



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 132S1-2
TR Number: 2012111801
Test Lab: Techtop factory

Comments: *This test report is also applicable for TCI 132S1-2 5.5kW*

Nameplate:

Type:	TAI 132S1-2		Duty:	S1	IP:	55
Serial No:	2012080150124		Ins.Cl:	F	KG:	45.4
Voltage	Hz	kW	A	cos fi	r/min	Eff.[%]
400/690	50	5.5	10.31/5.98	0.88	2910	87.5
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	380	3.34	256	50	3000	0.0	0	0.12	0.0
No load	400	3.75	282	50	3000	0.0	0	0.11	0.0
No load	420	4.42	310	50	3000	0.0	0	0.10	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	4.41	1688	50	2981	4.4	1375	0.55	81.5
0.5	400	5.99	3148	50	2962	8.9	2750	0.76	87.3
0.75	400	7.94	4669	50	2940	13.4	4125	0.85	88.3
1	400	10.20	6263	50	2916	18.0	5500	0.89	87.8
1.25	400	12.70	7940	50	2890	22.7	6875	0.90	86.6
1.5	400	15.38	9713	50	2862	27.5	8250	0.91	84.9

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	10.62	6309	50	2905	18.1	5500	0.90	87.2
420V	420	9.97	6235	50	2928	17.9	5500	0.86	88.2

Locked Rotor Test:

Un (V)	Ik (A)	Pk(W)	Tk (Nm)	cosφ
400/690	83.93	33121	43.97	0.57

Temperature Rise:

Amb.Temperature:	17.6	[°C]	Winding temperature rise:	64.5	[K]
Cold Resistance:	1.377	[Ω]	Frame:	42.6	[°C]
Hot Resistance:	1.757	[Ω]	Bearing:	45.9	[°C]

Torque And Current:

Locked Rotor Tor./Rated Tor.:	2.44	Breakdown Torque/Rated Torque:	3.43
Locked Rotor Cur./Rated Cur.:	8.23	Pullup Torque/Rated Torque:	1.95

Check: Zhang Kai	Operator: Chen Zhongliang	Test Date: 18-Nov-12
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