



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 801-8

TR Number: 2011070501

Test Lab: Techtop factory

Nameplate:

Type:	TAI 801-8	Duty:	S1	IP:	55	
Serial No:	201103096015	Ins.Cl:	F	KG:	8.3	
Voltage	Hz	kW	A	cos fi	r/min	Eff. [%]
230/400	50	0.18	1.43/0.82	0.58	690	55
Brg.DE:	6204 RZ	Brg.NDE:	6204 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	0.65	74	50	750	0.0	0	0.17	0.0
No load	400	0.75	97	50	750	0.0	0	0.19	0.0
No load	420	0.89	133	50	750	0.0	0	0.21	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	0.74	158	50	736	0.584	45	0.31	28.5
0.5	400	0.75	207	50	725	1.186	90	0.40	43.4
0.75	400	0.77	262	50	710	1.815	135	0.49	51.4
1	400	0.82	327	50	693	2.481	180	0.58	55.0
1.25	400	0.89	406	50	672	3.200	225	0.65	55.5
1.5	400	1.01	505	50	647	3.986	270	0.72	53.5

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	0.80	325.5	50	682	2.521	180	0.62	55.3
420V	420	0.82	332.7	50	694	2.477	180	0.56	54.1

Locked Rotor Test:

Un (V)	Ik (A)	Pk(W)	Tk (Nm)	cosφ
400/230	2.374	1169	5.545	0.71

Temperature Rise:

Amb. Temperature:	10.3	[°C]	Winding temperature rise:	41.7	[K]
Cold Resistance:	81.4	[Ω]	Frame:	11	[°C]
Hot Resistance:	94.8	[Ω]	Bearing:	13.6	[°C]

Torque And Current:

Locked Rotor Tor./Rated Tor.:	2.23	Breakdown Torque/Rated Torque:	2.48
Locked Rotor Cur./Rated Cur.:	2.91	Pullup Torque/Rated Torque:	2.02

Check: Zhang Kai	Operator: Chen Zhongliang	Test Date: 05/Jul/11
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