



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-4
TR Number: 2012111902
Test Lab: Techtop factory

Comments: *This test report is also applicable for TCI 132M-4 7.5kW*

Nameplate:

Type:	TAI 132M-4		Duty:	S1	IP:	55
Serial No:	201208015017		Ins.Cl:	F	KG:	62.3
Voltage	Hz	kW	A	cos fi	r/min	Eff.[%]
400/690	50	7.5	14.26/8.27	0.85	1450	89.3
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	4.85	239	50	1500	0.0	0	0.07	0.0
No load	400	5.33	267	50	1500	0.0	0	0.07	0.0
No load	415	5.78	291	50	1500	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	6.10	2180	50	1490	12.2	1875	0.52	86.0
0.5	400	8.26	4162	50	1480	24.4	3750	0.73	90.1
0.75	400	10.98	6221	50	1469	36.8	5625	0.82	90.4
1	400	14.18	8378	50	1456	49.4	7500	0.85	89.5
1.25	400	17.76	10650	50	1442	62.3	9375	0.87	88.0
1.5	400	21.65	13056	50	1427	75.6	11250	0.87	86.2

Full Load At 380V & 415V

	Voltage [V]	Current [A]	Input [W]	Freq. [Hz]	Speed [min ⁻¹]	Torque [Nm]	Output [W]	Power Factor	Eff. [%]
380V	380	14.77	8444	50	1449	49.4	7500	0.87	88.8
415V	415	13.81	8342	50	1460	49.1	7500	0.84	89.9

Locked Rotor Test:

Un (V)	Ik (A)	Pk(W)	Tk (Nm)	cosφ
400/690	116.7	40565	147.7	0.50

Temperature Rise:

Amb.Temperature:	13.6	[°C]	Winding temperature rise:	53	[K]
Cold Resistance:	0.852	[Ω]	Frame:	44.8	[°C]
Hot Resistance:	1.056	[Ω]	Bearing:	47.9	[°C]

Torque And Current:

Locked Rotor Tor./Rated Tor.:	2.99	Breakdown Torque/Rated Torque:	2.95
Locked Rotor Cur./Rated Cur.:	8.23	Pullup Torque/Rated Torque:	1.17

Check: Zhang Kai	Operator: Chen Zhongliang	Test Date: 19-Nov-12
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