



EC TYPE-EXAMINATION CERTIFICATE

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

Certificate No.:	ABV 924/2
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: (Manufacturer of Serial Production – see Enclosure)	Schindler Aufzüge AG EBI Works Zuger Strasse 13 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:	MB760-HYB53
Directive:	95/16/EC
Reference Standards:	EN 81-20:2014 EN 81-50:2014 EN 81-1:1998+A3:2009
Test Report:	ABV 924/2 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



Achim Janocha
Certification Body "lifts and cranes"



**Annex to the EC Type-Examination Certificate
No. ABV 924/2 of 2015-10-16**



Industrie Service

1 Scope of application

- 1.1 Permissible brake moment when the brake device acts on the traction sheave while the car is moving upward 3160 - 9158 Nm
- 1.2 Maximum tripping speed of the overspeed governor and maximum rated speed for traction sheave diameter of 600 mm (in relation to the rope's centre) and car suspension of 1:1
- 1.2.1 Maximum tripping speed 9.39 m/s

According to the tripping speed, a tripping rotary speed of 602 rpm of the traction sheave is calculated on the basis of the traction sheave's diameter of 440 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 M _ _ 59608500 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 924/2 of 2015-10-16**



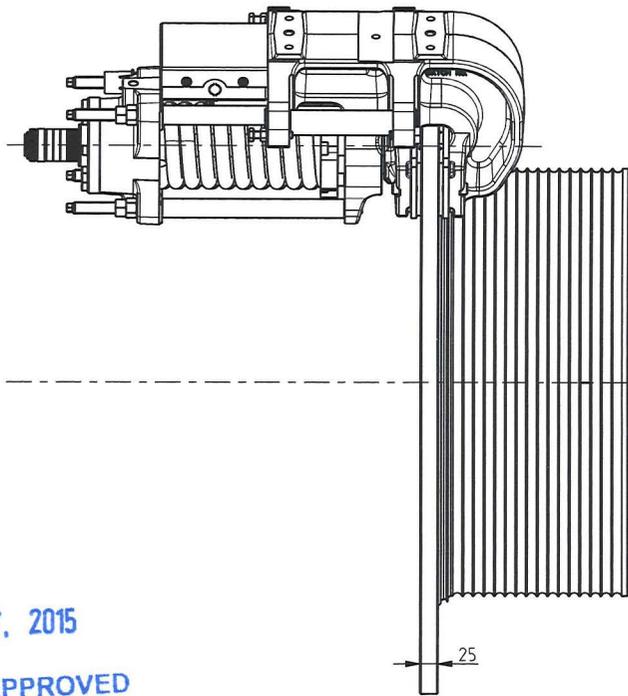
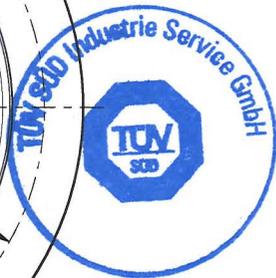
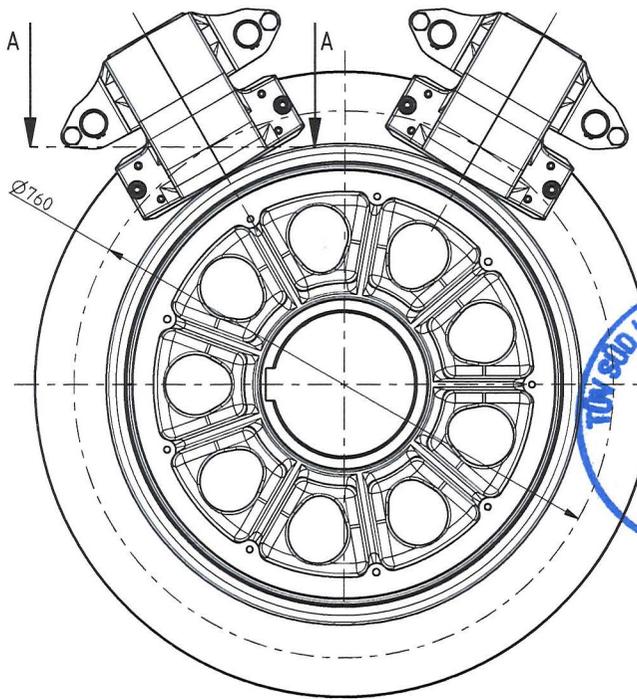
Industrie Service

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

Company Schindler Aufzüge AG
Address EBI Works
Zugerstrasse 13
6030 Ebikon – Switzerland

Company Schindler (China) Elevator Co., Ltd.
Address No. 818 Jin Men Road
215004 Suzhou – P.R. China

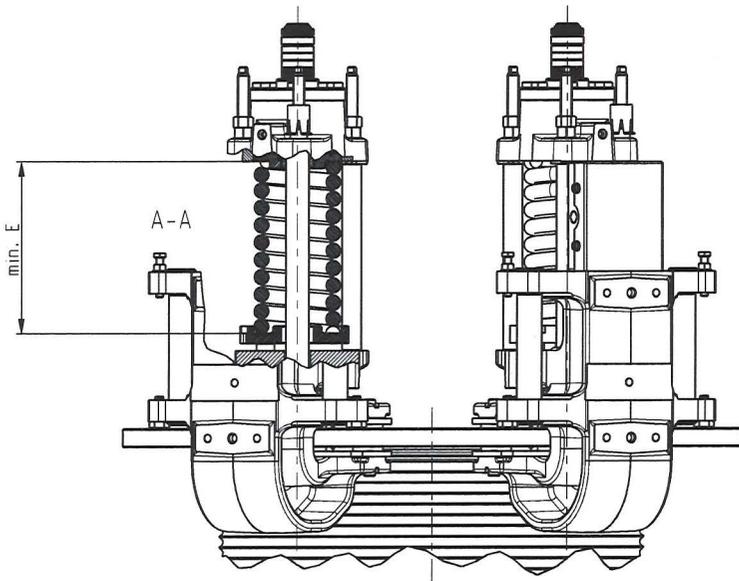
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1 6. OKT. 2015

GEPRÜFT / APPROVED
 TÜV SÜD Industrie Service GmbH
 Prüflaboratorium für Produkte der Fördertechnik
 Westendstraße 199
 80686 München
 Sachverständige(r) / Expert

M. Neumann



59608500	Brake Assy. MB760-HYB53	8000	238
Ident No.	Brake Type	Max. Braking Torque for a pair of brakes TBM [Nm]	Corresponding Spring Setting E [mm]

Ident. No.	Semi finished product / raw material	Semi Fin. Ident. No.	Item	Code surface	Heat treatment	Draw / EDR / model	Weight kg.
Modification			Ae2	Draw Ver.	Related Sign		
KA No.			142041	5	Related Sign		
KA Date			2014-10-11	Modif. Ver.	Related Sign		
				5	Release Level	Released	
Group: SAFETY						Remark	Date
Brake Assy. MB760-HYB53						Scale	Name
PMR490 Certification						Replaces / Ae	2014-08-20
						Prepared	2014-09-01
						Reviewed	2014-09-01
						Checked	2014-09-01
						Released	2014-09-01
INVENTIO AG CH-6052 Hergiswil						Classification	Lead Office
						11120	EN
						Formal A2	
						EB6	M__59608500
							Lang.
							EN

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