



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 801-2
TR Number: 2012111001
Test Lab: Techtop factory

Comments: *This test report is also applicable for TCI 801-2 0.75kW*

Nameplate:

Type:	TAI 801-2	Duty:	S1	IP:	55	
Serial No:	201208015015	Ins.Cl:	F	KG:	9.5	
Voltage	Hz	kW	A	cos fi	r/min	Eff.[%]
230/400	50	0.75	3.06/1.76	0.78	2880	78.9
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	370	0.77	62	50	3000	0.0	0	0.13	0.0
No load	400	1.08	85	50	3000	0.0	0	0.11	0.0
No load	430	1.56	130	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	1.10	280	50	2971	0.6	188	0.37	66.9
0.5	400	1.22	484	50	2947	1.2	375	0.57	77.5
0.75	400	1.43	701	50	2917	1.8	563	0.71	80.2
1	400	1.71	936	50	2883	2.5	750	0.79	80.1
1.25	400	2.06	1193	50	2843	3.1	938	0.84	78.6
1.5	400	2.47	1478	50	2799	3.8	1125	0.86	76.1

Full Load At 380V & 415V

	Voltage [V]	Current [A]	Input [W]	Freq. [Hz]	Speed [min ⁻¹]	Torque [Nm]	Output [W]	Power Factor	Eff. [%]
380V	380	1.70	940	50	2865	2.5	750	0.84	79.8
415V	415	1.78	945	50	2894	2.5	750	0.74	79.4

Locked Rotor Test:

Un (V)	Ik (A)	Pk(W)	Tk (Nm)	cosφ
400/230	11.73	6000	7.036	0.74

Temperature Rise:

Amb.Temperature:	17.6	[°C]	Winding temperature rise:	45.8	[K]
Cold Resistance:	15.821	[Ω]	Frame:	26.8	[°C]
Hot Resistance:	18.495	[Ω]	Bearing:	29.9	[°C]

Torque And Current:

Locked Rotor Tor./Rated Tor.:	2.92	Breakdown Torque/Rated Torque:	3.02
Locked Rotor Cur./Rated Cur.:	6.87	Pullup Torque/Rated Torque:	1.96

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