

**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 200L1-2

TR Number: 2013031102

Test Lab: Techtop factory

Nameplate:

Type:	TAI 200L1-2		Duty:	S1	IP:	55
Serial No:	201301016016		Ins.Cl:	F	KG:	158
Voltage	Hz	kW	A	cos fi	r/min	Eff.[%]
400/690	50	30	52.9/30.7	0.89	2955	92.0
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	12.00	916	50	3000	0.0	0	0.12	0.0
No load	400	13.45	991	50	3000	0.0	0	0.11	0.0
No load	420	15.44	1103	50	3000	0.0	0	0.10	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	18.52	8593	50	2989	24.0	7500	0.67	87.3
0.5	400	28.57	16384	50	2979	48.1	15000	0.83	91.6
0.75	400	39.87	24377	50	2967	72.4	22500	0.88	92.3
1	400	52.39	32610	50	2957	96.9	30000	0.90	92.0
1.25	400	66.08	41125	50	2939	121.9	37500	0.90	91.2
1.5	400	80.89	49966	50	2922	147.1	45000	0.89	90.1

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	54.94	32790	50	2937	97.5	30000	0.91	91.5
420V	420	50.32	32490	50	2953	97.0	30000	0.89	92.3

Locked Rotor Test:

Un (V)	Ik (A)	Pk(W)	Tk (Nm)	cosφ
400/690	368.5	105803	199.5	0.41

Temperature Rise:

Amb.Temperature:	28.5	[°C]	Winding temperature rise:	76.5	[K]
Cold Resistance:	0.161	[Ω]	Frame:	98.9	[°C]
Hot Resistance:	0.208	[Ω]	Bearing:	102.5	[°C]

Torque And Current:

Locked Rotor Tor./Rated Tor.: 2.05	Breakdown Torque/Rated Torque: 2.54
Locked Rotor Cur./Rated Cur.: 7.03	Pullup Torque/Rated Torque: 1.04

Check: Zhang Kai	Operator: Li Jian	Test Date: 10-Mar-13
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