



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 561-4

TR Number: 2011101901

Test Lab: Techtop factory

Nameplate:

Type:	TAI 561-4	Duty:	S1	IP:	55	
Serial No:	201107053001	Ins.Cl:	F	KG:	2.9	
Voltage	Hz	kW	A	cos fi	r/min	Eff. [%]
230/400	50	0.06	0.53/0.30	0.56	1370	50.9
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	0.250	35	50	1500	0.0	0	0.21	0.0
No load	400	0.280	41	50	1500	0.0	0	0.21	0.0
No load	420	0.310	49	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	0.277	61	50	1465	0.098	15	0.32	24.5
0.5	400	0.280	78	50	1440	0.199	30	0.40	38.5
0.75	400	0.288	97	50	1410	0.305	45	0.48	46.6
1	400	0.301	118	50	1375	0.417	60	0.56	50.9
1.25	400	0.322	143	50	1335	0.536	75	0.64	52.6
1.5	400	0.350	172	50	1291	0.666	90	0.71	52.4

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	0.30	118.1	50	1330	0.431	60	0.60	50.8
420V	420	0.31	113.2	50	1380	0.415	60	0.53	49.8

Locked Rotor Test:

Un (V)	Ik (A)	Pk(W)	Tk (Nm)	cosφ
400/230	0.9476	551.9	1.333	0.84

Temperature Rise:

Amb. Temperature:	12.5	[°C]	Winding temperature rise:	36.7	[K]
Cold Resistance:	238.0	[Ω]	Frame:	12.7	[°C]
Hot Resistance:	272.3	[Ω]	Bearing:	14.9	[°C]

Torque And Current:

Locked Rotor Tor./Rated Tor.:	3.20	Breakdown Torque/Rated Torque:	3.19
Locked Rotor Cur./Rated Cur.:	3.14	Pullup Torque/Rated Torque:	3.02

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