



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 132M-8
TR Number: 2012112201
Test Lab: Techtop factory

Comments: *This test report is also applicable for TCI 132M-8 3kW*

Nameplate:

Type:	TAI 132M-8		Duty:	S1	IP:	55
Serial No:	2012080150131		Ins.Cl:	F	KG:	
Voltage	Hz	kW	A	cos fi	r/min	Eff.[%]
230/400	50	3	13.57/7.8	0.68	715	81.6
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	4.41	205	50	750	0.0	0	0.07	0.0
No load	400	5.21	265	50	750	0.0	0	0.07	0.0
No load	440	6.32	356	50	750	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	5.19	1041	50	743	9.6	750	0.29	72.1
0.5	400	5.66	1850	50	736	19.5	1500	0.47	81.1
0.75	400	6.44	2707	50	728	29.5	2250	0.61	83.1
1	400	7.51	3627	50	719	39.9	3000	0.70	82.7
1.25	400	8.86	4627	50	708	50.6	3750	0.75	81.0
1.5	400	10.49	5728	50	696	61.8	4500	0.79	78.6

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	7.55	3660	50	713	40.2	3000	0.74	82.0
420V	420	7.58	3626	50	722	39.7	3000	0.66	82.7

Locked Rotor Test:

Un (V)	Ik (A)	Pk(W)	Tk (Nm)	cosφ
400/230	39.77	16459	91.83	0.60

Temperature Rise:

Amb.Temperature:	15.7	[°C]	Winding temperature rise:	61.4	[K]
Cold Resistance:	3.307	[Ω]	Frame:	57.1	[°C]
Hot Resistance:	4.219	[Ω]	Bearing:	60.5	[°C]

Torque And Current:

Locked Rotor Tor./Rated Tor.:	2.31	Breakdown Torque/Rated Torque:	2.74
Locked Rotor Cur./Rated Cur.:	5.29	Pullup Torque/Rated Torque:	2.03

Check: Zhang Kai	Operator: Chen Zhongliang	Test Date: 22-Nov-12
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