



中国认可  
国际互认  
检测  
TESTING  
CNAS L1061



170908000850



No: ETC2133701Z078

# Special Equipment

## Type Test Report

### (Lifts)

**Classification** : Lift main component

**Varieties** : Drive machine

**Product Name** : Traction machine

**Product Model** : MY05

**Manufacturer** : ZheJiang MATO Drive Equipment Co.,Ltd.

**Applicant** : ZheJiang MATO Drive Equipment Co.,Ltd.

**Category of test** : First verification

**Test Date** : 2021-6-25

Shanghai Jiao Tong University  
Elevator Test Center



## NOTICE

- 1、 The report is the result of the type test according to the “Regulation for type test of elevators”(TSG T7007-2016).
- 2、 The report is printed by computer and will be invalid with any modification.
- 3、 The report will be invalid without the signature of approve、 verify and compile person .It will also be invalid without the certification number、 the official and cross-page stamp of the testing unit.
- 4、 In the entrusted test, we are only responsible for the sample.
- 5、 It is forbidden to copy the report partly without the permission of the testing unit. The partly copied report will be invalid.
- 6、 Any dissent to the report must be put forward to the testing unit within 15 working days from receiving it, otherwise, it is considered that you have accepted the report.
- 7、 The sample will not be handed back because of normal wear, the others will be dealt with according to the regulation concerned.
- 8、 One of the quadruplicated reports is saved by the testing unit,the other three are saved by the applicant.
- 9、 The contact addresses of Shanghai Jiaotong University Elevator Test Center are as follows:

**(1) Dongchuan Road Test Base**

**Room B210, School of Mechanical Engineering, Shanghai Jiaotong University**

**No.800, Dongchuan Road, Minhang District, Shanghai, P.R. China**

**Tel: +86-21-34207035/34207036**

**Fax: +86-21-34207035/34207036-814**

**Zip code: 200240**

**(2) Jindu Road Test Base**

**Room 1001, Comprehensive Building, South Urban Park**

**No.123, lane 1165, Jindu Road, Minhang District, Shanghai, P.R. China**

**Tel : +86-21-61267037**

**Fax : +86-21-61267037 to 812**

**Zip code: 201108**



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## Type Tests Report

No: ETC21B370YZ078

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Classification	Lift main component	Varieties	Drive machine
Product name	Elevator traction machine	Product model	MY05
Product number	M5A1900340	Date of manufacturing	2021.05.15
Applicable product models	/		
Applicant	ZheJiang MATO Drive Equipment Co.,Ltd.		
Registered address of applicant	workshops 1#, building 3, No.2688 West Nianfeng Road, Nanxun District, Huzhou City, Zhejiang Province		
Manufacturer	ZheJiang MATO Drive Equipment Co.,Ltd.		
Registered address of manufacturer	workshops 1#, building 3, No.2688 West Nianfeng Road, Nanxun District, Huzhou City, Zhejiang Province		
Manufacturing address	workshops 1#, building 3, No.2688 West Nianfeng Road, Nanxun District, Huzhou City, Zhejiang Province		
Location of test	Shanghai Jiao Tong University Elevator Test Center		
Status of sample	OK	Test date	2021-06-25
Test conditions	OK	Category of test	First verification
Codes or rules compliant	TSG T7007-2016,GB7588-2003+XG1-2015,EN 81-20:2014, EN 81-50:2014		
Test Conclusion	Passed		
Experimenter: 李吉	Date: 2021-07-02	Approved Certificate serial number: TS7610022-2025 Shanghai Jiao Tong University Elevator Test Center 检验报告专用章 Date of issue: 2021.07.02	
Verifier: 陈坤	Date: 2021/7/02		
Approver: 张明	Date: 2021-07-02		

**1、 Main technical parameter and configuration(1)**

Product name	Traction machine	Product model	MY05	
Environment	Indoor	Overall structure	Cantilever type with two supporting points of output shaft	
Rated speed	3.5 m/s			
Rated output torque	320 N·m	Allowable radial load of driving shaft	1800 kg	
Height of output shaft center	240 mm	Manual emergency operation device	Manual	
Ex class	Non explosion-proof	Ex type	Non explosion-proof	
Motor	Model	MY05	Structure	AC three phase permanent magnet synchronous outter rotor motor
	Rated power	7kW	Rated rotation rate	210 r/min
	Rated voltage	380V	Rated current	16.5A
	Rated frequency	35Hz	Insulation grade	F
	Duty	S5-40%	Protection grade	IP40
	Overload protection mode	Overheat protection	Start times per hour	240 times per hour
	Mark of explosion proof	Non explosion-proof	Manufacturer	ZheJiang MATO Drive Equipment Co.,Ltd.
Reduction gearbox	Structure	Without gearbox	Ratio	Without gearbox
	Reduction series	Without gearbox	Center distance	Without gearbox
	Shaft angle	Without gearbox	Spec of lubricating oil	Without gearbox
	Material of transmission interface	Without gearbox		

**Main technical parameter and configuration(2)**

Driving sheave	Number of grooves	5	Type of grooves	Half circular groove with notch
	Diameter of hoist rope	Φ8mm	Heat treatment of groove surface	Without heat treatment
	Diameter of pitch circle	Φ320mm	Method of wrapping	Single winding
Brake	Model	MEKB	Working place	Brake disk integrate with the traction sheave
	Number, Structure	2, Block	Insulation grade	F
	Rated voltage of electromagnet	Excitation: DC110V	Diameter of brake wheel	420 mm
	Grade of explosion-proof	Non explosion-proof		
Applicable drive system	Speed regulation mode	VVVF	Type of speed controller	Frequency inverter
	Type of speed feedback device	Encoder		



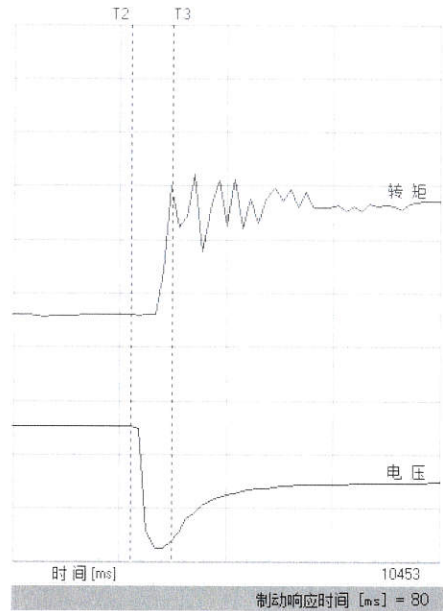
**2、Examines and tests of the example**

No.	Item Number	Review item	Result	Conclusion
1	Y6.2.1	Type of the brake system	Pass	OK
2	Y6.2.2	Separate setting	Pass	OK
3	Y6.2.3	Braking pressure	Pass	OK
4	Y6.2.5	Activating voltage( $V_1$ ) and release voltage( $V_2$ )	$V_1=59V$ $V_1/V_{\text{额}}=53.6\%$ $V_2=24V$ $V_2/V_{\text{额}}=21.8\%$	OK
5	Y6.2.6	Delay-time of the brake	0.08s See the annex	OK
6	Y6.2.8	Requirements if belt is used	Not applicable	/
7	Y6.2.10	Noise of the brake	61.2 dB(A)	OK
8	Y6.3.1	Radial bounce of the brake wheel	0.09mm	OK
9	Y6.3.2	Diameter differences among the pitch circle of the grooves	0.08mm	OK
10	Y6.3.3	Hardness of the grooves of the traction sheave and the max. difference among them	234~242 8HBW	OK
11	Y6.4	Oil leakage of the reduction gearbox	Not applicable	/
12	Y6.5.2	Noise of the drive machine with no load	59.9 dB(A)	OK
13	Y6.5.3	Vibration speed of the drive machine with no load	0.3 mm/s	OK
14	Y6.5.4	Speed of the drive machine with no load	3.5m/s No deviation	OK
15	Y6.5.5	Appearance	Pass	OK
16	Y6.5.6	Nameplate of the drive machine	Pass	OK

校核用章

## Annex

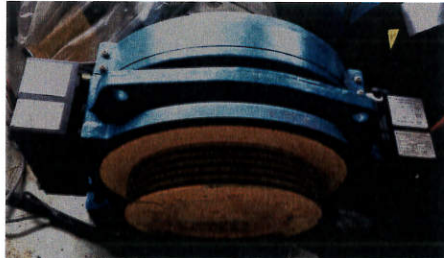
### 1、Diagram of the delay-time of the brake



A: Starting point of voltage drop when Power off

B: Time to brake position

### 2、Photo of the example



### 3、Representation

None

### 4、Type test report changes

None