



## TYPE TEST REPORT OF SINGLE PHASE ASYNCHRONOUS MOTOR

No: ML015B  
DATE: 2006.01.19  
PAGE: 1/1

MODEL	ML100L-2	KW	3.0KW
CLASS	F	POLE	2
IP	IP55	VOLT(V)	230
S/N	ML015B	Hz	50
START C(μF/V)	400/300	RATED CURRENT	
RUN C(μF/V)	60/450	RATED RPM	2850

No:	ITEM	UNIT	STANDARD	TOLERANCE	RESULT
1	Efficiency	%	80		78.06
2	Power factor	Cosφ	0.98		0.9998
3	Temp.rise of stator main winding	K			54.83
4	Temp.rise of stator assist. winding	K			62.31
5	Temp.rise of stator main winding when over load 1.5 times	K			
6	Temp.rise of stator assist. Winding when over load 1.5 times	K			
7	Pullup torque/rated torque				0.7
8	Max torque/rated torque				1.71
9	Locked rotor torque/rated torque				3.26
10	Locked rotor current/rated current				6.5
11	Full load input	Kw			3.8562
12	Full load output	Kw			3.0102
13	Full load current	A			16.594
14	Full load torque	Nm			10
15	Full load speed	RPM			2857.4
16	Slip	%			4.753
17	No load input	Kw			0.6676
18	No load current	A			3.456
19	Stray load loss	Kw			0.0193
20	Iron core loss	Kw			0.5275
21	Friction&windage loss	Kw			0.1373
22	Stator winding loss	Kw			
23	Rotor winding loss	Kw			
24	Stator main winding resistance(25°C)	Ω			0.7133
25	Stator assist. winding resistance(25°C)	Ω			1.8539
26	High voltage test	KV			1.5
27	Impulse voltage test	KV			1.5
28	Hot insulation resistance of stator winding	MΩ			500
29	Open speed of centrifugal switch	RPM			2170
30	No load voltage of run capacitor end	V			416
31	Full load voltage of run capacitor end	V			389
32	Temp.of bearing	°C			44
33	Vibration	mm/s			
34	Noise(LP)	dB(a)			

L=120mm MODIFIED DESIGN Φ2-1.0+0.95 21,21,16,11 Φ0.85+0.90 37,37,19,7  
 Φ3-0.95 23,23,17,11 2-Φ0.85 37,36,21,8  
 400uF/300V 60uF/450V