



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 100L-6
TR Number: 2012072002
Test Lab: Techtop factory

Comments: *This test report is also applicable for TCI 100L-6 1.5kW*

Nameplate:

Type:	TAI 100L-6		Duty:	S1	IP:	55
Serial No:	201204078047		Ins.Cl:	F	KG:	20
Voltage	Hz	kW	A	cos fi	r/min	Eff.[%]
230/400	50	1.5	6.45/3.71	0.73	945	80.0
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	1.63	82	50	1000	0.0	0	0.08	0.0
No load	400	2.19	114	50	1000	0.0	0	0.08	0.0
No load	440	2.98	176	50	1000	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	2.13	503	50	988	3.6	375	0.34	74.5
0.5	400	2.49	921	50	980	7.3	750	0.53	81.5
0.75	400	2.98	1371	50	966	11.1	1125	0.66	82.0
1	400	3.66	1874	50	949	15.1	1500	0.74	80.1
1.25	400	4.56	2453	50	927	19.3	1875	0.78	76.4
1.5	400	5.74	3146	50	901	23.9	2250	0.79	71.5

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	3.73	1911	50	937	15.3	1500	0.78	78.5
420V	420	3.66	1858	50	956	15.0	1500	0.70	80.7

Locked Rotor Test:

Un (V)	Ik (A)	Pk(W)	Tk (Nm)	cosφ
400/230	17.28	6987	26.02	0.58

Temperature Rise:

Amb.Temperature:	28.1	[°C]	Winding temperature rise:	56.3	[K]
Cold Resistance:	8.364	[Ω]	Frame:	58.8	[°C]
Hot Resistance:	10.147	[Ω]	Bearing:	61.5	[°C]

Torque And Current:

Locked Rotor Tor./Rated Tor.:	1.72	Breakdown Torque/Rated Torque:	2.25
Locked Rotor Cur./Rated Cur.:	4.72	Pullup Torque/Rated Torque:	1.61

Check: Zhang Kai	Operator: Chen Zhongliang	Test Date: 20-Jul-12
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