ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

TYPE EXAMINATION CERTIFICATE

According to Lifts Regulations 2016, Schedule 11, Section A

Certificate No.:	UK-OG 084
Approved Body:	TUV SUD BABT UNLIMITED Octagon House Concorde Way, Segensworth North Fareham, Hampshire, PO15 5RL, UK Identification No. 0168
Certificate Holder:	BODE Components GmbH Eichsfelder Str. 29 40595 Düsseldorf – Germany
Manufacturer of the Test Sample: (Manufacturer of Serial Production - see Enclosure)	BODE Components GmbH Eichsfelder Str. 29 40595 Düsseldorf – Germany
Product:	Overspeed governor, detecting and tripping element fixed at the overspeed governor, as a part of the protection device against overspeed for the car moving in upwards direction and tripping element against unintended car movement
Type:	Typ 9
Regulation:	Lifts Regulations 2016
Reference Standards:	EN 81-20:2020 EN 81-50:2020
Test report:	UK-OG Bode Components dated 2022-07-05
Outcome:	The product conforms to the essential health and safety requirements of the mentioned Regulation if the requirements of the annex to this type examination certificate are kept.
Date of Issue:	2022-07-27

Bernd Gründling

TUV SUD BABT UNLIMITED

TUV SUD BABT UNLIMITED 01 68 Approved Body

Annex to the Type Examination Certificate No. UK-OG 084 of 2022-07-27

1 Scope of application

1.1 Generally

1.1.1 Driving rope

Category	Round strand rope made of steel wire
Diameter	6 – 8 mm

1.1.2 Minimum tension forces (force produced by the tensioning weight, acting on the axis of rope deviating pulley)

Tensioning force determined in the test (New rope and groove)	50 N
Tension force determined by calculation (coefficient of friction μ = 0,09)	467 N
Tensile force at minimum tension force	300 N

Retraction of the safety gear in both directions of rotation permissible.

The safety component can fulfil three security features (1.2, 1.3 and 1.4).

1.2 Using as an overspeed governor – permissible speeds

Permissible tripping speed	0.50 – 0.70 m/s
Permissible rated speed	≤ 0.61 m/s

1.3 Using as a part of the protection device against overspeed for the car moving in upwards direction

The overspeed governor can be used as a part of the protection device against overspeed for the car moving in upwards direction. Monitoring of upward speed will be done by overspeed governor itself and a braking device can be triggered (engaged) via the overspeed governor's electric safety device or mechanically

1.4 Using as a part of the protection device against unintended car movement by an installed anti-creep protection

Using **without** detection system (activation at each landing)

Max. possible response distance**	350 mm
Theoretical tripping speed at acceleration of 2.5 m/s^2	1.32 m/s

*Response distance: Defined as the max. distance that can be covered by the lift moving away from the landing postion **after the blocking device has engaged** and as caused by delay and/or other distance losses at the overspeed governor until the tensile force has built up

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 and unintended car movement. Only in combination with a braking respectively detecting component in accordance with the standard, which must be subjected to an own type-examination, can the system created fulfil the requirements for a protection device.

2.2 The adjusted tripping speed and the safety switch must be sealed against unauthorized adjustment (safety switch e.g. by colour sealing of the fastening bolts).

2.3 Rope deflection optional (but at least 180° angle of wrap).

2.4 The triggering of the safety device according 1.4 takes place by interruption of the energy supply to the magnetic coin of anti creep protection. This is not caused positive mechanically but electrically resp. electromagnetically by interruption of the energy supply to the magnetic coin of anti creep protection. However, the mechanically engagement of the device has to be absolutely guaranteed after the electrical safety device has responded. In light of the above, the device must be made to engage at each regular landing, so that the anchor plates can be checked for correct closing (e.g. micro switches resp. proximity switch). If the anchor do not perform correctly (anchors fail to close) the lift must be kept at standstill.

2.5 Activation of anti-creep according 1.4 will take place by every operational stop of the lift in the way such as activation is initiated before car stands still.

2.6 The installer of the complete lift must create an examination instruction to fulfil the overall concept of the protection device, add it to the lift documentation and provide any necessary tools or measuring devices, which allow a safe examination (e. g. with closed landing doors).

2.7 Fast and safe rescuing of lift passengers must be possible by suitable technical measures under all circumstances. It must be documented in the operation manual of the lift.

2.8 The identification drawing „Geschwindigkeitsbegrenzer Typ 9“ including stamp dated 2016-03-01 shall be included to the type examination for the identification and information of the general construction and operation and distinctness of the approved type.

2.9 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 Considering the whole protection systems, it is necessary to include time need and impact of build-up the tensile force as well as spread and change over time, perhaps possible distances and/or time delay caused by mechanical deflections.

3.2 Possible design variants (also in combination):

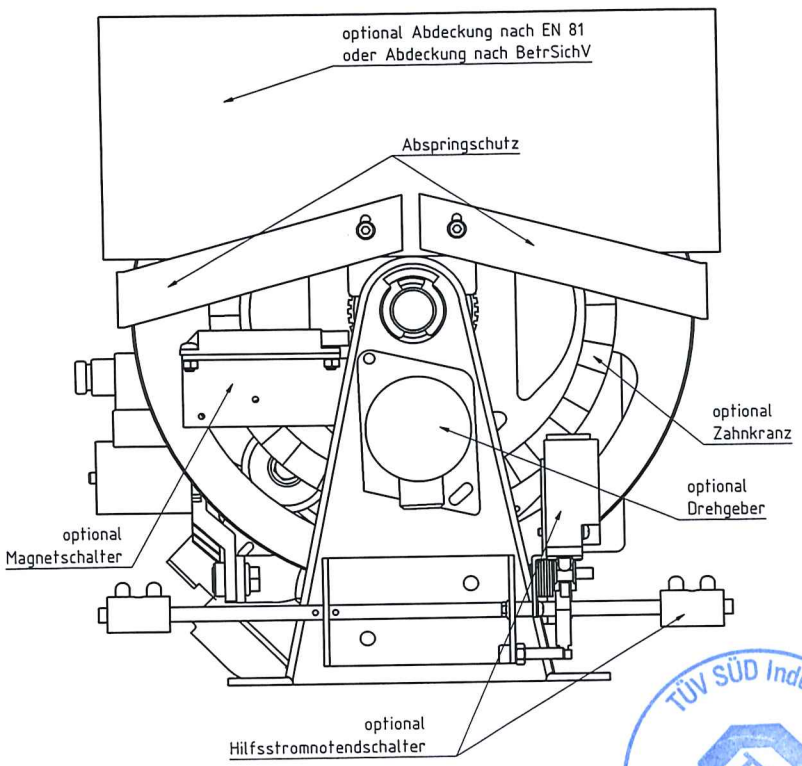
- Remote release, protection against lowering, emergency limit switching
- Installation in the shaft pit or suspended arrangement (console turned through 180°)
- Electronic release for lower tripping speeds according expert´s report
- Governor wheel with cast-on toothed ring and governor bearing with drillings for pulse generator attachment
- Optional attachment incremental pulse generator, rotary pulse encoder and magnetic switch
- Overspeed governor with and without cover
- Safety switch with electrical resetting

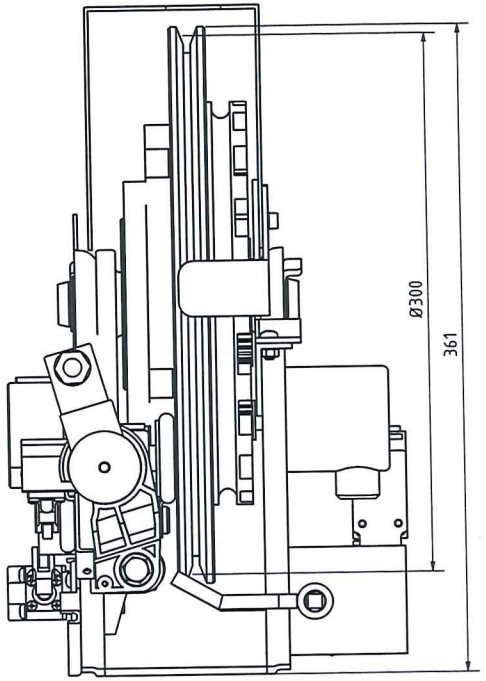
3.3 The overspeed governor can also be used to a counterweight in compliance with the permissible tripping speed.

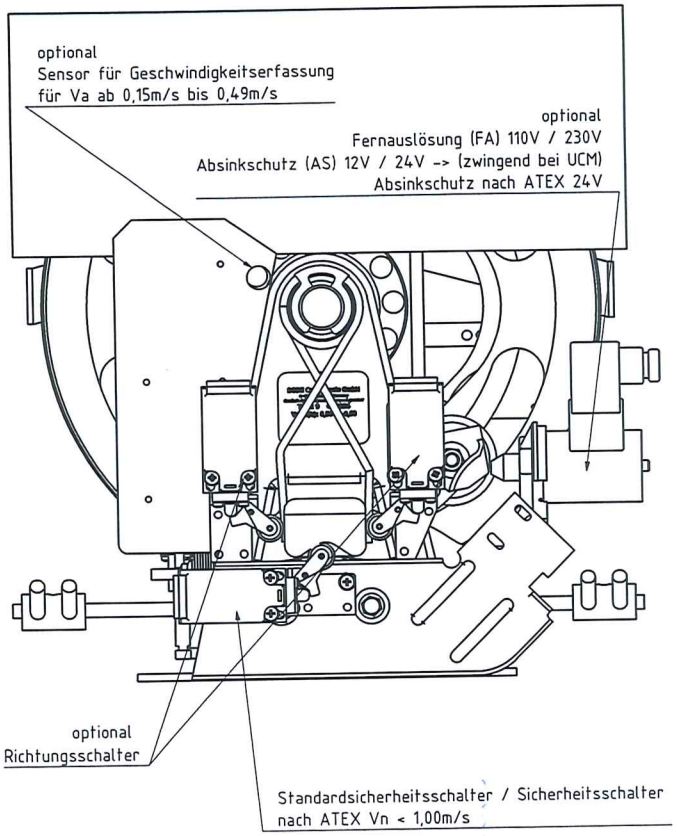
3.4 This type examination certificate was issued according to the following standards:

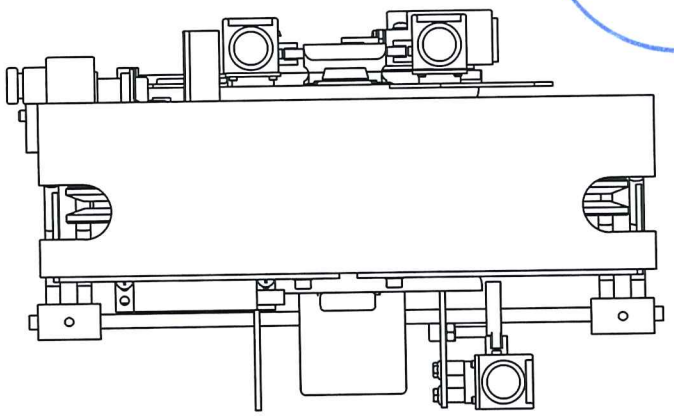
- EN 81-1:1998 + A3:2009 (D), Annex F.4, F.7 and F.8
- EN 81-2:1998 + A3:2009 (D), Annex F.4 und F.8
- EN 81-20:2014 (D), part 5.6.2.2.1.7, part 5.6.6.11 and part 5.6.7.13
- EN 81-50:2014 (D), part 5.4, 5.7 and 5.8
- EN 81-20:2020 (D), part 5.6.2.2.1.7, part 5.6.6.11 and part 5.6.7.13
- EN 81-50:2020 (D), part 5.4, 5.7 and 5.8

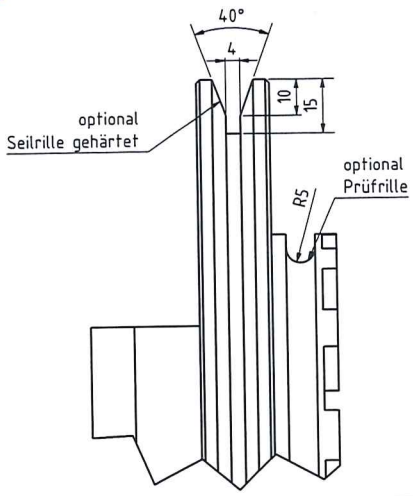
A revision of this type examination certificate is inevitable in case of changes or additions of the above mentioned standards or of changes of state of the art.











TÜV SÜD Industrie Service GmbH

01. MRZ. 2016

GEPRÜFT / APPROVED
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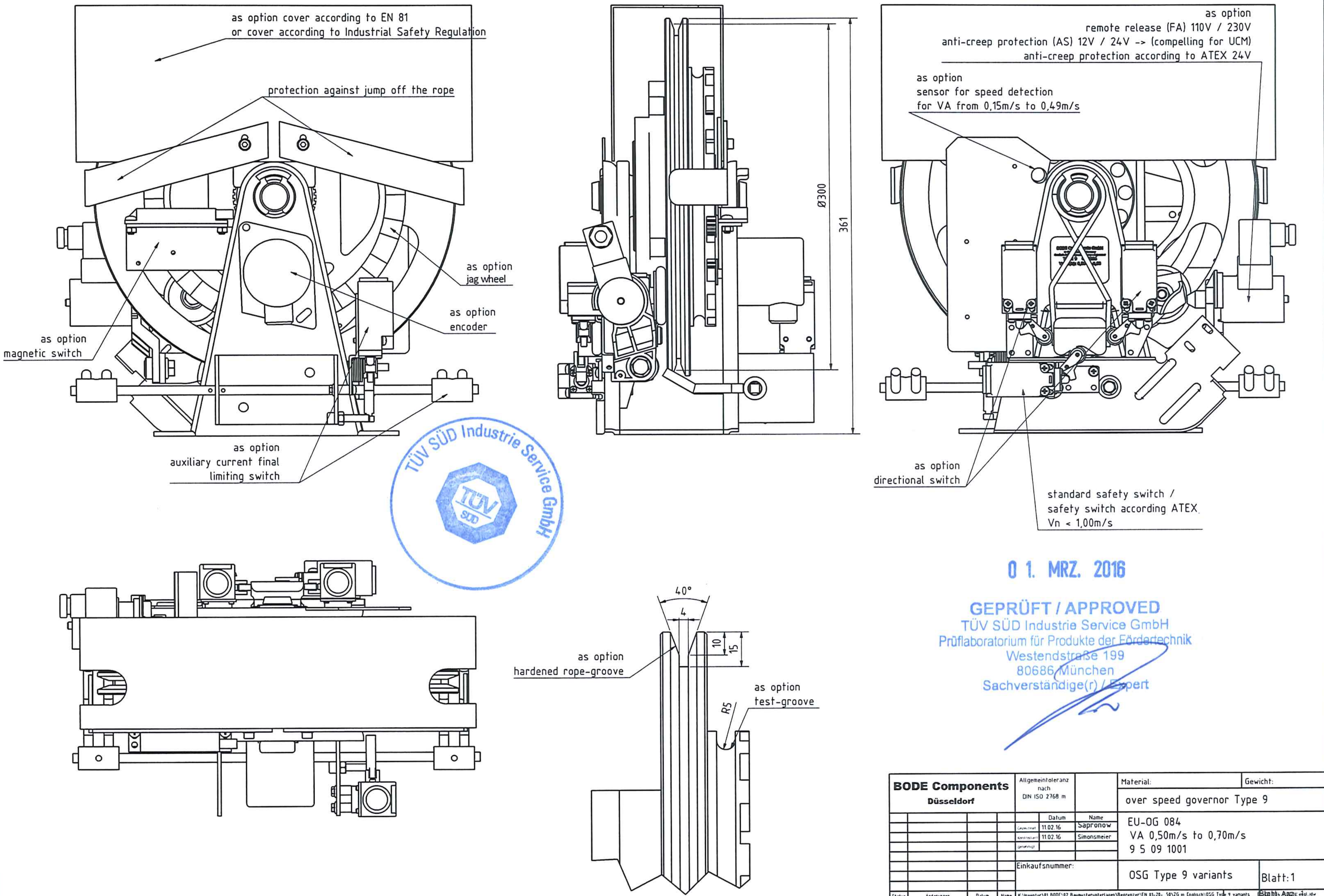
Prüflaboratorium für Produkte der Fördertechnik
Westendstraße 199
80686 München
Sachverständige(r) / Expert

BODE Components Düsseldorf	Allgemeintoleranz nach DIN ISO 2768 m	Material:	Gewicht:
		Geschwindigkeitsbegrenzer Typ 9	
	Datum / Name: gezeichnet 11.02.2016 Sapronow; kontrolliert 11.02.2016 Simonsmeier; genehmigt	EU-OG 084 VA 0,50m/s bis 0,70m/s 9 5 09 1001	
	Einkaufsnummer:	GB Typ 9 Varianten	Blatt:1
Status / Änderungen / Datum / Name	K:\Inventur\01 BODE\02 Baumusterunterlagen\Begrenzer\EN 81-20_50\GB Typ 9 Varianten	EU-OG 084 11.02.2016	Blatt Anz.: 1



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BODE Components Düsseldorf	Allgemeintoleranz nach DIN ISO 2768 m	Material:	Gewicht:
		over speed governor Type 9	
	Datum / Name: gezeichnet 11.02.16 Sapronow; kontrolliert 11.02.16 Simonsmeier; genehmigt	EU-OG 084 VA 0,50m/s to 0,70m/s 9 5 09 1001	
	Einkaufsnummer:	OSG Type 9 variants	Blatt:1
Status / Änderungen / Datum / Name	K:\Inventor\01 BODE\02 Baumusterunterlagen\Begrenzer\EN 81-20_50\ZG in Englisch\OSG Type 9 variants		

Authorised Manufacturer of Serial Production – Production Sites (valid from: 2022-06-21):

Company	BODE Components GmbH
Address	Eichsfelder Str. 29 40595 Düsseldorf – Germany

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