



# Type Test Report

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## Test Details

TR Number: <b>S1232-1</b>
Test Date: 13-Aug-98
Test Lab: CMG Technology Laboratory

## Name Plate Data

Three phase cage induction motor		
Type : SGA80A-4	Prod.Code: M34000553SGA	
0.55 kW	1390 r/m	Ser.No.: 112254
Duty: S1	cos fi: 0.75	50 Hz
415 V	Conn: Star	1.42 A
IP: 55	Ins.Cl: F	Eff. [%] 72.1
Brg.DE: 6204-2RS	Brg.NDE: 6204-2RS	17 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	415	0.94	104	50	1500	0.0	0	0.15	0.0
25% F.L.	415	0.95	252	50	1467	0.9	142	0.37	56.5
50% F.L.	415	1.04	404	50	1446	1.8	277	0.54	68.5
75% F.L.	415	1.18	568	50	1423	2.8	410	0.67	72.2
100% F.L.	415	1.39	750	50	1390	3.7	541	0.75	72.1
125% F.L.	415	1.64	947	50	1366	4.7	672	0.80	71.0
Locked Rt.T.	415	6.70	-	50	0	9.4	-	-	-
Break D.T.	425	-	-	50	1200	10	-	-	-

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]	28.2000 28.1500 28.1500 Star 17.0	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 17.0	After continuous test at: 415 V 1.39 A 1393 r/m	Winding Frame	-	48.6	-
					18.9	-	-
H.V. test winding to frame	Voltage Minutes	1830 1min.	Over rate tests	Excess Torque [Nm] Excess Current [A] Overspeed [r/m]	Value	%incr.	Duration
					6.1	161	15sec.
					2.1	148	2min.
					1800	120	2min.

## Measurement Accuracy

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

## Exclusions/Deviations

High Voltage test conducted by the manufacturer
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## Compliance to Standard

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

This test report is also applicable to M3400055_SLA_
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Tested By: P.Wasilewski	Checked By: S.Jois	Printed: 6-Apr-04
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