



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 801-6

TR Number: 2011070401

Test Lab: Techtop factory

Nameplate:

Type:	TAI 801-6	Duty:	S1	IP:	55	
Serial No:	201103096013	Ins.Cl:	F	KG:	7.8	
Voltage	Hz	kW	A	cos fi	r/min	Eff. [%]
230/400	50	0.37	2.30/1.32	0.66	900	61.2
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	360	0.95	99	50	1000	0.0	0	0.17	0.0
No load	400	1.28	169	50	1000	0.0	0	0.19	0.0
No load	440	1.76	301	50	1000	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	1.20	265	50	979	0.903	93	0.32	35.0
0.5	400	1.21	363	50	965	1.831	185	0.43	50.9
0.75	400	1.23	472	50	942	2.814	278	0.55	58.8
1	400	1.32	605	50	909	3.886	370	0.66	61.2
1.25	400	1.51	783	50	867	5.093	463	0.75	59.1
1.5	400	1.86	1039	50	816	6.499	555	0.81	53.4

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	1.35	611.6	50	890	3.970	370	0.69	60.5
420V	420	1.33	607.6	50	910	3.883	370	0.63	60.9

Locked Rotor Test:

Un (V)	Ik (A)	Pk(W)	Tk (Nm)	cosφ
400/230	4.19	2083	7.639	0.72

Temperature Rise:

Amb. Temperature:	10.2	[°C]	Winding temperature rise:	71.4	[K]
Cold Resistance:	45.1	[Ω]	Frame:	9.6	[°C]
Hot Resistance:	57.7	[Ω]	Bearing:	11.8	[°C]

Torque And Current:

Locked Rotor Tor./Rated Tor.:	1.97	Breakdown Torque/Rated Torque:	2.27
Locked Rotor Cur./Rated Cur.:	3.18	Pullup Torque/Rated Torque:	1.89

Check: Zhang Kai	Operator: Chen Zhongliang	Test Date: 04/Jul/11
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