



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 200L2-6
TR Number: 2013031302
Test Lab: Techtop factory

Nameplate:

Type:	TAI 200L2-6		Duty:	S1	IP:	55
Serial No:	201301016020		Ins.Cl:	F	KG:	
Voltage	Hz	kW	A	cos fi	r/min	Eff.[%]
400/690	50	22	42.6/24.7	0.82	980	91.0
Brg.DE:	6312 RZ		Brg.NDE:	6212 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	16.62	687	50	1000	0.0	0	0.06	0.0
No load	400	18.85	774	50	1000	0.0	0	0.06	0.0
No load	420	21.78	984	50	1000	0.0	0	0.06	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	20.80	6370	50	996	52.7	5500	0.44	86.3
0.5	400	26.06	12073	50	993	105.8	11000	0.67	91.1
0.75	400	33.24	17923	50	989	159.4	16500	0.78	92.1
1	400	41.79	23946	50	984	213.5	22000	0.83	91.9
1.25	400	51.14	30152	50	979	268.1	27500	0.85	91.2
1.5	400	60.74	36541	50	974	323.4	33000	0.87	90.3

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	43.38	24220	50	978	214.7	22000	0.85	90.8
420V	420	42.02	24150	50	983	213.6	22000	0.79	91.1

Locked Rotor Test:

Un (V)	Ik (A)	Pk(W)	Tk (Nm)	cosφ
400/690	430.7	153436	681.4	0.51

Temperature Rise:

Amb. Temperature:	30.7	[°C]	Winding temperature rise:	81.5	[K]
Cold Resistance:	0.236	[Ω]	Frame:	103.1	[°C]
Hot Resistance:	0.307	[Ω]	Bearing:	104.5	[°C]

Torque And Current:

Locked Rotor Tor./Rated Tor.: 3.13	Breakdown Torque/Rated Torque: 3.42
Locked Rotor Cur./Rated Cur.: 10.31	Pullup Torque/Rated Torque: 1.56

Check: Zhang Kai	Operator: Li Jian	Test Date: 13-Mar-13
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