

EU-TYPE EXAMINATION CERTIFICATE

Issued by Liftinstituut B.V.
identification number Notified Body 0400,
commissioned by Decree no. 2016-0000038870

Certificate no. : NL12-400-1002-169-01 Revision no.: 1

Description of the product : Safety gear as braking part of Unintended Car Movement Protection (UCMP)

Trademark, type : Schlosser, KB55

Name and address of the manufacturer : G. Schlosser Aufzugtechnologie GmbH
Felix-Wankel-Strasse 4
D-85221 Dachau
Germany

Name and address of the certificate holder : G. Schlosser Aufzugtechnologie GmbH
Felix-Wankel-Strasse 4
D-85221 Dachau
Germany

Certificate issued on the following requirements : Lifts Directive 2014/33/EU

Certificate based on the following standard : EN 81-20:2014, EN 81-50:2014
Parts of:

Test laboratory : None

Date and number of the laboratory report : None

Date of EU-type examination : April – June 2012, May, 2017

Additional document with this certificate : Report belonging to the EU-type examination certificate no.: NL12-400-1002-169-01 Rev.1

Additional remarks : None

Conclusion : The safety component meets the requirements of the Lifts Directive 2014/33/EU taking into account any additional remarks mentioned above.

Amsterdam

Date : 30-05-2017
Valid until : 30-05-2022


ing. J.L. van Vliet
Managing Director
Certification decision by



Report EU-type examination

Report belonging to EU-type examination certificate no. : NL12-400-1002-169-01
Date of issue of original certificate : 24-07-2012
Concerns : Safety component
No. and date of revision : 1. 30-05-2017
Requirements : Lifts Directive 2014/33/EU
Standard(s):
EN 81-20:2014, EN 81-50:2014
under exclusion of articles -
Project no. : P170076

1. General specifications

Name and address manufacturer : G. Schlosser Aufzugstechnologie GmbH
Felix-Wankel-Strasse 4
D-85221 Dachau
Germany
Description of safety component : Safety gear as braking part of Unintended
Car Movement Protection (UCMP)
Type : KB55
Laboratory : -
Address of examined lift : -
Data of examination : April 2012, April 2017
Examination performed by : A. van den Burg

2. Description safety component

The KB55 is a wedge type progressive safety gear intended and already certified for use as a safety gear.

This certificate is an addition that allows the component to be also used as the braking element of an uncontrolled car movement protection as described in EN 81-20:2014.

The safety gears must be activated by a suitable governor that shall be pre triggered when the car doors are open, this governor shall be certified as part of an unintended car movement protection.

Alternatively, another means that is certified to detect uncontrolled car movement in combination with a suitable safety gear activation mechanism can be used.

The safety gear may be used to stop unintended car movements in down direction only.

The user shall verify by calculation (or testing) that the lift is stopped within the allowable limits as specified in EN 81-20:2014 art. 5.6.7.5.

The calculation shall take into account all delays that increase the stopping distance.

Delays to be considered for calculation of the stopping distance:

- Eventual delay of the triggering.
- Delay of the activation mechanism.
- Delay of the safety gear before the full braking force is reached (69 mm).
- The additional braking distance of the safety gear under worst case loading conditions from maximum possible triggering speed when it is not already pre triggered at standstill.

For application in down direction, all application conditions and limits as mentioned in the certificate EU-SG 333 shall be respected.

The maximum delay of the safety gear from start of activation until full brake force is reached can be expressed in an additional travel of 69 mm (see Annex 1A). The type of mechanism determines the additional travel of the activation mechanism.

In case a standard Schlosser activation mechanism is used, the delay of the safety gear including mechanism is found to be 111 mm at maximum. This value is found when the governor rope is mounted to the outer hole of the activation lever, in case the governor is mounted to the middle or inner hole, the activation distance is reduced (see Annex 1B).



3. Examinations and tests

The examination covered a check whether compliance with the Lift Directive 2014/33/EU is met, if possible based on the harmonized product standards EN 81-20:2014 and EN 81-50:2014.

Issues not covered by or not complying these Standards are directly related to the above mentioned essential requirements based on the risk assessment, where applicable with the aid of harmonized A-and B-standards.

The examination included:

- examination of the technical file consisting of:
 - all relevant information of the component,
 - technical drawings,
 - service manual.
- examination of the representative model in order to establish conformity with the technical file.
- tests and inspections to check compliance with the essential demands of the Lifts Directive, special attention is given to the activation delay and to the fact that the safety gear shall also work at low activation speed.

4. Results

After the examination the safety gear and the technical file were found in accordance with the requirements.

The functional tests passed without remarks and the safety gears activated within the defined distance, also at very low activation speed.

A description of the tests performed is given in "Test report type-examination NL12-400-1002-169-01/05" issued by the Liftinstituut on July 24th 2012.

5. Conditions

On the EU-type examination certificate the following conditions apply:

- An additional calculation shall be done to check whether the stopping distance of the car is within the limits as required by EN 81-20:2014 art. 5.6.7.5. For each lift model the calculations shall be checked and approved. When the braking force "F" of the safety gear is not directly provided, for calculations it can be taken as 16x the adjusted mass, $F=16(P+Q)$, Car mass "P" and nominal load "Q" in [kg], "F" in [N].
- For application in down direction, all application conditions and limits as mentioned in the certificate EU-SG 333 shall be respected.

6. Conclusions

Based upon the results of the EU-type examination Liftinstituut B.V. issues an EU-type examination certificate.

The EU-type examination certificate is only valid for products which are in conformity with the same specifications as the type certified product. The certificate is issued based on the requirements that are valid at the date of issue. In case of changes of the product specifications, changes in the requirements or changes in the state of the art the certificate holder shall request Liftinstituut B.V. to reconsider the validity of the certificate.

7. CE marking and EU Declaration of conformity

Every safety component that is placed on the market in complete conformity with the examined type must be provided with a CE marking according to article 18 of the Lift directive 2014/33/EU under consideration that conformity with eventually other applicable Directives is proven. Also every safety component must be accompanied by an EU declaration of conformity according to annex II of the Directive in which the name, address and Notified Body identification number of Liftinstituut B.V. must be included as well as the number of the EU-type examination certificate.

An EU type-certified safety component shall be random checked e.g. according to annex IX of the Lift directive 2014/33/EU before these safety components may be CE-marked and may be placed on the market. For further information see regulation 2.0.1 'Regulations for product certification' on www.liftinstituut.com.

Prepared by:



A. van den Burg
Productspecialist Certificatie
Liftinstituut B.V.

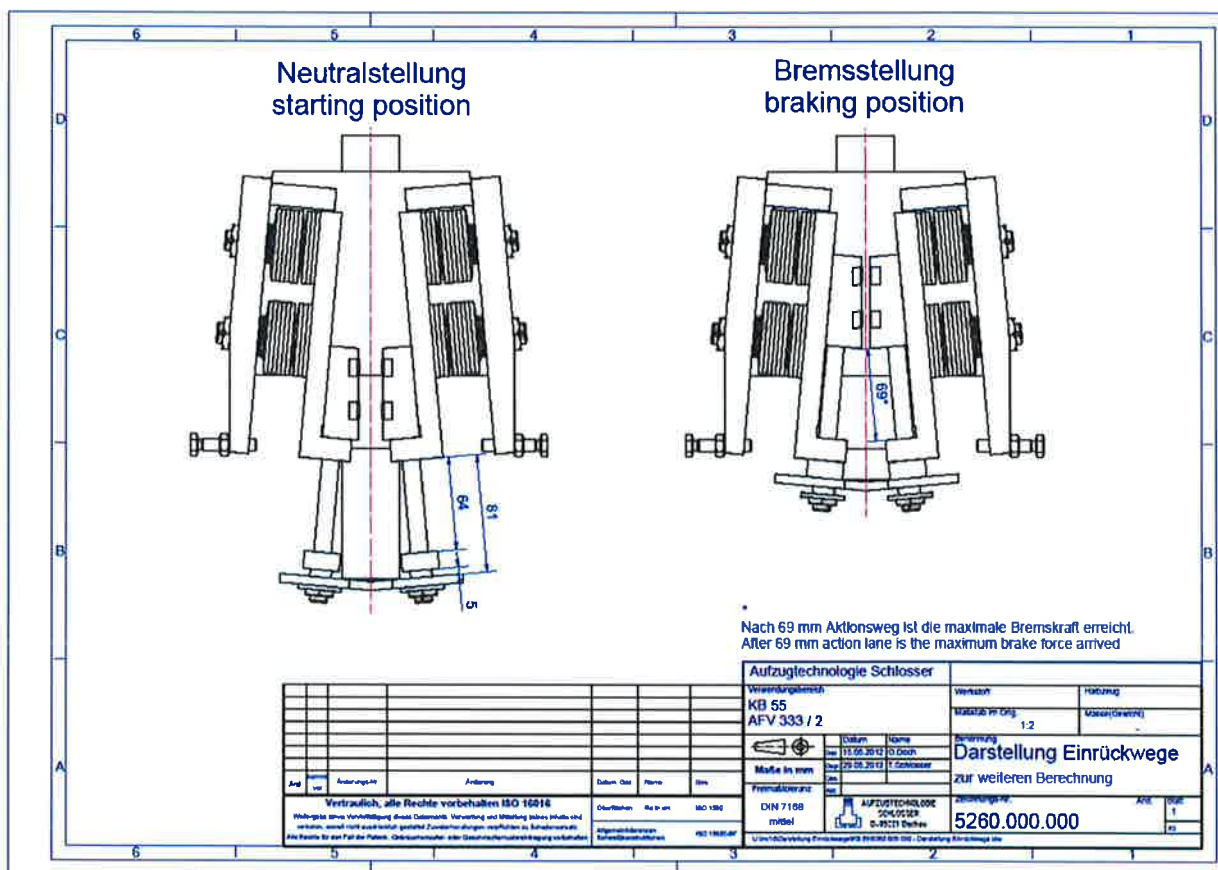
Certification decision by:





Annexes

Annex 1A : Activation distance of KB55 safety gear (maximum distance travelled between start of activation until full force)



traveling distance of the cabin UPWARDS
from the neutral position to reach the max. braking force in dependence of the speed governor rope

outside = approx. 91 mm
centre = approx. 88 mm
inside = approx. 85 mm

traveling distance of the cabin DOWNWARDS
from the neutral position to reach the max. braking force in dependence of the speed governor rope.

outside = approx. 111 mm
centre = approx. 96 mm
inside = approx. 80 mm

lever position by max. brake force UPWARDS

neutral position

lever position by max. brake force DOWNWARDS

approx. 300

approx. 275

approx. 257

guide rail

speed governor rope distance "outside"

speed governor rope distance "centre"

speed governor rope distance "inside"

Verzeichnis, alle Rechte vorbehalten ISO 16616						Aufzugstechnologie Schlosser		Vermerk		Hubzug	
Verwendungsbereich						KB 55 / EB 75 KS		Statistik Nr. 013		Masse (Gewicht)	
AFV 333/2 und ABV 313/4								1.10 (1.6)			
Zeichnung						Datum		Name		Bemerkung	
Maße in mm						20.06.2012		D. 20.06.2012		Construction lever movement for further calculation	
Freimalkonzern						20.06.2012		D. 20.06.2012			
DIN 7106						Aufzugstechnologie		5360.200.000		AFV	
n/mel						D. 20.06.2012		5360.200.000		Hub	
ISO 16616						D. 20.06.2012		5360.200.000		1	
ISO 16616						D. 20.06.2012		5360.200.000		AFV	

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Wichtigste Teile des Aufzugs sind durch die Zeichnung gekennzeichnet. Die Zeichnung ist verbindlich. Alle Maße sind in mm anzugeben. Die Maße sind in mm anzugeben. Die Maße sind in mm anzugeben.

Oben: 100 mm, 150 mm, 200 mm, 250 mm, 300 mm, 350 mm, 400 mm, 450 mm, 500 mm, 550 mm, 600 mm, 650 mm, 700 mm, 750 mm, 800 mm, 850 mm, 900 mm, 950 mm, 1000 mm, 1050 mm, 1100 mm, 1150 mm, 1200 mm, 1250 mm, 1300 mm, 1350 mm, 1400 mm, 1450 mm, 1500 mm, 1550 mm, 1600 mm, 1650 mm, 1700 mm, 1750 mm, 1800 mm, 1850 mm, 1900 mm, 1950 mm, 2000 mm, 2050 mm, 2100 mm, 2150 mm, 2200 mm, 2250 mm, 2300 mm, 2350 mm, 2400 mm, 2450 mm, 2500 mm, 2550 mm, 2600 mm, 2650 mm, 2700 mm, 2750 mm, 2800 mm, 2850 mm, 2900 mm, 2950 mm, 3000 mm, 3050 mm, 3100 mm, 3150 mm, 3200 mm, 3250 mm, 3300 mm, 3350 mm, 3400 mm, 3450 mm, 3500 mm, 3550 mm, 3600 mm, 3650 mm, 3700 mm, 3750 mm, 3800 mm, 3850 mm, 3900 mm, 3950 mm, 4000 mm, 4050 mm, 4100 mm, 4150 mm, 4200 mm, 4250 mm, 4300 mm, 4350 mm, 4400 mm, 4450 mm, 4500 mm, 4550 mm, 4600 mm, 4650 mm, 4700 mm, 4750 mm, 4800 mm, 4850 mm, 4900 mm, 4950 mm, 5000 mm, 5050 mm, 5100 mm, 5150 mm, 5200 mm, 5250 mm, 5300 mm, 5350 mm, 5400 mm, 5450 mm, 5500 mm, 5550 mm, 5600 mm, 5650 mm, 5700 mm, 5750 mm, 5800 mm, 5850 mm, 5900 mm, 5950 mm, 6000 mm, 6050 mm, 6100 mm, 6150 mm, 6200 mm, 6250 mm, 6300 mm, 6350 mm, 6400 mm, 6450 mm, 6500 mm, 6550 mm, 6600 mm, 6650 mm, 6700 mm, 6750 mm, 6800 mm, 6850 mm, 6900 mm, 6950 mm, 7000 mm, 7050 mm, 7100 mm, 7150 mm, 7200 mm, 7250 mm, 7300 mm, 7350 mm, 7400 mm, 7450 mm, 7500 mm, 7550 mm, 7600 mm, 7650 mm, 7700 mm, 7750 mm, 7800 mm, 7850 mm, 7900 mm, 7950 mm, 8000 mm, 8050 mm, 8100 mm, 8150 mm, 8200 mm, 8250 mm, 8300 mm, 8350 mm, 8400 mm, 8450 mm, 8500 mm, 8550 mm, 8600 mm, 8650 mm, 8700 mm, 8750 mm, 8800 mm, 8850 mm, 8900 mm, 8950 mm, 9000 mm, 9050 mm, 9100 mm, 9150 mm, 9200 mm, 9250 mm, 9300 mm, 9350 mm, 9400 mm, 9450 mm, 9500 mm, 9550 mm, 9600 mm, 9650 mm, 9700 mm, 9750 mm, 9800 mm, 9850 mm, 9900 mm, 9950 mm, 10000 mm, 10050 mm, 10100 mm, 10150 mm, 10200 mm, 10250 mm, 10300 mm, 10350 mm, 10400 mm, 10450 mm, 10500 mm, 10550 mm, 10600 mm, 10650 mm, 10700 mm, 10750 mm, 10800 mm, 10850 mm, 10900 mm, 10950 mm, 11000 mm, 11050 mm, 11100 mm, 11150 mm, 11200 mm, 11250 mm, 11300 mm, 11350 mm, 11400 mm, 11450 mm, 11500 mm, 11550 mm, 11600 mm, 11650 mm, 11700 mm, 11750 mm, 11800 mm, 11850 mm, 11900 mm, 11950 mm, 12000 mm, 12050 mm, 12100 mm, 12150 mm, 12200 mm, 12250 mm, 12300 mm, 12350 mm, 12400 mm, 12450 mm, 12500 mm, 12550 mm, 12600 mm, 12650 mm, 12700 mm, 12750 mm, 12800 mm, 12850 mm, 12900 mm, 12950 mm, 13000 mm, 13050 mm, 13100 mm, 13150 mm, 13200 mm, 13250 mm, 13300 mm, 13350 mm, 13400 mm, 13450 mm, 13500 mm, 13550 mm, 13600 mm, 13650 mm, 13700 mm, 13750 mm, 13800 mm, 13850 mm, 13900 mm, 13950 mm, 14000 mm, 14050 mm, 14100 mm, 14150 mm, 14200 mm, 14250 mm, 14300 mm, 14350 mm, 14400 mm, 14450 mm, 14500 mm, 14550 mm, 14600 mm, 14650 mm, 14700 mm, 14750 mm, 14800 mm, 14850 mm, 14900 mm, 14950 mm, 15000 mm, 15050 mm, 15100 mm, 15150 mm, 15200 mm, 15250 mm, 15300 mm, 15350 mm, 15400 mm, 15450 mm, 15500 mm, 15550 mm, 15600 mm, 15650 mm, 15700 mm, 15750 mm, 15800 mm, 15850 mm, 15900 mm, 15950 mm, 16000 mm, 16050 mm, 16100 mm, 16150 mm, 16200 mm, 16250 mm, 16300 mm, 16350 mm, 16400 mm, 16450 mm, 16500 mm, 16550 mm, 16600 mm, 16650 mm, 16700 mm, 16750 mm, 16800 mm, 16850 mm, 16900 mm, 16950 mm, 17000 mm, 17050 mm, 17100 mm, 17150 mm, 17200 mm, 17250 mm, 17300 mm, 17350 mm, 17400 mm, 17450 mm, 17500 mm, 17550 mm, 17600 mm, 17650 mm, 17700 mm, 17750 mm, 17800 mm, 17850 mm, 17900 mm, 17950 mm, 18000 mm, 18050 mm, 18100 mm, 18150 mm, 18200 mm, 18250 mm, 18300 mm, 18350 mm, 18400 mm, 18450 mm, 18500 mm, 18550 mm, 18600 mm, 18650 mm, 18700 mm, 18750 mm, 18800 mm, 18850 mm, 18900 mm, 18950 mm, 19000 mm, 19050 mm, 19100 mm, 19150 mm, 19200 mm, 19250 mm, 19300 mm, 19350 mm, 19400 mm, 19450 mm, 19500 mm, 19550 mm, 19600 mm, 19650 mm, 19700 mm, 19750 mm, 19800 mm, 1985

title	document number	date
Montage-Betriebs-Wartungsanleitung	-	15-02-2011

EN xx-x par.	Requirement	Accepted design
None		

REVISIONS OF THE CERTIFICATE AND REPORT

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