



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 100L1-8
TR Number: 2012111302
Test Lab: Techtop factory

Comments: *This test report is also applicable for TCI 100L1-8 0.75kW*

Nameplate:

Type:	TAI 100L1-8		Duty:	S1	IP:	55
Serial No:	201208015019		Ins.Cl:	F	KG:	21
Voltage	Hz	kW	A	cos fi	r/min	Eff.[%]
230/400	50	0.75	3.84/2.21	0.68	690	72.0
Brg.DE:	6206ZZ		Brg.NDE:	6206ZZ		

No Load Test:

	Voltage [V]	Current [A]	Input [W]	Freq. [Hz]	Speed [min ⁻¹]	Torque [Nm]	Output [W]	Power Factor	Eff. [%]
No load	360	1.36	94	50	750	0.0	0	0.11	0.0
No load	400	1.67	131	50	750	0.0	0	0.11	0.0
No load	440	2.13	196	50	750	0.0	0	0.12	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	1.63	327	50	735	2.4	188	0.29	57.3
0.5	400	1.74	537	50	727	4.9	375	0.45	69.8
0.75	400	1.90	767	50	712	7.5	563	0.58	73.3
1	400	2.19	1037	50	690	10.4	750	0.68	72.3
1.25	400	2.67	1377	50	660	13.6	938	0.74	68.1
1.5	400	3.41	1839	50	623	17.2	1125	0.78	61.2

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	2.19	1053	50	677	10.6	750	0.73	71.2
420V	420	2.25	1037	50	699	10.2	750	0.63	72.3

Locked Rotor Test:

Un (V)	Ik (A)	Pk(W)	Tk (Nm)	cosφ
400/230	7.948	3423	18.35	0.62

Temperature Rise:

Amb.Temperature:	13.9	[°C]	Winding temperature rise:	54.7	[K]
Cold Resistance:	18.958	[Ω]	Frame:	48.4	[°C]
Hot Resistance:	23.470	[Ω]	Bearing:	51.3	[°C]

Torque And Current:

Locked Rotor Tor./Rated Tor.:	1.77	Breakdown Torque/Rated Torque:	2.13
Locked Rotor Cur./Rated Cur.:	3.63	Pullup Torque/Rated Torque:	1.75

Check: Zhang Kai	Operator: Chen Zhongliang	Test Date: 13-Nov-12
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