

ShanDong LiJiu Electrical Machinery Co.,Ltd

Test Results Data

Serial No:2

Page No:

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			
Test Result:						
Test Items		Standard Value	Designed value	Tolerance	Tested Value	RESULT
1.Stator Winding DC Resistance under Ambient Temperature						
AB	Ω				6.895000	
BC	Ω				6.896000	
CA	Ω				6.889000	
Ambient Temp	℃				16.3	
2.Hot Insulation Resistance						
Inter-phase	MΩ	≥0.40			399	PASS
To the Ground	MΩ	≥0.40			394	PASS
3.No Load Test						
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	
4.Locked Test						
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
5.Tmax and Tmin Test						
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					
6.Temperature-rise Test(1.0PN)						
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

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Test Results Data(to continue)

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Test Items		Standard Value	Designed value	Tolerance	Tested Value	RESULT
7. Temperature-rise Test (PN)						
Temp.rise of Stator Winding	K					
Bearing Temp	℃					
Hot Ambient Temp	℃					
8. Load Test						
θ_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	
η	%	79.7		-3.05	76.81	PASS
0.75* η	%				79.21	
$\cos \phi$		0.69		-0.052	0.688	PASS
9. Noise						
NOISE(NO load)	dB(A)	61		+3	58	PASS
NOISE(load)	dB(A)					
10. Vibrate						
Acceleration	m/s ²	2.0			0.2	PASS
Speed	mm/s	1.3			0.1	PASS
Displacement	μm	21			0.5	PASS
11. Power Frequency Voltage Withstand Test	v/min	1800				PASS
12.Short time Over torque	15s	1.89times				PASS
13.Over Speed	2min	1080r/min				PASS
14.DIR check	/	clockwise				PASS
15. Insulation Test	V/1s-3s	2500				PASS
16. Current						
17. Resistance						
Result:			PASS			

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