

Test Details

Name Plate Data

TR Number: MC200110-1	Single phase cage induction motor		
Test Date: 21-Jul-06	Type : MTC80B-2	Prod.Code: M22001103MTC	
Test Lab: CMG Technology Laboratory	1.10 kW	2800 r/m	Ser.No.: 060337 098
	Duty: S1	220 - 240 V	50 Hz
	Ins.Cl: F	Conn: CS/CR	6.3 A
	IP: 55	Start Cap : 150/250 μ F/V	Run Cap: 30/450 μ 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	1.30	258	369	3000	0.00	0	0.901	0.0
No Load (Unom)	230	1.80	296	385	3000	0.00	0	0.717	0.0
No Load (Umax)	240	2.64	349	401	3000	0.00	0	0.550	0.0
Full Load (Umin)	220	6.64	1461	320	2775	3.81	1106	0.998	75.7
Full Load (Unom)	230	6.27	1441	341	2800	3.75	1101	0.998	76.4
Full Load (Umax)	240	6.09	1451	362	2816	3.73	1100	0.992	75.8
25% F.L.	230	2.57	556	0	2952	0.90	277	0.939	49.8
50% F.L.	230	3.60	818	0	2911	1.83	557	0.987	68.2
75% F.L.	230	4.81	1101	0	2865	2.75	825	0.995	74.9
100% F.L.	230	6.26	1437	0	2802	3.75	1101	0.998	76.6
125% F.L.	230	8.29	1901	0	2691	4.87	1373	0.997	72.2
Locked Rt. T.	229	34.00	-	241	0	9.93	-	-	-
Break.D T. (Max.T)	230	18.64	4045	-	1900	7.10	-	-	-
Run Up T. (Min.T)	227	-	-	-	-	5.24	-	-	-

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.	2.886	Heat Run Test	Part of motor	Temp. rise in deg.C at amb. temp.		
	Aux. Wind.	4.123			19.6 [°C] measured by:		
Insulation resistance to frame	Instrument voltage megohms	Megger >200	After continuous test at:	Main Winding	thermometer	resistance	temp.detector
					230 V	-	59.9
H.V. test winding to frame	Voltage Minutes Result	1500 1 Passed	Over rate tests	Aux. Winding	-	58.4	
				Frame	22.5	-	
				Excess Voltage [V]	Value	%incr.	minutes
				Excess Current [A]			
				Overspeed [r/m]			

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
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Motor Specifications:

Comments:

Cap. Start [μ F/V] :	150/250	
Cap. Run [μ F/V] :	30/450	

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