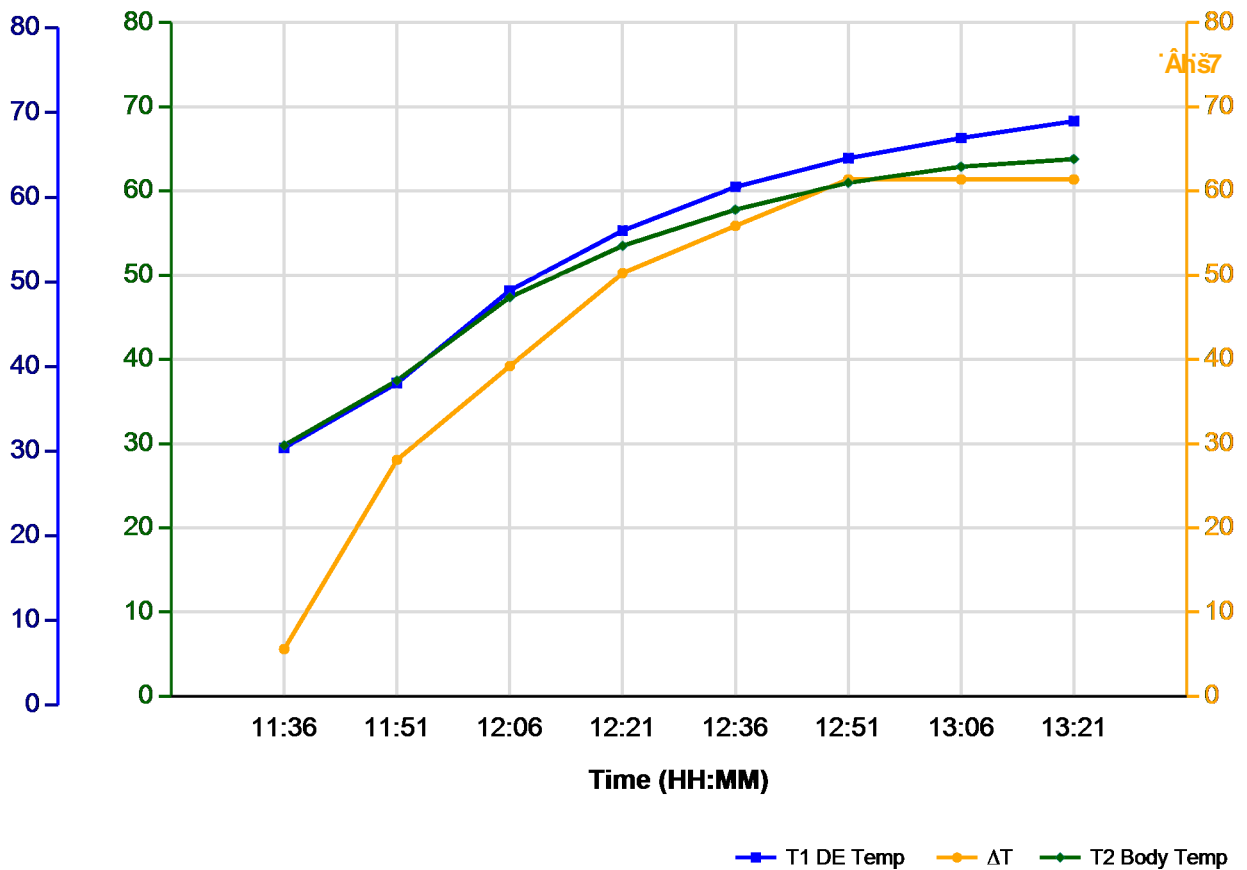
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0.780	29.500	28.085
0.810	29.600	39.219
0.840	29.800	50.253
0.855	29.800	55.870
0.870	29.900	61.387
0.870	29.900	61.387
0.870	29.900	61.387

T1 [°C] T2 [°C]



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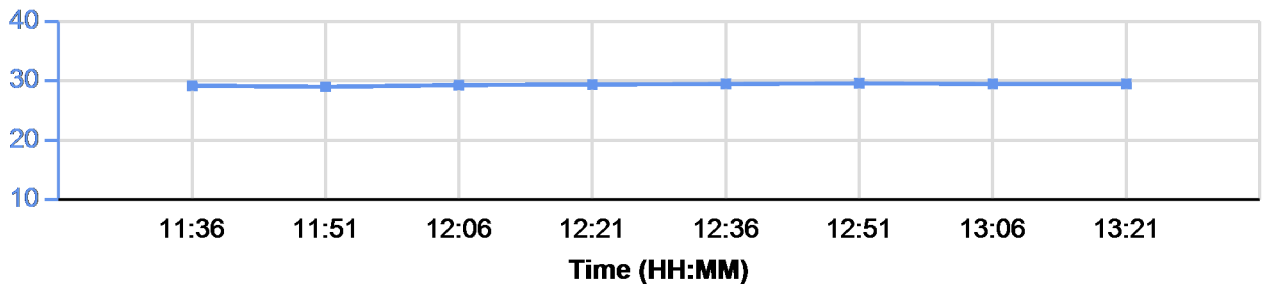
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T2 [°C]



Efficiency Test :-

Load (%)	I/P (kW)	Volts (V)	Current (A)	O/p (kW)	Torque (Nm)	PF	Slip (%)	Speed (RPM)	Efficiency (%)	Freq. (Hz)
150	33.2	385.6	58.60	27.59	185.00	0.85	5.00	1425.0	83.00	50.00
125	26.3	386.9	45.10	23.26	154.00	0.87	3.80	1443.0	89.00	50.00
100	19.7	391.7	33.20	17.35	114.00	0.87	3.10	1454.0	88.00	50.00
75	15.3	393.0	26.10	13.22	86.00	0.86	2.10	1469.0	86.00	50.00
50	10.7	394.5	19.20	9.93	64.00	0.81	1.20	1482.0	93.00	50.00
25	5.9	395.9	13.10	4.68	30.00	0.65	0.60	1491.0	80.00	50.00

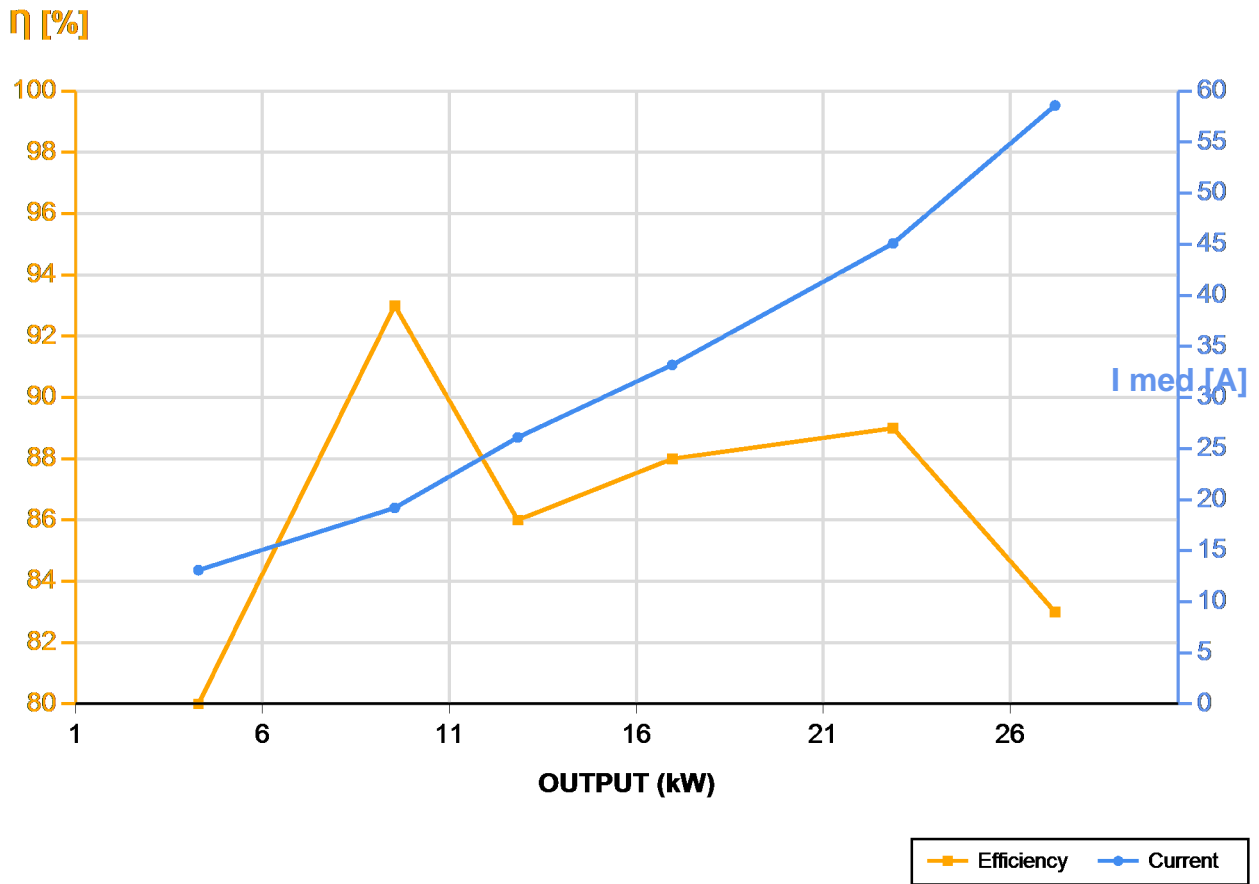
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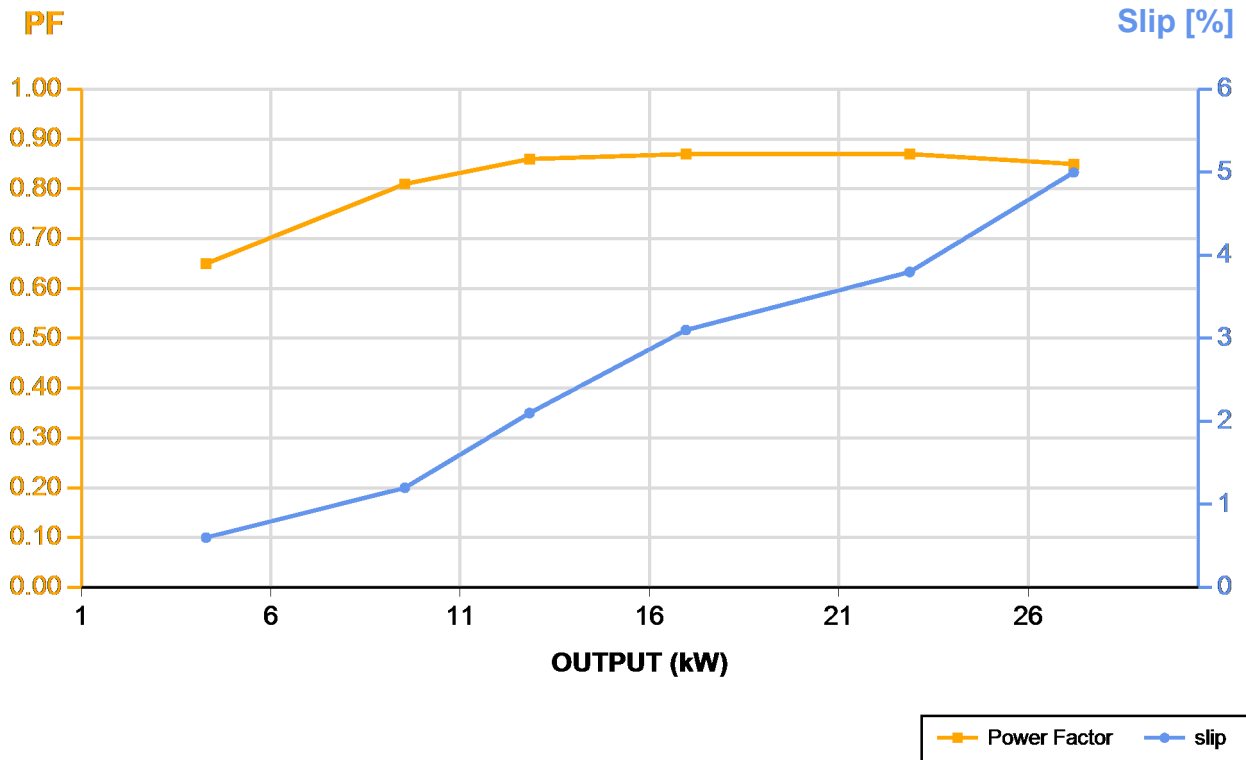
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FOR INDUCTION MOTOR

**Power Factor & Slip Curves**



**Stator Resistance Test (HOT) :-**

K ]bX]b[ ' F Yg]ghU bW'UZyf '9 Z]W]YbWihYgh\$"+, \$'1 "'UhUa V]YbhH'Ya d"r&, "+', 7

Temperature (°C)	Resistance (Ohms)		
	U - Phase	V - Phase	W - Phase
28.7	0.795	0.765	0.780

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

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**Friction & Windage Loss:-**

(%) Volts	Volts (V)	Current (A)	I/P (kW)	Freq. (Hz)	Speed (RPM)
110	451.0	12.60	1.000	49.00	1498.0
100	413.4	10.20	0.800	49.00	1498.0
90	375.7	8.60	0.700	50.00	1499.0
80	329.9	7.30	0.600	50.00	1501.0
70	293.5	6.40	0.600	50.00	1500.0
60	247.7	5.20	0.500	50.00	1499.0
50	206.8	4.30	0.400	50.00	1499.0
40	168.2	3.60	0.400	50.00	1497.0
30	125.5	3.00	0.300	50.00	1495.0
20	84.4	2.70	0.300	50.00	1490.0
10	44.9	4.20	0.300	50.00	1450.0

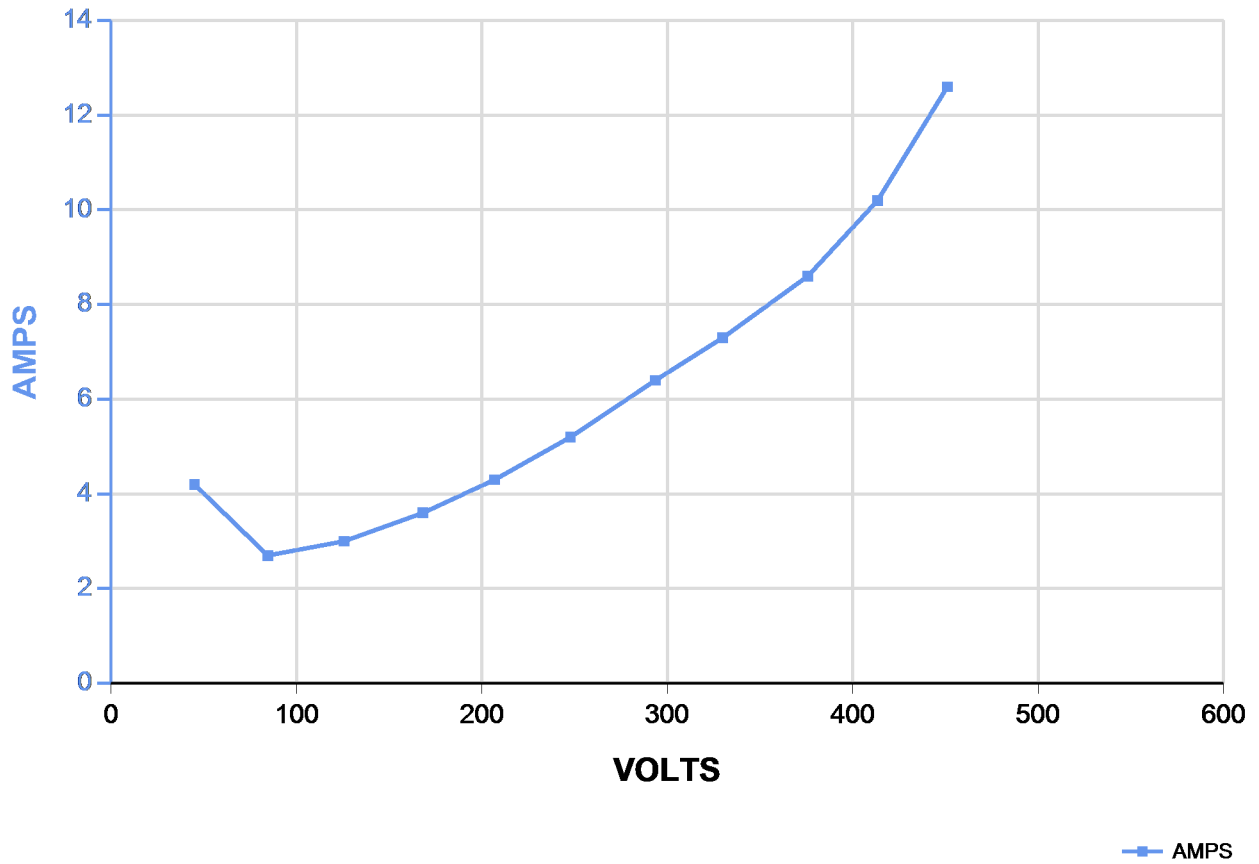
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**Magnetization Curve**



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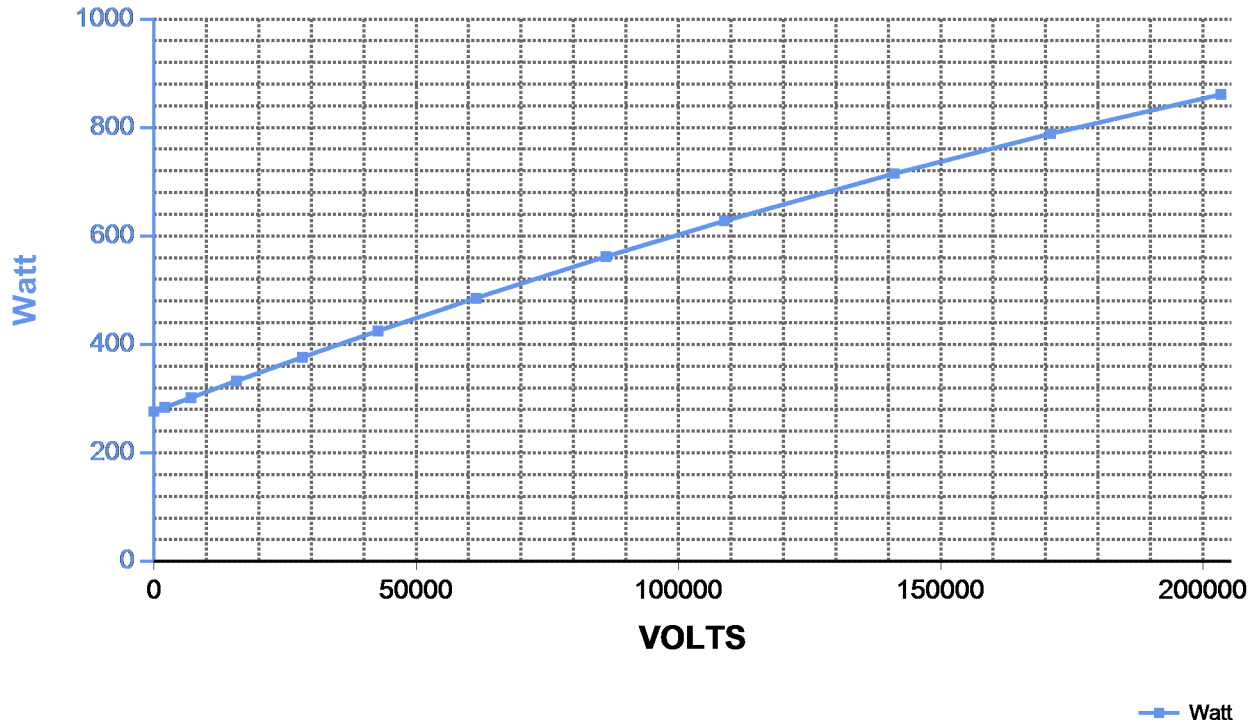
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FOR INDUCTION MOTOR

Date : 25/09/2015

**V<sup>2</sup> Vs Watt Curve**



**Stator Resistance Test (HOT) :-**

Winding Resistance after Friction & Windage test 0.815 Ohms at ambient temp. 28.80 °C

Ambient Temp. (°C)	Resistance (Ohms)			Average
	U - Phase	V - Phase	W - Phase	
28.8	0.795	0.855	0.795	0.815

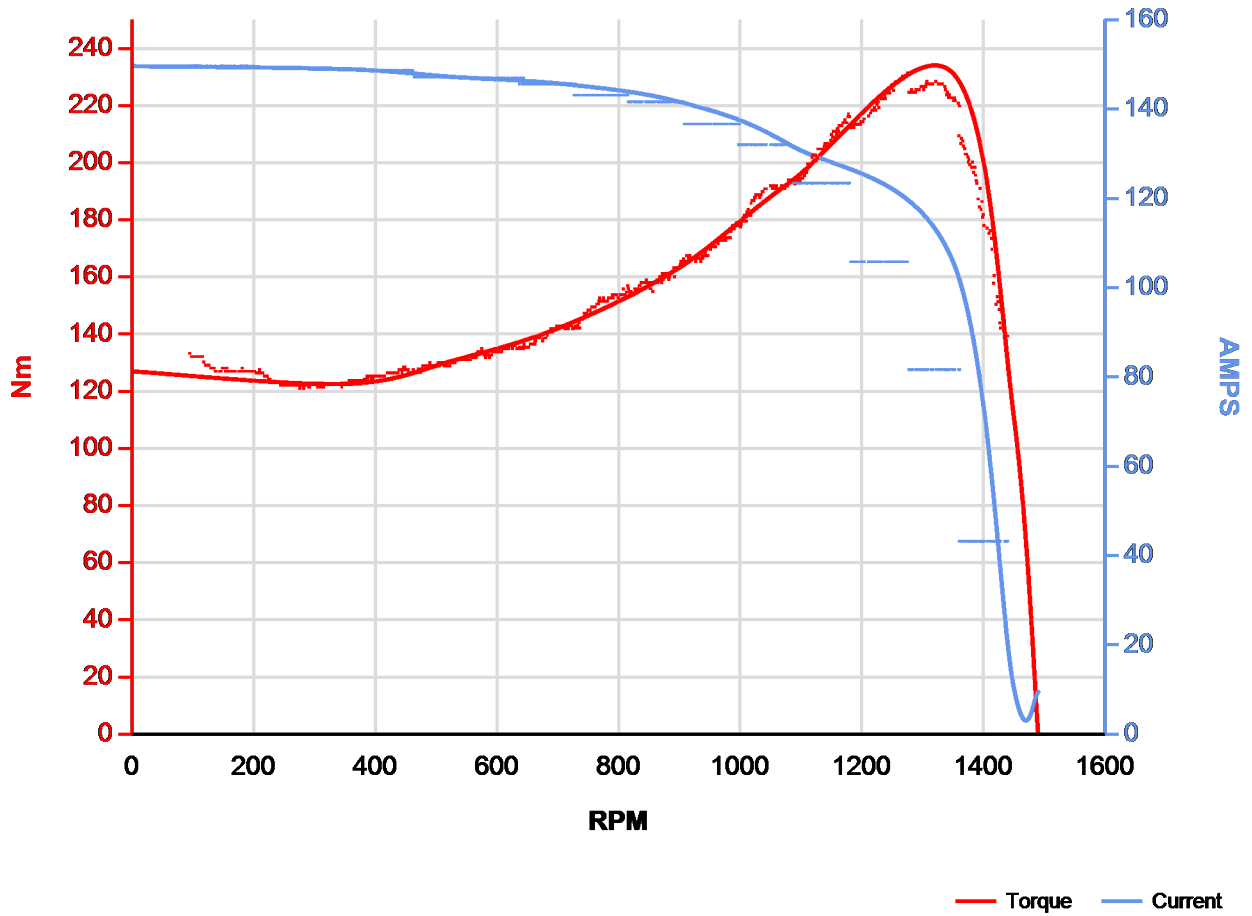
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FOR INDUCTION MOTOR

**TORQUE & CURRENT CURVES**



Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	432.0	45	1440	151	26.9	22.76	43.23	139.35	0.799
50	432.0	45	1437	152	26.9	22.86	43.23	140.27	0.799
50	432.0	45	1428	154	26.9	23.02	43.23	142.12	0.799
50	432.0	45	1427	156	26.9	23.3	43.23	143.96	0.799

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50	432.0	45	1435	157	26.9	23.58	43.23	144.89	0.799
50	432.0	45	1428	159	26.9	23.76	43.23	146.73	0.799
50	432.0	45	1426	161	26.9	24.03	43.23	148.58	0.799
50	432.0	45	1421	163	26.9	24.24	43.23	150.42	0.799
50	432.0	45	1425	164	26.9	24.46	43.23	151.35	0.799
50	432.0	45	1424	164	26.9	24.44	43.23	151.35	0.799
50	432.0	45	1423	166	26.9	24.72	43.23	153.19	0.799
50	432.0	45	1423	168	26.9	25.02	43.23	155.04	0.799
50	432.0	45	1424	169	26.9	25.19	43.23	155.96	0.799
50	432.0	45	1417	171	26.9	25.36	43.23	157.81	0.799
50	432.0	45	1421	172	26.9	25.58	43.23	158.73	0.799
50	432.0	45	1418	174	26.9	25.82	43.23	160.58	0.799
50	432.0	45	1418	178	26.9	26.42	43.23	164.27	0.799
50	432.0	45	1417	180	26.9	26.7	43.23	166.11	0.799
50	432.0	45	1417	182	26.9	26.99	43.23	167.96	0.799
50	432.0	45	1414	184	26.9	27.23	43.23	169.80	0.799
50	432.0	45	1419	186	26.9	27.63	43.23	171.65	0.799
50	432.0	45	1413	188	26.9	27.8	43.23	173.49	0.799
50	432.0	45	1418	189	26.9	28.05	43.23	174.42	0.799
50	432.0	45	1409	190	26.9	28.02	43.23	175.34	0.799
50	432.0	45	1411	191	26.9	28.21	43.23	176.26	0.799
50	432.0	45	1406	192	26.9	28.25	43.23	177.19	0.799
50	432.0	45	1401	193	26.9	28.3	43.23	178.11	0.799
50	432.0	45	1401	195	26.9	28.59	43.23	179.95	0.799
50	432.0	45	1399	196	26.9	28.7	43.23	180.88	0.799
50	432.0	45	1400	197	26.9	28.87	43.23	181.80	0.799

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50	432.0	45	1399	197	26.9	28.85	43.23	181.80	0.799
50	432.0	45	1396	199	26.9	29.08	43.23	183.65	0.799
50	432.0	45	1393	200	26.9	29.16	43.23	184.57	0.799
50	432.0	45	1398	202	26.9	29.56	43.23	186.41	0.799
50	432.0	45	1391	203	26.9	29.56	43.23	187.34	0.799
50	432.0	45	1393	206	26.9	30.03	43.23	190.11	0.799
50	432.0	45	1394	207	26.9	30.2	43.23	191.03	0.799
50	432.0	45	1393	208	26.9	30.33	43.23	191.95	0.799
50	432.0	45	1389	209	26.9	30.38	43.23	192.87	0.799
50	432.0	45	1388	210	26.9	30.51	43.23	193.80	0.799
50	432.0	45	1396	211	26.9	30.83	43.23	194.72	0.799
50	432.0	45	1387	212	26.9	30.78	43.23	195.64	0.799
50	432.0	45	1384	213	26.9	30.85	43.23	196.57	0.799
50	432.0	45	1386	215	26.9	31.19	43.23	198.41	0.799
50	432.0	45	1381	215	26.9	31.08	43.23	198.41	0.799
50	432.0	45	1383	215	26.9	31.12	43.23	198.41	0.799
50	432.0	45	1378	216	26.9	31.15	43.23	199.33	0.799
50	432.0	45	1382	217	26.9	31.39	43.23	200.26	0.799
50	432.0	45	1375	217	26.9	31.23	43.23	200.26	0.799
50	432.0	45	1376	218	26.9	31.4	43.23	201.18	0.799
50	432.0	45	1374	219	26.9	31.49	43.23	202.10	0.799
50	432.0	45	1372	220	26.9	31.59	43.23	203.03	0.799
50	432.0	45	1370	220	26.9	31.55	43.23	203.03	0.799
50	432.0	45	1370	221	26.9	31.69	43.23	203.95	0.799
50	432.0	45	1369	222	26.9	31.81	43.23	204.87	0.799
50	432.0	45	1367	223	26.9	31.91	43.23	205.79	0.799

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50	432.0	45	1363	224	26.9	31.96	43.23	206.72	0.799
50	432.0	45	1366	225	26.9	32.17	43.23	207.64	0.799
50	432.0	45	1370	225	26.9	32.26	43.23	207.64	0.799
50	432.0	45	1364	226	26.9	32.26	43.23	208.56	0.799
50	432.0	45	1360	227	26.9	32.31	43.23	209.49	0.799
50	421.7	83	1361	227	43.3	32.34	81.68	219.84	0.714
50	421.7	83	1361	228	43.3	32.48	81.68	220.81	0.714
50	421.7	83	1359	228	43.3	32.43	81.68	220.81	0.714
50	421.7	83	1353	229	43.3	32.43	81.68	221.78	0.714
50	421.7	83	1353	229	43.3	32.43	81.68	221.78	0.714
50	421.7	83	1351	229	43.3	32.38	81.68	221.78	0.714
50	421.7	83	1349	230	43.3	32.47	81.68	222.75	0.714
50	421.7	83	1352	230	43.3	32.55	81.68	222.75	0.714
50	421.7	83	1343	230	43.3	32.33	81.68	222.75	0.714
50	421.7	83	1346	230	43.3	32.4	81.68	222.75	0.714
50	421.7	83	1342	231	43.3	32.45	81.68	223.72	0.714
50	421.7	83	1344	231	43.3	32.5	81.68	223.72	0.714
50	421.7	83	1340	231	43.3	32.4	81.68	223.72	0.714
50	421.7	83	1341	232	43.3	32.56	81.68	224.69	0.714
50	421.7	83	1340	233	43.3	32.68	81.68	225.65	0.714
50	421.7	83	1338	233	43.3	32.63	81.68	225.65	0.714
50	421.7	83	1338	233	43.3	32.63	81.68	225.65	0.714
50	421.7	83	1336	234	43.3	32.72	81.68	226.62	0.714
50	421.7	83	1337	234	43.3	32.75	81.68	226.62	0.714
50	421.7	83	1332	235	43.3	32.76	81.68	227.59	0.714
50	421.7	83	1329	235	43.3	32.69	81.68	227.59	0.714

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50	421.7	83	1329	234	43.3	32.55	81.68	226.62	0.714
50	421.7	83	1336	235	43.3	32.86	81.68	227.59	0.714
50	421.7	83	1327	235	43.3	32.64	81.68	227.59	0.714
50	421.7	83	1326	235	43.3	32.62	81.68	227.59	0.714
50	421.7	83	1322	236	43.3	32.66	81.68	228.56	0.714
50	421.7	83	1327	234	43.3	32.5	81.68	226.62	0.714
50	421.7	83	1316	235	43.3	32.37	81.68	227.59	0.714
50	421.7	83	1317	235	43.3	32.39	81.68	227.59	0.714
50	421.7	83	1315	235	43.3	32.34	81.68	227.59	0.714
50	421.7	83	1317	234	43.3	32.26	81.68	226.62	0.714
50	421.7	83	1314	235	43.3	32.32	81.68	227.59	0.714
50	421.7	83	1309	235	43.3	32.2	81.68	227.59	0.714
50	421.7	83	1308	235	43.3	32.17	81.68	227.59	0.714
50	421.7	83	1308	235	43.3	32.17	81.68	227.59	0.714
50	421.7	83	1307	236	43.3	32.28	81.68	228.56	0.714
50	421.7	83	1307	235	43.3	32.15	81.68	227.59	0.714
50	421.7	83	1306	235	43.3	32.12	81.68	227.59	0.714
50	421.7	83	1304	234	43.3	31.94	81.68	226.62	0.714
50	421.7	83	1303	234	43.3	31.91	81.68	226.62	0.714
50	421.7	83	1303	233	43.3	31.78	81.68	225.65	0.714
50	421.7	83	1299	234	43.3	31.82	81.68	226.62	0.714
50	421.7	83	1299	234	43.3	31.82	81.68	226.62	0.714
50	421.7	83	1305	234	43.3	31.96	81.68	226.62	0.714
50	421.7	83	1297	234	43.3	31.77	81.68	226.62	0.714
50	421.7	83	1302	233	43.3	31.75	81.68	225.65	0.714
50	421.7	83	1294	233	43.3	31.56	81.68	225.65	0.714

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

This certificate is computer generated hence no signature required.

**ENGINEERING &  
TECHNOLOGY**

## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	421.7	83	1294	233	43.3	31.56	81.68	225.65	0.714
50	421.7	83	1289	233	43.3	31.44	81.68	225.65	0.714
50	421.7	83	1291	233	43.3	31.48	81.68	225.65	0.714
50	421.7	83	1288	232	43.3	31.28	81.68	224.69	0.714
50	421.7	83	1283	232	43.3	31.15	81.68	224.69	0.714
50	421.7	83	1281	232	43.3	31.11	81.68	224.69	0.714
50	421.7	83	1288	233	43.3	31.41	81.68	225.65	0.714
50	421.7	83	1283	232	43.3	31.15	81.68	224.69	0.714
50	421.7	83	1280	232	43.3	31.08	81.68	224.69	0.714
50	421.7	83	1277	232	43.3	31.01	81.68	224.69	0.714
50	421.7	83	1281	233	43.3	31.24	81.68	225.65	0.714
50	421.7	83	1277	233	43.3	31.14	81.68	225.65	0.714
50	421.7	83	1277	233	43.3	31.14	81.68	225.65	0.714
50	421.7	83	1282	233	43.3	31.26	81.68	225.65	0.714
50	415.6	106	1275	232	48.7	30.96	105.85	231.33	0.638
50	415.6	106	1273	231	48.7	30.78	105.85	230.33	0.638
50	415.6	106	1269	231	48.7	30.68	105.85	230.33	0.638
50	415.6	106	1268	230	48.7	30.52	105.85	229.34	0.638
50	415.6	106	1267	231	48.7	30.63	105.85	230.33	0.638
50	415.6	106	1264	230	48.7	30.43	105.85	229.34	0.638
50	415.6	106	1264	230	48.7	30.43	105.85	229.34	0.638
50	415.6	106	1264	229	48.7	30.3	105.85	228.34	0.638
50	415.6	106	1258	229	48.7	30.15	105.85	228.34	0.638
50	415.6	106	1260	229	48.7	30.2	105.85	228.34	0.638
50	415.6	106	1255	229	48.7	30.08	105.85	228.34	0.638
50	415.6	106	1260	228	48.7	30.07	105.85	227.34	0.638

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

This certificate is computer generated hence no signature required.

**ENGINEERING &  
TECHNOLOGY**

## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	415.6	106	1253	228	48.7	29.9	105.85	227.34	0.638
50	415.6	106	1250	228	48.7	29.83	105.85	227.34	0.638
50	415.6	106	1251	228	48.7	29.85	105.85	227.34	0.638
50	415.6	106	1249	227	48.7	29.68	105.85	226.35	0.638
50	415.6	106	1251	227	48.7	29.72	105.85	226.35	0.638
50	415.6	106	1245	226	48.7	29.45	105.85	225.35	0.638
50	415.6	106	1252	226	48.7	29.62	105.85	225.35	0.638
50	415.6	106	1244	226	48.7	29.43	105.85	225.35	0.638
50	415.6	106	1246	225	48.7	29.34	105.85	224.35	0.638
50	415.6	106	1241	225	48.7	29.23	105.85	224.35	0.638
50	415.6	106	1238	224	48.7	29.03	105.85	223.35	0.638
50	415.6	106	1239	223	48.7	28.92	105.85	222.36	0.638
50	415.6	106	1239	223	48.7	28.92	105.85	222.36	0.638
50	415.6	106	1233	223	48.7	28.78	105.85	222.36	0.638
50	415.6	106	1232	223	48.7	28.76	105.85	222.36	0.638
50	415.6	106	1227	222	48.7	28.51	105.85	221.36	0.638
50	415.6	106	1233	222	48.7	28.65	105.85	221.36	0.638
50	415.6	106	1224	222	48.7	28.44	105.85	221.36	0.638
50	415.6	106	1225	221	48.7	28.34	105.85	220.36	0.638
50	415.6	106	1225	221	48.7	28.34	105.85	220.36	0.638
50	415.6	106	1221	220	48.7	28.12	105.85	219.37	0.638
50	415.6	106	1228	220	48.7	28.28	105.85	219.37	0.638
50	415.6	106	1218	219	48.7	27.92	105.85	218.37	0.638
50	415.6	106	1221	219	48.7	27.99	105.85	218.37	0.638
50	415.6	106	1218	219	48.7	27.92	105.85	218.37	0.638
50	415.6	106	1216	219	48.7	27.87	105.85	218.37	0.638

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

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**ENGINEERING &  
TECHNOLOGY**



## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	415.6	106	1223	219	48.7	28.03	105.85	218.37	0.638
50	415.6	106	1218	219	48.7	27.92	105.85	218.37	0.638
50	415.6	106	1214	218	48.7	27.7	105.85	217.37	0.638
50	415.6	106	1214	217	48.7	27.57	105.85	216.37	0.638
50	415.6	106	1211	217	48.7	27.51	105.85	216.37	0.638
50	415.6	106	1214	216	48.7	27.45	105.85	215.38	0.638
50	415.6	106	1204	216	48.7	27.22	105.85	215.38	0.638
50	415.6	106	1211	215	48.7	27.25	105.85	214.38	0.638
50	415.6	106	1200	215	48.7	27	105.85	214.38	0.638
50	415.6	106	1202	215	48.7	27.05	105.85	214.38	0.638
50	415.6	106	1199	215	48.7	26.98	105.85	214.38	0.638
50	415.6	106	1198	214	48.7	26.83	105.85	213.38	0.638
50	415.6	106	1193	214	48.7	26.72	105.85	213.38	0.638
50	415.6	106	1191	214	48.7	26.68	105.85	213.38	0.638
50	415.6	106	1188	214	48.7	26.61	105.85	213.38	0.638
50	415.6	106	1191	214	48.7	26.68	105.85	213.38	0.638
50	415.6	106	1188	213	48.7	26.49	105.85	212.39	0.638
50	415.6	106	1186	213	48.7	26.44	105.85	212.39	0.638
50	415.6	106	1187	213	48.7	26.46	105.85	212.39	0.638
50	415.6	106	1183	213	48.7	26.37	105.85	212.39	0.638
50	415.6	106	1185	213	48.7	26.42	105.85	212.39	0.638
50	415.6	106	1182	213	48.7	26.35	105.85	212.39	0.638
50	415.6	106	1183	212	48.7	26.25	105.85	211.39	0.638
50	410.1	122	1178	212	49.2	26.14	123.46	217.10	0.568
50	410.1	122	1180	211	49.2	26.06	123.46	216.07	0.568
50	410.1	122	1177	211	49.2	25.99	123.46	216.07	0.568

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

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**ENGINEERING &  
TECHNOLOGY**

## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	410.1	122	1172	210	49.2	25.76	123.46	215.05	0.568
50	410.1	122	1169	209	49.2	25.57	123.46	214.02	0.568
50	410.1	122	1175	209	49.2	25.7	123.46	214.02	0.568
50	410.1	122	1170	209	49.2	25.59	123.46	214.02	0.568
50	410.1	122	1167	208	49.2	25.41	123.46	213.00	0.568
50	410.1	122	1163	208	49.2	25.32	123.46	213.00	0.568
50	410.1	122	1163	207	49.2	25.2	123.46	211.98	0.568
50	410.1	122	1160	207	49.2	25.13	123.46	211.98	0.568
50	410.1	122	1162	206	49.2	25.05	123.46	210.95	0.568
50	410.1	122	1161	207	49.2	25.15	123.46	211.98	0.568
50	410.1	122	1153	206	49.2	24.86	123.46	210.95	0.568
50	410.1	122	1156	206	49.2	24.92	123.46	210.95	0.568
50	410.1	122	1153	205	49.2	24.74	123.46	209.93	0.568
50	410.1	122	1159	205	49.2	24.87	123.46	209.93	0.568
50	410.1	122	1150	205	49.2	24.68	123.46	209.93	0.568
50	410.1	122	1152	204	49.2	24.6	123.46	208.90	0.568
50	410.1	122	1154	204	49.2	24.64	123.46	208.90	0.568
50	410.1	122	1149	203	49.2	24.41	123.46	207.88	0.568
50	410.1	122	1149	203	49.2	24.41	123.46	207.88	0.568
50	410.1	122	1144	202	49.2	24.19	123.46	206.86	0.568
50	410.1	122	1139	202	49.2	24.08	123.46	206.86	0.568
50	410.1	122	1141	201	49.2	24	123.46	205.83	0.568
50	410.1	122	1138	201	49.2	23.94	123.46	205.83	0.568
50	410.1	122	1134	200	49.2	23.74	123.46	204.81	0.568
50	410.1	122	1135	200	49.2	23.76	123.46	204.81	0.568
50	410.1	122	1131	200	49.2	23.68	123.46	204.81	0.568

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

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**ENGINEERING &  
TECHNOLOGY**

## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	410.1	122	1128	200	49.2	23.61	123.46	204.81	0.568
50	410.1	122	1131	199	49.2	23.56	123.46	203.78	0.568
50	410.1	122	1128	199	49.2	23.49	123.46	203.78	0.568
50	410.1	122	1124	198	49.2	23.29	123.46	202.76	0.568
50	410.1	122	1131	198	49.2	23.44	123.46	202.76	0.568
50	410.1	122	1120	198	49.2	23.21	123.46	202.76	0.568
50	410.1	122	1128	197	49.2	23.26	123.46	201.74	0.568
50	410.1	122	1120	197	49.2	23.09	123.46	201.74	0.568
50	410.1	122	1127	197	49.2	23.24	123.46	201.74	0.568
50	410.1	122	1118	197	49.2	23.05	123.46	201.74	0.568
50	410.1	122	1125	196	49.2	23.08	123.46	200.71	0.568
50	410.1	122	1118	196	49.2	22.94	123.46	200.71	0.568
50	410.1	122	1116	195	49.2	22.78	123.46	199.69	0.568
50	410.1	122	1111	195	49.2	22.68	123.46	199.69	0.568
50	410.1	122	1114	194	49.2	22.62	123.46	198.66	0.568
50	410.1	122	1114	194	49.2	22.62	123.46	198.66	0.568
50	410.1	122	1110	193	49.2	22.42	123.46	197.64	0.568
50	410.1	122	1111	193	49.2	22.44	123.46	197.64	0.568
50	410.1	122	1111	192	49.2	22.33	123.46	196.62	0.568
50	410.1	122	1108	192	49.2	22.27	123.46	196.62	0.568
50	410.1	122	1102	192	49.2	22.15	123.46	196.62	0.568
50	410.1	122	1109	192	49.2	22.29	123.46	196.62	0.568
50	410.1	122	1106	191	49.2	22.11	123.46	195.59	0.568
50	410.1	122	1097	190	49.2	21.82	123.46	194.57	0.568
50	410.1	122	1103	190	49.2	21.93	123.46	194.57	0.568
50	410.1	122	1095	190	49.2	21.78	123.46	194.57	0.568

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

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**ENGINEERING &  
TECHNOLOGY**

## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	410.1	122	1096	189	49.2	21.68	123.46	193.54	0.568
50	410.1	122	1092	189	49.2	21.6	123.46	193.54	0.568
50	410.1	122	1099	189	49.2	21.74	123.46	193.54	0.568
50	410.1	122	1090	188	49.2	21.45	123.46	192.52	0.568
50	410.1	122	1093	189	49.2	21.62	123.46	193.54	0.568
50	410.1	122	1087	189	49.2	21.5	123.46	193.54	0.568
50	408.5	130	1083	188	48.5	21.31	132.07	194.03	0.527
50	408.5	130	1081	188	48.5	21.27	132.07	194.03	0.527
50	408.5	130	1079	188	48.5	21.23	132.07	194.03	0.527
50	408.5	130	1081	187	48.5	21.16	132.07	193.00	0.527
50	408.5	130	1081	187	48.5	21.16	132.07	193.00	0.527
50	408.5	130	1077	186	48.5	20.97	132.07	191.97	0.527
50	408.5	130	1077	186	48.5	20.97	132.07	191.97	0.527
50	408.5	130	1071	185	48.5	20.74	132.07	190.93	0.527
50	408.5	130	1073	185	48.5	20.78	132.07	190.93	0.527
50	408.5	130	1071	185	48.5	20.74	132.07	190.93	0.527
50	408.5	130	1069	185	48.5	20.7	132.07	190.93	0.527
50	408.5	130	1067	185	48.5	20.66	132.07	190.93	0.527
50	408.5	130	1068	186	48.5	20.79	132.07	191.97	0.527
50	408.5	130	1066	185	48.5	20.64	132.07	190.93	0.527
50	408.5	130	1063	185	48.5	20.58	132.07	190.93	0.527
50	408.5	130	1063	185	48.5	20.58	132.07	190.93	0.527
50	408.5	130	1061	185	48.5	20.54	132.07	190.93	0.527
50	408.5	130	1057	185	48.5	20.47	132.07	190.93	0.527
50	408.5	130	1060	186	48.5	20.64	132.07	191.97	0.527
50	408.5	130	1058	186	48.5	20.6	132.07	191.97	0.527

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

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**ENGINEERING &  
TECHNOLOGY**

## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	408.5	130	1056	186	48.5	20.56	132.07	191.97	0.527
50	408.5	130	1058	186	48.5	20.6	132.07	191.97	0.527
50	408.5	130	1056	186	48.5	20.56	132.07	191.97	0.527
50	408.5	130	1055	186	48.5	20.54	132.07	191.97	0.527
50	408.5	130	1050	186	48.5	20.44	132.07	191.97	0.527
50	408.5	130	1057	185	48.5	20.47	132.07	190.93	0.527
50	408.5	130	1053	185	48.5	20.39	132.07	190.93	0.527
50	408.5	130	1043	185	48.5	20.2	132.07	190.93	0.527
50	408.5	130	1041	185	48.5	20.16	132.07	190.93	0.527
50	408.5	130	1036	184	48.5	19.95	132.07	189.90	0.527
50	408.5	130	1037	184	48.5	19.97	132.07	189.90	0.527
50	408.5	130	1037	183	48.5	19.86	132.07	188.87	0.527
50	408.5	130	1034	183	48.5	19.81	132.07	188.87	0.527
50	408.5	130	1032	182	48.5	19.66	132.07	187.84	0.527
50	408.5	130	1033	183	48.5	19.79	132.07	188.87	0.527
50	408.5	130	1030	183	48.5	19.73	132.07	188.87	0.527
50	408.5	130	1027	183	48.5	19.67	132.07	188.87	0.527
50	408.5	130	1026	183	48.5	19.65	132.07	188.87	0.527
50	408.5	130	1029	183	48.5	19.71	132.07	188.87	0.527
50	408.5	130	1027	183	48.5	19.67	132.07	188.87	0.527
50	408.5	130	1027	183	48.5	19.67	132.07	188.87	0.527
50	408.5	130	1024	182	48.5	19.51	132.07	187.84	0.527
50	408.5	130	1025	182	48.5	19.53	132.07	187.84	0.527
50	408.5	130	1023	181	48.5	19.38	132.07	186.81	0.527
50	408.5	130	1019	181	48.5	19.3	132.07	186.81	0.527
50	408.5	130	1018	180	48.5	19.18	132.07	185.77	0.527

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

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**ENGINEERING &  
TECHNOLOGY**

## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	408.5	130	1019	179	48.5	19.09	132.07	184.74	0.527
50	408.5	130	1013	178	48.5	18.87	132.07	183.71	0.527
50	408.5	130	1011	177	48.5	18.73	132.07	182.68	0.527
50	408.5	130	1017	176	48.5	18.73	132.07	181.65	0.527
50	408.5	130	1007	176	48.5	18.55	132.07	181.65	0.527
50	408.5	130	1005	175	48.5	18.41	132.07	180.61	0.527
50	408.5	130	1008	174	48.5	18.36	132.07	179.58	0.527
50	408.5	130	1010	174	48.5	18.39	132.07	179.58	0.527
50	408.5	130	1000	174	48.5	18.21	132.07	179.58	0.527
50	408.5	130	1004	174	48.5	18.28	132.07	179.58	0.527
50	408.5	130	998	173	48.5	18.07	132.07	178.55	0.527
50	408.5	130	1002	173	48.5	18.14	132.07	178.55	0.527
50	408.5	130	997	173	48.5	18.05	132.07	178.55	0.527
50	408.5	130	998	173	48.5	18.07	132.07	178.55	0.527
50	408.5	130	1001	172	48.5	18.02	132.07	177.52	0.527
50	406.8	134	994	172	47.6	17.89	136.7	179.00	0.504
50	406.8	134	999	172	47.6	17.98	136.7	179.00	0.504
50	406.8	134	995	171	47.6	17.81	136.7	177.96	0.504
50	406.8	134	989	171	47.6	17.7	136.7	177.96	0.504
50	406.8	134	988	171	47.6	17.68	136.7	177.96	0.504
50	406.8	134	989	171	47.6	17.7	136.7	177.96	0.504
50	406.8	134	990	170	47.6	17.62	136.7	176.92	0.504
50	406.8	134	988	170	47.6	17.58	136.7	176.92	0.504
50	406.8	134	985	169	47.6	17.42	136.7	175.88	0.504
50	406.8	134	985	168	47.6	17.32	136.7	174.84	0.504
50	406.8	134	984	167	47.6	17.2	136.7	173.80	0.504

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

This certificate is computer generated hence no signature required.

**ENGINEERING &  
TECHNOLOGY**

## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	406.8	134	979	167	47.6	17.11	136.7	173.80	0.504
50	406.8	134	977	167	47.6	17.08	136.7	173.80	0.504
50	406.8	134	976	166	47.6	16.96	136.7	172.76	0.504
50	406.8	134	977	166	47.6	16.98	136.7	172.76	0.504
50	406.8	134	973	167	47.6	17.01	136.7	173.80	0.504
50	406.8	134	973	166	47.6	16.91	136.7	172.76	0.504
50	406.8	134	972	166	47.6	16.89	136.7	172.76	0.504
50	406.8	134	969	166	47.6	16.84	136.7	172.76	0.504
50	406.8	134	967	166	47.6	16.8	136.7	172.76	0.504
50	406.8	134	967	166	47.6	16.8	136.7	172.76	0.504
50	406.8	134	965	166	47.6	16.77	136.7	172.76	0.504
50	406.8	134	964	165	47.6	16.65	136.7	171.72	0.504
50	406.8	134	960	164	47.6	16.48	136.7	170.68	0.504
50	406.8	134	959	164	47.6	16.46	136.7	170.68	0.504
50	406.8	134	957	164	47.6	16.43	136.7	170.68	0.504
50	406.8	134	959	164	47.6	16.46	136.7	170.68	0.504
50	406.8	134	957	164	47.6	16.43	136.7	170.68	0.504
50	406.8	134	952	164	47.6	16.34	136.7	170.68	0.504
50	406.8	134	950	164	47.6	16.31	136.7	170.68	0.504
50	406.8	134	951	163	47.6	16.22	136.7	169.64	0.504
50	406.8	134	945	163	47.6	16.12	136.7	169.64	0.504
50	406.8	134	952	163	47.6	16.24	136.7	169.64	0.504
50	406.8	134	943	162	47.6	15.99	136.7	168.60	0.504
50	406.8	134	941	161	47.6	15.86	136.7	167.56	0.504
50	406.8	134	947	161	47.6	15.96	136.7	167.56	0.504
50	406.8	134	942	161	47.6	15.87	136.7	167.56	0.504

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

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**ENGINEERING &  
TECHNOLOGY**

## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	406.8	134	940	161	47.6	15.84	136.7	167.56	0.504
50	406.8	134	941	161	47.6	15.86	136.7	167.56	0.504
50	406.8	134	937	161	47.6	15.79	136.7	167.56	0.504
50	406.8	134	938	160	47.6	15.71	136.7	166.52	0.504
50	406.8	134	934	160	47.6	15.64	136.7	166.52	0.504
50	406.8	134	935	159	47.6	15.56	136.7	165.47	0.504
50	406.8	134	934	160	47.6	15.64	136.7	166.52	0.504
50	406.8	134	931	160	47.6	15.59	136.7	166.52	0.504
50	406.8	134	930	160	47.6	15.57	136.7	166.52	0.504
50	406.8	134	927	159	47.6	15.43	136.7	165.47	0.504
50	406.8	134	925	160	47.6	15.49	136.7	166.52	0.504
50	406.8	134	933	160	47.6	15.62	136.7	166.52	0.504
50	406.8	134	923	160	47.6	15.46	136.7	166.52	0.504
50	406.8	134	920	160	47.6	15.41	136.7	166.52	0.504
50	406.8	134	918	160	47.6	15.37	136.7	166.52	0.504
50	406.8	134	921	160	47.6	15.42	136.7	166.52	0.504
50	406.8	134	917	161	47.6	15.45	136.7	167.56	0.504
50	406.8	134	915	160	47.6	15.32	136.7	166.52	0.504
50	406.8	134	917	161	47.6	15.45	136.7	167.56	0.504
50	406.8	134	912	161	47.6	15.37	136.7	167.56	0.504
50	406.8	134	909	159	47.6	15.13	136.7	165.47	0.504
50	406.8	134	911	159	47.6	15.16	136.7	165.47	0.504
50	406.8	134	908	159	47.6	15.11	136.7	165.47	0.504
50	406.8	134	908	159	47.6	15.11	136.7	165.47	0.504
50	404.3	138	908	159	46.3	15.11	141.65	167.53	0.479
50	404.3	138	907	158	46.3	15	141.65	166.47	0.479

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

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**ENGINEERING &  
TECHNOLOGY**



## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	404.3	138	903	157	46.3	14.84	141.65	165.42	0.479
50	404.3	138	902	156	46.3	14.73	141.65	164.37	0.479
50	404.3	138	904	156	46.3	14.76	141.65	164.37	0.479
50	404.3	138	898	155	46.3	14.57	141.65	163.31	0.479
50	404.3	138	900	155	46.3	14.6	141.65	163.31	0.479
50	404.3	138	896	155	46.3	14.54	141.65	163.31	0.479
50	404.3	138	895	155	46.3	14.52	141.65	163.31	0.479
50	404.3	138	891	155	46.3	14.45	141.65	163.31	0.479
50	404.3	138	891	153	46.3	14.27	141.65	161.21	0.479
50	404.3	138	892	152	46.3	14.19	141.65	160.15	0.479
50	404.3	138	883	151	46.3	13.96	141.65	159.10	0.479
50	404.3	138	881	152	46.3	14.02	141.65	160.15	0.479
50	404.3	138	884	152	46.3	14.06	141.65	160.15	0.479
50	404.3	138	886	153	46.3	14.19	141.65	161.21	0.479
50	404.3	138	879	153	46.3	14.08	141.65	161.21	0.479
50	404.3	138	877	153	46.3	14.04	141.65	161.21	0.479
50	404.3	138	879	153	46.3	14.08	141.65	161.21	0.479
50	404.3	138	874	152	46.3	13.9	141.65	160.15	0.479
50	404.3	138	873	151	46.3	13.8	141.65	159.10	0.479
50	404.3	138	871	150	46.3	13.67	141.65	158.04	0.479
50	404.3	138	871	151	46.3	13.77	141.65	159.10	0.479
50	404.3	138	870	152	46.3	13.84	141.65	160.15	0.479
50	404.3	138	872	153	46.3	13.96	141.65	161.21	0.479
50	404.3	138	868	152	46.3	13.81	141.65	160.15	0.479
50	404.3	138	875	152	46.3	13.92	141.65	160.15	0.479
50	404.3	138	866	151	46.3	13.69	141.65	159.10	0.479

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

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**ENGINEERING &  
TECHNOLOGY**

## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	404.3	138	864	151	46.3	13.66	141.65	159.10	0.479
50	404.3	138	864	150	46.3	13.56	141.65	158.04	0.479
50	404.3	138	865	150	46.3	13.58	141.65	158.04	0.479
50	404.3	138	865	150	46.3	13.58	141.65	158.04	0.479
50	404.3	138	858	150	46.3	13.47	141.65	158.04	0.479
50	404.3	138	860	150	46.3	13.5	141.65	158.04	0.479
50	404.3	138	854	150	46.3	13.41	141.65	158.04	0.479
50	404.3	138	853	148	46.3	13.21	141.65	155.94	0.479
50	404.3	138	856	147	46.3	13.17	141.65	154.88	0.479
50	404.3	138	852	148	46.3	13.2	141.65	155.94	0.479
50	404.3	138	852	149	46.3	13.29	141.65	156.99	0.479
50	404.3	138	847	150	46.3	13.3	141.65	158.04	0.479
50	404.3	138	849	150	46.3	13.33	141.65	158.04	0.479
50	404.3	138	844	150	46.3	13.25	141.65	158.04	0.479
50	404.3	138	846	151	46.3	13.37	141.65	159.10	0.479
50	404.3	138	839	150	46.3	13.17	141.65	158.04	0.479
50	404.3	138	847	150	46.3	13.3	141.65	158.04	0.479
50	404.3	138	839	151	46.3	13.26	141.65	159.10	0.479
50	404.3	138	837	150	46.3	13.14	141.65	158.04	0.479
50	404.3	138	834	149	46.3	13.01	141.65	156.99	0.479
50	404.3	138	835	149	46.3	13.02	141.65	156.99	0.479
50	404.3	138	835	149	46.3	13.02	141.65	156.99	0.479
50	404.3	138	831	148	46.3	12.87	141.65	155.94	0.479
50	404.3	138	828	147	46.3	12.74	141.65	154.88	0.479
50	404.3	138	834	147	46.3	12.83	141.65	154.88	0.479
50	404.3	138	827	148	46.3	12.81	141.65	155.94	0.479

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

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**ENGINEERING &  
TECHNOLOGY**

## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	404.3	138	827	148	46.3	12.81	141.65	155.94	0.479
50	404.3	138	821	147	46.3	12.63	141.65	154.88	0.479
50	404.3	138	825	146	46.3	12.61	141.65	153.83	0.479
50	404.3	138	819	146	46.3	12.52	141.65	153.83	0.479
50	404.3	138	818	147	46.3	12.59	141.65	154.88	0.479
50	404.3	138	816	148	46.3	12.64	141.65	155.94	0.479
50	403.0	139	815	148	45.8	12.62	143.14	156.95	0.472
50	403.0	139	821	147	45.8	12.63	143.14	155.88	0.472
50	403.0	139	813	146	45.8	12.42	143.14	154.82	0.472
50	403.0	139	811	145	45.8	12.31	143.14	153.76	0.472
50	403.0	139	811	146	45.8	12.39	143.14	154.82	0.472
50	403.0	139	818	146	45.8	12.5	143.14	154.82	0.472
50	403.0	139	811	146	45.8	12.39	143.14	154.82	0.472
50	403.0	139	808	147	45.8	12.43	143.14	155.88	0.472
50	403.0	139	808	146	45.8	12.35	143.14	154.82	0.472
50	403.0	139	811	146	45.8	12.39	143.14	154.82	0.472
50	403.0	139	805	145	45.8	12.22	143.14	153.76	0.472
50	403.0	139	806	145	45.8	12.23	143.14	153.76	0.472
50	403.0	139	799	144	45.8	12.04	143.14	152.70	0.472
50	403.0	139	799	144	45.8	12.04	143.14	152.70	0.472
50	403.0	139	802	145	45.8	12.17	143.14	153.76	0.472
50	403.0	139	794	145	45.8	12.05	143.14	153.76	0.472
50	403.0	139	796	145	45.8	12.08	143.14	153.76	0.472
50	403.0	139	791	144	45.8	11.92	143.14	152.70	0.472
50	403.0	139	790	145	45.8	11.99	143.14	153.76	0.472
50	403.0	139	794	144	45.8	11.97	143.14	152.70	0.472

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

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**ENGINEERING &  
TECHNOLOGY**

## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	403.0	139	789	144	45.8	11.89	143.14	152.70	0.472
50	403.0	139	787	144	45.8	11.86	143.14	152.70	0.472
50	403.0	139	786	144	45.8	11.85	143.14	152.70	0.472
50	403.0	139	786	144	45.8	11.85	143.14	152.70	0.472
50	403.0	139	786	144	45.8	11.85	143.14	152.70	0.472
50	403.0	139	782	143	45.8	11.7	143.14	151.64	0.472
50	403.0	139	777	143	45.8	11.63	143.14	151.64	0.472
50	403.0	139	784	144	45.8	11.82	143.14	152.70	0.472
50	403.0	139	775	144	45.8	11.68	143.14	152.70	0.472
50	403.0	139	777	144	45.8	11.71	143.14	152.70	0.472
50	403.0	139	769	144	45.8	11.59	143.14	152.70	0.472
50	403.0	139	773	143	45.8	11.57	143.14	151.64	0.472
50	403.0	139	768	143	45.8	11.49	143.14	151.64	0.472
50	403.0	139	767	142	45.8	11.4	143.14	150.58	0.472
50	403.0	139	768	143	45.8	11.49	143.14	151.64	0.472
50	403.0	139	765	142	45.8	11.37	143.14	150.58	0.472
50	403.0	139	765	142	45.8	11.37	143.14	150.58	0.472
50	403.0	139	760	141	45.8	11.22	143.14	149.52	0.472
50	403.0	139	762	141	45.8	11.25	143.14	149.52	0.472
50	403.0	139	756	141	45.8	11.16	143.14	149.52	0.472
50	403.0	139	762	141	45.8	11.25	143.14	149.52	0.472
50	403.0	139	753	140	45.8	11.03	143.14	148.46	0.472
50	403.0	139	760	140	45.8	11.14	143.14	148.46	0.472
50	403.0	139	752	140	45.8	11.02	143.14	148.46	0.472
50	403.0	139	755	139	45.8	10.98	143.14	147.40	0.472
50	403.0	139	752	139	45.8	10.94	143.14	147.40	0.472

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

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**ENGINEERING &  
TECHNOLOGY**

## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	403.0	139	750	140	45.8	10.99	143.14	148.46	0.472
50	403.0	139	748	139	45.8	10.88	143.14	147.40	0.472
50	403.0	139	752	139	45.8	10.94	143.14	147.40	0.472
50	403.0	139	745	138	45.8	10.76	143.14	146.34	0.472
50	403.0	139	743	139	45.8	10.81	143.14	147.40	0.472
50	403.0	139	748	138	45.8	10.8	143.14	146.34	0.472
50	403.0	139	741	137	45.8	10.63	143.14	145.28	0.472
50	403.0	139	741	136	45.8	10.55	143.14	144.22	0.472
50	403.0	139	735	136	45.8	10.46	143.14	144.22	0.472
50	403.0	139	733	135	45.8	10.36	143.14	143.16	0.472
50	403.0	139	736	134	45.8	10.32	143.14	142.10	0.472
50	403.0	139	730	134	45.8	10.24	143.14	142.10	0.472
50	403.0	139	734	134	45.8	10.29	143.14	142.10	0.472
50	403.0	139	734	133	45.8	10.22	143.14	141.04	0.472
50	403.0	139	727	134	45.8	10.2	143.14	142.10	0.472
50	401.8	141	730	135	45.2	10.31	145.63	144.02	0.461
50	401.8	141	723	134	45.2	10.14	145.63	142.95	0.461
50	401.8	141	729	134	45.2	10.22	145.63	142.95	0.461
50	401.8	141	720	134	45.2	10.1	145.63	142.95	0.461
50	401.8	141	727	134	45.2	10.2	145.63	142.95	0.461
50	401.8	141	718	134	45.2	10.07	145.63	142.95	0.461
50	401.8	141	725	133	45.2	10.09	145.63	141.88	0.461
50	401.8	141	715	133	45.2	9.95	145.63	141.88	0.461
50	401.8	141	717	133	45.2	9.98	145.63	141.88	0.461
50	401.8	141	712	133	45.2	9.91	145.63	141.88	0.461
50	401.8	141	711	134	45.2	9.97	145.63	142.95	0.461

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

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**ENGINEERING &  
TECHNOLOGY**

## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	401.8	141	709	134	45.2	9.94	145.63	142.95	0.461
50	401.8	141	708	134	45.2	9.93	145.63	142.95	0.461
50	401.8	141	703	134	45.2	9.86	145.63	142.95	0.461
50	401.8	141	702	134	45.2	9.85	145.63	142.95	0.461
50	401.8	141	703	134	45.2	9.86	145.63	142.95	0.461
50	401.8	141	702	133	45.2	9.77	145.63	141.88	0.461
50	401.8	141	698	134	45.2	9.79	145.63	142.95	0.461
50	401.8	141	700	133	45.2	9.74	145.63	141.88	0.461
50	401.8	141	700	133	45.2	9.74	145.63	141.88	0.461
50	401.8	141	693	133	45.2	9.65	145.63	141.88	0.461
50	401.8	141	691	132	45.2	9.55	145.63	140.82	0.461
50	401.8	141	690	132	45.2	9.53	145.63	140.82	0.461
50	401.8	141	690	132	45.2	9.53	145.63	140.82	0.461
50	401.8	141	689	133	45.2	9.59	145.63	141.88	0.461
50	401.8	141	688	132	45.2	9.51	145.63	140.82	0.461
50	401.8	141	691	132	45.2	9.55	145.63	140.82	0.461
50	401.8	141	691	132	45.2	9.55	145.63	140.82	0.461
50	401.8	141	687	132	45.2	9.49	145.63	140.82	0.461
50	401.8	141	689	131	45.2	9.45	145.63	139.75	0.461
50	401.8	141	689	131	45.2	9.45	145.63	139.75	0.461
50	401.8	141	683	131	45.2	9.36	145.63	139.75	0.461
50	401.8	141	680	130	45.2	9.25	145.63	138.68	0.461
50	401.8	141	678	130	45.2	9.23	145.63	138.68	0.461
50	401.8	141	677	130	45.2	9.21	145.63	138.68	0.461
50	401.8	141	678	129	45.2	9.15	145.63	137.62	0.461
50	401.8	141	675	129	45.2	9.11	145.63	137.62	0.461

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

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**ENGINEERING &  
TECHNOLOGY**

## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	401.8	141	677	129	45.2	9.14	145.63	137.62	0.461
50	401.8	141	675	129	45.2	9.11	145.63	137.62	0.461
50	401.8	141	670	130	45.2	9.12	145.63	138.68	0.461
50	401.8	141	671	130	45.2	9.13	145.63	138.68	0.461
50	401.8	141	669	130	45.2	9.1	145.63	138.68	0.461
50	401.8	141	668	130	45.2	9.09	145.63	138.68	0.461
50	401.8	141	667	130	45.2	9.08	145.63	138.68	0.461
50	401.8	141	665	130	45.2	9.05	145.63	138.68	0.461
50	401.8	141	664	129	45.2	8.97	145.63	137.62	0.461
50	401.8	141	662	129	45.2	8.94	145.63	137.62	0.461
50	401.8	141	663	128	45.2	8.88	145.63	136.55	0.461
50	401.8	141	658	128	45.2	8.82	145.63	136.55	0.461
50	401.8	141	656	128	45.2	8.79	145.63	136.55	0.461
50	401.8	141	655	128	45.2	8.78	145.63	136.55	0.461
50	401.8	141	652	127	45.2	8.67	145.63	135.48	0.461
50	401.8	141	655	127	45.2	8.71	145.63	135.48	0.461
50	401.8	141	649	127	45.2	8.63	145.63	135.48	0.461
50	401.8	141	650	127	45.2	8.64	145.63	135.48	0.461
50	401.8	141	646	127	45.2	8.59	145.63	135.48	0.461
50	401.8	141	645	128	45.2	8.64	145.63	136.55	0.461
50	401.8	141	645	127	45.2	8.57	145.63	135.48	0.461
50	401.8	141	642	127	45.2	8.53	145.63	135.48	0.461
50	401.8	141	642	127	45.2	8.53	145.63	135.48	0.461
50	401.8	141	637	127	45.2	8.47	145.63	135.48	0.461
50	401.0	142	644	126	45	8.49	146.96	134.95	0.456
50	401.0	142	635	126	45	8.37	146.96	134.95	0.456

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

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**ENGINEERING &  
TECHNOLOGY**

## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	401.0	142	641	126	45	8.45	146.96	134.95	0.456
50	401.0	142	633	126	45	8.35	146.96	134.95	0.456
50	401.0	142	639	126	45	8.43	146.96	134.95	0.456
50	401.0	142	633	126	45	8.35	146.96	134.95	0.456
50	401.0	142	633	126	45	8.35	146.96	134.95	0.456
50	401.0	142	628	127	45	8.35	146.96	136.02	0.456
50	401.0	142	627	127	45	8.33	146.96	136.02	0.456
50	401.0	142	627	127	45	8.33	146.96	136.02	0.456
50	401.0	142	630	127	45	8.37	146.96	136.02	0.456
50	401.0	142	627	126	45	8.27	146.96	134.95	0.456
50	401.0	142	626	126	45	8.26	146.96	134.95	0.456
50	401.0	142	624	127	45	8.29	146.96	136.02	0.456
50	401.0	142	619	126	45	8.16	146.96	134.95	0.456
50	401.0	142	618	126	45	8.15	146.96	134.95	0.456
50	401.0	142	617	126	45	8.14	146.96	134.95	0.456
50	401.0	142	613	126	45	8.08	146.96	134.95	0.456
50	401.0	142	613	126	45	8.08	146.96	134.95	0.456
50	401.0	142	608	125	45	7.95	146.96	133.88	0.456
50	401.0	142	607	125	45	7.94	146.96	133.88	0.456
50	401.0	142	610	126	45	8.04	146.96	134.95	0.456
50	401.0	142	605	125	45	7.92	146.96	133.88	0.456
50	401.0	142	606	125	45	7.93	146.96	133.88	0.456
50	401.0	142	606	125	45	7.93	146.96	133.88	0.456
50	401.0	142	605	125	45	7.92	146.96	133.88	0.456
50	401.0	142	600	125	45	7.85	146.96	133.88	0.456
50	401.0	142	604	125	45	7.9	146.96	133.88	0.456

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

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**ENGINEERING &  
TECHNOLOGY**



## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	401.0	142	598	125	45	7.82	146.96	133.88	0.456
50	401.0	142	599	125	45	7.84	146.96	133.88	0.456
50	401.0	142	598	125	45	7.82	146.96	133.88	0.456
50	401.0	142	598	125	45	7.82	146.96	133.88	0.456
50	401.0	142	594	125	45	7.77	146.96	133.88	0.456
50	401.0	142	590	124	45	7.66	146.96	132.81	0.456
50	401.0	142	591	124	45	7.67	146.96	132.81	0.456
50	401.0	142	586	124	45	7.61	146.96	132.81	0.456
50	401.0	142	590	124	45	7.66	146.96	132.81	0.456
50	401.0	142	581	123	45	7.48	146.96	131.74	0.456
50	401.0	142	588	123	45	7.57	146.96	131.74	0.456
50	401.0	142	580	124	45	7.53	146.96	132.81	0.456
50	401.0	142	580	124	45	7.53	146.96	132.81	0.456
50	401.0	142	579	124	45	7.51	146.96	132.81	0.456
50	401.0	142	580	124	45	7.53	146.96	132.81	0.456
50	401.0	142	576	125	45	7.54	146.96	133.88	0.456
50	401.0	142	576	125	45	7.54	146.96	133.88	0.456
50	401.0	142	576	125	45	7.54	146.96	133.88	0.456
50	401.0	142	574	125	45	7.51	146.96	133.88	0.456
50	401.0	142	573	125	45	7.5	146.96	133.88	0.456
50	401.0	142	575	126	45	7.58	146.96	134.95	0.456
50	401.0	142	569	125	45	7.44	146.96	133.88	0.456
50	401.0	142	572	125	45	7.48	146.96	133.88	0.456
50	401.0	142	567	124	45	7.36	146.96	132.81	0.456
50	401.0	142	568	124	45	7.37	146.96	132.81	0.456
50	401.0	142	563	124	45	7.31	146.96	132.81	0.456

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

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**ENGINEERING &  
TECHNOLOGY**

## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	401.0	142	566	123	45	7.29	146.96	131.74	0.456
50	401.0	142	561	124	45	7.28	146.96	132.81	0.456
50	401.0	142	560	123	45	7.21	146.96	131.74	0.456
50	401.0	142	559	124	45	7.26	146.96	132.81	0.456
50	401.0	142	560	123	45	7.21	146.96	131.74	0.456
50	401.0	142	560	123	45	7.21	146.96	131.74	0.456
50	400.4	142	552	122	45	7.05	147.18	131.06	0.457
50	400.4	142	556	122	44.9	7.1	147.18	131.06	0.456
50	400.4	142	548	122	44.9	7	147.18	131.06	0.456
50	400.4	142	550	122	44.9	7.02	147.18	131.06	0.456
50	400.4	142	546	122	44.9	6.97	147.18	131.06	0.456
50	400.4	142	548	122	44.9	7	147.18	131.06	0.456
50	400.4	142	548	122	44.9	7	147.18	131.06	0.456
50	400.4	142	544	122	44.9	6.95	147.18	131.06	0.456
50	400.4	142	543	122	44.9	6.93	147.18	131.06	0.456
50	400.4	142	546	122	44.9	6.97	147.18	131.06	0.456
50	400.4	142	537	122	44.9	6.86	147.18	131.06	0.456
50	400.4	142	540	122	44.9	6.9	147.18	131.06	0.456
50	400.4	142	534	122	44.9	6.82	147.18	131.06	0.456
50	400.4	142	534	122	44.9	6.82	147.18	131.06	0.456
50	400.4	142	533	122	44.9	6.81	147.18	131.06	0.456
50	400.4	142	533	122	44.9	6.81	147.18	131.06	0.456
50	400.4	142	533	121	44.9	6.75	147.18	129.99	0.456
50	400.4	142	531	121	44.9	6.72	147.18	129.99	0.456
50	400.4	142	524	121	44.9	6.64	147.18	129.99	0.456
50	400.4	142	528	121	44.9	6.69	147.18	129.99	0.456

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

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**ENGINEERING &  
TECHNOLOGY**

## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	400.4	142	523	120	44.9	6.57	147.18	128.91	0.456
50	400.4	142	520	120	44.9	6.53	147.18	128.91	0.456
50	400.4	142	523	120	44.9	6.57	147.18	128.91	0.456
50	400.4	142	517	120	44.9	6.49	147.18	128.91	0.456
50	400.4	142	518	120	44.9	6.51	147.18	128.91	0.456
50	400.4	142	514	120	44.9	6.46	147.18	128.91	0.456
50	400.4	142	514	120	44.9	6.46	147.18	128.91	0.456
50	400.4	142	513	121	44.9	6.5	147.18	129.99	0.456
50	400.4	142	512	121	44.9	6.48	147.18	129.99	0.456
50	400.4	142	511	121	44.9	6.47	147.18	129.99	0.456
50	400.4	142	516	121	44.9	6.53	147.18	129.99	0.456
50	400.4	142	514	121	44.9	6.51	147.18	129.99	0.456
50	400.4	142	507	121	44.9	6.42	147.18	129.99	0.456
50	400.4	142	508	121	44.9	6.43	147.18	129.99	0.456
50	400.4	142	503	121	44.9	6.37	147.18	129.99	0.456
50	400.4	142	507	120	44.9	6.37	147.18	128.91	0.456
50	400.4	142	503	120	44.9	6.32	147.18	128.91	0.456
50	400.4	142	505	120	44.9	6.34	147.18	128.91	0.456
50	400.4	142	498	120	44.9	6.25	147.18	128.91	0.456
50	400.4	142	496	120	44.9	6.23	147.18	128.91	0.456
50	400.4	142	497	120	44.9	6.24	147.18	128.91	0.456
50	400.4	142	496	120	44.9	6.23	147.18	128.91	0.456
50	400.4	142	490	121	44.9	6.21	147.18	129.99	0.456
50	400.4	142	488	120	44.9	6.13	147.18	128.91	0.456
50	400.4	142	492	120	44.9	6.18	147.18	128.91	0.456
50	400.4	142	486	120	44.9	6.1	147.18	128.91	0.456

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

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**ENGINEERING &  
TECHNOLOGY**

## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	400.4	142	485	120	44.9	6.09	147.18	128.91	0.456
50	400.4	142	488	120	44.9	6.13	147.18	128.91	0.456
50	400.4	142	486	120	44.9	6.1	147.18	128.91	0.456
50	400.4	142	486	120	44.9	6.1	147.18	128.91	0.456
50	400.4	142	481	120	44.9	6.04	147.18	128.91	0.456
50	400.4	142	481	119	44.9	5.99	147.18	127.84	0.456
50	400.4	142	479	120	44.9	6.02	147.18	128.91	0.456
50	400.4	142	478	120	44.9	6	147.18	128.91	0.456
50	400.4	142	476	119	44.9	5.93	147.18	127.84	0.456
50	400.4	142	478	119	44.9	5.95	147.18	127.84	0.456
50	400.4	142	471	119	44.9	5.87	147.18	127.84	0.456
50	400.4	142	474	118	44.9	5.85	147.18	126.76	0.456
50	400.4	142	465	118	44.9	5.74	147.18	126.76	0.456
50	400.4	142	467	118	44.9	5.77	147.18	126.76	0.456
50	400.4	142	464	118	44.9	5.73	147.18	126.76	0.456
50	399.2	143	462	118	44.7	5.71	148.66	127.53	0.452
50	399.2	143	462	117	44.7	5.66	148.66	126.44	0.452
50	399.2	143	461	117	44.7	5.65	148.66	126.44	0.452
50	399.2	143	459	117	44.7	5.62	148.66	126.44	0.452
50	399.2	143	456	117	44.7	5.58	148.66	126.44	0.452
50	399.2	143	455	117	44.7	5.57	148.66	126.44	0.452
50	399.2	143	457	117	44.7	5.6	148.66	126.44	0.452
50	399.2	143	452	118	44.7	5.58	148.66	127.53	0.452
50	399.2	143	451	118	44.7	5.57	148.66	127.53	0.452
50	399.2	143	454	118	44.7	5.61	148.66	127.53	0.452
50	399.2	143	450	118	44.7	5.56	148.66	127.53	0.452

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

This certificate is computer generated hence no signature required.

**ENGINEERING &  
TECHNOLOGY**

## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	399.2	143	449	119	44.7	5.59	148.66	128.61	0.452
50	399.2	143	447	119	44.7	5.57	148.66	128.61	0.452
50	399.2	143	445	118	44.7	5.5	148.66	127.53	0.452
50	399.2	143	451	118	44.7	5.57	148.66	127.53	0.452
50	399.2	143	443	118	44.7	5.47	148.66	127.53	0.452
50	399.2	143	443	118	44.7	5.47	148.66	127.53	0.452
50	399.2	143	439	118	44.7	5.42	148.66	127.53	0.452
50	399.2	143	444	117	44.7	5.44	148.66	126.44	0.452
50	399.2	143	436	117	44.7	5.34	148.66	126.44	0.452
50	399.2	143	436	117	44.7	5.34	148.66	126.44	0.452
50	399.2	143	437	117	44.7	5.35	148.66	126.44	0.452
50	399.2	143	432	117	44.7	5.29	148.66	126.44	0.452
50	399.2	143	433	117	44.7	5.3	148.66	126.44	0.452
50	399.2	143	427	117	44.7	5.23	148.66	126.44	0.452
50	399.2	143	430	117	44.7	5.27	148.66	126.44	0.452
50	399.2	143	425	117	44.7	5.2	148.66	126.44	0.452
50	399.2	143	424	117	44.7	5.19	148.66	126.44	0.452
50	399.2	143	422	117	44.7	5.17	148.66	126.44	0.452
50	399.2	143	428	117	44.7	5.24	148.66	126.44	0.452
50	399.2	143	420	117	44.7	5.14	148.66	126.44	0.452
50	399.2	143	420	117	44.7	5.14	148.66	126.44	0.452
50	399.2	143	423	117	44.7	5.18	148.66	126.44	0.452
50	399.2	143	420	117	44.7	5.14	148.66	126.44	0.452
50	399.2	143	421	117	44.7	5.16	148.66	126.44	0.452
50	399.2	143	415	116	44.7	5.04	148.66	125.36	0.452
50	399.2	143	413	116	44.7	5.01	148.66	125.36	0.452

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

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**ENGINEERING &  
TECHNOLOGY**

## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	399.2	143	414	116	44.7	5.03	148.66	125.36	0.452
50	399.2	143	411	116	44.7	4.99	148.66	125.36	0.452
50	399.2	143	412	116	44.7	5	148.66	125.36	0.452
50	399.2	143	408	116	44.7	4.95	148.66	125.36	0.452
50	399.2	143	404	116	44.7	4.91	148.66	125.36	0.452
50	399.2	143	401	116	44.7	4.87	148.66	125.36	0.452
50	399.2	143	405	116	44.7	4.92	148.66	125.36	0.452
50	399.2	143	399	116	44.7	4.84	148.66	125.36	0.452
50	399.2	143	396	115	44.7	4.77	148.66	124.28	0.452
50	399.2	143	401	115	44.7	4.83	148.66	124.28	0.452
50	399.2	143	394	115	44.7	4.74	148.66	124.28	0.452
50	399.2	143	396	116	44.7	4.81	148.66	125.36	0.452
50	399.2	143	392	116	44.7	4.76	148.66	125.36	0.452
50	399.2	143	395	116	44.7	4.8	148.66	125.36	0.452
50	399.2	143	393	116	44.7	4.77	148.66	125.36	0.452
50	399.2	143	393	116	44.7	4.77	148.66	125.36	0.452
50	399.2	143	390	116	44.7	4.74	148.66	125.36	0.452
50	399.2	143	393	116	44.7	4.77	148.66	125.36	0.452
50	399.2	143	387	116	44.7	4.7	148.66	125.36	0.452
50	399.2	143	386	116	44.7	4.69	148.66	125.36	0.452
50	399.2	143	388	115	44.7	4.67	148.66	124.28	0.452
50	399.2	143	382	115	44.7	4.6	148.66	124.28	0.452
50	399.2	143	382	115	44.7	4.6	148.66	124.28	0.452
50	399.2	143	383	115	44.7	4.61	148.66	124.28	0.452
50	398.4	143	381	114	44.7	4.55	148.96	123.70	0.453
50	398.4	143	376	114	44.7	4.49	148.96	123.70	0.453

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

This certificate is computer generated hence no signature required.

**ENGINEERING &  
TECHNOLOGY**

## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	398.4	143	373	114	44.7	4.45	148.96	123.70	0.453
50	398.4	143	375	113	44.7	4.44	148.96	122.61	0.453
50	398.4	143	371	113	44.7	4.39	148.96	122.61	0.453
50	398.4	143	372	114	44.7	4.44	148.96	123.70	0.453
50	398.4	143	369	114	44.7	4.4	148.96	123.70	0.453
50	398.4	143	367	114	44.7	4.38	148.96	123.70	0.453
50	398.4	143	367	113	44.7	4.34	148.96	122.61	0.453
50	398.4	143	366	113	44.7	4.33	148.96	122.61	0.453
50	398.4	143	365	113	44.7	4.32	148.96	122.61	0.453
50	398.4	143	362	114	44.7	4.32	148.96	123.70	0.453
50	398.4	143	361	114	44.7	4.31	148.96	123.70	0.453
50	398.4	143	359	114	44.7	4.28	148.96	123.70	0.453
50	398.4	143	363	113	44.7	4.29	148.96	122.61	0.453
50	398.4	143	357	114	44.7	4.26	148.96	123.70	0.453
50	398.4	143	357	113	44.7	4.22	148.96	122.61	0.453
50	398.4	143	351	113	44.7	4.15	148.96	122.61	0.453
50	398.4	143	349	113	44.7	4.13	148.96	122.61	0.453
50	398.4	143	348	113	44.7	4.12	148.96	122.61	0.453
50	398.4	143	345	112	44.7	4.04	148.96	121.53	0.453
50	398.4	143	344	113	44.7	4.07	148.96	122.61	0.453
50	398.4	143	345	113	44.7	4.08	148.96	122.61	0.453
50	398.4	143	344	112	44.7	4.03	148.96	121.53	0.453
50	398.4	143	338	113	44.7	4	148.96	122.61	0.453
50	398.4	143	344	113	44.7	4.07	148.96	122.61	0.453
50	398.4	143	337	113	44.7	3.99	148.96	122.61	0.453
50	398.4	143	335	113	44.7	3.96	148.96	122.61	0.453

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

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**ENGINEERING &  
TECHNOLOGY**

## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	398.4	143	338	113	44.7	4	148.96	122.61	0.453
50	398.4	143	335	113	44.7	3.96	148.96	122.61	0.453
50	398.4	143	336	113	44.7	3.97	148.96	122.61	0.453
50	398.4	143	334	113	44.7	3.95	148.96	122.61	0.453
50	398.4	143	330	113	44.7	3.9	148.96	122.61	0.453
50	398.4	143	334	113	44.7	3.95	148.96	122.61	0.453
50	398.4	143	329	113	44.7	3.89	148.96	122.61	0.453
50	398.4	143	331	113	44.7	3.91	148.96	122.61	0.453
50	398.4	143	324	113	44.7	3.83	148.96	122.61	0.453
50	398.4	143	325	113	44.7	3.84	148.96	122.61	0.453
50	398.4	143	320	113	44.7	3.78	148.96	122.61	0.453
50	398.4	143	323	113	44.7	3.82	148.96	122.61	0.453
50	398.4	143	317	113	44.7	3.75	148.96	122.61	0.453
50	398.4	143	320	112	44.7	3.75	148.96	121.53	0.453
50	398.4	143	314	112	44.7	3.68	148.96	121.53	0.453
50	398.4	143	312	112	44.7	3.66	148.96	121.53	0.453
50	398.4	143	315	112	44.7	3.69	148.96	121.53	0.453
50	398.4	143	309	112	44.7	3.62	148.96	121.53	0.453
50	398.4	143	313	112	44.7	3.67	148.96	121.53	0.453
50	398.4	143	305	112	44.7	3.58	148.96	121.53	0.453
50	398.4	143	311	112	44.7	3.65	148.96	121.53	0.453
50	398.4	143	304	113	44.7	3.6	148.96	122.61	0.453
50	398.4	143	305	113	44.7	3.61	148.96	122.61	0.453
50	398.4	143	301	113	44.7	3.56	148.96	122.61	0.453
50	398.4	143	307	113	44.7	3.63	148.96	122.61	0.453
50	398.4	143	301	113	44.7	3.56	148.96	122.61	0.453

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

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**ENGINEERING &  
TECHNOLOGY**



## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	398.4	143	301	113	44.7	3.56	148.96	122.61	0.453
50	398.4	143	300	113	44.7	3.55	148.96	122.61	0.453
50	398.4	143	299	113	44.7	3.54	148.96	122.61	0.453
50	398.4	143	301	113	44.7	3.56	148.96	122.61	0.453
50	398.4	143	293	113	44.7	3.47	148.96	122.61	0.453
50	398.4	143	291	112	44.7	3.41	148.96	121.53	0.453
50	398.4	143	292	112	44.7	3.42	148.96	121.53	0.453
50	397.4	143	287	112	44.7	3.36	149.33	122.14	0.454
50	397.4	143	290	112	44.7	3.4	149.33	122.14	0.454
50	397.4	143	283	112	44.7	3.32	149.33	122.14	0.454
50	397.4	143	285	112	44.7	3.34	149.33	122.14	0.454
50	397.4	143	282	111	44.7	3.28	149.33	121.05	0.454
50	397.4	143	282	111	44.7	3.28	149.33	121.05	0.454
50	397.4	143	279	112	44.7	3.27	149.33	122.14	0.454
50	397.4	143	276	111	44.7	3.21	149.33	121.05	0.454
50	397.4	143	281	112	44.7	3.29	149.33	122.14	0.454
50	397.4	143	277	112	44.7	3.25	149.33	122.14	0.454
50	397.4	143	273	112	44.7	3.2	149.33	122.14	0.454
50	397.4	143	271	112	44.7	3.18	149.33	122.14	0.454
50	397.4	143	277	112	44.7	3.25	149.33	122.14	0.454
50	397.4	143	270	112	44.7	3.17	149.33	122.14	0.454
50	397.4	143	273	112	44.7	3.2	149.33	122.14	0.454
50	397.4	143	267	112	44.7	3.13	149.33	122.14	0.454
50	397.4	143	267	112	44.7	3.13	149.33	122.14	0.454
50	397.4	143	264	112	44.7	3.09	149.33	122.14	0.454
50	397.4	143	267	112	44.7	3.13	149.33	122.14	0.454

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

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**ENGINEERING &  
TECHNOLOGY**

## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	397.4	143	262	112	44.7	3.07	149.33	122.14	0.454
50	397.4	143	258	112	44.7	3.02	149.33	122.14	0.454
50	397.4	143	257	112	44.7	3.01	149.33	122.14	0.454
50	397.4	143	257	111	44.7	2.99	149.33	121.05	0.454
50	397.4	143	257	112	44.7	3.01	149.33	122.14	0.454
50	397.4	143	254	112	44.7	2.98	149.33	122.14	0.454
50	397.4	143	252	112	44.7	2.95	149.33	122.14	0.454
50	397.4	143	251	112	44.7	2.94	149.33	122.14	0.454
50	397.4	143	248	112	44.7	2.91	149.33	122.14	0.454
50	397.4	143	247	112	44.7	2.9	149.33	122.14	0.454
50	397.4	143	245	112	44.7	2.87	149.33	122.14	0.454
50	397.4	143	244	112	44.7	2.86	149.33	122.14	0.454
50	397.4	143	247	112	44.7	2.9	149.33	122.14	0.454
50	397.4	143	244	113	44.7	2.89	149.33	123.23	0.454
50	397.4	143	244	113	44.7	2.89	149.33	123.23	0.454
50	397.4	143	238	113	44.7	2.81	149.33	123.23	0.454
50	397.4	143	244	113	44.7	2.89	149.33	123.23	0.454
50	397.4	143	239	113	44.7	2.83	149.33	123.23	0.454
50	397.4	143	241	113	44.7	2.85	149.33	123.23	0.454
50	397.4	143	232	113	44.7	2.74	149.33	123.23	0.454
50	397.4	143	237	113	44.7	2.8	149.33	123.23	0.454
50	397.4	143	231	113	44.7	2.73	149.33	123.23	0.454
50	397.4	143	231	113	44.7	2.73	149.33	123.23	0.454
50	397.4	143	228	113	44.7	2.7	149.33	123.23	0.454
50	397.4	143	227	114	44.7	2.71	149.33	124.32	0.454
50	397.4	143	226	114	44.7	2.7	149.33	124.32	0.454

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

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**ENGINEERING &  
TECHNOLOGY**

## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	397.4	143	227	114	44.7	2.71	149.33	124.32	0.454
50	397.4	143	224	114	44.7	2.67	149.33	124.32	0.454
50	397.4	143	220	115	44.7	2.65	149.33	125.41	0.454
50	397.4	143	222	115	44.7	2.67	149.33	125.41	0.454
50	397.4	143	218	115	44.7	2.62	149.33	125.41	0.454
50	397.4	143	219	115	44.7	2.64	149.33	125.41	0.454
50	397.4	143	219	116	44.7	2.66	149.33	126.50	0.454
50	397.4	143	215	116	44.7	2.61	149.33	126.50	0.454
50	397.4	143	212	116	44.7	2.57	149.33	126.50	0.454
50	397.4	143	210	117	44.7	2.57	149.33	127.59	0.454
50	397.4	143	211	116	44.7	2.56	149.33	126.50	0.454
50	397.4	143	208	116	44.7	2.53	149.33	126.50	0.454
50	397.4	143	210	116	44.7	2.55	149.33	126.50	0.454
50	397.4	143	204	116	44.7	2.48	149.33	126.50	0.454
50	397.4	143	208	116	44.7	2.53	149.33	126.50	0.454
50	397.4	143	205	116	44.7	2.49	149.33	126.50	0.454
50	396.6	143	201	116	44.8	2.44	149.63	127.01	0.456
50	396.6	143	200	116	44.8	2.43	149.63	127.01	0.456
50	396.6	143	196	116	44.8	2.38	149.63	127.01	0.456
50	396.6	143	196	116	44.8	2.38	149.63	127.01	0.456
50	396.6	143	193	116	44.8	2.34	149.63	127.01	0.456
50	396.6	143	190	116	44.8	2.31	149.63	127.01	0.456
50	396.6	143	191	116	44.8	2.32	149.63	127.01	0.456
50	396.6	143	188	116	44.8	2.28	149.63	127.01	0.456
50	396.6	143	189	116	44.8	2.29	149.63	127.01	0.456
50	396.6	143	185	116	44.8	2.25	149.63	127.01	0.456

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

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**ENGINEERING &  
TECHNOLOGY**

## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	396.6	143	187	116	44.8	2.27	149.63	127.01	0.456
50	396.6	143	185	116	44.8	2.25	149.63	127.01	0.456
50	396.6	143	185	116	44.8	2.25	149.63	127.01	0.456
50	396.6	143	183	116	44.8	2.22	149.63	127.01	0.456
50	396.6	143	182	116	44.8	2.21	149.63	127.01	0.456
50	396.6	143	181	117	44.8	2.22	149.63	128.11	0.456
50	396.6	143	180	116	44.8	2.19	149.63	127.01	0.456
50	396.6	143	179	116	44.8	2.17	149.63	127.01	0.456
50	396.6	143	178	116	44.8	2.16	149.63	127.01	0.456
50	396.6	143	176	116	44.8	2.14	149.63	127.01	0.456
50	396.6	143	170	116	44.8	2.06	149.63	127.01	0.456
50	396.6	143	176	116	44.8	2.14	149.63	127.01	0.456
50	396.6	143	168	116	44.8	2.04	149.63	127.01	0.456
50	396.6	143	169	116	44.8	2.05	149.63	127.01	0.456
50	396.6	143	166	116	44.8	2.02	149.63	127.01	0.456
50	396.6	143	163	116	44.8	1.98	149.63	127.01	0.456
50	396.6	143	166	116	44.8	2.02	149.63	127.01	0.456
50	396.6	143	160	116	44.8	1.94	149.63	127.01	0.456
50	396.6	143	161	116	44.8	1.95	149.63	127.01	0.456
50	396.6	143	160	116	44.8	1.94	149.63	127.01	0.456
50	396.6	143	160	116	44.8	1.94	149.63	127.01	0.456
50	396.6	143	157	116	44.8	1.91	149.63	127.01	0.456
50	396.6	143	154	116	44.8	1.87	149.63	127.01	0.456
50	396.6	143	156	117	44.8	1.91	149.63	128.11	0.456
50	396.6	143	153	117	44.8	1.87	149.63	128.11	0.456
50	396.6	143	156	117	44.8	1.91	149.63	128.11	0.456

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

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**ENGINEERING &  
TECHNOLOGY**

## TEST REPORT

Date : 25/09/2015

## FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	396.6	143	150	117	44.8	1.84	149.63	128.11	0.456
50	396.6	143	148	117	44.8	1.81	149.63	128.11	0.456
50	396.6	143	146	116	44.8	1.77	149.63	127.01	0.456
50	396.6	143	146	117	44.8	1.79	149.63	128.11	0.456
50	396.6	143	144	116	44.8	1.75	149.63	127.01	0.456
50	396.6	143	145	116	44.8	1.76	149.63	127.01	0.456
50	396.6	143	137	116	44.8	1.66	149.63	127.01	0.456
50	396.6	143	138	116	44.8	1.68	149.63	127.01	0.456
50	396.6	143	135	117	44.8	1.65	149.63	128.11	0.456
50	396.6	143	137	117	44.8	1.68	149.63	128.11	0.456
50	396.6	143	131	117	44.8	1.6	149.63	128.11	0.456
50	396.6	143	130	117	44.8	1.59	149.63	128.11	0.456
50	396.6	143	130	117	44.8	1.59	149.63	128.11	0.456
50	396.6	143	129	117	44.8	1.58	149.63	128.11	0.456
50	396.6	143	130	117	44.8	1.59	149.63	128.11	0.456
50	396.6	143	129	117	44.8	1.58	149.63	128.11	0.456
50	396.6	143	124	118	44.8	1.53	149.63	129.20	0.456
50	396.6	143	126	118	44.8	1.56	149.63	129.20	0.456
50	396.6	143	123	118	44.8	1.52	149.63	129.20	0.456
50	396.6	143	122	118	44.8	1.51	149.63	129.20	0.456
50	396.6	143	124	118	44.8	1.53	149.63	129.20	0.456
50	396.6	143	121	118	44.8	1.49	149.63	129.20	0.456
50	396.6	143	121	119	44.8	1.51	149.63	130.30	0.456
50	396.6	143	121	119	44.8	1.51	149.63	130.30	0.456
50	396.6	143	118	119	44.8	1.47	149.63	130.30	0.456
50	393.8	142	116	119	44.3	1.44	149.64	132.16	0.457

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

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**ENGINEERING &  
TECHNOLOGY**

TEST REPORT

Date : 25/09/2015

FOR INDUCTION MOTOR

Frq Hz	V Measured	I Measured	RPM	Torque Nm Measured	I/P kW	O/P kW	I Calculated	Torque Calculated	PF
50	393.8	142	114	119	44.3	1.42	149.64	132.16	0.457
50	393.8	142	114	119	44.3	1.42	149.64	132.16	0.457
50	393.8	142	109	119	44.3	1.36	149.64	132.16	0.457
50	393.8	142	109	119	44.3	1.36	149.64	132.16	0.457
50	393.8	142	104	119	44.3	1.3	149.64	132.16	0.457
50	393.8	142	105	119	44.3	1.31	149.64	132.16	0.457
50	393.8	142	103	119	44.3	1.28	149.64	132.16	0.457
50	393.8	142	106	119	44.3	1.32	149.64	132.16	0.457
50	393.8	142	102	119	44.3	1.27	149.64	132.16	0.457
50	393.8	142	98	119	44.3	1.22	149.64	132.16	0.457
50	393.8	142	99	119	44.3	1.23	149.64	132.16	0.457
50	393.8	142	95	120	44.3	1.19	149.64	133.27	0.457
50	393.8	142	0	120	44.3	1.19	149.64	133.27	0.457

**Noise Level Test :-**

Noise Level (dB)	45
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**Momentary Overload Test :-**

	I/P (kW)	Volts (V)	Current (A)	O/p (kW)	Torque (Nm)	PF	SLIP %	Speed (RPM)	Efficiency %	Freq. (Hz)
<b>160 % Load</b>	37.00	381.20	67.45	29.47	203.00	0.83	7.53	1387	79.65	50.00

**Over Speed Test :-**

Motor runs at 120 % of rated speed, & found to be OK.

Since the achieved result meet or exceed the required / specification, the design is considered verified. All test values are subjected to tolerance as per IEC-60034-2-1. We certify that this motor has been tested, has passed & confirms to IEC-60034-2-1.

This certificate is computer generated hence no signature required.

**ENGINEERING & TECHNOLOGY**