

# ShanDong LiJiu Electrical Machinery Co., Ltd

## Test Results Data

Serial No:2

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Type:	YE3-112M-8	Motor No:	2		
Rated Power	1.50kW	Rated voltage :	400V		
Rated Speed	700r/min	Rated current :	3.940A		
Frequency :	50Hz	Duty :	S1		
Pro. Class :	IP55	Connection :	Y		
Ins. Class :	F	Date:	2019-02-20		
<b>Test Result:</b>					
Test Items	Standard Value	Designed value	Tolerance	Tested Value	RESULT
<b>1. Stator Winding DC Resistance under Ambient Temperature</b>					
AB	Ω			6.895000	
BC	Ω			6.896000	
CA	Ω			6.889000	
Ambient Temp	℃			16.3	
<b>2. Hot Insulation Resistance</b>					
Inter-phase	MΩ	≥0.40		399	PASS
To the Ground	MΩ	≥0.40		394	PASS
<b>3. No Load Test</b>					
No load current	A			2.589	
Degrees of unbalance(%)	%	≤10		1.60	PASS
Input Power	W			143.45	
Core loss	W			53.56	
Machine loss	W			6.53	
<b>4. Locked Test</b>					
Current (Ik)	A			15.94	
Ik/ In	Times	6.7	+1.34	3.89	PASS
Torque (Tk)	N·m			41.19	
Tk / Tn	Times	1.8	-0.27	1.97	PASS
<b>5. Tmax and Tmin Test</b>					
Max Torque (Tmax)	N·m			54.58	
Tmax/ Tn	Times	2.0	-0.2	2.61	PASS
Min Torque (Tmin)	N·m				
Tminx/ Tn	Times				
<b>6. Temperature-rise Test (1.0PN)</b>					
Temp. rise of Stator Winding	K	≤80		66.8	PASS
Bearing Temp	℃	≤95		50.3	PASS
Hot Ambient Temp	℃			15.5	

Tested By: 崔铁成

Date: 2019. 3. 5

Checked By: 林永环

Date: 2019. 3. 5

# ShanDong LiJiu Electrical Machinery Co.,Ltd

## Test Results Data(to continue)

Serial No:2

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Test Items	Standard Value	Designed value	Tolerance	Tested Value	RESULT
<b>7. Temperature-rise Test (PN)</b>					
Temp.rise of Stator Winding	K				
Bearing Temp	℃				
Hot Ambient Temp	℃				
<b>8. Load Test</b>					
$\theta_s$	℃			91.80	
I1(100%Rated Load)	A			4.097	
Sref	%			8.606	
Pcu1	W			225.71	
Pcu2	W			143.40	
Ps	W			28.56	
P1	W			1952.86	
P2	W			1500.00	
$\eta$	%	79.7		76.81	PASS
$0.75*\eta$	%			79.21	
$\cos\phi$		0.69		0.688	PASS
<b>9. Noise</b>					
NOISE(NO load)	dB(A)	61		58	PASS
NOISE(load)	dB(A)				
<b>10. Vibrate</b>					
Acceleration	m/s <sup>2</sup>	2.0		0.2	PASS
Speed	mm/s	1.3		0.1	PASS
Displacement	μm	21		0.5	PASS
<b>11. Power Frequency Voltage Withstand Test</b>	v/min	1800			PASS
<b>12. Short time Over torque</b>	15s	1.89times			PASS
<b>13. Over Speed</b>	2min	1080r/min			PASS
<b>14. DIR check</b>	/	clockwise			PASS
<b>15. Insulation Test</b>	V/1s-3s	2500			PASS
<b>16. Current</b>					
<b>17. Resistance</b>					
<b>Result:</b>			<b>PASS</b>		

Tested By:崔铁成

# TYPE TEST REPORT

SLJ4-03-45

REPORT NO 1903051252

TYPE YE3-112M-8 RATED POWER 1.50kW

S. N. 2

TESTED BY 崔铁成

INSPECTED BY 林永环

APPROVED BY 邓新成

TESTED DATE 2019/3/5

ShanDong LiJiu Electrical Machinery Co., Ltd