



Type Test Report

Motor tested in accordance with IEC60034-2-1 & AS/NZS1359.102.3.Efficiency as per IEC60034-2-1
(PLL determined from residual loss)

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Type: TAI 112M-8
TR Number: 2012111701
Test Lab: Techtop factory

Comments: *This test report is also applicable for TCI 112M-8 1.5kW*

Nameplate:

Type:	TAI 112M-8		Duty:	S1	IP:	55
Serial No:	2012080150123		Ins.Cl:	F	KG:	
Voltage	Hz	kW	A	cos fi	r/min	Eff.[%]
230/400	50	1.5	7.26/4.18	0.67	700	77.4
Brg.DE:	6306ZZ		Brg.NDE:	6306ZZ		

No Load Test:

	Voltage [V]	Current [A]	Input [W]	Freq. [Hz]	Speed [min ⁻¹]	Torque [Nm]	Output [W]	Power Factor	Eff. [%]
No load	360	2.38	127	50	750	0.0	0	0.09	0.0
No load	400	2.87	170	50	750	0.0	0	0.09	0.0
No load	440	3.65	249	50	750	0.0	0	0.09	0.0

Load Test:

Load [p.u]	Voltage [V]	Current [A]	Input [W]	Freq. [Hz]	Speed [min ⁻¹]	Torque [Nm]	Output [W]	Power Factor	Eff. [%]
0.25	400	2.72	551	50	734	4.9	375	0.29	68.0
0.5	400	3.06	971	50	729	9.8	750	0.46	77.2
0.75	400	3.48	1418	50	719	15.0	1125	0.59	79.3
1	400	4.06	1914	50	703	20.4	1500	0.68	78.4
1.25	400	4.89	2491	50	683	26.2	1875	0.74	75.3
1.5	400	6.06	3200	50	657	32.7	2250	0.76	70.3

Full Load At 380V & 420V

	Voltage [V]	Current [A]	Input [W]	Freq. [Hz]	Speed [min ⁻¹]	Torque [Nm]	Output [W]	Power Factor	Eff. [%]
380V	380	4.08	1950	50	691	20.7	1500	0.73	76.9
420V	420	4.13	1910	50	709	20.2	1500	0.64	78.5

Locked Rotor Test:

Un (V)	Ik (A)	Pk(W)	Tk (Nm)	cosφ
400/230	16.36	6278	37.54	0.55

Temperature Rise:

Amb.Temperature:	19.5	[°C]	Winding temperature rise:	56.2	[K]
Cold Resistance:	7.610	[Ω]	Frame:	58.4	[°C]
Hot Resistance:	9.311	[Ω]	Bearing:	61.2	[°C]

Torque And Current:

Locked Rotor Tor./Rated Tor.:	1.82	Breakdown Torque/Rated Torque:	2.12
Locked Rotor Cur./Rated Cur.:	4.03	Pullup Torque/Rated Torque:	1.8

Check: Zhang Kai	Operator: Chen Zhongliang	Test Date: 17-Nov-12
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