



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 711-6

TR Number: 2011070202

Test Lab: Techtop factory

Nameplate:

Type:	TAI 711-6	Duty:	S1	IP:	55	
Serial No:	201103096010	Ins.Cl:	F	KG:	5.6	
Voltage	Hz	kW	A	cos fi	r/min	Eff. [%]
230/400	50	0.18	1.15/0.66	0.68	880	57.8
Brg.DE:	6202 RZ	Brg.NDE:	6202 RZ			

No Load Test:

	Voltage [V]	Current [A]	Input [W]	Freq. [Hz]	Speed [min ⁻¹]	Torque [Nm]	Output [W]	Power Factor	Eff. [%]
No load	380	0.53	72	50	1000	0.0	0	0.21	0.0
No load	400	0.5767	83	50	1000	0.0	0	0.21	0.0
No load	420	0.6311	96	50	1000	0.0	0	0.21	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	0.57	132	50	976	0.440	45	0.33	34.0
0.5	400	0.58	182	50	959	0.897	90	0.45	49.3
0.75	400	0.61	239	50	928	1.389	135	0.57	56.4
1	400	0.66	311	50	884	1.945	180	0.68	57.8
1.25	400	0.78	411	50	826	2.603	225	0.76	54.8
1.5	400	0.97	561	50	754	3.420	270	0.83	48.2

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	0.68	318.6	50	861	1.997	180	0.71	56.5
420V	420	0.65	309.3	50	896	1.919	180	0.65	58.2

Locked Rotor Test:

Un (V)	Ik (A)	Pk(W)	Tk (Nm)	cosφ
400/230	1.928	1070	4.413	0.92

Temperature Rise:

Amb. Temperature:	33.1	[°C]	Winding temperature rise:	43	[K]
Cold Resistance:	103.6	[Ω]	Frame:	60.5	[°C]
Hot Resistance:	120.0	[Ω]	Bearing:	62.5	[°C]

Torque And Current:

Locked Rotor Tor./Rated Tor.:	2.27	Breakdown Torque/Rated Torque:	2.24
Locked Rotor Cur./Rated Cur.:	2.91	Pullup Torque/Rated Torque:	2.09

Check: Zhang Kai	Operator: Chen Zhongliang	Test Date: 02/Jul/11
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