



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 632-2

TR Number: 2011062902

Test Lab: Techtop factory

Nameplate:

Type:	TAI 632-2	Duty:	S1	IP:	55	
Serial No:	201103096004	Ins.Cl:	F	KG:	4.2	
Voltage	Hz	kW	A	cos fi	r/min	Eff. [%]
230/400	50	0.25	1.23/0.71	0.78	2715	65.6
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	0.52	63	50	3000	0.0	0	0.18	0.0
No load	400	0.63	84	50	3000	0.0	0	0.19	0.0
No load	420	0.76	113	50	3000	0.0	0	0.20	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	0.59	148	50	2922	0.204	63	0.36	42.2
0.5	400	0.60	216	50	2879	0.415	125	0.52	58.0
0.75	400	0.63	291	50	2810	0.637	188	0.67	64.4
1	400	0.70	381	50	2716	0.879	250	0.78	65.6
1.25	400	0.83	495	50	2597	1.148	312	0.86	63.0
1.5	400	1.04	648	50	2451	1.461	375	0.90	57.9

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	0.72	387.6	50	2678	0.892	250	0.82	64.5
420V	420	0.70	382.8	50	2742	0.871	250	0.75	65.3

Locked Rotor Test:

Un (V)	Ik (A)	Pk(W)	Tk (Nm)	cosφ
400/230	2.773	1727	2.378	0.90

Temperature Rise:

Amb. Temperature:	30.5	[°C]	Winding temperature rise:	55.3	[K]
Cold Resistance:	78.2	[Ω]	Frame:	31.4	[°C]
Hot Resistance:	94.6	[Ω]	Bearing:	34.1	[°C]

Torque And Current:

Locked Rotor Tor./Rated Tor.:	2.71	Breakdown Torque/Rated Torque:	2.32
Locked Rotor Cur./Rated Cur.:	3.94	Pullup Torque/Rated Torque:	1.96

Check: Zhang Kai	Operator: Chen Zhongliang	Test Date: 29/Jun/11
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