



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)

SHANGHAI TOP MOTOR CO., LTD

No.303 Kangliu Road
Kang Qiao Industrial Area
Pudong, Shanghai, China

Ph: 86 15000088129
zk@techtopy.net.cn
www.techtopy.com

Type: TAI 132S-6
TR Number: 2012072102
Test Lab: Techtop factory

Comments: *This test report is also applicable for TCI 132S-6 3kW*

Nameplate:

Type:	TAI 132S-6		Duty:	S1	IP:	55
Serial No:	201204078049		Ins.Cl:	F	KG:	43
Voltage	Hz	kW	A	cos fi	r/min	Eff.[%]
230/400	50	3	11.73/6.42	0.76	960	84.5
Brg.DE:	6308ZZ		Brg.NDE:	6308ZZ		

No Load Test:

	Voltage [V]	Current [A]	Input [W]	Freq. [Hz]	Speed [min ⁻¹]	Torque [Nm]	Output [W]	Power Factor	Eff. [%]
No load	380	3.26	153	50	1000	0.0	0	0.07	0.0
No load	400	3.58	174	50	1000	0.0	0	0.07	0.0
No load	420	4.04	201	50	1000	0.0	0	0.07	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	3.74	942	50	992	7.2	750	0.36	79.6
0.5	400	4.41	1749	50	986	14.5	1500	0.57	85.8
0.75	400	5.39	2599	50	977	22.0	2250	0.70	86.6
1	400	6.65	3509	50	967	29.6	3000	0.76	85.5
1.25	400	8.18	4493	50	955	37.5	3750	0.79	83.5
1.5	400	9.95	5571	50	942	45.6	4500	0.81	80.8

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	6.83	3559	50	961	29.8	3000	0.79	84.3
420V	420	6.59	3498	50	971	29.5	3000	0.73	85.8

Locked Rotor Test:

Un (V)	Ik (A)	Pk(W)	Tk (Nm)	cosφ
400/230	39.95	14679	55.97	0.53

Temperature Rise:

Amb.Temperature:	26.8	[°C]	Winding temperature rise:	53.2	[K]
Cold Resistance:	3.236	[Ω]	Frame:	36.4	[°C]
Hot Resistance:	3.943	[Ω]	Bearing:	39.8	[°C]

Torque And Current:

Locked Rotor Tor./Rated Tor.:	1.88	Breakdown Torque/Rated Torque:	2.58
Locked Rotor Cur./Rated Cur.:	6.01	Pullup Torque/Rated Torque:	1.57

Check: Zhang Kai	Operator: Chen Zhongliang	Test Date: 21-Jul-12
------------------	---------------------------	----------------------