

## Test Details

## Name Plate Data

TR Number: <b>MC200300-1</b>	<b>Single phase cage induction motor</b>		
Test Date: 26-Jul-06	Type : MTC100L-2	Prod.Code: M22003003MTC	
Test Lab: CMG Technology Laboratory	3.0 kW	2880 r/m	Ser.No.: 060337 201
	Duty: S1	220 - 240 V	50 Hz
	Ins.Cl: F	Conn: CS/CR	16.1 A
	IP: 55	Start Cap : 350/300 [ $\mu$ F/V]	Run Cap: 60/450 [ $\mu$ F/V]

Tests	Voltage [V]	Current [A]	Input Power [Watts]	Capacitor Voltage [V]	Speed [r/m]	Torque [Nm]	Output Power [Watts]	Power Factor	Effic. [%]
No Load (Umin)	220	2.63	510	406	3000	0.00	0	0.881	0.0
No Load (Unom)	230	3.83	574	421	3000	0.00	0	0.652	0.0
No Load (Umax)	240	5.90	654	436	3000	0.00	0	0.462	0.0
Full Load (Umin)	220	16.71	3656	355	2884	9.94	3003	0.993	82.1
Full Load (Unom)	230	16.18	3676	374	2891	9.91	3001	0.987	81.6
Full Load (Umax)	240	15.87	3693	394	2903	9.88	3003	0.969	81.3
25% F.L.	230	6.07	1275	412	2976	2.41	752	0.912	59.0
50% F.L.	230	8.99	2011	402	2954	4.85	1501	0.972	74.6
75% F.L.	230	12.36	2799	388	2926	7.34	2251	0.984	80.4
100% F.L.	230	16.18	3673	375	2892	9.91	3001	0.986	81.7
125% F.L.	230	20.79	4706	354	2839	12.62	3751	0.983	79.7
Locked Rt. T.	212	92.00	-	277	0	23.55	-	-	-
Break.D T. (Max.T)	223	-	-	-	2250	19.79	-	-	-
Run Up T. (Min.T)	210	-	-	-	-	18.62	-	-	-

Legend: F.L. = Full Load; Locked Rt.T. = Locked Rotor Torque Test; Break D.T. = Break Down Torque Test; Run UpT. = Run-up torque Test

Resistance between terminals [Ohms]	Main Wind.	0.6701	Heat Run Test	Part of motor	Temp. rise in deg.C at amb. temp.		
	Aux. Wind.	1.5536			19.9	[°C] measured by:	thermometer
Insulation resistance to frame	Instrument voltage megohms	Megger >200	After continuous test at:	Main Winding	-	63.3	
					230 V	-	66.2
H.V. test winding to frame	Voltage Minutes Result	1500 1 Passed	Over rate tests	Excess Voltage [V]	25.7	-	
					Excess Current [A]		
				Over speed [r/m]	Value	%incr.	minutes

### Measurement Uncertainty:

### Exclusions/Deviations:

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: +/-5°C  
 resistance: +/- 1°C

High Voltage test conducted by the manufacturer  
 Overrate tests are not conducted as part of this report

### Motor Specifications:

### Comments:

Cap. Start [ $\mu$ F/V] :	350/300	
Cap. Run [ $\mu$ F/V] :	60/450	

Tested by: Jason Wilson	Checked by: S.Jois	Printed : 10-Jan-12
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