

**SHANGHAI TOP MOTOR CO., LTD**

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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)

Type: TAI 200L-8

TR Number: 2013031401

Test Lab: Techtop factory

Nameplate:

Type:	TAI 200L-8		Duty:	S1	IP:	55
Serial No:	201301016021		Ins.Cl:	F	KG:	
Voltage	Hz	kW	A	cos fi	r/min	Eff.[%]
400/690	50	15	31.9/18.5	0.75	730	90.6
Brg.DE:	6312 RZ		Brg.NDE:	6212 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	15.79	516	50	750	0.0	0	0.05	0.0
No load	400	17.50	598	50	750	0.0	0	0.05	0.0
No load	420	19.85	720	50	750	0.0	0	0.05	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	18.26	4409	50	746	48.0	3750	0.35	85.1
0.5	400	21.67	8329	50	742	96.5	7500	0.55	90.0
0.75	400	26.32	12368	50	737	145.7	11250	0.68	91.0
1	400	32.02	16551	50	732	195.6	15000	0.75	90.6
1.25	400	38.57	20903	50	727	246.3	18750	0.78	89.7
1.5	400	45.77	25446	50	721	298.0	22500	0.80	88.4

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	32.48	16599	50	730	197.4	15000	0.78	90.4
420V	420	32.09	16571	50	734	196.7	15000	0.71	90.5

Locked Rotor Test:

Un (V)	Ik (A)	Pk(W)	Tk (Nm)	cosφ
400/690	231.6	76117	517.8	0.47

Temperature Rise:

Amb. Temperature:	25.5	[°C]	Winding temperature rise:	57.6	[K]
Cold Resistance:	0.383	[Ω]	Frame:	49	[°C]
Hot Resistance:	0.471	[Ω]	Bearing:	52.1	[°C]

Torque And Current:

Locked Rotor Tor./Rated Tor.: 2.63	Breakdown Torque/Rated Torque: 3.18
Locked Rotor Cur./Rated Cur.: 7.23	Pullup Torque/Rated Torque: 2.05

Check: Zhang Kai	Operator: Li Jian	Test Date: 14-Mar-13
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