

EC TYPE-EXAMINATION CERTIFICATE

According to Annex V, Part A of 95/16/EC Directive

Certificate No.:

ABV 708/1

Certification Body of the Notified Body:

TÜV SÜD Industrie Service GmbH

Westendstr. 199

80686 Munich – Germany Identification No. 0036

Certificate Holder:

INVENTIO AG Seestrasse 55

6052 Hergiswil - Switzerland

Manufacturer of the Test Sample:

Schindler Aufzüge AG

EBI Works

(Manufacturer of Serial Production -

Zuger Strasse 13

see Enclosure)

6030 Ebikon - Switzerland

Product:

Braking device acting on the traction sheave, as part of the protection device against overspeed

for the car moving in upwards direction

Type:

MB940-HYB55

Directive:

95/16/EC

Reference Standards:

EN 81-20:2014 EN 81-50:2014

EN 81-1:1998+A3:2009

Test Report:

ABV 708/1 of 2015-10-15

Outcome:

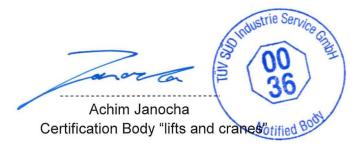
The safety component conforms to the essential health and safety requirements of the mentioned

Directive as long as the requirements of the

annex of this certificate are kept.

Date of Issue:

2015-10-16



Annex to the EC Type-Examination Certificate No. ABV 708/1 of 2015-10-16



1 Scope of application

1.1 Permissible brake moment when the brake device acts on the traction sheave while the car is moving upward

10000 - 18000 Nm

1.2 Maximum tripping speed of the overspeed governor and maximum rated speed for a traction sheave diameter of 900 mm (in relation to the rope's center) and car suspension of 1:1

1.2.1 Maximum tripping speed

12.50 m/s

According to the tripping speed, a tripping rotary speed of 254 rpm of the traction sheave is calculated on the basis of the traction sheave's diameter of 900 mm and the car suspension of 1:1.

If deviating traction sheave diameters, car speeds or car suspensions are used, care must be taken that these rotary speeds are not exceeded during operation and tripping of the overspeed governor.

2 Terms and Conditions

- 2.1 Above mentioned safety component represents only a part at the protection device against overspeed for the car moving in upwards direction. Only in combination with a detecting and triggering component in accordance with the standard (two separate components also possible), which must be subjected to an own type-examination, can the system created fulfil the requirements for a protection device.
- 2.2 In order to provide identification and information about the design and its functioning and to show the environmental conditions and connection requirements, drawing M41600529 with stamp dated 2015-10-16 is to be enclosed with the EC type-examination certificate and the Annex thereto.
- 2.3 The type-examination certificate may only be used in combination with the corresponding annex and enclosure (List of authorized manufacturer of the serial production). The enclosure will be updated immediately after any change by the certification holder.

3 Remarks

- 3.1 In the scope of this type-examination it was found out, that the brake device also functions as a brake for normal operation (using at least two single brakes), is designed as a redundant system and therefore meets the requirements to be used also as a part of the protection device against overspeed for the car moving in upwards direction.
- 3.2 Checking whether the requirements as per section 5.9.2.2 of EN 81-20:2014 (D) have been complied with is not part of this type examination.
- 3.3 Other requirements of the standard, such as reduction of brake torque respectively brake force due to wear or operational caused changes of traction are not part of this type examination.
- 3.4 This EC type-examination certificate was issued according to the following standards:
 - EN 81-1:1998 + A3:2009 (D), Annex F7
 - EN 81-20:2014 (D), part 5.6.6.11
 - EN 81-50:2014 (D), part 5.7
- 3.5 A revision of this EC type-examination certificate is inevitable in case of changes or additions of the above mentioned standards or of changes of state of the art.

Enclosure to the EC Type-Examination Certificate No. ABV 708/1 of 2015-10-16



Authorised Manufacturer of Serial Production - Production Sites (valid from: 2015-10-16):

Company Schindler Aufzüge AG

Address EBI Works

Zugerstrasse 13

6030 Ebikon - Switzerland

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Based on: Application from Schindler Aufzüge AG of 2015-05-05

