



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 200L2-2
TR Number: 2013031201
Test Lab: Techtop factory

Nameplate:

Type:	TAI 200L2-2		Duty:	S1	IP:	55
Serial No:	201301016017		Ins.Cl:	F	KG:	181.3
Voltage	Hz	kW	A	cos fi	r/min	Eff.[%]
400/690	50	37	63.7/36.9	0.91	2950	92.1
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	370	15.12	1514	50	3000	0.0	0	0.16	0.0
No load	400	17.77	1641	50	3000	0.0	0	0.13	0.0
No load	440	24.20	1937	50	3000	0.0	0	0.11	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	23.82	10998	50	2990	29.5	9250	0.67	84.1
0.5	400	35.59	20527	50	2980	59.3	18500	0.83	90.1
0.75	400	49.00	30242	50	2969	89.3	27750	0.89	91.8
1	400	63.63	40167	50	2958	119.5	37000	0.91	92.1
1.25	400	79.08	50317	50	2946	149.9	46250	0.92	91.9
1.5	400	94.93	60701	50	2933	179.1	55000	0.92	90.6

Full Load At 380V & 420V

	Voltage [V]	Current [A]	Input [kW]	Freq. [Hz]	Speed [min ⁻¹]	Torque [Nm]	Output [kW]	Power Factor	Eff. [%]
380V	380	65.70	40.22	50	2950	119.78	37	0.93	92.0
420V	420	62.05	40.17	50	2965	119.17	37	0.89	92.1

Locked Rotor Test:

Un (V)	Ik (A)	Pk(W)	Tk (Nm)	cosφ
400/690	607.1	183096	345.5	0.44

Temperature Rise:

Amb. Temperature:	8.2	[°C]	Winding temperature rise:	77.1	[K]
Cold Resistance:	0.087	[Ω]	Frame:	6.8	[°C]
Hot Resistance:	0.114	[Ω]	Bearing:	10.1	[°C]

Torque And Current:

Locked Rotor Tor./Rated Tor.: 2.87	Breakdown Torque/Rated Torque: 3.48
Locked Rotor Cur./Rated Cur.: 9.54	Pullup Torque/Rated Torque: 1.34

Check: Zhang Kai	Operator: Li Jian	Test Date: 12-Mar-13
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