



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 562-4

TR Number: 2011101902

Test Lab: Techtom factory

Nameplate:

Type:	TAI 562-4		Duty:	S1		IP:	55	
Serial No:	201107053002		Ins.Cl:	F		KG:	3.2	
Voltage	Hz	kW	A	cos fi	r/min	Eff. [%]		
230/400	50	0.09	0.72/0.41	0.6	1375	52.6		
Brg.DE:	6201 RZ		Brg.NDE:	6201 RZ				

No Load Test:

	Voltage [V]	Current [A]	Input [W]	Freq. [Hz]	Speed [min ⁻¹]	Torque [Nm]	Output [W]	Power Factor	Eff. [%]
No load	380	0.340	48	50	1500	0.0	0	0.21	0.0
No load	400	0.380	56	50	1500	0.0	0	0.21	0.0
No load	420	0.420	68	50	1500	0.0	0	0.22	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	0.374	85	50	1467	0.146	23	0.33	26.4
0.5	400	0.379	110	50	1443	0.298	45	0.42	40.8
0.75	400	0.392	139	50	1413	0.456	68	0.51	48.7
1	400	0.415	171	50	1377	0.624	90	0.60	52.6
1.25	400	0.449	209	50	1335	0.805	113	0.67	53.8
1.5	400	0.497	255	50	1287	1.002	135	0.74	52.9

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	0.41	170.5	50	1340	0.625	90	0.63	52.8
420V	420	0.43	174.1	50	1390	0.618	90	0.56	51.7

Locked Rotor Test:

Un (V)	Ik (A)	Pk(W)	Tk (Nm)	cosφ
400/230	1.307	765.9	1.781	0.85

Temperature Rise:

Amb. Temperature:	12.5	[°C]	Winding temperature rise:	50.3	[K]
Cold Resistance:	172.5	[Ω]	Frame:	11.4	[°C]
Hot Resistance:	205.4	[Ω]	Bearing:	13.9	[°C]

Torque And Current:

Locked Rotor Tor./Rated Tor.:	2.85	Breakdown Torque/Rated Torque:	2.8
Locked Rotor Cur./Rated Cur.:	3.15	Pullup Torque/Rated Torque:	2.59

Check: Zhang Kai	Operator: Chen Zhongliang	Test Date: 19/Oct/11
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