



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 562-2

TR Number: 2011062802

Test Lab: Techtop factory

Nameplate:

Type:	TAI 562-2	Duty:	S1	IP:	55	
Serial No:	201103096002	Ins.Cl:	F	KG:	3	
Voltage	Hz	kW	A	cos fi	r/min	Eff. [%]
230/400	50	0.12	0.62/0.36	0.79	2700	61.6
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	380	0.260	36	50	3000	0.0	0	0.21	0.0
No load	400	0.300	45	50	3000	0.0	0	0.21	0.0
No load	420	0.350	57	50	3000	0.0	0	0.22	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	0.290	78	50	2930	0.098	30	0.39	38.6
0.5	400	0.295	111	50	2881	0.199	60	0.54	54.2
0.75	400	0.314	149	50	2805	0.306	90	0.68	60.6
1	400	0.355	195	50	2701	0.424	120	0.79	61.6
1.25	400	0.426	255	50	2571	0.557	150	0.87	58.8
1.5	400	0.533	339	50	2414	0.712	180	0.92	53.1

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	0.37	196.1	50	2670	0.429	120	0.81	61.2
420V	420	0.37	198.3	50	2720	0.421	120	0.74	60.5

Locked Rotor Test:

Un (V)	Ik (A)	Pk(W)	Tk (Nm)	cosφ
400/230	1.344	864.9	1.058	0.93

Temperature Rise:

Amb. Temperature:	23.8	[°C]	Winding temperature rise:	40.6	[K]
Cold Resistance:	181.3	[Ω]	Frame:	23	[°C]
Hot Resistance:	209.2	[Ω]	Bearing:	25.8	[°C]

Torque And Current:

Locked Rotor Tor./Rated Tor.:	2.49	Breakdown Torque/Rated Torque:	2.34
Locked Rotor Cur./Rated Cur.:	3.78	Pullup Torque/Rated Torque:	2.13

Check: Zhang Kai	Operator: Chen Zhongliang	Test Date: 28/Jun/11
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