



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 802-6

TR Number: 2011070402

Test Lab: Techtop factory

Nameplate:

Type:	TAI 802-6	Duty:	S1	IP:	55	
Serial No:	201103096014	Ins.Cl:	F	KG:	9.1	
Voltage	Hz	kW	A	cos fi	r/min	Eff. [%]
230/400	50	0.55	3.22/1.85	0.65	900	65.8
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	1.27	108	50	1000	0.0	0	0.14	0.0
No load	400	1.74	187	50	1000	0.0	0	0.16	0.0
No load	440	2.46	352	50	1000	0.0	0	0.19	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	1.65	331	50	979	1.341	138	0.29	41.6
0.5	400	1.66	477	50	965	2.723	275	0.42	57.6
0.75	400	1.71	640	50	941	4.187	413	0.54	64.4
1	400	1.85	836	50	908	5.786	550	0.65	65.8
1.25	400	2.14	1088	50	865	7.589	688	0.73	63.2
1.5	400	2.62	1434	50	813	9.689	825	0.79	57.5

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	1.91	852.7	50	885	5.935	550	0.68	64.5
420V	420	1.85	835.9	50	910	5.772	550	0.62	65.8

Locked Rotor Test:

Un (V)	Ik (A)	Pk(W)	Tk (Nm)	cosφ
400/230	6.409	3057	12.53	0.69

Temperature Rise:

Amb. Temperature:	10.5	[°C]	Winding temperature rise:	80.8	[K]
Cold Resistance:	26.6	[Ω]	Frame:	11.5	[°C]
Hot Resistance:	35.0	[Ω]	Bearing:	13.5	[°C]

Torque And Current:

Locked Rotor Tor./Rated Tor.:	2.17	Breakdown Torque/Rated Torque:	2.34
Locked Rotor Cur./Rated Cur.:	3.46	Pullup Torque/Rated Torque:	1.98

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