



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 132M1-6
TR Number: 2012112001
Test Lab: Techtop factory

Comments: *This test report is also applicable for TCI 132M1-6 4kW*

Nameplate:

Type:	TAI 132M1-6		Duty:	S1	IP:	55
Serial No:	2012080150128		Ins.Cl:	F	KG:	52
Voltage	Hz	kW	A	cos φ	r/min	Eff.[%]
400/690	50	4	9.21/5.34	0.74	960	84.7
Brg.DE:	6308ZZ		Brg.NDE:	6308ZZ		

No Load Test:

	Voltage [V]	Current [A]	Input [W]	Freq. [Hz]	Speed [min ⁻¹]	Torque [Nm]	Output [W]	Power Factor	Eff. [%]
No load	360	3.73	188	50	1000	0.0	0	0.08	0.0
No load	400	4.63	238	50	1000	0.0	0	0.07	0.0
No load	440	6.29	340	50	1000	0.0	0	0.07	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	5.01	1277	50	992	9.6	1000	0.37	78.3
0.5	400	6.06	2361	50	985	19.4	2000	0.56	84.7
0.75	400	7.46	3507	50	976	29.4	3000	0.68	85.6
1	400	9.22	4725	50	965	39.6	4000	0.74	84.7
1.25	400	11.33	6063	50	952	50.2	5000	0.77	82.5
1.5	400	13.79	7256	50	937	61.1	6000	0.76	82.7

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	9.53	4808	50	957	39.9	4000	0.77	83.2
420V	420	9.21	4716	50	968	39.5	4000	0.70	84.8

Locked Rotor Test:

Un (V)	Ik (A)	Pk(W)	Tk (Nm)	cosφ
400/690	53.79	1972	80.27	0.53

Temperature Rise:

Amb.Temperature:	11	[°C]	Winding temperature rise:	64.9	[K]
Cold Resistance:	2.050	[Ω]	Frame:	37.3	[°C]
Hot Resistance:	2.588	[Ω]	Bearing:	40.8	[°C]

Torque And Current:

Locked Rotor Tor./Rated Tor.:	2.00	Breakdown Torque/Rated Torque:	2.57
Locked Rotor Cur./Rated Cur.:	5.83	Pullup Torque/Rated Torque:	1.65

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