



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 632-4

TR Number: 2011102002

Test Lab: Techtop factory

Nameplate:

Type:	TAI 632-4	Duty:	S1	IP:	55	
Serial No:	201107053004	Ins.Cl:	F	KG:	3.7	
Voltage	Hz	kW	A	cos fi	r/min	Eff. [%]
230/400	50	0.18	1.17/0.67	0.68	1275	56.8
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	0.50	54	50	1500	0.0	0	0.16	0.0
No load	400	0.54	64	50	1500	0.0	0	0.17	0.0
No load	420	0.6	77	50	1500	0.0	0	0.18	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	0.54	119	50	1455	0.295	45	0.32	37.8
0.5	400	0.56	172	50	1417	0.607	90	0.45	52.2
0.75	400	0.60	235	50	1358	0.950	135	0.57	57.3
1	400	0.67	317	50	1277	1.346	180	0.68	56.8
1.25	400	0.80	430	50	1175	1.829	225	0.78	52.3
1.5	400	1.00	599	50	1051	2.453	270	0.87	45.1

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	0.68	320.8	50	1250	1.375	180	0.72	56.1
420V	420	0.67	318.5	50	1300	1.322	180	0.65	56.5

Locked Rotor Test:

Un (V)	Ik (A)	Pk(W)	Tk (Nm)	cosφ
400/230	1.941	1101	3.156	0.82

Temperature Rise:

Amb. Temperature:	25	[°C]	Winding temperature rise:	58.9	[K]
Cold Resistance:	100.9	[Ω]	Frame:	26.9	[°C]
Hot Resistance:	126.8	[Ω]	Bearing:	28.5	[°C]

Torque And Current:

Locked Rotor Tor./Rated Tor.:	2.34	Breakdown Torque/Rated Torque:	2.28
Locked Rotor Cur./Rated Cur.:	2.88	Pullup Torque/Rated Torque:	2.17

Check: Zhang Kai	Operator: Chen Zhongliang	Test Date: 20/Oct/11
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