

Type Test Report

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Test Details

TR Number: SG400037-1
Test Date: 24-Aug-05
Test Lab: CMG Technology Laboratory

Name Plate Data

Three phase cage induction motor		
Type : SGA71B	Prod.Code: M3400037_SGA_	
0.37 kW	1345 r/m	Ser.No.: 829255/021-006
Duty: S1	cos fi: 0.76	50 Hz
415 V	Conn: Star	1 A
IP: 55	Ins.Cl: F	Eff.[%] 69
Brg.DE: 6202	Brg.NDE: 6202	15 kg

Test Data

	Voltage [V]	Current [A]	Input Power [Watts]	Frequency [Hz]	Speed [r/m]	Torque [Nm]	Output Power [Watts]	Power Factor	Effic. [%]
No Load	380	0.7	59	50	1500	0.0	0	0.13	0.0
No Load	400	0.7	68	50	1500	0.0	0	0.13	0.0
No Load	415	0.8	77	50	1500	0.0	0	0.13	0.0
25% F.L.	415	0.8	173.6	50	1472	0.6	93	0.30	53.8
50% F.L.	416	0.8	283	50	1445	1.3	191	0.46	67.5
75% F.L.	415	0.9	393.7	50	1417	1.9	282	0.59	71.6
100% F.L.	415	1.1	524.9	50	1381	2.6	379	0.69	72.2
125% F.L.	415	1.2	667.6	50	1338	3.4	470	0.76	70.4
Locked Rt.T.	415	4.7	-	50	0	8.5	-	-	-
Break D.T.	415	-	-	50	1000	7	-	-	-
F.L. at 380V	381	1.1	536.5	50	1335	2.7	380	0.77	70.9
F.L. at 400V	400	1.0	529	50	1353	2.7	378	0.73	71.5

Legend: F.L. = Full Load; Locked Rt.T. = Locked Rotor Torque Test; Break D.T. = Break Down Torque Test

Resistance between terminals [Ohms]	U1 - V1 U1 - W1 V1 - W1 Conn. @Temp[°C]	34.5700 34.5800 34.6200 Star 16.6	Heat Run Test	Part of motor	Temperature rise in [K] at amb. temp. 20 [°C] measured by:		
					thermometer	resistance	temp.detector
Insulation resistance to frame	Instrument voltage megohms @Temp[°C]	Megger 1000 >200 16.6	After continuous test at: 415 V 1.1 A 1375 r/m	Winding	-	47.2	-
				Frame	25.9	-	-
H.V. test winding to frame	Voltage Minutes	2440 1	Over rate tests	Excess Torque [Nm]	4.2	160	15sec.
				Excess Current [A]	1.55	155	2min.
				Overspeed [r/m]	1800	120	2min.

Measurement Uncertainty

Measurement uncertainties at the 95% confidence level using a k factor of 2 are:

- Current, Voltage, Power: +/-0.5%
- Speed, Frequency: +/-0.5%
- Resistance: +/-0.2%
- Temperature: +/- 1 °C

Exclusions/Deviations

High Voltage test conducted by the manufacturer

Compliance to Standard

Motors tested in accordance with AS1359.101 Sections 7 & 8
Efficiency as per AS1359 Part 102.1

Comments

Tested By: J.Wilson	Checked By: S.Jois	Printed: 6-Sep-10
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