



Type Test Report

19 Corporate Avenue
Rowville 3178
Victoria Australia

Ph: 61 3 9237 4000
Testing@cmggroup.com.au
www.cmggroup.com.au

Test Details

TR Number: HG400075-1
Test Date: 11-Sep-07
Test Lab: CMG Technology Laboratory

Name Plate Data

Three phase cage induction motor		
Type : HGA80B	Prod.Code: M3400075_HGA	
0.75 kW	1430 r/m	Ser.No.: 840473/040-081
Duty: S1	cos fi: 0.74	50 Hz
230/400 V	Conn: Delta/Star	3.1/1.79 A
IP: 55	Ins.Cl: F	Eff.[%] 82.3
Brg.DE: 6204	Brg.NDE: 6204	22 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	0.9	65	50	1500	0.0	0	0.11	0.0
No Load	400	1.0	76	50	1500	0.0	0	0.11	0.0
No Load	415	1.1	84	50	1500	0.0	0	0.11	0.0
25% F.L.	401	1.1	274.3	50	1484	1.2	192	0.37	70.0
50% F.L.	401	1.2	481.1	50	1469	2.5	383	0.56	79.7
75% F.L.	400	1.5	691.9	50	1452	3.7	569	0.68	82.2
100% F.L.	400	1.8	923.2	50	1433	5.1	760	0.74	82.3
125% F.L.	401	2.2	1178.1	50	1409	6.5	956	0.78	81.1
Locked Rt.T.	400	10.8	-	50	0	13.5	-	-	-
Break D.T.	400	-	-	50	970	15.7	-	-	-
F.L. at 380V	381	1.8	933.8	50	1421	5.2	766	0.77	82.1
F.L. at 415V	415	1.8	926.7	50	1437	5.1	762	0.72	82.2

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]	11.3290 11.3210 11.2400 Star 19.4	Heat Run Test	Part of motor	Temperature rise in [K] at amb. temp.		
					21 [°C] measured by:	thermometer	resistance
Insulation resistance to frame	Instrument voltage megohms @Temp[°C]	Megger 1000 36000 19.4	After continuous test at: 401 V 1.8 A 1432 r/m	Winding	-	41.4	-
				Frame	32.2	-	-
H.V. test winding to frame	Voltage Minutes Result	2440 1 PASSED	Over rate tests	Excess Torque [Nm]	8.013	160	15sec.
				Excess Current [A]	2.688	150	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 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 M3400075_HLA
--

Tested By: J.Wilson	Checked By: S.Jois	Printed: 1-Oct-08
---------------------	--------------------	-------------------