



EUROPEAN INSPECTION AND CERTIFICATION COMPANY S.A.

**EU TYPE-EXAMINATION CERTIFICATE FOR SAFETY COMPONENTS
ACCORDING TO EUROPEAN LIFT DIRECTIVE 2014/33/EU ANNEX IV (MODULE B)**

Certificate Number:	SCMB.0315
Certificate Expiry Date:	13/05/2031
Applicant/Certificate Holder (Name & Address):	HUZHOU MEGMEET MOTOR CO., LTD./ No. 1106, Dongma South Road, Nanxun Economic Development Zone, Huzhou, Zhejiang Province, P.R. China
Manufacturer (Name & Address):	Same as applicant
Date of Submission:	10/04/2021
Test Laboratory (Name & Address):	Shanghai Jiao Tong University Elevator Test Center/ No. B of Advanced Manufacture Building, School of Mechanical Engineering, No. 800 Dongchuan Road Shanghai, P.R.China
Date and Number of test report:	16/12/2019 No.ETC19F350064(1) 16/12/2019 No.ETC19F380183(1)
Description of Product:	Braking device as part of the Unintended Car Movement Protection (UCMP) means and Ascending Car Overspeed Protection (ACOP) means.
Application of product:	Acting on the traction sheave shaft, as part of the protection device against unintended car movement and as part of the ascending car overspeed protection.
Model:	YK12K (Technical Description Attached) Annex A: Technical Specifications Annex B: Design Drawings
Drawing Number:	M250022003
Standard(s):	EN81-50:2014, EN81-50:2020
Reference Standard(s)	EN 81-20:2014, EN 81-20:2020

EUROCERT SA, aforementioned notified body with identification number 1128,
ascertains and certifies that above safety component satisfy the safety requirements of the European Directive
2014/33/EU.

The manufacturer is authorized to provide the safety component described above with the
CE Mark as displayed below:

CE 1128

Preconditions:

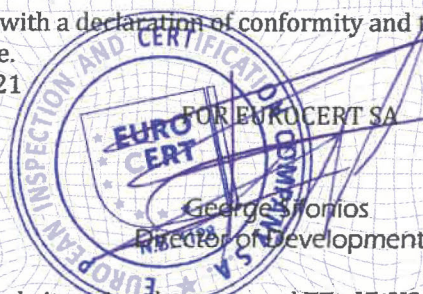
It is required that the above safety equipment must always come with a declaration of conformity and the relevant
instructions of use.

Athens, 14/05/2021

INSPECTOR

Shawn Tan

SHAWN TAN



Please check the validity of the certificate from our website using the password **ZFvd5tVS**



Inspections
Cert No.: 53

ΔΠ.13.6/E20/16-01-2014

89 CHLOIS STR. & LIKOVRISEOS, 144 52 METAMORFOSI, ATHENS, GREECE
Tel: ++30 210 62.52.495, 30 210 62.53.927 - Fax: ++30 210 62.03.018
Internet site: www.eurocert.gr - e-mail: info@eurocert.gr



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EUROPEAN INSPECTION AND CERTIFICATION COMPANY S.A.
ANNEX A TO CERTIFICATE SCMB.0315

TECHNICAL SPECIFICATIONS

Product Model	: YK12K
Application of Product:	: Acting on the traction sheave shaft, as part of the protection device against unintended car movement and as part of the ascending car overspeed protection.
Material of Friction Element	: Asbestos free
Action Method	: Action when electrical power supply is off
Elastic Element Type	: Cylindrical helix compression spring
Spring Type and Number	: $\phi 5.3 \times 18 \times 43.2$, quantity: 12 $\phi 3.2 \times 9.7 \times 43$, quantity: 8
Diameter of Break Sheave	: 525 (mm)
Nominal Brake Torque	: 2x1562.7(Nm)
Airgap	: 0.35 - 0.45 (mm)

1. Braking device as part of the Ascending Car Overspeed Protection (ACOP) means

Permissible System Total Mass (empty car mass + counterweight e.t.c.)	: 875 - 2900 (Kg)
Permissible Rated Load with Suspension ratio of 1:1	: 315 - 800 (Kg)
Range of balance coefficient	: 0.4 - 0.5
Rated Speed	: ≤ 5 (m/s)
Tripping Speed	: ≤ 7.08 (m/s) (m/s)



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2. Braking device as part of the Unintended Car Movement Protection (UCMP) means

Permissible System Total Mass : 1750 - 5800 (Kg)
(empty car mass + counterweight e.t.c.)

Permissible Rated Load with Suspension ratio of 2:1 : 630 - 1600 (Kg)

Range of balance coefficient : 0.4 - 0.5

Inspection speed : 0.5 (m/s)

Permissible Moving Distance of the inspection speed : 0.183 (m)

Max. Response Time : ≤ 180 (ms)

Conditions:

- 1) Since the brake device represents only a part of the protection device against overspeed for the car moving in upwards direction an overspeed governor as per EN 81-20, paragraph 5.6.2.2.1 must be used to monitor the upward speed as well as the downward speed and the brake device must be triggered (engaged) via the overspeed governor's electric safety device.
- 2) Since the brake device represents only a part of the protection device against the unintended car movement. The complete system, apart from the stopping element, also consists of detection element and activation element. These components are subjected to their own type examination. Only the combination of the three parts can create a system which fulfills the requirement for protection against UCM in accordance with EN 81-20 paragraph 5.6.7.
- 3) The mechanical movement of each brake circuit is to be monitored separately and directly. If a brake circuit fails to engage (close) while the lift machine is at standstill, next movement of the lift must be prevented.
- 4) In cases where the lift machine moves despite the brake being engaged (closed), the lift machine must at the latest be stopped and the next movement of the lift must be prevented.



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ANNEX B TO CERTIFICATE SCMB.0315

DESIGN DRAWINGS

1	2	3	4	5	6	7	8	9	10	11	12																																																																																																																																																																																																																																																																																																																																																																																																																																				
<table border="1"> <tr> <td>24</td> <td>M326301601</td> <td>Small spring</td> <td>10</td> <td>VDCr-Si</td> <td>0.02</td> <td>0.24</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>23</td> <td>M926108010</td> <td>Cross recess pan head screw</td> <td>4</td> <td>45</td> <td>0.01</td> <td>0.02</td> <td>M6X10</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>22</td> <td>M952100600</td> <td>Hexagon nut</td> <td>2</td> <td>45</td> <td>0.01</td> <td>0.01</td> <td>M5</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>21</td> <td>M911205025</td> <td>Outer hexagon bolt</td> <td>2</td> <td>45</td> <td>0.01</td> <td>0.01</td> <td>M5X25</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>20</td> <td>M323501601</td> <td>Knockout pin device</td> <td>2</td> <td>Q235A</td> <td>0.01</td> <td>0.03</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>19</td> <td>M935104025</td> <td>Cross recess screw</td> <td>4</td> <td>45</td> <td>0.01</td> <td>0.02</td> <td>M4X25</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>18</td> <td>M250701601</td> <td>Microswitch</td> <td>2</td> <td></td> <td>0.03</td> <td>0.06</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>17</td> <td>M402001603</td> <td>Power module</td> <td>2</td> <td>MR-110B, DC110V</td> <td>0.1</td> <td>0.02</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>16</td> <td>M402401601</td> <td>Nylon screw</td> <td>8</td> <td>Nylon</td> <td>0.01</td> <td>0.04</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>15</td> <td>M402301601</td> <td>One-way nylon column</td> <td>8</td> <td>nylon</td> <td>0.01</td> <td>0.04</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>14</td> <td>M401901601</td> <td>Disc Spring</td> <td>32</td> <td>GB/T1972-B14-10</td> <td>0.1</td> <td>0.16</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>13</td> <td>M325901601</td> <td>Flat gasket</td> <td>16</td> <td>45</td> <td>0.01</td> <td>0.08</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>12</td> <td>M952700600</td> <td>Hexagon nut</td> <td>8</td> <td>45</td> <td>0.01</td> <td>0.04</td> <td>M6</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>11</td> <td>M921706048</td> <td>Large metal screw</td> <td>8</td> <td>45</td> <td>0.01</td> <td>0.04</td> <td>M6X48</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>10</td> <td>M323301601</td> <td>Brake rotor</td> <td>2</td> <td>Q345B</td> <td>0.25</td> <td>0.5</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>9</td> <td>M326001601</td> <td>Large gasket</td> <td>2</td> <td>45</td> <td>0.02</td> <td>0.04</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td>M952101000</td> <td>Hexagon nut</td> <td>2</td> <td>45</td> <td>0.05</td> <td>0.1</td> <td>M10</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td>M942101000</td> <td>Standard spring washer</td> <td>2</td> <td>45</td> <td>0.01</td> <td>0.01</td> <td>Ø10</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td>M953101000</td> <td>HEX THIN NUT</td> <td>2</td> <td>45</td> <td>0.01</td> <td>0.01</td> <td>M10</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>M904201000</td> <td>Ball bearing steel ball</td> <td></td> <td></td> <td>0.01</td> <td>0.04</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>M326501602</td> <td>Conical spiral spring</td> <td></td> <td>VDCr-Si</td> <td>0.01</td> <td>0.03</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>M920710120</td> <td>Large metal screw</td> <td>8</td> <td>45</td> <td>0.09</td> <td>0.74</td> <td>Grade 10.9</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>M944201000</td> <td>Double face lock washer</td> <td>8</td> <td>45</td> <td>0.01</td> <td>0.04</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(1)</td> <td>M250122606</td> <td>Plate</td> <td>1</td> <td>Subassembly</td> <td>9.4</td> <td>9.4</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1</td> <td>M250122605</td> <td>Plate</td> <td>1</td> <td>Subassembly</td> <td>9.4</td> <td>9.4</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>34</td> <td>M350501601</td> <td>Brake wiring diagram label</td> <td>2</td> <td>Adhesive Sticker</td> <td>0.01</td> <td>0.01</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>33</td> <td>M323401601</td> <td>Cover</td> <td>2</td> <td>Q235</td> <td>0.28</td> <td>0.56</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>32</td> <td>M926105006</td> <td>Cross recess pan head screw</td> <td>4</td> <td>45</td> <td>0.01</td> <td>0.02</td> <td>M5X6</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>31</td> <td>M350701601</td> <td>Adjustment locking nut</td> <td>2</td> <td>Adhesive Sticker</td> <td>0.01</td> <td>0.01</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>30</td> <td>M350601601</td> <td>Adhesive Sticker</td> <td>2</td> <td>Adhesive Sticker</td> <td>0.01</td> <td>0.01</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>29</td> <td>M250601601</td> <td>Envelope lever module</td> <td>2</td> <td>Subassembly</td> <td>0.19</td> <td>0.38</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>28</td> <td>M937206018</td> <td>Elastic cylindrical pin</td> <td></td> <td></td> <td>0.01</td> <td>0.02</td> <td>Ø6X18</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>27</td> <td>M350001</td> <td>Brake nameplate</td> <td>2</td> <td>Adhesive Sticker</td> <td>0.01</td> <td>0.01</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>26</td> <td>M250601601</td> <td>Guide bolt module</td> <td>8</td> <td>Subassembly</td> <td>0.09</td> <td>0.68</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>25</td> <td>M250222602</td> <td>Moving plate</td> <td>2</td> <td>Subassembly</td> <td>7</td> <td>14</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>												24	M326301601	Small spring	10	VDCr-Si	0.02	0.24						23	M926108010	Cross recess pan head screw	4	45	0.01	0.02	M6X10					22	M952100600	Hexagon nut	2	45	0.01	0.01	M5					21	M911205025	Outer hexagon bolt	2	45	0.01	0.01	M5X25					20	M323501601	Knockout pin device	2	Q235A	0.01	0.03						19	M935104025	Cross recess screw	4	45	0.01	0.02	M4X25					18	M250701601	Microswitch	2		0.03	0.06						17	M402001603	Power module	2	MR-110B, DC110V	0.1	0.02						16	M402401601	Nylon screw	8	Nylon	0.01	0.04						15	M402301601	One-way nylon column	8	nylon	0.01	0.04						14	M401901601	Disc Spring	32	GB/T1972-B14-10	0.1	0.16						13	M325901601	Flat gasket	16	45	0.01	0.08						12	M952700600	Hexagon nut	8	45	0.01	0.04	M6					11	M921706048	Large metal screw	8	45	0.01	0.04	M6X48					10	M323301601	Brake rotor	2	Q345B	0.25	0.5						9	M326001601	Large gasket	2	45	0.02	0.04						8	M952101000	Hexagon nut	2	45	0.05	0.1	M10					7	M942101000	Standard spring washer	2	45	0.01	0.01	Ø10					6	M953101000	HEX THIN NUT	2	45	0.01	0.01	M10					5	M904201000	Ball bearing steel ball			0.01	0.04						4	M326501602	Conical spiral spring		VDCr-Si	0.01	0.03						3	M920710120	Large metal screw	8	45	0.09	0.74	Grade 10.9					2	M944201000	Double face lock washer	8	45	0.01	0.04						(1)	M250122606	Plate	1	Subassembly	9.4	9.4						1	M250122605	Plate	1	Subassembly	9.4	9.4						34	M350501601	Brake wiring diagram label	2	Adhesive Sticker	0.01	0.01						33	M323401601	Cover	2	Q235	0.28	0.56						32	M926105006	Cross recess pan head screw	4	45	0.01	0.02	M5X6					31	M350701601	Adjustment locking nut	2	Adhesive Sticker	0.01	0.01						30	M350601601	Adhesive Sticker	2	Adhesive Sticker	0.01	0.01						29	M250601601	Envelope lever module	2	Subassembly	0.19	0.38						28	M937206018	Elastic cylindrical pin			0.01	0.02	Ø6X18					27	M350001	Brake nameplate	2	Adhesive Sticker	0.01	0.01						26	M250601601	Guide bolt module	8	Subassembly	0.09	0.68						25	M250222602	Moving plate	2	Subassembly	7	14					
24	M326301601	Small spring	10	VDCr-Si	0.02	0.24																																																																																																																																																																																																																																																																																																																																																																																																																																									
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21	M911205025	Outer hexagon bolt	2	45	0.01	0.01	M5X25																																																																																																																																																																																																																																																																																																																																																																																																																																								
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19	M935104025	Cross recess screw	4	45	0.01	0.02	M4X25																																																																																																																																																																																																																																																																																																																																																																																																																																								
18	M250701601	Microswitch	2		0.03	0.06																																																																																																																																																																																																																																																																																																																																																																																																																																									
17	M402001603	Power module	2	MR-110B, DC110V	0.1	0.02																																																																																																																																																																																																																																																																																																																																																																																																																																									
16	M402401601	Nylon screw	8	Nylon	0.01	0.04																																																																																																																																																																																																																																																																																																																																																																																																																																									
15	M402301601	One-way nylon column	8	nylon	0.01	0.04																																																																																																																																																																																																																																																																																																																																																																																																																																									
14	M401901601	Disc Spring	32	GB/T1972-B14-10	0.1	0.16																																																																																																																																																																																																																																																																																																																																																																																																																																									
13	M325901601	Flat gasket	16	45	0.01	0.08																																																																																																																																																																																																																																																																																																																																																																																																																																									
12	M952700600	Hexagon nut	8	45	0.01	0.04	M6																																																																																																																																																																																																																																																																																																																																																																																																																																								
11	M921706048	Large metal screw	8	45	0.01	0.04	M6X48																																																																																																																																																																																																																																																																																																																																																																																																																																								
10	M323301601	Brake rotor	2	Q345B	0.25	0.5																																																																																																																																																																																																																																																																																																																																																																																																																																									
9	M326001601	Large gasket	2	45	0.02	0.04																																																																																																																																																																																																																																																																																																																																																																																																																																									
8	M952101000	Hexagon nut	2	45	0.05	0.1	M10																																																																																																																																																																																																																																																																																																																																																																																																																																								
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6	M953101000	HEX THIN NUT	2	45	0.01	0.01	M10																																																																																																																																																																																																																																																																																																																																																																																																																																								
5	M904201000	Ball bearing steel ball			0.01	0.04																																																																																																																																																																																																																																																																																																																																																																																																																																									
4	M326501602	Conical spiral spring		VDCr-Si	0.01	0.03																																																																																																																																																																																																																																																																																																																																																																																																																																									
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2	M944201000	Double face lock washer	8	45	0.01	0.04																																																																																																																																																																																																																																																																																																																																																																																																																																									
(1)	M250122606	Plate	1	Subassembly	9.4	9.4																																																																																																																																																																																																																																																																																																																																																																																																																																									
1	M250122605	Plate	1	Subassembly	9.4	9.4																																																																																																																																																																																																																																																																																																																																																																																																																																									
34	M350501601	Brake wiring diagram label	2	Adhesive Sticker	0.01	0.01																																																																																																																																																																																																																																																																																																																																																																																																																																									
33	M323401601	Cover	2	Q235	0.28	0.56																																																																																																																																																																																																																																																																																																																																																																																																																																									
32	M926105006	Cross recess pan head screw	4	45	0.01	0.02	M5X6																																																																																																																																																																																																																																																																																																																																																																																																																																								
31	M350701601	Adjustment locking nut	2	Adhesive Sticker	0.01	0.01																																																																																																																																																																																																																																																																																																																																																																																																																																									
30	M350601601	Adhesive Sticker	2	Adhesive Sticker	0.01	0.01																																																																																																																																																																																																																																																																																																																																																																																																																																									
29	M250601601	Envelope lever module	2	Subassembly	0.19	0.38																																																																																																																																																																																																																																																																																																																																																																																																																																									
28	M937206018	Elastic cylindrical pin			0.01	0.02	Ø6X18																																																																																																																																																																																																																																																																																																																																																																																																																																								
27	M350001	Brake nameplate	2	Adhesive Sticker	0.01	0.01																																																																																																																																																																																																																																																																																																																																																																																																																																									
26	M250601601	Guide bolt module	8	Subassembly	0.09	0.68																																																																																																																																																																																																																																																																																																																																																																																																																																									
25	M250222602	Moving plate	2	Subassembly	7	14																																																																																																																																																																																																																																																																																																																																																																																																																																									

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	Code	Name	Qty.	Material	Pcs.	Total Weight	Remark		-------------------------------	------	------	----------	------	--------------	--------		General assembly training								HUZHOU MEGMEET MOTOR CO., LTD								Brake assembly(Machine room)								YK12K																																			
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89 CHLOIS STR. & LIKORISEOS, 144 52 METAMORFOSI, ATHENS, GREECE
 Tel: ++30 210 62.52.495 / 30 210 62.53.927 / Fax: ++30 210 62.03.018
 Internet site: www.eurocert.gr / e-mail: info@eurocert.gr

