



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 632-6

TR Number: 2011063002

Test Lab: Techtop factory

Nameplate:

Type:	TAI 632-6		Duty:	S1		IP:	55	
Serial No:	201103096006		Ins.Cl:	F		KG:	4.5	
Voltage	Hz	kW	A	cos fi	r/min	Eff. [%]		
230/400	50	0.12	0.97/0.56	0.65	830	48		
Brg.DE:	6201 RZ		Brg.NDE:	6201 RZ				

No Load Test:

	Voltage [V]	Current [A]	Input [W]	Freq. [Hz]	Speed [min ⁻¹]	Torque [Nm]	Output [W]	Power Factor	Eff. [%]
No load	360	0.42	63	50	1000	0.0	0	0.24	0.0
No load	400	0.4849	81	50	1000	0.0	0	0.24	0.0
No load	440	0.569	108	50	1000	0.0	0	0.25	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	0.48	117	50	960	0.299	30	0.35	25.6
0.5	400	0.48	152	50	933	0.614	60	0.45	39.5
0.75	400	0.50	194	50	891	0.965	90	0.55	46.5
1	400	0.55	250	50	832	1.378	120	0.65	48.0
1.25	400	0.64	332	50	757	1.893	150	0.74	45.1
1.5	400	0.80	461	50	666	2.583	180	0.83	39.0

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	0.56	254.8	50	815	1.406	120	0.69	47.1
420V	420	0.55	249.0	50	845	1.356	120	0.62	48.2

Locked Rotor Test:

Un (V)	Ik (A)	Pk(W)	Tk (Nm)	cosφ
400/230	1.307	706.7	3.018	0.90

Temperature Rise:

Amb. Temperature:	31.9	[°C]	Winding temperature rise:	67	[K]
Cold Resistance:	133.9	[Ω]	Frame:	78.7	[°C]
Hot Resistance:	168.8	[Ω]	Bearing:	82	[°C]

Torque And Current:

Locked Rotor Tor./Rated Tor.:	2.19	Breakdown Torque/Rated Torque:	2.05
Locked Rotor Cur./Rated Cur.:	2.37	Pullup Torque/Rated Torque:	1.9

Check: Zhang Kai	Operator: Chen Zhongliang	Test Date: 30/Jun/11
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