



Type Test Report

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Test Details

TR Number: HG400550-1
Test Date: 16-Mar-06
Test Lab: CMG Technology Laboratory

Name Plate Data

Three phase cage induction motor		
Type : HGA132S	Prod.Code: M3400550_HGA	
5.5 kW	1460 r/m	Ser.No.: 830475/016-001
Duty: S1	cos fi: 0.83	50 Hz
400/690 V	Conn: Delta/Star	10.6/6.1 A
IP: 55	Ins.Cl: F	Eff.[%] 90.2
Brg.DE: 6308	Brg.NDE: 6308	71 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	3.5	168	50	1500	0.0	0	0.07	0.0
No Load	400	4.0	193	50	1500	0.0	0	0.07	0.0
No Load	416	4.5	221	50	1500	0.0	0	0.07	0.0
25% F.L.	399	4.7	1669	50	1489	9.3	1444	0.52	86.5
50% F.L.	400	6.3	3159	50	1480	18.5	2859	0.72	90.5
75% F.L.	400	8.4	4679	50	1469	27.6	4253	0.80	90.9
100% F.L.	401	10.6	6102	50	1460	36.1	5515	0.83	90.4
125% F.L.	401	12.9	7549	50	1449	44.5	6747	0.84	89.4
Locked Rt.T.	400	75.1	-	50	0	72.4	-	-	-
Break D.T.	400	-	-	50	1200	96.0	-	-	-
F.L. at 380V	380	11.0	6085	50	1456	36.0	5485	0.85	90.1
F.L. at 415V	415	10.3	6005	50	1464	35.4	5434	0.81	90.5

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	1.1950	Heat Run Test	Part of motor	Temperature rise in [K] at amb. temp.		
	U1 - W1	1.1950			24	[°C]	measured by:
	V1 - W1	1.1940			thermometer	resistance	temp.detector
Insulation resistance to frame	Conn.	Delta	After continuous test at:	Winding	-	59.2	-
	@Temp[°C]	21.0		Frame	38.0	-	-
H.V. test winding to frame	Instrument voltage megohms	Megger 1000 2100	Over rate tests	Bearing	37.0	-	-
	@Temp[°C]	21.0		Value	%incr.	Duration	
H.V. test winding to frame	Voltage	2440	Excess Torque [Nm]	57.6	160	15sec.	
	Minutes	1	Excess Current [A]	15.9	150	2min.	
	Result	PASSED	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 by-
 thermometer/detector: +/-10°C
 resistance: +/- 2°C

Exclusions/Deviations

High Voltage test conducted by the manufacturer

Compliance to Standard

Motors tested in accordance with IEC60034-1 / AS1359.101 Sections 7 & 8
 Efficiency as per IEC60034-2 / AS1359 Part 102.1

Comments

This Test Report is also applicable for M3400550_HLA

Tested By: P.Wasillewski	Checked By: S.Jois	Printed: 1-Oct-08
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