



EU TYPE-EXAMINATION CERTIFICATE

According to Annex IV, Part A of 2014/33/EU Directive

Certificate No.: EU-BD 819/1

Certification Body of the Notified Body: TÜV SÜD Industrie Service GmbH
Westendstr. 199
80686 Munich - Germany
Identification No. 0036

Certificate Holder: WARNER Electric Europe
7, rue de Champfleür
BP 20095
49124 Saint Barthélemy d'Anjou - France

Manufacturer of the Test Sample: WARNER Electric Europe
7, rue de Champfleür
BP 20095
49124 Saint Barthélemy d'Anjou - France
(Manufacturer of Serial Production – see Enclosure)

Product: Braking device acting on the shaft of the traction sheave, as part of the protection device against overspeed for the car moving in upwards direction and braking element against unintended car movement

Type: ERS VAR07
Size:
SZ300/___, SZ420/___, SZ420/___ SY,
SZ600/___, SZ600/___ SY, SZ800/___,
SZ800/___ AZ

Directive: 2014/33/EU

Reference Standards: EN 81-20:2014
EN 81-50:2014
EN 81-1:1998+A3:2009

Test Report: EU-BD 819/1 of 2016-03-09

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: 2016-03-09

Date of Validity: from 2016-04-20

Werner Rau

Werner Rau

Certification Body "lifts and cranes"



**Annex to the EU Type-Examination Certificate
No. EU-BD 819/1 of 2016-03-09**



Industrie Service

1 Scope of application

1.1 Use as braking device – part of the the protection device against overspeed for the car moving in upwards direction – permissible brake torques and tripping rotary speeds

1.1.1 Permissible brake torques and maximum tripping rotary speeds of the traction sheave when the brake device acts on the shaft of the traction sheave while the car is moving upward

Size	Permissible brake torque [Nm]	Max. tripping rotary speed of the traction sheave [rpm]
SZ300/_ _ _	482 - 747	300
SZ300/_ _ _	434 - 689	600
SZ420/_ _ _	547 - 999	300
SZ420/_ _ _	502 - 788	600
SZ420/_ _ _ SY	603 - 1070	600
SZ600/_ _ _	947 - 1306	300
SZ600/_ _ _	724 - 1045	600
SZ600/_ _ _ SY	811 - 1688	600
SZ800/_ _ _	1144 - 2177	300
SZ800/_ _ _ AZ	1007 - 1871	400
SZ800/_ _ _	1042 - 1997	600

1.1.2 Maximum tripping speed of the overspeed governor and maximum rated speed of the lift

The maximum tripping speed of the overspeed governor and the maximum rated speed of the lift must be calculated on the basis of the traction sheave's maximum tripping rotary speed as outlined above taking into account traction sheave diameter and car suspension.

$$v = \frac{D_{TS} \times \pi \times n}{60 \times i}$$

v = Tripping (rated) speed (m/s)
 D_{TS} = Diameter of the traction sheave from rope's centre to rope's centre (m)
 π = 3,14
 n = Rotary speed (rpm)
 i = Ratio of the car suspension

1.2 Use as braking element – part of the protection device against unintended car movement (acting in up and down direction) – permissible brake torques, tripping rotary speeds and characteristics

1.2.1 Nominal brake torques and response times with relation to a brand-new brake element

Size	Min. nominal brake torque* [Nm]	Intermediate nominal brake torque * [Nm]	Max. nominal brake torque * [Nm]	Max. tripping rotary speed [rpm]	Maximum response times** [ms] with / without overexcitation		
					t ₁₀	t ₅₀	t ₉₀
SZ300/_ _ _	2 x 250 = 500			300	60	93	125
SZ300/_ _ _			2 x 350 = 700	300	50	100	150
SZ300/_ _ _	2 x 250 = 500			600	55	88	120
SZ300/_ _ _			2 x 315 = 630	600	50	90	130
SZ420/_ _ _	2 x 250 = 500			300	60	90	120
SZ420/_ _ _			2 x 450 = 900	300	50	105	160
SZ420/_ _ _	2 x 225 = 450			600	60	75	90
SZ420/_ _ _			2 x 350 = 700	600	60	80	100
SZ420/_ _ _ SY	2 x 360 = 720			600	95	128	160

**Annex to the EU Type-Examination Certificate
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SZ420/_ _ _ SY			2 x 420 = 840	600	95	148	200
SZ600/_ _ _	2 x 420 = 840			300	80	120	160
SZ600/_ _ _		2 x 550 = 1100		300	50	85	120
SZ600/_ _ _			2 x 600 = 1200	300	50	100	150
SZ600/_ _ _	2 x 315 = 630			600	70	90	110
SZ600/_ _ _			2 x 500 = 1000	600	50	90	130
SZ600/_ _ _ SY	2 x 550 = 1100			600	80	108	135
SZ800/_ _ _	2 x 665 = 1330			300	65	95	125
SZ800/_ _ _			2 x 1000 = 2000	300	55	153	250
SZ800/_ _ _ AZ	2 x 667 = 1334			400	120	160	200
SZ800/_ _ _ AZ			2 x 800 = 1600	400	100	125	150
SZ800/_ _ _	2 x 665 = 1330			600	65	103	140
SZ800/_ _ _		2 x 800 = 1600		600	55	93	130
SZ800/_ _ _			2 x 900 = 1800	600	55	115	175

Interim values can be interpolated

Explanations:

- * **Nominal brake torque:** Brake torque assured for installation operation by the safety component manufacturer.
- ** **Response times:** t_x time difference between the drop of the braking power until establishing X% of the nominal brake torque, t_{50} optionally calculated $t_{50} = (t_{10} + t_{90})/2$ or value taken from the examination recording

1.2.2 Assigned execution features

Size	Type of powering / deactivation	Brake control	Nominal air gap [mm]	Damping elements / adhesive foil integrated	Overexcitation
SZ300/_ _ _	Continuous current / continuous current end	serial	0.6	yes / yes	at double non-release voltage
SZ420/_ _ _	Continuous current / continuous current end	serial	0.6	yes / yes	at double non-release voltage
SZ420/_ _ _ SY	Continuous current / continuous current end	serial or parallel	0.65	yes / no	at double non-release voltage
SZ600/_ _ _	Continuous current / continuous current end	serial	0.6	yes / yes	at double non-release voltage
SZ600/_ _ _ SY	Continuous current / continuous current end	serial or parallel	0.65	yes / no	at double non-release voltage
SZ800/_ _ _	Continuous current / continuous current end	parallel	0.6	yes / yes	at double non-release voltage
SZ800/_ _ _ AZ	Continuous current / continuous current end	parallel	0.65	no / no	no

2 Conditions

2.1 Above mentioned safety component represents only a part at the protection device against over-speed for the car moving in upwards direction and unintended car movement. 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.

**Annex to the EU Type-Examination Certificate
No. EU-BD 819/1 of 2016-03-09**



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- 2.2 The installer of a lift must create an examination instruction to fulfil the overall concept, add it to the lift documentation and provide any necessary tools or measuring devices, which allow a safe examination (e. g. with closed shaft doors).
- 2.3 The manufacturer of the drive unit must provide calculation evidence that the connection traction sheave – shaft – brake disc and the shaft itself is sufficiently safe, if the brake disc is not a direct component of the traction sheave (e. g. casted on). The shaft itself has to be statically supported in two points.
An evidence must be enclosed with the technical documentation of the lift.
- 2.4 The setting of the brake torque has to be secured against unauthorized adjustment (e. g. sealing lacquer).
- 2.5 The respective identification drawing according to the following table shall be included to the EU type-examination certificate for the identification and information of the general construction and operation and distinctness of the approved type:

Size	No. of the identification drawing	Date of stamp
SZ300/_ _ _	1 12 107185	01.07.2009
SZ420/_ _ _	1 12 107272	15.03.2010
SZ420/_ _ _ SY	I-1 12 108237	09.03.2016
SZ600/_ _ _	1 12 107273	15.03.2010
SZ600/_ _ _ SY	I-1 12 108239	09.03.2016
SZ800/_ _ _	I-1 12 107213	09.03.2016
SZ800/_ _ _ AZ	I-1 12 108244	09.03.2016

- 2.6 The EU 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 The brake moments effectively adjusted of one brake circuit will be marked at the blank after the type designation ERS VAR07 SZXXX/_ _ _ XX.
- 3.2 In the scope of this type-examination it was found out, that the brake device also functions as a brake for normal operation, 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 and as braking element as part of the protection device against unintended car movement.
- 3.3 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.
- 3.4 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.
- 3.5 This EU type-examination certificate was issued according to the following standards:
 – EN 81-1:1998 + A3:2009 (D), Annex F.7 and F.8
 – EN 81-20:2014 (D), part 5.6.6.11, 5.6.7.13
 – EN 81-50:2014 (D), part 5.7 and 5.8
- 3.6 A revision of this EU 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 EU Type-Examination Certificate
No. EU-BD 819/1 of 2016-03-09**



Industrie Service

Authorised Manufacturer of Serial Production – Production Sites (valid from: 2016-01-22):

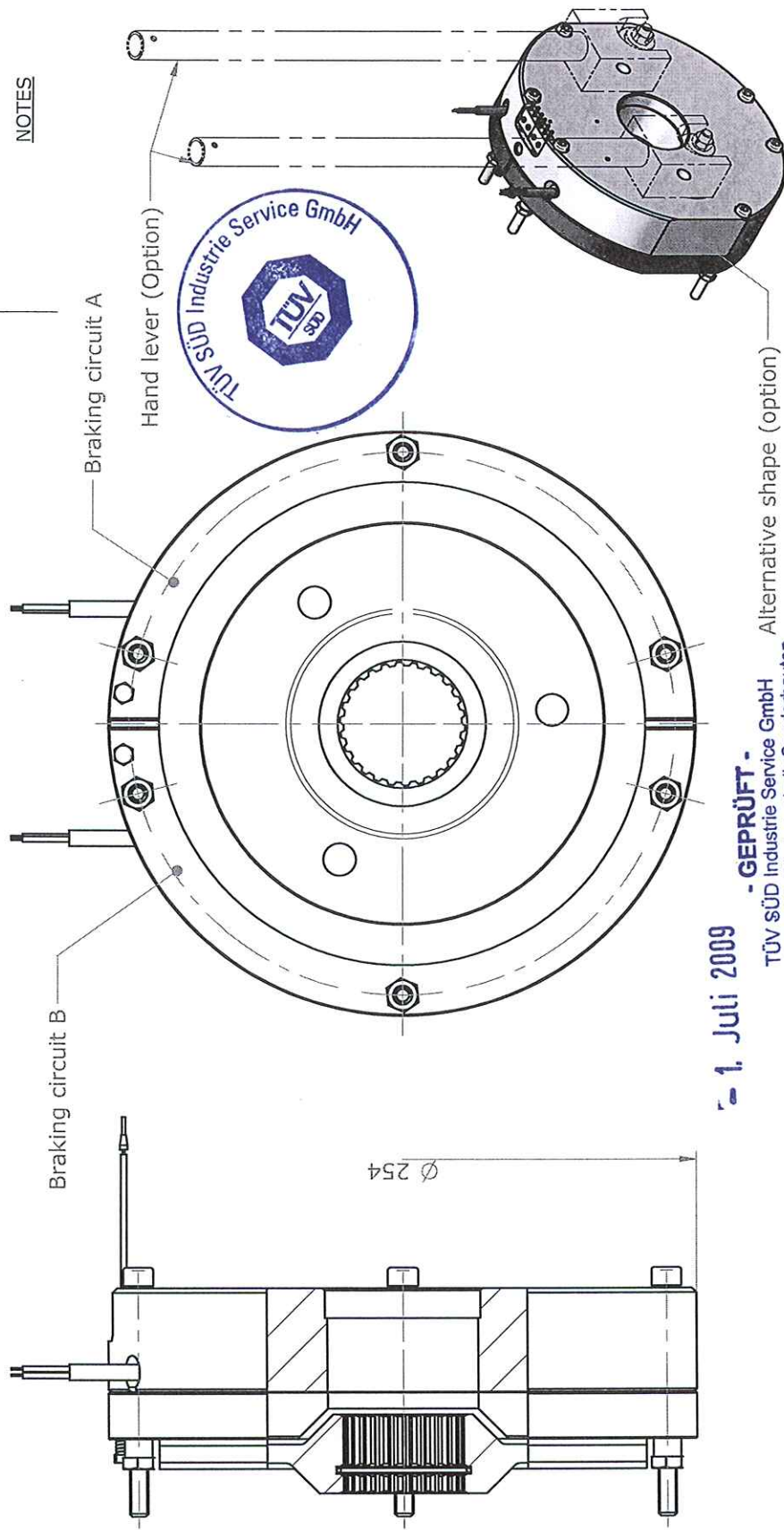
Company WARNER Electric Europe
Address 7, rue de Champfleür
BP 20095
49124 Saint Barthélemy d'Anjou - France

Company Altra Industrial Motion Shenzhen Co. Ltd.
Address Dabo Industry Zone
18 Huanzhen Road
Bogang County, Shajing Town
Baoan District, Shenzhen City
518104 Guangdong province - China (PRC)

- END OF DOCUMENT -

Les cotes sans indication de tolérances sont des cotes nominales.
 Untoleranced dimensions are nominal dimensions.

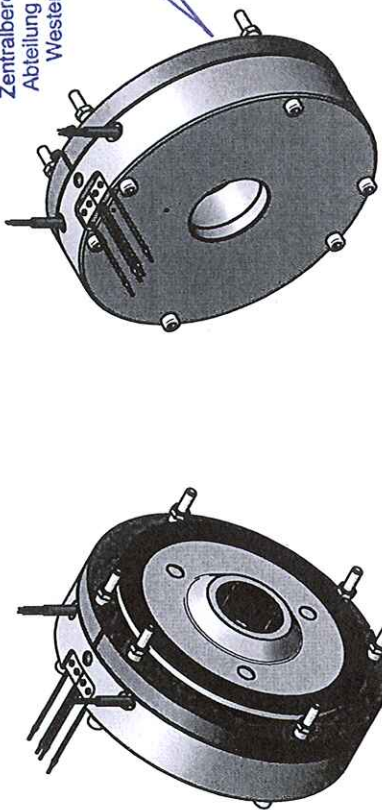
NOTES



1. Juli 2009

- GEPRÜFT -

TÜV SÜD Industrie Service GmbH
 Zentralbereich Fördertechnik-Sonderbauten
 Abteilung Aufzüge und Sicherheitsbauteile
 Westendstr. 199, D-80688 München
 Der Sachverständige



TUV DIFFUSION

Client/customer:	
Ms (Nm) :	Customer ref :
Md (Nm) :	Dimensions in mm :
n Md (min-1) :	Manual/Notice : SM
n max (min-1) :	Mass :
U (Vdc) :	Scale: 1:1
P20°C (W) :	Insulation class (°C):

FM	LT	REVISION	DATE	By	Ch.
Drawn : G. Ferrand			Date: 21.04.09		
Checked: JcJ			Date: 21.04.09		

Design: **Frein électromagnétique**
 Electromagnetic brake
 Type: **ERS VAR07 SZ300/300**

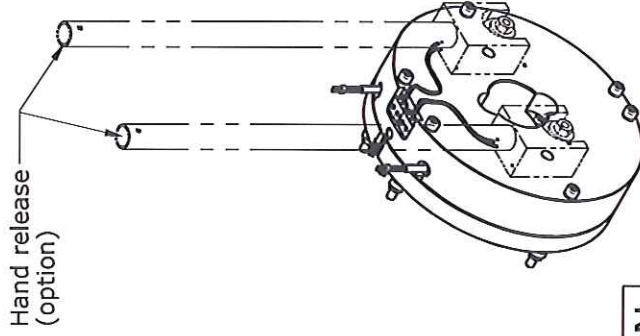
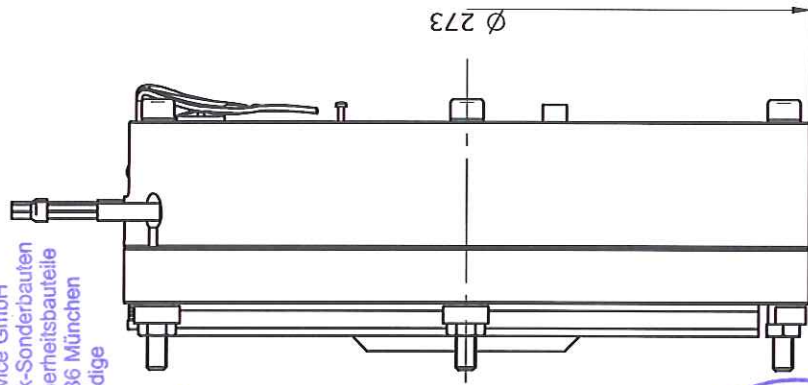
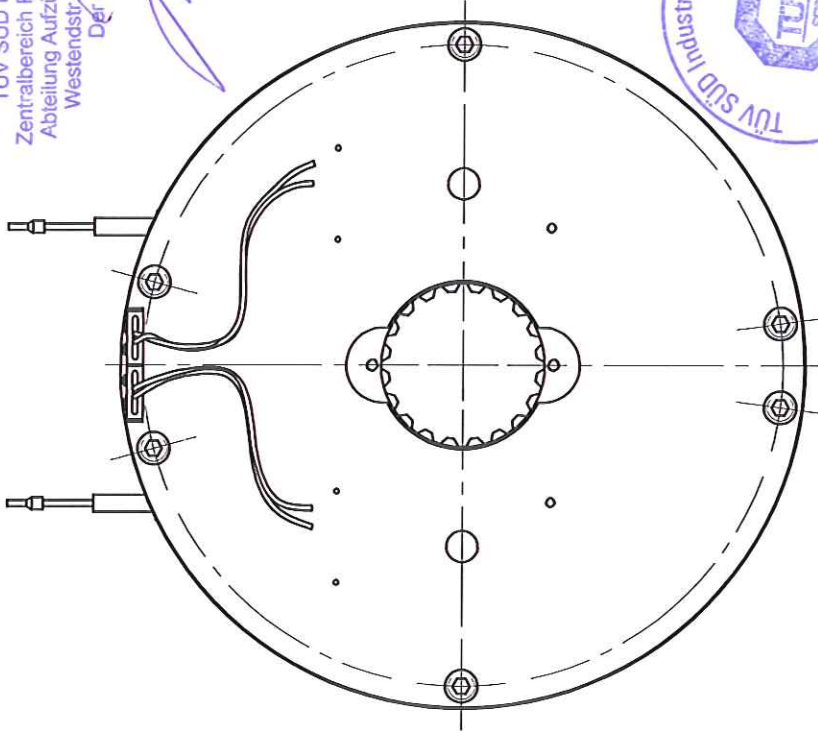
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N° 1 12 107185

15. März 2010

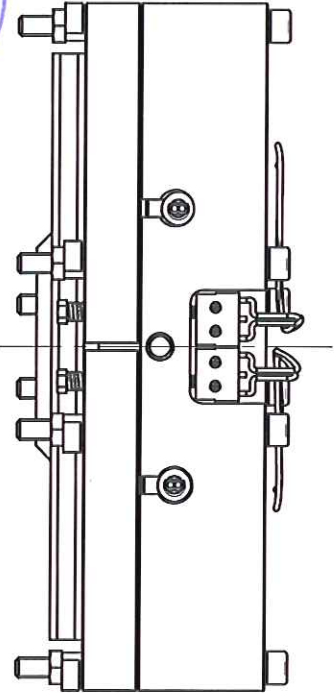
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 Abteilung Aufzüge und Sicherheitsbauteile
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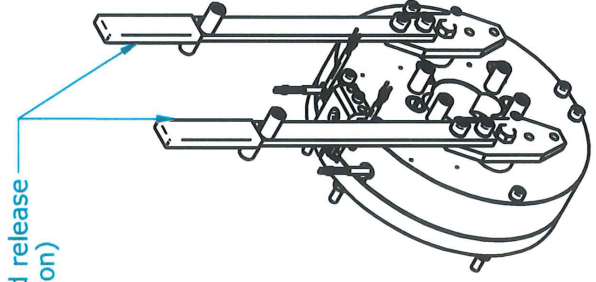
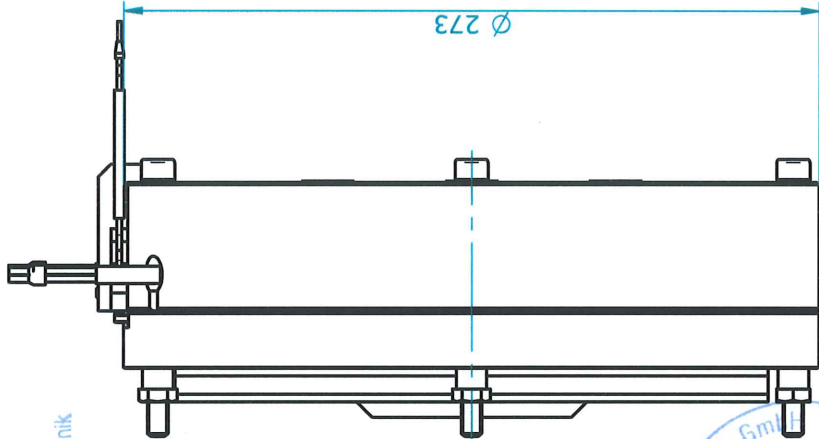
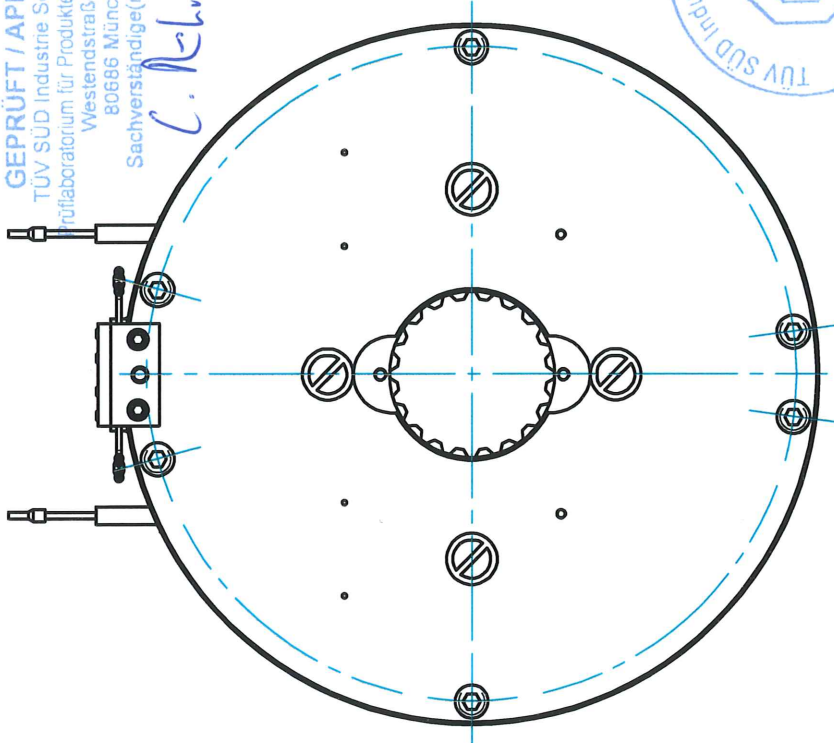


Client/customer:		Customer ref.:	
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Md (Nm) :		Manual/Notice : SM	
n Md (min-1) :		Mass :	Scale : /
n max (min-1) :		Insulation class (°C) :	
U (Vdc) :		Ce plan est la propriété de Warner Electric Europe, il ne peut être divulgué ni reproduit entièrement ou partiellement, sans autorisation écrite.	
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PM		LT	REVISION
DATE		DATE	
By		By	
Ch.		Ch.	
Drawn : G. Ferrand		Date: 04.01.10	
Checked: JcJ		Date: 04.01.10	
Frein électromagnétique			
Electromagnetic brake			
Type: ERS VAR07 SZ420/-----			
N°		1 12 107272	

0 9. MRZ. 2016

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

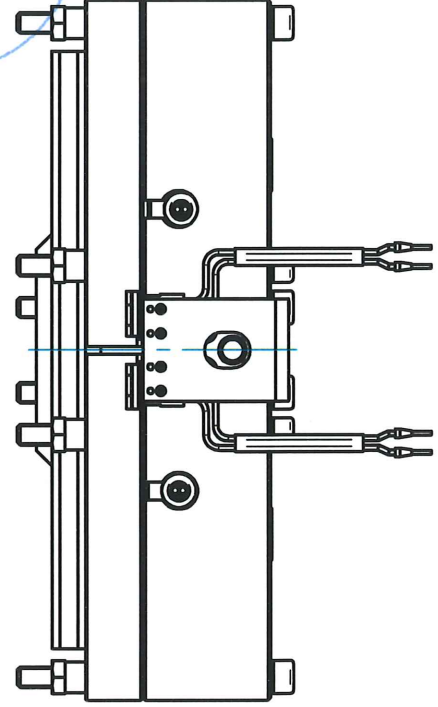
C. Rehminger



Hand release
(option)

NOTES

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 Untoleranced dimensions are nominal dimensions.



TUV Diffusion

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Ms (Nm) :		
Md (Nm) :		
n Mid (min-1) :		
n max (min-1) :		
U (Vdc) :		
P 20°C :		
Insulation class (°C) :		
<p>Last modifications in Blue Dernières modifications en Bleu</p>		<p>Dimensions in mm</p> <p>Manual / Notice:</p> <p>Scale:</p>
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<p>Altra Electric Clutch Brake Group Warner Electric • Matrix International Inertia Dynamics • Warner Linear www.altramotion.com</p>		

FM	LT	REVISION	DATE	By	Ch.
A		Drawing creation	18/02/16	JE	XG
		Drawn: J.Emery	Date: 18/02/16		
		Checked: XG	Date: 19/02/16		
Design.:			Frein électromagnétique		
			Electromagnetic brake		
Type:			ERS VAR07 SZ420/---SY		
SAP N°:					
Dwg N°:			I-1 12 108237		
Rev.			A		



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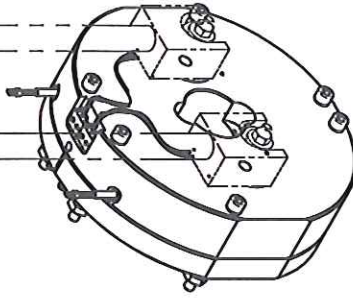
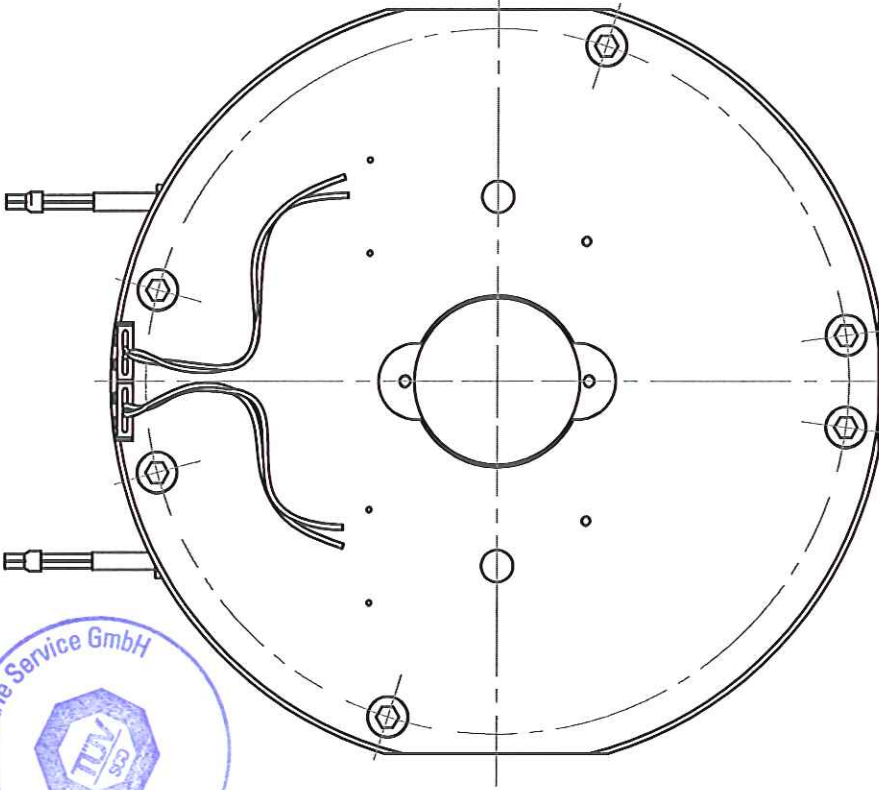
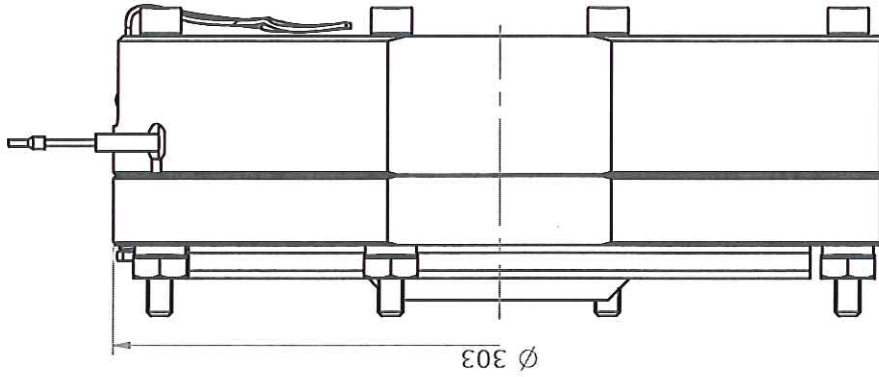
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15. März 2010

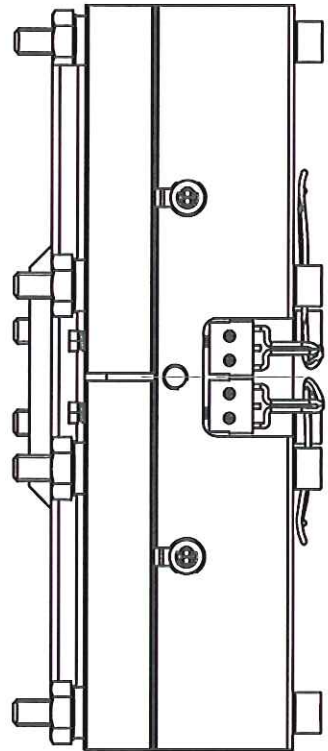
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 Der Sachverständige

Hand release
 (option)



TUV DIFFUSION



Client/customer:		Customer ref :
M _s (Nm) :	Dimensions in mm	
M _d (Nm) :	Manual/Notice : SM	
n Md (min-1) :	Mass :	
n max (min-1) :	Scale :	
U (Vdc) :	Insulation class (°C):	
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Warner Electric Europe

FM	LT	REVISION	DATE	By	Ch.
			Drawn : G. Ferrand	Date: 04.01.10	
			Checked: LcJ	Date: 04.01.10	

Design: Frein électromagnétique
 Electromagnetic brake

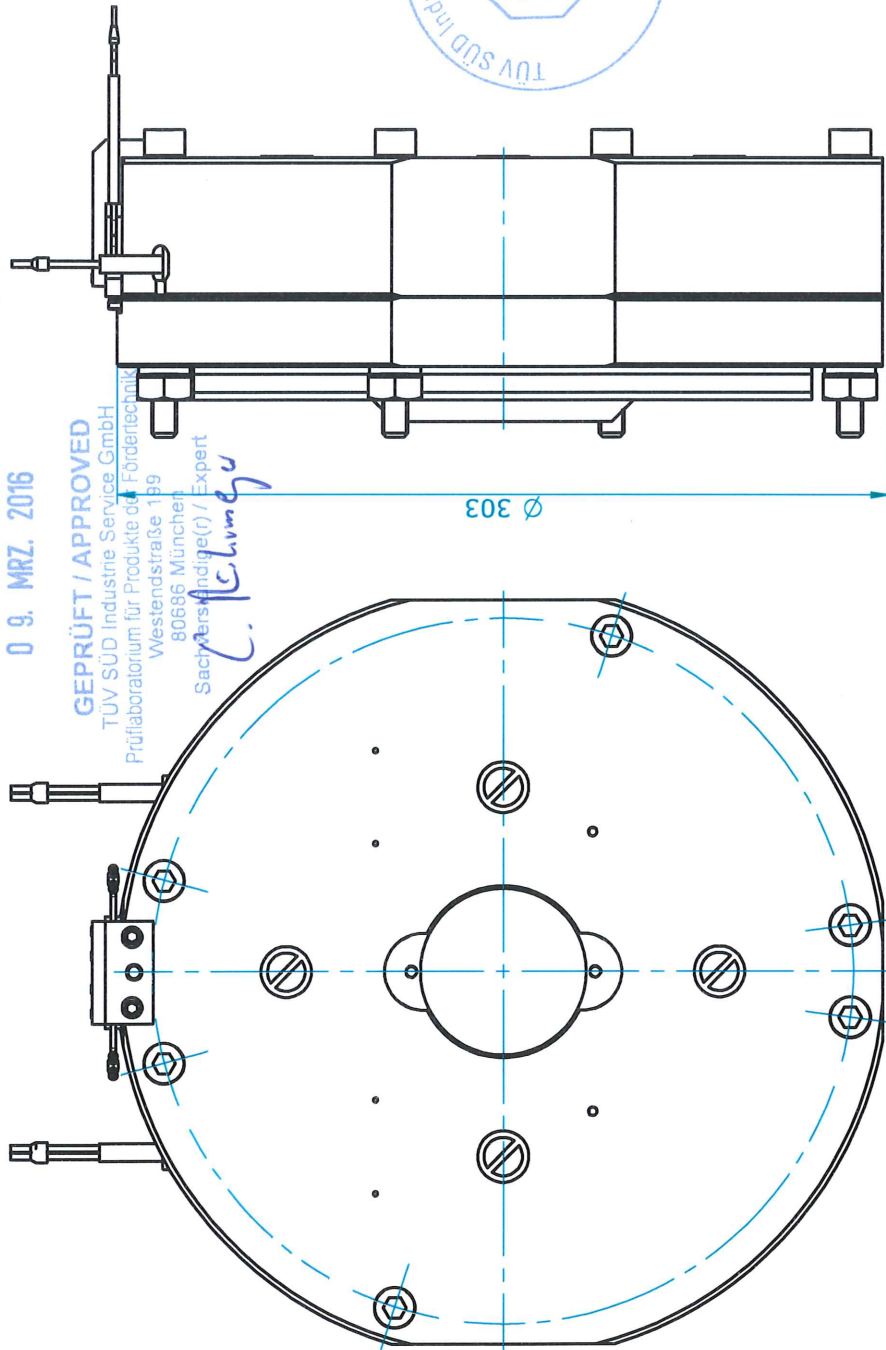
Type: ERS VAR07 SZ600/---

N° 1 12 107273

09. MRZ. 2016

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Westendstraße 199
80686 München
Sachverständiger(r) / Expert
C. Ludwig



Hand release
(option)



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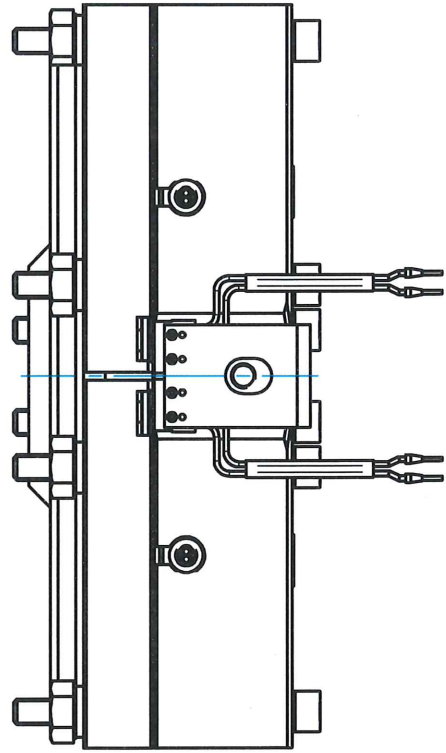
NOTES

TUV Diffusion

Last modifications in Blue
Dernières modifications en Bleu

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n max (min-1) :	Mass:
U (Vdc) :	Scale:
P 20°C :	Insulation class (°C) :

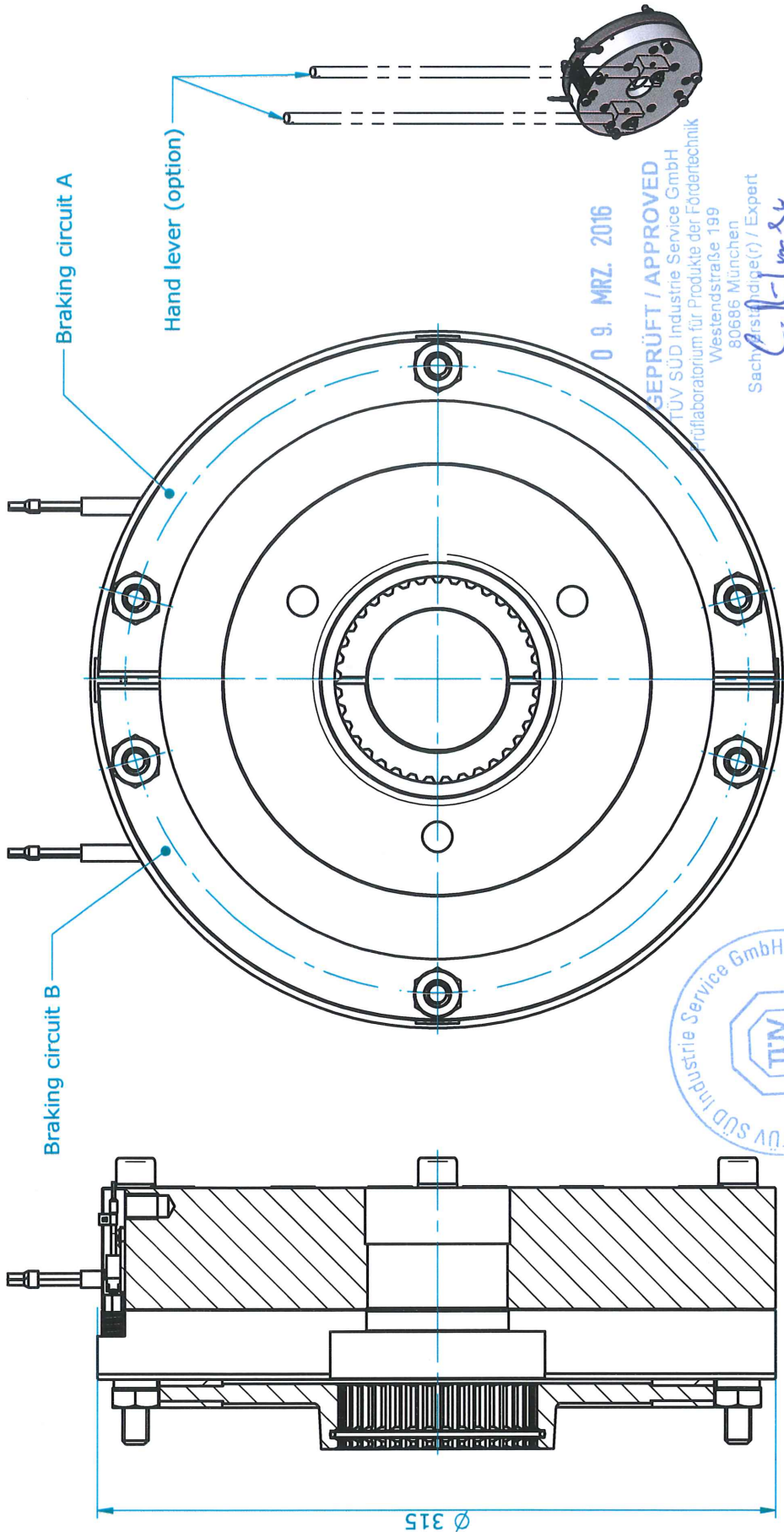
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FM	LT	REVISION	DATE	By	Ch.
A		Drawing creation	18/02/16	JE	JE

Drawn: J.Emery
Checked: *JE*
Date: 18/02/16
Date: 19/02/16

Design.: **Frein électromagnétique**
Electromagnetic brake
Type: **ERS VAR07 SZ600/---SY**
SAP N°:
Dwg N°: **I-1 12 108239**
Rev. **A**



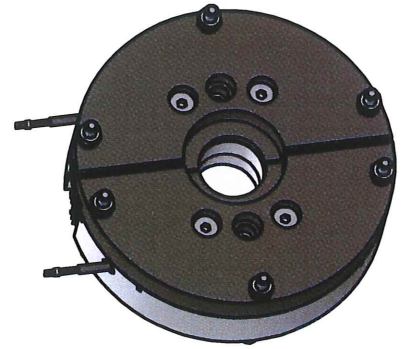
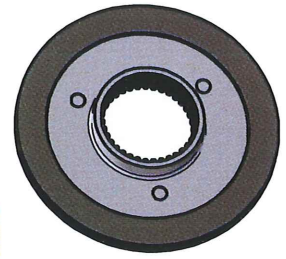
09. MRZ. 2016

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 Sachverständige(r) / Expert
C. Klumpp



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Client / Customer:		Customer ref:	
Ms (Nm) :		Dimensions in mm	
Md (Nm) :		Manual / Notice:	SM
n max (min-1) :		Mass:	
U (Vdc) :		Scale:	
P 20°C :		Insulation class (°C) :	
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<p>Last modifications in Blue <i>Dernières modifications en Bleu</i></p>			
FM	LT	REVISION	By Ch.
B		Drawing updating	JE
		DATE	25/02/16
		Drawn: J. Emery	Date: 25/02/16
		Checked: XG	Date: 25/02/16
Design.:		Electromagnetic Brake	
		Frein Electromagnétique	
Type:		ERS VAR07 SZ800 / ---	
Dwg No.:		I-1 12 107213	
SAP No.:			
			Rev. B



Certificate concerning the examination of traction sheave shaft calculation including shaft to collar connections

Neuhausen, den 14. Januar 2016

Lift machine type: PMC145M2/XM2

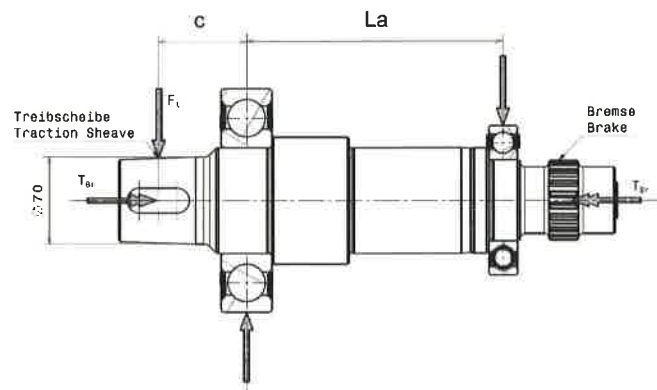
Brake type: ERS VAR 07 SZ420 – 2x350Nm according

- EC-Type – Examination ABV 843/x
- EC-Type – Examination EU-BD 819/x

Manufacturer: ThyssenKrupp Aufzugswerke GmbH
Bernhäuser Str.45, 73765 Neuhausen a.d.F.

Object examined: Calculation of traction sheave shaft including shaft to collar connections

Examination basis: DIN743, DIN743, machine elements Niemann/Winter/Höhn (2005)



Design drawing: 6251 000 0246 (PMC145M2), 6251 000 0245 (PMC145XM2)

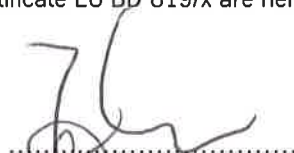
Material: C45R+N (1.1201)

Load data:

Lift machine type	Distance Traction sheave c	Bearing Distance La	Max. Shaft load Ft	Nominal brake torque T _{Br}	Max. brake torque 2,0 x T _{Br}
	(mm)	(mm)	(kN)	(Nm)	(Nm)
PMC145M2	81	206	18	2x350=700	1400
PMC145XM2	83	238	19		

Examination result:

For the examination calculations were carried out based on the examination basis. The result was that the traction sheave shaft and the shaft to collar connections were designed according the maximum load data. The remarks in the maintenance instructions are to be observed. The conditions mentioned in annex the EC Type-Examination Certificate no. ABV 843/x respectively EC Type-Examination Certificate EU BD 819/x are herewith fulfilled.


.....
(Executive board)


.....
(Engineering CCU-TD)

Certificate concerning the examination of traction sheave shaft calculation including shaft to collar connections

Neuhausen, den 14. Januar 2016

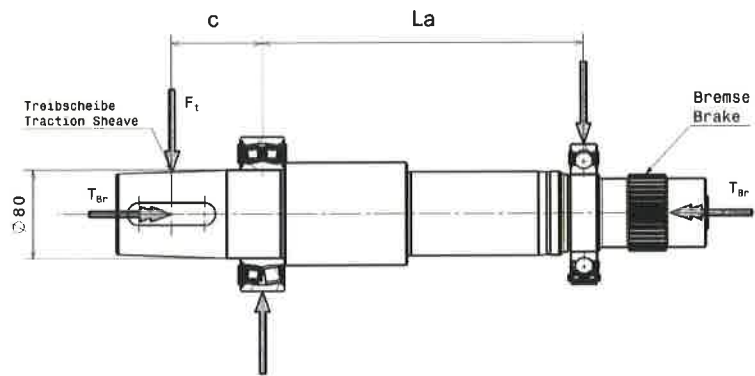
Lift machine type: PMC145L2/XL2

Brake type: ERS VAR 07 SZ600 – 2x550Nm according
 • EC-Type – Examination ABV 844/x
 • EC-Type – Examination EU-BD 819/x

Manufacturer: ThyssenKrupp Aufzugswerke GmbH
 Bernhäuser Str.45, 73765 Neuhausen a.d.F.

Object examined: Calculation of traction sheave shaft including shaft to collar connections

Examination basis: DIN743, DIN743, machine elements Niemann/Winter/Höhn (2005)



Design drawing: 6251 000 0252 (PMC145L2), 6251 000 0251 (PMC145XL2)
Material: C45R+N (1.1201)

Load data:


Lift machine type	Distance Traction sheave c	Bearing Distance La	Max. Shaft load Ft	Nominal brake torque T _{Br}	Max. brake torque 2,0 x T _{Br}
	(mm)	(mm)	(kN)	(Nm)	(Nm)
PMC145L2	85	262	32	2x550=1100	2200
PMC145XL2	85	292	30		

Examination result:

For the examination calculations were carried out based on the examination basis. The result was that the traction sheave shaft and the shaft to collar connections were designed according the maximum load data. The remarks in the maintenance instructions are to be observed. The conditions mentioned in annex the EC Type-Examination Certificate no. ABV 844/x respectively EC Type-Examination Certificate EU BD 819/x are herewith fulfilled.



 (Executive board)



 (Engineering CCU-TD)



Industrie Service

TÜV SÜD Industrie Service GmbH · 80684 Munich · Germany

Choose certainty.
Add value.

WARNER Electric Europe
7, rue de Champfleür
49124 St. Barthélemy d'Anjou
France



Your reference/letter of	Our reference/name	Tel.-Extension/E-Mail	Fax-Extension	Date	Page
	IS-FT1-MUC/cr Christian Rührmeyer	+49 89 5791-3450 christian.ruehrmeyer@tuv-sued.de	+49 89 5791-3337	2016-03-21 Warner_Bestätigung_EN81-20_50_160321_en.docx	1 of 3

Fulfillment of requirements concerning type-examinations of ascending car overspeed protection means (ACOP) and protection devices against unintended car movement according to the harmonized standard EN 81-50:2014 (D) by (EC) type-examination certificates according to Directive 95/16/EC

Dear Sirs,

For the products listed below were issued (EC) type-examination certificates according to Directive 95/16/EC. Test basis was the harmonized standard EN 81-1. In the meantime EU type-examination certificates according to Directive 2014/33/EU were issued for the tested products. So far as relevant, additional requirements of the harmonized standard EN 81-20:2014 (D) were taken into consideration.

Type:	(EC) type-examination certificate	EU type-examination certificate
ERS VAR08 Size: SZ600/____, SZ1050/____, SZ1700/____	ABV 590/3, ESV 590/5 ABV 818/1, ESV 818/2 ABV 880, ESV 880	EU-BD 590
ERS VAR09 Size: SZ200/____, SZ800/____, SZ1700/____	ABV 817/1, ESV 817 ABV 729/2, ESV 729/1 ABV 591/5, ESV 591/8 ABV 591/6, ESV 591/9	EU-BD 591

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ERS VAR09 Size: SZ200/____, SZ600/____, SZ600/____ FZ, SZ800/____, SZ1000/____, SZ1700/____, SZ1700/1200 CH	ABV 817/1, ESV 817 ABV 809/3, NL 11-400-1002-153-01 (R2) ABV 809/2, NL 11-400-1002-153-01 (R1) ABV 729/2, ESV 729/1 ABV 811/2, NL 11-400-1002-153-02 (R2) ABV 591/5, ESV 591/8 ABV 591/6, ESV 591/9 ABV 591/4, ESV 591/6	EU-BD 591/1
ERS VAR10 Size: SZ1010/____, SZ2500/____, SZ5000/____	ABV 592/3, ESV 592/2 ABV 604/3, ESV 604/3 ABV 829/1, ESV 829/1	EU-BD 592
ERS VAR15-02 Size: FT2110/____, FT2110/____ SY	ABV 777/5, ESV 777/5 ABV 777/3, ESV 777/3	EU-BD 777
ERS VAR07 Size: SZ300/____, SZ420/____, SZ600/____, SZ800/____	ABV 819/2, ESV 819/1 ABV 826/2, ESV 826/1 ABV 843/1; ESV 843/1 ABV 844/1, ESV 844/1	EU-BD 819
ERS VAR07 Size: SZ300/____, SZ420/____, SZ420/____ SY, SZ600/____, SZ600/____ SY, SZ800/____, SZ800/____ AZ	ABV 819/2, ESV 819/1 ABV 826/2, ESV 826/1 ABV 843, ESV 843 ABV 843/1; ESV 843/1 ABV 844, ESV 844 ABV 844/1, ESV 844/1	EU-BD 819/1
ERS FENIX 08 Size: 06-____, 10-____	ASBV 905/1 ASBV972	EU-BD 905
ERS FENIX 09 Size: 06-____, 10-____	ASBV 906/1 ASBV 973	EU-BD 906
ERS FENIX 10 Size: 12-____, 20-____	ASBV 907/1 ASBV 974	EU-BD 907

According to the new standard EN 81-50:2014 (D) there are new requirements for the type-examination of the braking devices as part of the ascending car overspeed protection means (ACOP) and against unintended car movement (UCM) respectively the requirements have changed. But these requirements already have been considered in the past. For this reason additional tests were not necessary. The content of the EC type examination certificates was formally adapted. The safety components mentioned above fulfill the requirements of the harmonized standard EN 81-50:2014 (D) already.

For the function as safety component as part of the ascending car overspeed protection means (ACOP) the transitional regulation according to Article 44 of the Directive 2014/33/EU is fully applicable.

In the future protecting devices against unintended car movement (UCM) will be safety components according to Annex III of the Directive 2014/33/EU.

Furthermore according to Article 44 of the Directive 2014/33/EU the making available on the market of safety components for lifts covered by Directive 95/16/EC which are in conformity with that Directive and which were placed on the market before 20 April 2016 shall not be impeded. To avoid problems in the meantime with document NB-L/2015-061 of 2015-07-06 Notified Bodies Lift (NB-Lift) suggested to apply Article 44 for components of protecting devices against unintended car movement (UCM) analogously. A definitive statement of NB-Lift respectively the European Commission is planned, but is pending. After

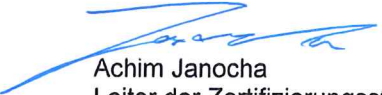


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consideration a transformation of the existing type-examination certificates in EU type-examination certificates is possible.

For this reason, additional formal requirements and due to the validity of the new Lift Directive 2014/33/EU from 2016-04-20, EU type-examination certificates already may be issued, but they are valid from 2016-04-20 only.

Best regards


Achim Janocha
Leiter der Zertifizierungsstelle
für Produkte der Fördertechnik


Christian Rührmeyer
Niederlassung München
Abteilung Fördertechnik

Warner Electric Europe

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 49182 St Barthélemy d'Anjou

**DECLARATION OF CONFORMITY TO
 THE DIRECTIVE 2014/33/EU**



This is to declare that the following safety device listed in appendix III point 2 of the directive 2014/33/EU

Product: **Braking system**

According to the following specification:

Brake type	Part N°	Drawing N°	Voltage (Vdc)	Torque or Tangential Force	EU type examination + NB		T10 (ms)	T90 (ms)
ERS VAR07 SZ420/350 SY	30315184	I-112107260	103/72	2x350Nm	EU-BD819/1	NB0036	95	160
	30315418	I-112107763	103/72	2x350Nm	EU-BD819/1	NB0036	95	160
ERS VAR07 SZ600/550 SY	30315185	I-112107261	103/72	2x550Nm	EU-BD819/1	NB0036	80	135
	30315419	I-112107764	103/72	2x550Nm	EU-BD819/1	NB0036	80	135
ERS VAR08 SZ1700/1700	To Create	I-112108241	180/90	1700Nm	EU-BD590	NB0036	70	250
ERS VAR09 SZ1700/1250	30351931	I-112108213	103/52	2x1250Nm	EU-BD591	NB0036	80	230
ERS VAR09 SZ1700/1700	30315074	I-112106605-R	103/72	2x1700Nm	EU-BD591	NB0036	50	160
ERS VAR10 SZ2500/2500	30343591	I-112108034	180/90	2500Nm	EU-BD592	NB0036	70	170
ERS VAR10 SZ2500/3000	30343588	I-112108036	180/90	3000Nm	EU-BD592	NB0036	70	230
ERS VAR10 SZ5000/5000	30348450	I-112108167	180/90	5000Nm	EU-BD592	NB0036	125	255
ERS VAR15-02 FT2110/2415N SY	30315189	I-112107265	103/72	2415N	EU-BD777	NB0036	70	100
	30315417	I-112107762	103/72	2415N	EU-BD777	NB0036	70	100
ERS FENIX 09 10-1200	30343444	I-112108053	103/72	2x1200Nm	EU-BD906	NB0036	100	185

Warner Electric Europe

7, rue Champfleür

B.P. 20095

49182 St Barthélemy d'Anjou

**DECLARATION OF CONFORMITY TO
THE DIRECTIVE 2014/33/EU**



Year of manufacture : **See brake label**
Manufactured by : **Warner Electric Europe**

That has obtained the UE type examination N° (see table above) by the following notified body :

Notified body (NB)

TÜV SÜD Industrie Service GmbH

Westendstr. 199

D 80686 MÜNCHEN

Covered par the Quality Insurance attestation Module E N°2002/2820/013D delivered by the following body :

AFNOR Certification NB 0333
11 rue Francis de Pressensé
93571, La plaine St Denis Cedex France

**Is compliant with the Directive 2014/33/EU and applied the harmonized standard
EN81-20:2014 and EN81-50:2014**

Function : **Operation Quality Manager**

Name : **Ms Lucie Godicheau**

Date :

29/04/16

Visa :

A handwritten signature in blue ink, appearing to be 'Lucie Godicheau'.

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