



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 802-4
TR Number: 2012071501
Test Lab: Techtop factory

Comments: *This test report is also applicable for TCI 802-4 0.75kW*

Nameplate:

Type:	TAI 802-4		Duty:	S1		IP:	55	
Serial No:	201204078040		Ins.Cl:	F		KG:	10.5	
Voltage	Hz	kW	A	cos fi	r/min	Eff.[%]		
230/400	50	0.75	3.37/1.94	0.69	1420	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	380	1.21	65	50	1500	0.0	0	0.08	0.0
No load	400	1.39	78	50	1500	0.0	0	0.08	0.0
No load	420	1.61	98	50	1500	0.0	0	0.08	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	1.39	271	50	1482	1.2	188	0.28	69.3
0.5	400	1.49	473	50	1465	2.4	375	0.46	79.2
0.75	400	1.67	690	50	1444	3.7	563	0.60	81.5
1	400	1.93	925	50	1420	5.0	750	0.69	81.1
1.25	400	2.27	1184	50	1392	6.4	938	0.75	79.2
1.5	400	2.69	1474	50	1361	7.9	1125	0.79	76.3

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	930	50	1407	5.1	750	0.74	80.7
420V	420	2.00	930	50	1429	5.0	750	0.64	80.6

Locked Rotor Test:

Un (V)	Ik (A)	Pk(W)	Tk (Nm)	cosφ
400/230	10.62	4978	15.27	0.68

Temperature Rise:

Amb.Temperature:	28.9	[°C]	Winding temperature rise:	50.4	[K]
Cold Resistance:	13.929	[Ω]	Frame:	59.3	[°C]
Hot Resistance:	16.691	[Ω]	Bearing:	62.5	[°C]

Torque And Current:

Locked Rotor Tor./Rated Tor.:	3.03	Breakdown Torque/Rated Torque:	3.1
Locked Rotor Cur./Rated Cur.:	5.50	Pullup Torque/Rated Torque:	2.7

Check: Zhang Kai	Operator: Chen Zhongliang	Test Date: 15/Jul/12
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