



Type Test Report

Motor tested in accordance with IEC60034-2-1 & AS/NZS1359.102.3.Efficiency as per IEC60034-2-1
(PL.L determined from residual loss)

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Type: TAI 200L1-6
TR Number: 2013031301
Test Lab: Techtop factory

Nameplate:

Type:	TAI 200L1-6		Duty:	S1	IP:	55
Serial No:	201301016019		Ins.Cl:	F	KG:	149
Voltage	Hz	kW	A	cos fi	r/min	Eff.[%]
400/690	50	18.5	36.9/21.4	0.8	980	90.5
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	16.24	638	50	1000	0.0	0	0.06	0.0
No load	400	18.56	771	50	1000	0.0	0	0.06	0.0
No load	420	21.78	1002	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	19.81	5471	50	996	44.3	4625	0.40	84.5
0.5	400	23.93	10277	50	993	89.0	9250	0.62	90.0
0.75	400	29.56	15206	50	989	134.0	13875	0.74	91.2
1	400	36.36	20279	50	985	179.4	18500	0.81	91.2
1.25	400	43.99	25511	50	981	225.2	23125	0.84	90.6
1.5	400	52.12	30909	50	976	271.5	27750	0.86	89.8

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	36.96	20330	50	981	180.2	18500	0.84	91.0
420V	420	36.46	20340	50	985	179.4	18500	0.77	91.0

Locked Rotor Test:

Un (V)	Ik (A)	Pk(W)	Tk (Nm)	cosφ
400/690	310	103725	377.1	0.48

Temperature Rise:

Amb. Temperature:	31.1	[°C]	Winding temperature rise:	76.5	[K]
Cold Resistance:	0.284	[Ω]	Frame:	105.4	[°C]
Hot Resistance:	0.369	[Ω]	Bearing:	109.1	[°C]

Torque And Current:

Locked Rotor Tor./Rated Tor.: 2.07	Breakdown Torque/Rated Torque: 3.2
Locked Rotor Cur./Rated Cur.: 8.53	Pullup Torque/Rated Torque: 1.39

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