



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 100L2-8
TR Number: 2012111401
Test Lab: Techtop factory

Comments: *This test report is also applicable for TCI 100L2-8 1.1kW*

Nameplate:

Type:	TAI 100L2-8		Duty:	S1	IP:	55
Serial No:	201208015020		Ins.Cl:	F	KG:	25
Voltage	Hz	kW	A	cos fi	r/min	Eff.[%]
230/400	50	1.1	5.51/3.17	0.67	690	74.8
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	1.93	121	50	750	0.0	0	0.10	0.0
No load	400	2.39	170	50	750	0.0	0	0.10	0.0
No load	440	3.13	263	50	750	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	2.28	453	50	732	3.6	275	0.29	60.8
0.5	400	2.50	764	50	726	7.2	550	0.44	72.0
0.75	400	2.76	1097	50	714	11.0	825	0.57	75.2
1	400	3.17	1471	50	696	15.1	1100	0.67	74.8
1.25	400	3.78	1929	50	671	19.6	1375	0.74	71.3
1.5	400	4.69	2511	50	641	24.6	1650	0.77	65.7

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	3.15	1491	50	685	15.3	1100	0.72	73.8
420V	420	3.26	1486	50	702	15.0	1100	0.63	74.0

Locked Rotor Test:

Un (V)	Ik (A)	Pk(W)	Tk (Nm)	cosφ
400/230	12.33	5328	30.67	0.62

Temperature Rise:

Amb.Temperature:	14.1	[°C]	Winding temperature rise:	67.5	[K]
Cold Resistance:	11.447	[Ω]	Frame:	57.9	[°C]
Hot Resistance:	14.626	[Ω]	Bearing:	61.2	[°C]

Torque And Current:

Locked Rotor Tor./Rated Tor.:	1.98	Breakdown Torque/Rated Torque:	2.3
Locked Rotor Cur./Rated Cur.:	3.90	Pullup Torque/Rated Torque:	1.92

Check: Zhang Kai	Operator: Chen Zhongliang	Test Date: 14-Nov-12
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