



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 802-2
TR Number: 2012111002
Test Lab: Techtop factory

Comments: *This test report is also applicable for TCI 802-2 1.1kW*

Nameplate:

Type:	TAI 802-2	Duty:	S1	IP:	55	
Serial No:	201208015014	Ins.Cl:	F	KG:	10.4	
Voltage	Hz	kW	A	cos fi	r/min	Eff.[%]
230/400	50	1.1	4.16/2.39	0.82	2880	80.9
Brg.DE:	6204ZZ	Brg.NDE:	6204ZZ			

No Load Test:

	Voltage [V]	Current [A]	Input [W]	Freq. [Hz]	Speed [min ⁻¹]	Torque [Nm]	Output [W]	Power Factor	Eff. [%]
No load	360	0.99	78	50	3000	0.0	0	0.13	0.0
No load	400	1.52	116	50	3000	0.0	0	0.11	0.0
No load	440	2.38	201	50	3000	0.0	0	0.11	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	1.53	401	50	2973	0.9	275	0.38	68.6
0.5	400	1.70	698	50	2949	1.8	550	0.59	78.8
0.75	400	1.98	1014	50	2920	2.7	825	0.74	81.3
1	400	2.38	1355	50	2887	3.6	1100	0.82	81.2
1.25	400	2.87	1727	50	2850	4.6	1375	0.87	79.6
1.5	400	3.44	2137	50	2807	5.6	1650	0.90	77.2

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	2.36	1351	50	2870	3.7	1100	0.87	81.4
420V	420	2.49	1369	50	2885	3.6	1100	0.76	80.4

Locked Rotor Test:

Un (V)	Ik (A)	Pk(W)	Tk (Nm)	cosφ
400/230	18	9855	10.43	0.79

Temperature Rise:

Amb.Temperature:	12	[°C]	Winding temperature rise:	56.5	[K]
Cold Resistance:	11.302	[Ω]	Frame:	34.4	[°C]
Hot Resistance:	13.845	[Ω]	Bearing:	37.9	[°C]

Torque And Current:

Locked Rotor Tor./Rated Tor.:	2.83	Breakdown Torque/Rated Torque:	2.85
Locked Rotor Cur./Rated Cur.:	7.58	Pullup Torque/Rated Torque:	1.86

Check: Zhang Kai	Operator: Chen Zhongliang	Test Date: 10/Nov/12
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