



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 801-4

TR Number: 2011102201

Test Lab: Techtopy factory

Nameplate:

Type:	TAI 801-4	Duty:	S1	IP:	55	
Serial No:	201107053007	Ins.Cl:	F	KG:	8.3	
Voltage	Hz	kW	A	cos fi	r/min	Eff. [%]
230/400	50	0.55	2.84/1.63	0.68	1410	71.5
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	1.01	75	50	1500	0.0	0	0.12	0.0
No load	400	1.4	128	50	1500	0.0	0	0.13	0.0
No load	440	2	240	50	1500	0.0	0	0.16	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	1.36	281	50	1479	0.888	138	0.30	49.0
0.5	400	1.39	428	50	1462	1.797	275	0.45	64.3
0.75	400	1.47	588	50	1439	2.737	413	0.58	70.1
1	400	1.63	769	50	1412	3.719	550	0.68	71.5
1.25	400	1.87	976	50	1381	4.756	688	0.76	70.4
1.5	400	2.19	1222	50	1344	5.863	825	0.80	67.5

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	1.63	774.6	50	1400	3.752	550	0.72	71.0
420V	420	1.63	771.4	50	1420	3.699	550	0.65	71.3

Locked Rotor Test:

Un (V)	Ik (A)	Pk(W)	Tk (Nm)	cosφ
400/230	7.308	3650	8.656	0.72

Temperature Rise:

Amb. Temperature:	9.7	[°C]	Winding temperature rise:	69.8	[K]
Cold Resistance:	25.7	[Ω]	Frame:	10.2	[°C]
Hot Resistance:	33.0	[Ω]	Bearing:	12.5	[°C]

Torque And Current:

Locked Rotor Tor./Rated Tor.:	2.33	Breakdown Torque/Rated Torque:	2.59
Locked Rotor Cur./Rated Cur.:	4.49	Pullup Torque/Rated Torque:	1.9

Check: Zhang Kai	Operator: Chen Zhongliang	Test Date: 22/Oct/11
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