



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 561-2

TR Number: 2011062801

Test Lab: Techtop factory

Nameplate:

Type:	TAI 561-2	Duty:	S1	IP:	55	
Serial No:	201103096001	Ins.Cl:	F	KG:	2.6	
Voltage	Hz	kW	A	cos fi	r/min	Eff. [%]
230/400	50	0.09	0.56/0.32	0.76	2715	53.5
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	0.240	41	50	3000	0.0	0	0.27	0.0
No load	400	0.320	66	50	3000	0.0	0	0.30	0.0
No load	440	0.440	113	50	3000	0.0	0	0.34	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	0.299	86	50	2929	0.073	23	0.41	26.2
0.5	400	0.299	110	50	2882	0.149	45	0.53	41.0
0.75	400	0.302	136	50	2812	0.229	68	0.65	49.6
1	400	0.319	168	50	2719	0.316	90	0.76	53.5
1.25	400	0.361	212	50	2603	0.413	113	0.85	53.1
1.5	400	0.439	275	50	2466	0.523	135	0.90	49.1

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	0.32	169.8	50	2670	0.322	90	0.80	53.0
420V	420	0.32	170.1	50	2735	0.314	90	0.72	52.9

Locked Rotor Test:

Un (V)	Ik (A)	Pk(W)	Tk (Nm)	cosφ
400/230	1.409	675.1	0.7215	0.93

Temperature Rise:

Amb. Temperature:	31.9	[°C]	Winding temperature rise:	52.8	[K]
Cold Resistance:	253.4	[Ω]	Frame:	30.1	[°C]
Hot Resistance:	301.2	[Ω]	Bearing:	32.9	[°C]

Torque And Current:

Locked Rotor Tor./Rated Tor.:	2.28	Breakdown Torque/Rated Torque:	2.39
Locked Rotor Cur./Rated Cur.:	3.29	Pullup Torque/Rated Torque:	2.12

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