



# Installation Instructions

**ELEKTROMAT**

**SI 80.12-55,00 Ex**

Model: 10005486 00001

**-en-**

Status: 08.04.2024



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**Symbols**



**Warning** - Potential injury or danger to life!



**Warning** - Danger to life from electric current!



**Note** - Important information!



**Requirement** - Required action!

Schematic representations are based on product examples. Deviations from delivered products are possible.



# 1 General safety information

## Specified use

The drive unit is intended for doors that must be secured against dropping.

A safety brake is integrated into the gearbox. The drive unit must be mounted directly on the shaft of the door. The drive unit can be used in hazardous areas thanks to its explosion protection according to ATEX 2014/34/EU.

The drive unit must be protected against moisture and aggressive environmental conditions (such as corrosive substances). The drive units are only suitable for indoor use. Appropriate protective measures must be taken for outdoor installation. The values specified in the technical data of the drive unit must not be exceeded. The safe operation can only be ensured if used as specified.



### Note - Only for installations in Australia

This Product has not been safety tested in accordance with Australian Standard AS/NZS 60335.2.95:2020 Household and similar electrical appliances - Safety, Part 2.95: Particular requirements for drives for vertically moving garage doors for residential use for hazards when installed in residential environments.

## Target audience of these installation instructions

These installation instructions are geared towards qualified persons trained in the handling of door systems. Expert knowledge, relevant skills and practical experience are what set apart qualified persons. They are capable of safely carrying out the tasks involving installation, maintenance and modernisation according to the instructions.

## Safe operation

The safe operation of the product can only be ensured if it is used as specified. Follow the installation instructions. Observe all specifications, especially warnings, when installing the product in the overall system. GfA is not liable for damage resulting from non-observance of the installation instructions. The resulting overall system must be reassessed for its safety in accordance with applicable standards and directives (e.g. CE marking). These installation instructions refer only to a part of the overall system and are not sufficient as the sole instructions for the overall system. The installer of the system must prepare the instructions for the overall system. We recommend entering the danger area of the system only when the drive unit is at a standstill.



**Warning - Failure to follow these installation instructions may result in severe injury or death.**

- Please read these instructions before using the product.
- Keep these instructions handy.
- Include these instructions when passing on the product to third parties.



**Warning - Danger from improper use of the product!**

- Do not let children operate the product unsupervised or use as a toy.



**Warning - Danger to life from incorrect installation!**

Work carried out improperly may result in death or severe injury from electrical current or falling parts.

- Allow only competent people to carry out the work.
- Disconnect all cables from the power supply.
- Observe valid regulations and standards.
- Use suitable tools.



**Warning! Danger to life from falling objects if the drive unit is subjected to impermissible forces.**

Inadmissible forces (examples: collision with a forklift, dropping the drive unit, tearing or pulling on the motor) lead to damage to the drive unit. There is a risk of severe injury or death from falling objects.

- Prevent impermissible forces from acting on the drive unit,
- Check the drive unit for damage if impermissible forces have acted on it. Look even for minor damage. Lock the door during the inspection.
- Contact the service department if you have difficulty assessing the damage.

## 2 Technical data

Designation		Unit
Output speed	12	rpm
Output torque	800 (610) <sup>1)</sup>	Nm
Output / hollow shaft	55,00	mm
Series	SG 115F	-
Limit switch range (maximum revolutions of the output / hollow shaft)	20	-
Supply voltage	3~ 400	V
Operating current	2,70	A
Operating frequency	50	Hz
Power factor cos $\phi$	0,65	-
Safety circuit	24	V
Degree of protection	IP 65	-
Temperature range	-20 / +40	°C
Operating sound pressure level	< 70	dB(A)
Cycles per hour	12 (10,2) <sup>1)</sup>	h <sup>-1</sup>
Max. holding torque	800	Nm
Locking torque	2800	Nm
Safety brake (testing centre / approval number)	14-003305-PR01	-
Manual force emergency manual operation	159	N
Explosion protection	II 2G Ex db eb h IIC T4 Gb II 2D Ex tb h IIIC 130°C Db	
Installation height	< 1000	m

Components used	
Gearbox	SG 115F 123.T4
Motor	RL 90S4
Terminal box	8146/1041
Limit switch / emergency manual operation switch	07-2511

### 3 Technical data gearbox

Designation		
Series	SG115F-123.T4	
Manufacturer	GfA	
Explosion protection	II 2G Ex h IIC T4 Gb II 2D Ex h IIIC 130°C Db	
Max. output torque	800	Nm
Max. output speed	15	min <sup>-1</sup>
Shaft centre distance	115	mm
Transmission ratio	1 : 123	
Temperature range	-20 / +40	°C
Protection class	IP 65	

## 4 Technische Daten Motor

Bezeichnung		
Typ	RL 90S4	
Hersteller	RAEL MOTORI ELETTRICI S.R.L	
Explosionsschutz	II 2G Exde IIC T4 Gb II 2D Ex tb IIIC T135° Db	
Prüfbescheinigung	CESI 20 ATEX 040 X	
Betriebsspannung	230 / 400	V
Betriebsstrom	4,67 / 2,7	A
Betriebsfrequenz	50	Hz
Leistung	1,1	kW
Leistungsfaktor $\cos \phi$	0,65	
Motordrehzahl	1440	min <sup>-1</sup>
Motordrehmoment	7,7	Nm
Betriebsart	S1	
Schutzart	IP66	
Temperaturklasse	T4	
Verhältnis IA / IN	4,2	
Bremsmoment Federkraftbremse	10	Nm
Bremsspannung	105	V DC
Betriebsstrom Federkraftbremse	1	A
Gleichrichtertyp	DC	
Temperaturbereich	-20 °C - 40 °C	°C



## 5 Technical data terminal box

Designation		
Type	Ex e 8146/1041	
Manufacturer	Stahl	
Explosion protection	II 2G Ex e II T6 II 2D Ex tD A21 IP 66 T80°C	
Certificate of verification	PTB 01 ATEX 1016	
Supply voltage	250 max. 1100	V
Terminal cross-section	2,5	mm <sup>2</sup>
Temperature range	T6: -20 / +40 T5: -20 / +55	°C
Degree of protection	IP 65	

## 6 Technical data limit switch / switch emergency manual operation

Designation		
Type	07-2511-113061G	
Manufacturer	Bartec	
Explosion protection	II 2G Ex d IIC T6 II 2D Ex tD A21 IP 66 T80°C	
Certificate of verification	EPS 14 ATEX 1766 X	
Supply voltage	400	V
Temperature range	-20 / +40	°C
Degree of protection	IP 66	

### **CAUTION**

#### **Component damage can result**

- The maximum allowable current applied to the limit switches is 2A 400V for AC-15 and 0.15 250V for DC-13.

## 7 Integrated safety brake

A safety brake is integrated into the gearbox of this ELEKTROMATEN. The safety brake protects against the door dropping due to breakage or wear of the gear teeth. The safety brake works regardless of the mounting position, speed and rotating direction. It is maintenance-free. The specification of the locking torque and the approval number of the safety brake are available in the technical data of these instructions.



### Warning - Danger of the door dropping!

If you need to apply more than the permissible force of 390N (according to DIN EN 12604/DIN EN 12453) to move the door by emergency manual operation, this indicates a stalling on the drive unit or door. Releasing the stalling may cause the door to drop.

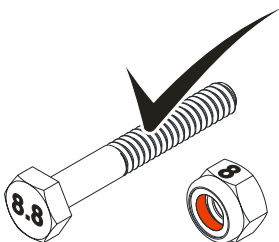
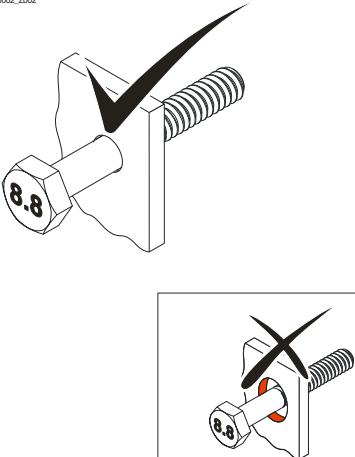
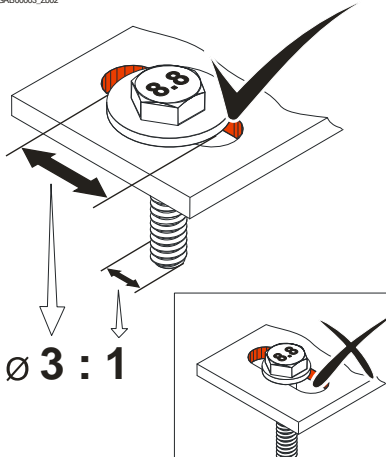
- Adopt a secure position.
- For drive units with brake, the emergency manual operation must be carried out against the closed brake.

## 8 Mechanical installation

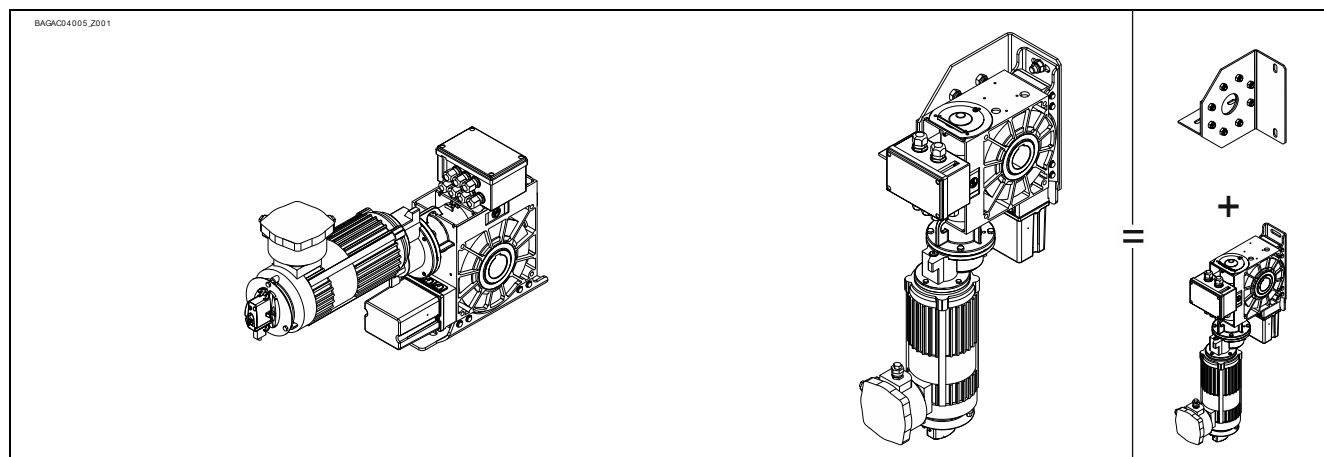
### Requirements

The permissible loads on walls, mountings, connection and transmission elements must not be exceeded even for maximum holding or locking torque (► observe technical data).

### Connection elements

<p>Use self-locking connection elements with a minimum strength of 800 N/mm<sup>2</sup> (8.8).</p>	<p>Use a screw that precisely fits the hole.</p>	<p>Use adequately dimensioned washers for elongated holes.</p>
<p><small>BAGAB00001_Z002</small></p>  <p><b>≥ 800 N/mm<sup>2</sup></b></p>	<p><small>BAGAB00002_Z002</small></p> 	<p><small>BAGAB00003_Z002</small></p>  <p>∅ 3 : 1</p>

### Permissible mounting positions





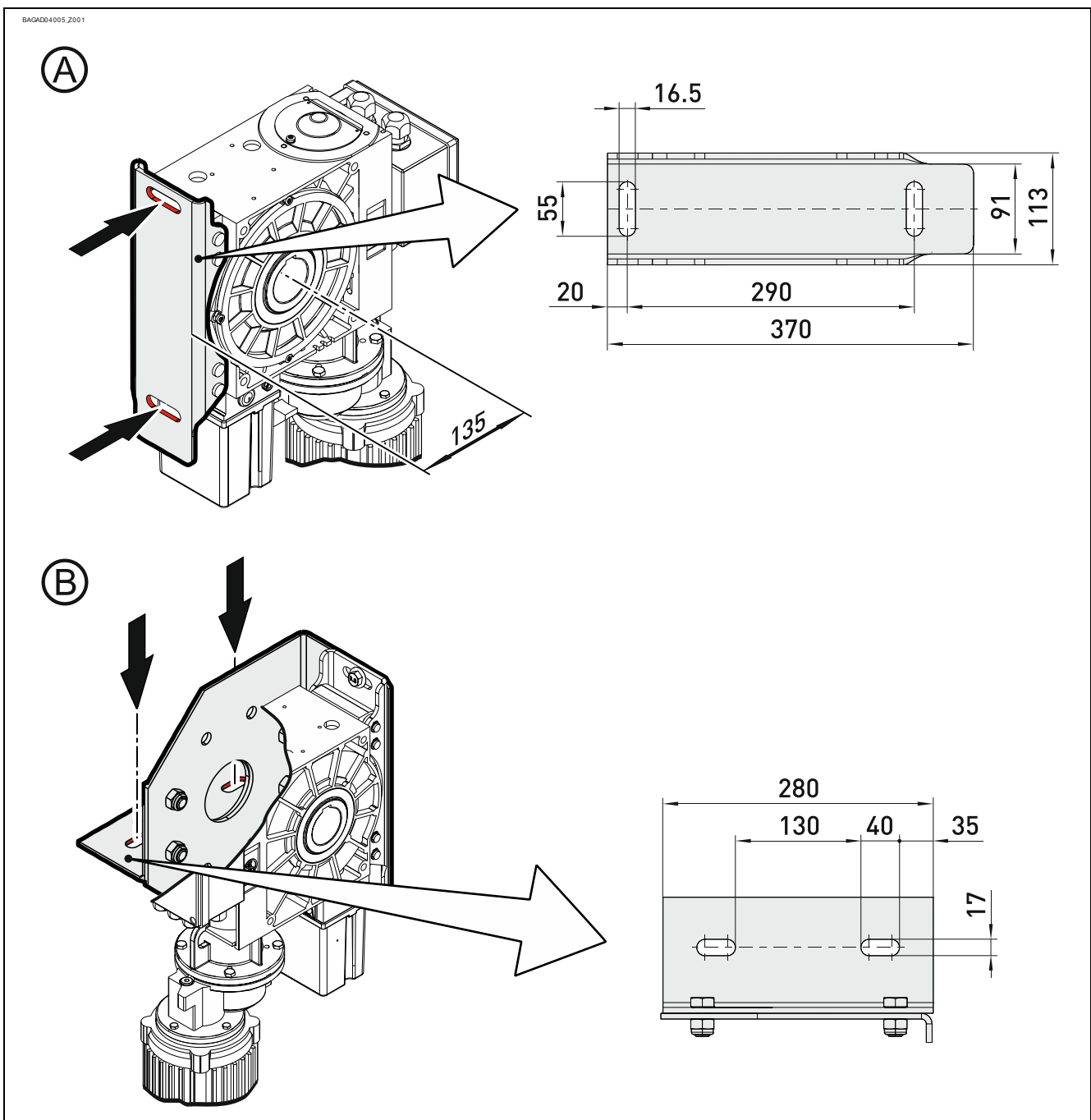
Warning – Explosion hazard!

- Check the atmosphere for explosion hazards before commencing installation

## Mounting

2 elongated holes are provided for mounting (Ⓐ+Ⓑ).

- ▶ Installation in the vertical position is only permitted with an additional torque mount (Ⓑ).



## Installation

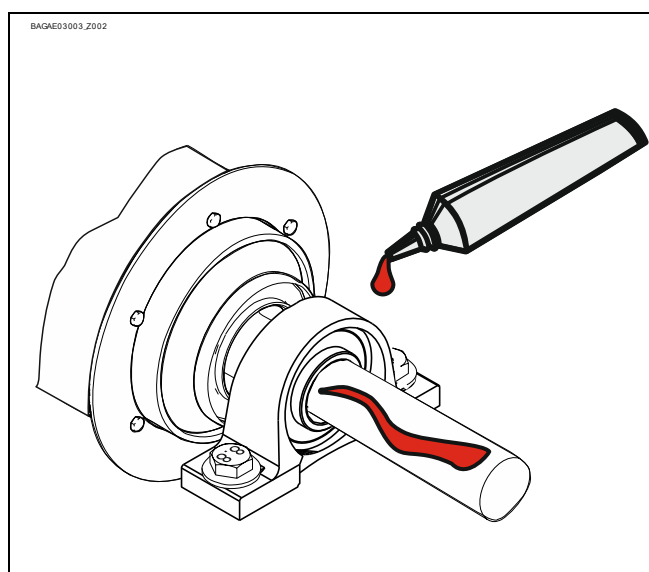
The following descriptions refer to a door which is not further defined. The door manufacturer's specifications must also be observed.



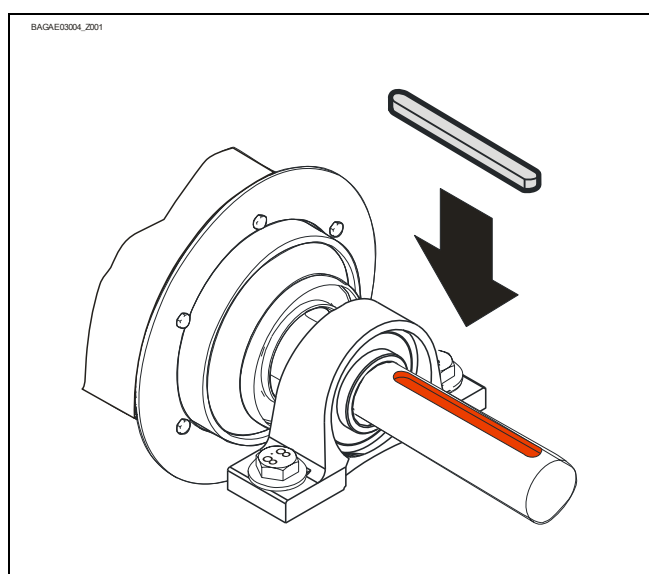
Warning – Injury or danger to life possible!

- Use a lifting device with sufficient load-carrying capacity for installation tasks.

Completely grease the door shaft.

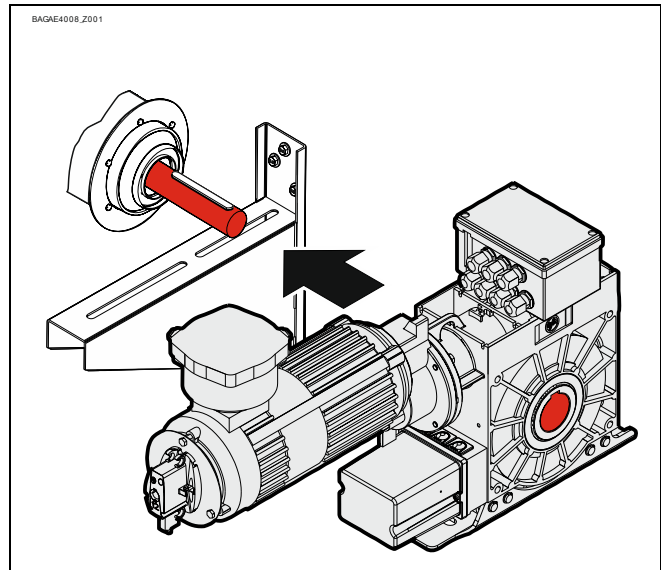


Mount the key.



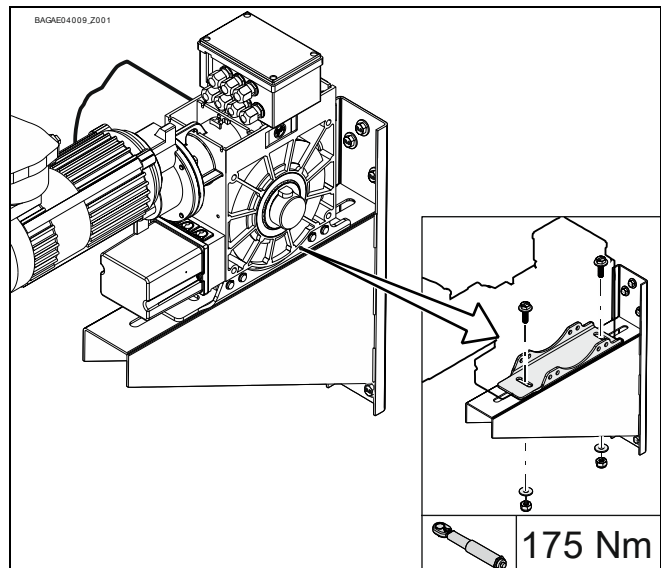
Variant ①:

Attach the drive unit.



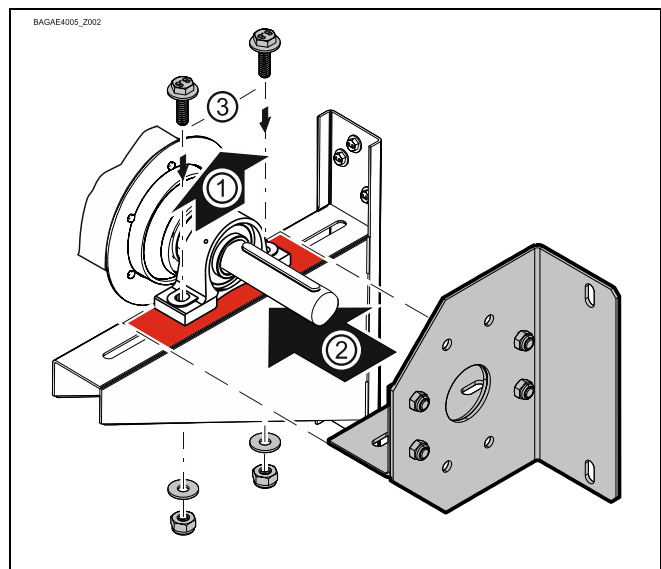
Variant ①:

Tighten all connection elements (M16) with a torque of 175 Nm. Install all further connection elements according to the specifications of the door manufacturer.



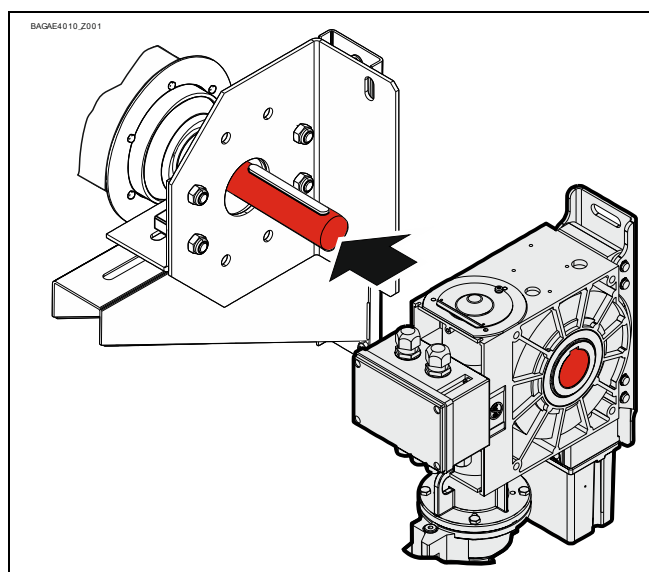
Variant ②:

Lift the pedestal bearing (①). Mount the torque mount (②+③). Do not yet tighten.



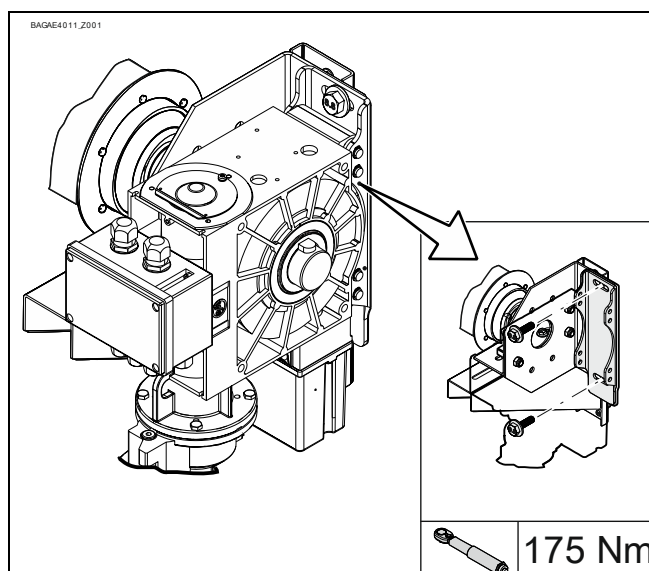
Variant ②:

Attach the drive unit.



Variant ③:

Tighten all connection elements (M16) with a torque of 175 Nm. Install all further connection elements according to the specifications of the door manufacturer.



## 9 Electrical installation



**Warning – Danger to life from electrical shock!**

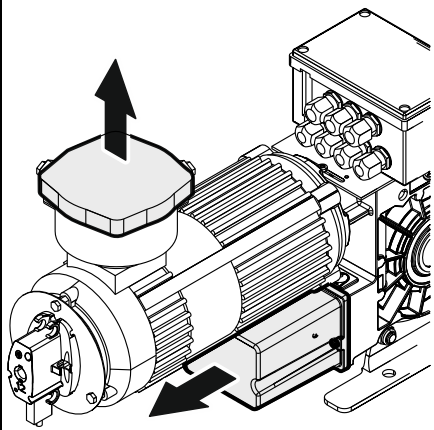
- Disconnect the cables (mains OFF) and check that the supply is off
- Observe the applicable regulations and standards
- Ensure proper electrical connection
- Use suitable tools

### Carrying out the electrical installation

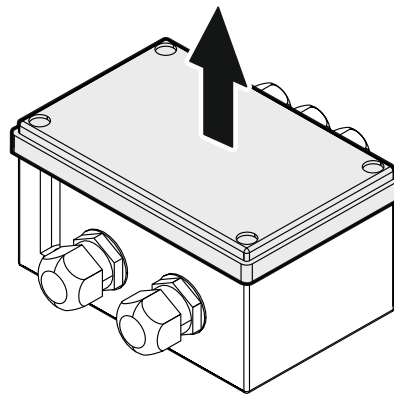
Remove the cover.

Remove the cover.

BAH403\_Z001



BAH801\_Z001



Connect motor/limit switch connection cable



## Protection against overload

### Motor protection switch / motor protection relay mains operation

The "Ex" motor must be protected against overload by means of a motor protection switch or a motor protection relay. Only use motor protection relays with manual reset. Short-circuit protection is also required. Excess current must be set on the basis of the  $I_A / I_N$  ratio.

### PTC resistor signal mains operation

The motor is equipped with installed temperature sensors (PTC) which can be used as overload protection. This protection class is approved as the sole protection against overload for flameproof motors "d"; it must be equipped with a separate evaluation unit. The evaluation unit measures the temperature of the motor coil and deactivates the motor as soon as the preset temperature is exceeded. This safety device can only be reset by hand. Short-circuit protection is also required.

### PTC resistor signal frequency inverter operation

Evaluation is similar to that in mains operation. The motors have an additional rating plate. The features on the additional rating plate must be checked before initial operation of the motor. The connecting cable of the temperature sensors (PTC) must be routed separately to the motor cable.



### Frequency inverter operation!

- Shielded motor cables must be used.
- Shielded cables require separate cable glands.
- The brake requires a separate supply line.

## Completing the electrical installation

Install cable entries and/or cable glands.



### Flameproof enclosure!

- The motor cable gland must ensure that the flameproof enclosure is closed.

In order to achieve the required tightness, the cable glands are equipped with different sealing inserts. They are available for the following cable diameters:

5.5 – 8.0; 8.0 - 10.5 and 10. – 13 mm.

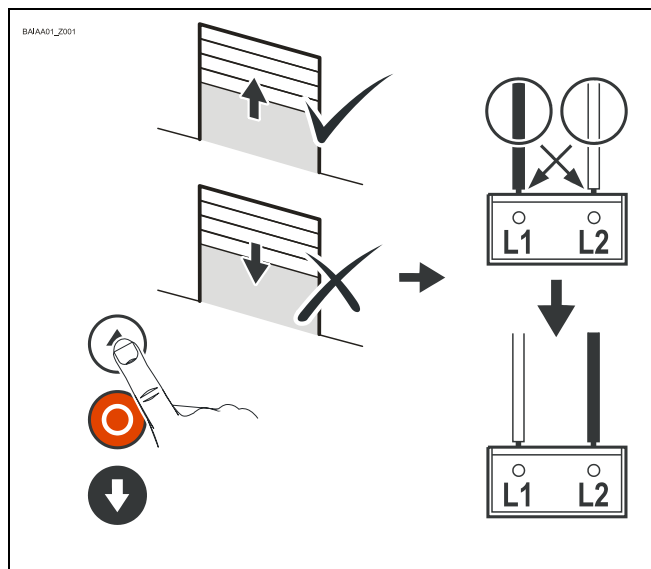
Sealing insert and cable diameter must be aligned. Cable glands are only suited for lines with a smooth surface.

## 10 Limit switch setting

The limit switch setting defines the final limit positions OPEN and CLOSE.

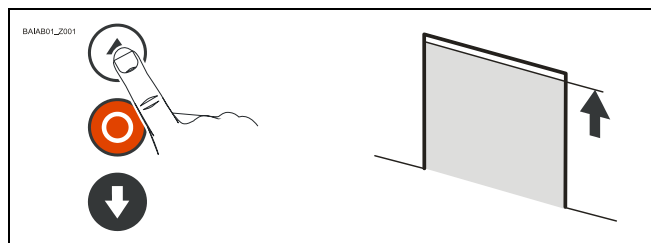
### Requirement

The door should open by pressing the OPEN push-button of the control. If the door closes, L1 and L2 must be swapped in a de-energised state.



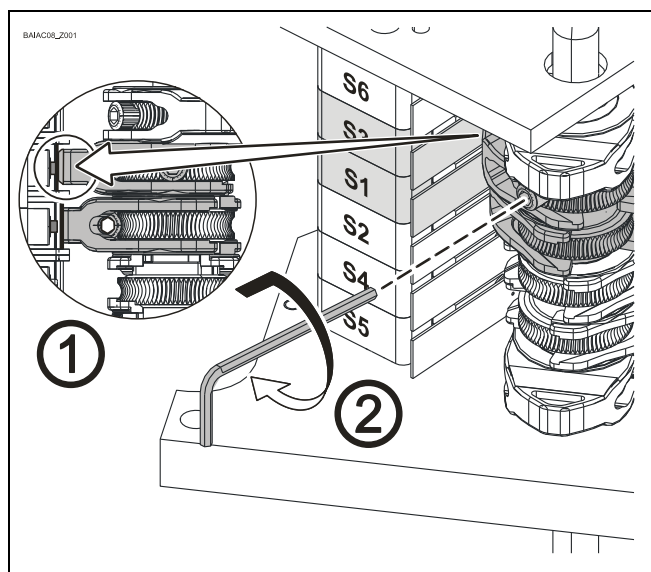
### Setting of OPEN final limit position

Open to the desired OPEN final limit position using the OPEN push-button.



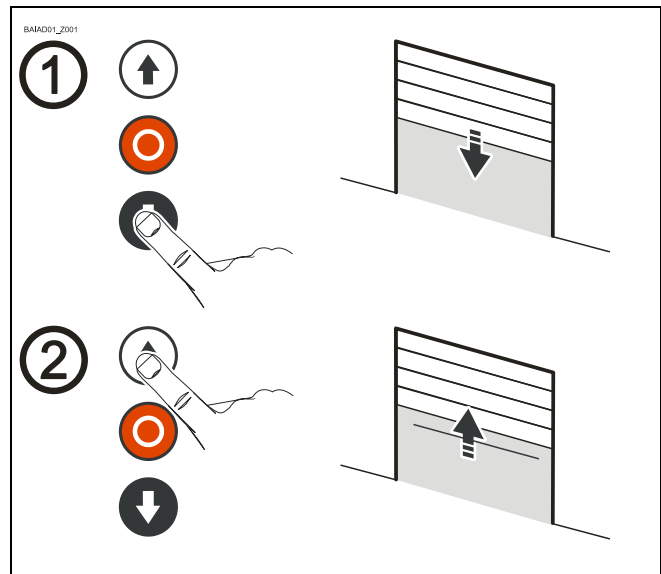
Turn the cam of the S3 OPEN limit switch to the centre of the switch plunger ①.

Tighten the screw of the cam ②.

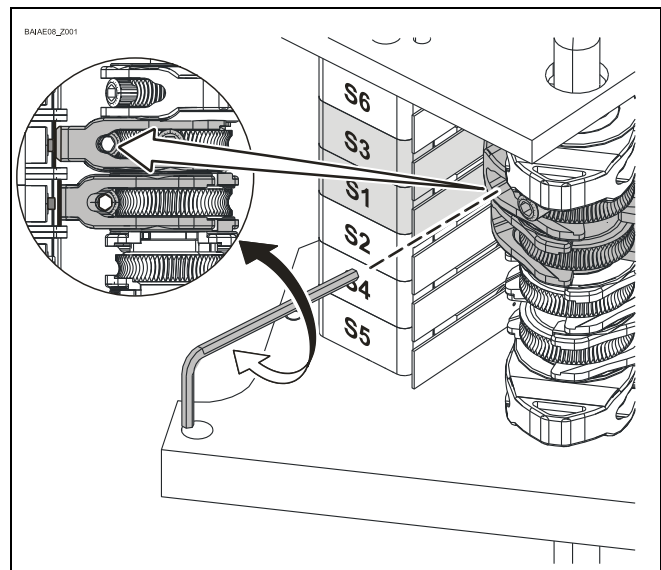


Check the door position:

Close the door ① until the cam is released and open it again ② until the OPEN final limit position is reached.



The OPEN final limit position can be corrected by following the fine adjustment procedure. Check the door position after each correction.

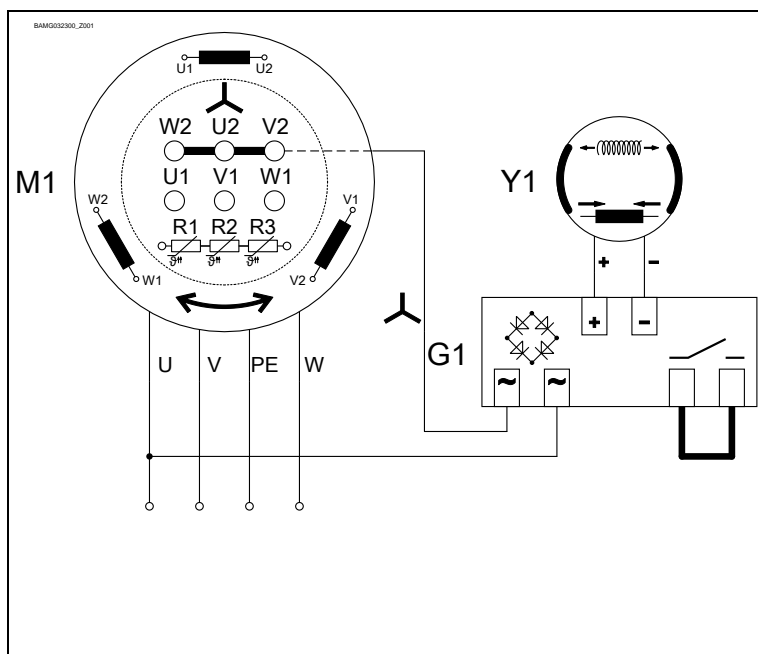


The S1 EMERGENCY OPEN limit switch is preset by the setting of the OPEN final limit position. The door must stop without posing any risks should the rotating direction be incorrect or should there be a fault with the S3 OPEN limit switch. Follow the fine adjustment procedure to correct the switching point of the limit switch as needed.

### Setting of CLOSE final limit position and auxiliary limit switch

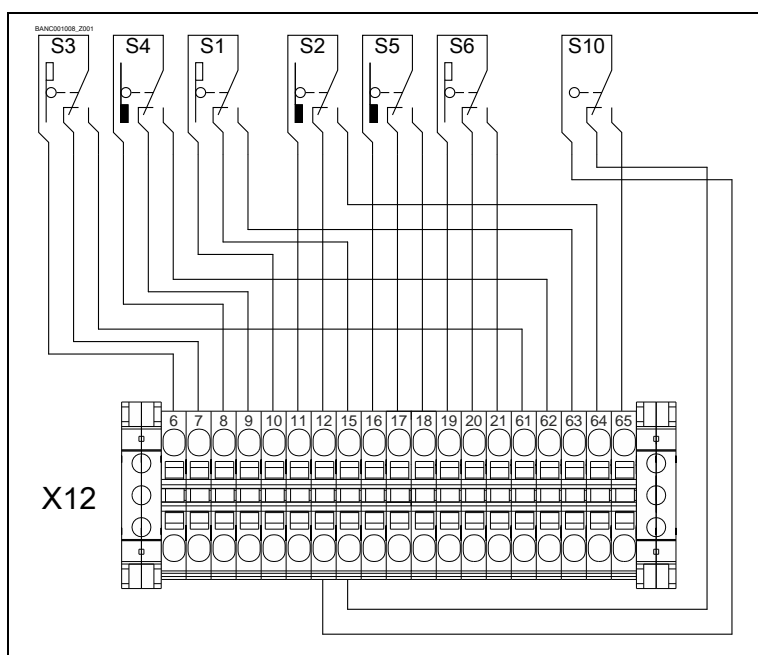
The same setting procedure applies as for setting the OPEN final limit position.

## 11 Motor connection



<b>G1</b>	Bridge rectifier DC-side switching
<b>M1</b>	Motor
<b>R1</b>	PTC thermistor
<b>R2</b>	PTC thermistor
<b>R3</b>	PTC thermistor
<b>Y1</b>	Spring applied brake

## 12 Limit switch connection



<b>S10</b>	Emergency manual operation
<b>X12</b>	Terminal strip
<b>S1</b>	Emergency OPEN limit switch
<b>S2</b>	Emergency CLOSE limit switch
<b>S3</b>	OPEN limit switch
<b>S4</b>	CLOSE limit switch
<b>S5</b>	Additional limit switch
<b>S6</b>	Additional limit switch

### 13 Emergency manual operation (emergency hand crank)

The emergency manual operation is designed for opening or closing the door without power supply. Its activation interrupts the control voltage. Electrical operation is no longer possible.



#### **Warning – Injuries due to incorrect operation or falling objects!**

- Switch off voltage.
- Adopt a secure position.
- For drive units with brake, the emergency manual operation must be carried out against the closed brake.



#### **Warning - Danger of the door dropping!**

If you need to apply more than the permissible force of 390N (according to DIN EN 12604/DIN EN 12453) to move the door by emergency manual operation, this indicates a stalling on the drive unit or door. Releasing the stalling may cause the door to drop.

- Adopt a secure position
- For drive units with brake, the emergency manual operation must be carried out against the closed brake.



#### **Caution – Damage to components!**

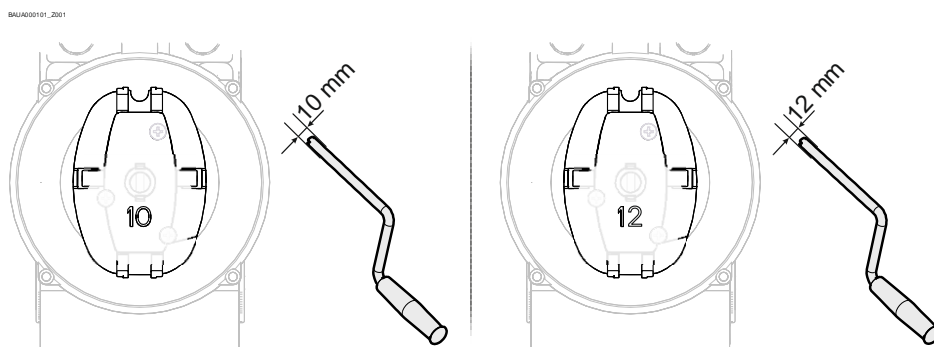
- Do not move the door beyond the final limit positions.



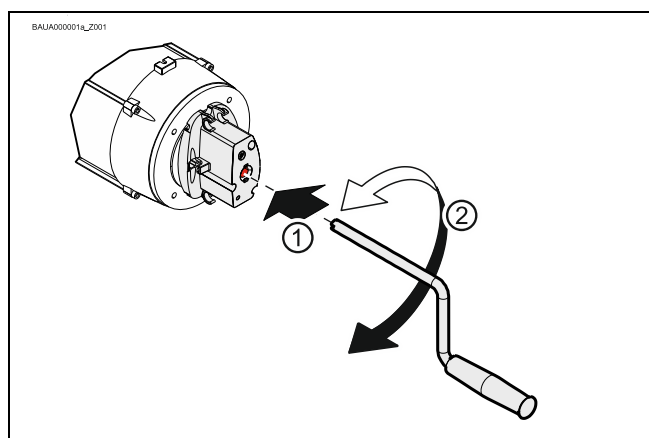
**Warning – Risk of injury due to uncontrolled movements and falling objects!**

The drive unit could start up unexpectedly and injure people should a wrong emergency hand crank be used. A wrong crank will drop out of the mounting and injure people.

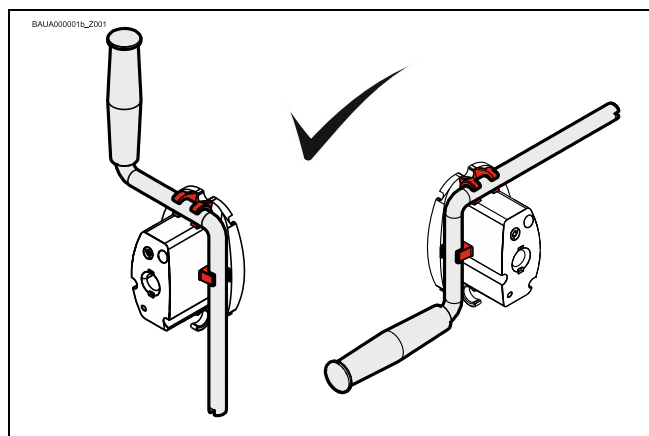
- Only use a crank with the correct diameter. The diameter is indicated on the crank handle switch:



Plug in the crank and turn until it engages (①). Open or close by turning the crank (②).



After use, the crank may be attached to the drive unit. Attach as illustrated.



## 14 Completion of commissioning / testing / operation

Check the following components and after that, mount all covers.

### Gearbox

Check drive unit for oil loss (a few drops are not critical). Protect output shaft permanently against corrosion.



#### Oil leakage!

- Oil leakage may render explosion protection ineffective. Oil maintenance is inadmissible.

### Safety brake in the gearbox

The safety brake requires no maintenance or inspection.



#### Warning – Danger of the door dropping

In the case of a gearbox damage, the internal safety brake is triggered to prevent the door from dropping. The gearbox stalls.

Releasing the stalling may cause the door to drop!

- Block the door for pedestrians and vehicles.
- Do not release the stalling. Do not use the emergency manual operation.
- Secure the door against dropping. Please observe the specifications of the door manufacturer.
- The drive unit needs replacement. Please observe the specifications of the door manufacturer.

### Motor

Check motor for defective bearings



## Mounting

Check all mounting elements (consoles, torque brackets, screws, retaining rings etc.) for tightness and impeccable condition.

## Electric wiring

Check connection cables and cables for damage or pinches. Check screw connections for correct seating and electrical contact.

## Emergency manual operation

Function to be checked in a de-energised state. Carry out functional test only between final limit positions.

## Limit switches

Check the final limit positions by opening and closing the door completely. The safety zone must not be reached.

## Brake



### Warning – Injury or danger to life possible!

- Carry out brake test. Overrun depends on the door and its equipment. The manufacturer's specifications must be observed.



### Warning – Injury or danger to life possible!

Service life of the brake - replacement of the entire brake with motor in the case of:

- Operation with mains supply: after 750,000 door cycles
- Operation with frequency inverter: after 1,500,000 door cycles

## Entire drive unit



### Attention – Dust deposits !

- Properly remove dust deposits at regular, adequately short intervals, should these be unavoidable due to operation processes. Performed cleaning tasks should be documented.



### Note!

- Have the drive checked annually by a specialist.
- Shorter inspection interval for frequently used doors.
- Observe the applicable regulations and standards.

## 15 Disposal

### Dispose of packaging

Dispose of the packaging material properly according to the local legal regulations or recycle it.

### Dispose of old devices

Dispose of old devices properly according to local legal regulations. Return old devices to the return and collection systems available. You can also return GfA products free of charge.

Please apply enough postage to the package and mark it as "old devices".



#### **Notice- Environmental damage!**

The gearbox contains oil.

- Ensure proper disposal according to local legal regulations.

# EU Declaration of conformity

within the meaning of Explosion Protection Directive 2014/34/EU  
regarding the safe assembly of components



GfA ELEKTROMATEN GmbH & Co. KG  
Wiesenstraße 81 · 40549 Düsseldorf  
Germany

We

**GfA ELEKTROMATEN GmbH & Co. KG**

declare under our sole responsibility that the following modules comply with the above directive and that no new hazards arise from their assembly. The assembled modules are intended only for installation in a door system.

Standards applied:

**EN ISO 80079-36:2016**

Explosive atmospheres -

Part 36: Non-electrical equipment for explosive atmospheres - Basic method and requirements.

Drive unit

**SI 80.12-55,00 Ex**

Part no.: 10005486 00001

Consisting of:


Gearbox series: SG 115F 123.T4


Motor: RL 90S4

Terminal box: 8146/1041

Limit switches: 07-2511

Higher-level product identification code

 II 2G Ex db eb h IIC T4 Gb

 II 2D Ex tb h IIIC 130°C Db

Düsseldorf, 10.08.2018

**Stephan Kleine**

CEO

Signature

# EU Declaration of conformity

within the meaning of Explosion Protection Directive 2014/34/EU  
Appendix VIII, "Internal production control"



GfA ELEKTROMATEN GmbH & Co. KG  
Wiesenstraße 81 · 40549 Düsseldorf  
Germany


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We,  
**GfA ELEKTROMATEN GmbH & Co. KG**  
declare under our sole responsibility that the  
following module complies with the above  
directive and that no new hazards arise from  
assembly. The assembled modul are only  
intended for installation in a door system.

Gearbox  
**SG 115F 123.T4**

Identification of the product according to  
Directive:

 II 2G Ex h IIC T4 Gb

 II 2D Ex h IIIC 130°C Db

Notified body pursuant to Directive:  
TÜV Nord Anlagetechnik GmbH  
Am TÜV 1  
30519 Hannover, Deutschland

Registration number: 8000306986

Düsseldorf, 01.10.2019

**Stephan Kleine**  
CEO



Signature

Standards applied:

**EN ISO 80079-36:2016**

Explosive atmospheres -

Part 36: Non-electrical equipment for explosive  
atmospheres - Basic method and requirements.

**EN ISO 80079-37:2016**

Explosive atmospheres -

Part 37: Non-electrical equipment for explosive  
atmospheres - Non-electrical type of protection  
constructional safety "c", control of ignition  
sources "b", liquid immersion "k".

# RAEL MOTORI ELETTRICI

Via Per Retorto 7/1 - 15077 PREDOSA (AL) - ITALY Tel: +39 (0) 131 71 563 - Fax: +39 (0) 131 71 503

Predosa il **23/05/2023**

## Dichiarazione UE di Conformità

### EU Declaration of Conformity / Declaration UE de Conformité EU Konformitätserklärung / Declaration UE de Conformidad

Rael dichiara sotto la sua sola responsabilità che i motori elettrici asincroni  
Electric asynchronous motors / Les moteurs électriques asynchrone  
Elektrische asynchronmotoren typ / Los motores electricos asincronos del tipo

### SERIE BRAKEX

Serial number: from:  to

Che riportano la marcatura  
Bearing the marks / Marques / Kennzeichnung / Que llevan marcado

CE 0722 Ex	II 2G Ex db eb IIC T5 Gb   II 2D Ex tb IIIC Db T=85°C   Ta: -20°C to 40°C IP66 CESI 20 ATEX 040

Sono prodotti da **RAEL MOTORI ELETTRICI S.r.l.** in accordo alle seguenti Direttive  
Have been manufactured by **RAEL MOTORI ELETTRICI S.r.l.** in accordance with the Directives  
Sont fabriqués par la société **RAEL MOTORI ELETTRICI S.r.l.** selon les Directives suivantes  
Wurden gefertigt von **RAEL MOTORI ELETTRICI S.r.l.** in Übereinstimmung mit den folgenden -Richtlinien  
Han sido fabricados por **RAEL MOTORI ELETTRICI S.r.l.** de acuerdo con las siguientes Directivas

### 2014/34/EU - 2015/863/EU

e in conformità alla seguente Norma  
and comply with the following Standards / et enconfrmité avec les Normes  
und entsprechen den folgenden Standard / y conform a las sigulentes Normas

EN 60079-0:2018 | EN 60079-1:2014 | EN 60079-7:2015+ A1 2018 | EN 60079-31:2014 | EN 60034-1:2010 | EN 60034-5: 2001 | EN 60034-6:1993  
EN 60034-7:1993 | EN60034-8:2007 | 60034-9:2005 | EN 60034-14:2004 | IEC60072-1:1991

Il produttore dichiara la conformità alla norma EN 60079-0 2018 e alla norma EN 60079-7 2015 + A1 2018 anche se il prodotto è stato certificato secondo le norme EN 60079-0 2012+A11 2013 e 60079-7 2015. The manufacturer declares the conformity with EN 60079-0 2018 and the standar EN 60079-7 2015 + A1 2018 even if the product is certified according to EN 60079-0 2012+A11 2013 and EN 60079-7 2015 Le fabricant déclare la conformité à la norme EN 60079-0 2018 et la norme EN 60079-7 2015 + A1 2018 , même si le produit est certifié selon la norme EN 60079-0 2012+A11 2013 et EN 60079-7 2015 Der Hersteller erklärt die Konformität mit EN 60079-0 2018 und EN 60079-7 2015 + A1 2018 selbst wenn das Produkt zertifiziert nach EN 60079-0 2012+A11 2013 und 60079-7 2015 El fabricante declara la conformidad con la norma EN 60079-0 2018 en la norma EN 60079-7 2015 + A1 2018 incluso si el producto está certificado según la norma EN 60079-0 2012+A11 2013 y EN 60079-7 2015

### NOTA/ NOTE/ BEMERKUNG/ NOTAS:

Direttiva Macchine, Machinery Directive, Directive Machine, Maschinen-Richtlinie, Directiva Maquinaria

I motori in oggetto sono considerati componenti, in accordo con la direttiva macchine. Il motore non deve essere messo in servizio finché la macchina stessa su cui è montato non venga dichiarata conforme alla direttiva macchine.

Above motors considered as components, comply with the directive machine. The motor must not be incorporated in service until the machine itself has not been declared in conformity with the machinery directive.

Les moteurs ci-dessus considérés comme composants sont conformes à la directive machine. Le moteur ne peut être incorporé et mis en service avant que la machine dans laquelle il est incorporé ne soit déclarée conforme à la directive machine.

Für die korrekte installation der oben genannten Motore sowie der entsprechenden komponenten, die in ihrer Bauart mit den zu dieser Bescheinigung aufgeführten Vorschriften übereinstimmen, ist der Maschinenhersteller/Maschinenbetreiber verantwortlich. Die Motoren entsprechen den Vorschriften nur, solange die Anlage, in der sie eingebaut wurden, in übereinstimmung mit den geltenden Maschinen-richtlinien und Vorschriften errichtet wurde.

Los motores en objecto, por tratarse de componentes, cumplen las normas de la directiva si la instalacion está correctamente controlada por el constructor de la máquina. El motor no debe entrar en servicio hasta que la máquina en que ha sido incorporado disponga de la declaration de la directiva maquinaria

Product Quality Assurance Notification Number: CESI 03-ATEX-038Q  
EU Type examination issued by CESI - Via Rubattino 54 - 20134 Milano Italy  
Notified by CESI - Notified Body n.0722 - Via Rubattino 54 - 20134 Milano Italy



**EU Konformitätserklärung**  
*EU Declaration of Conformity*  
*Déclaration de Conformité UE*



**R. STAHL Schaltgeräte GmbH • Am Bahnhof 30 • 74638 Waldenburg, Germany**  
 erklärt in alleiniger Verantwortung, declares in its sole responsibility, déclare sous sa seule responsabilité,

dass das Produkt: <i>that the product:</i> <i>que le produit:</i>	<b>Klemmenkästen</b> <i>Terminal Boxes</i> <i>Boîtes de jonction</i>
Typ(en), type(s), type(s):	<b>8146/1</b> <b>8146/2</b>

mit den Anforderungen der folgenden Richtlinien und Normen übereinstimmt.  
*is in conformity with the requirements of the following directives and standards.*  
*est conforme aux exigences des directives et des normes suivantes.*

Richtlinie(n) / Directive(s) / Directive(s)	Norm(en) / Standard(s) / Norme(s)
2014/34/EU ATEX-Richtlinie 2014/34/EU ATEX Directive 2014/34/UE Directive ATEX	EN IEC 60079-0:2018 EN 60079-1:2014 EN IEC 60079-7:2015 + A1:2018 EN 60079-11:2012 EN 60079-18:2015 + A1:2017 + AC:2018 EN 60079-28:2015 EN 60079-31:2014
Kennzeichnung, marking, marquage:	 II 2 G Ex db eb ia mb op pr IIC T6...T4 Gb II 2 G Ex ia IIC T6...T4 Gb II 2 D Ex tb IIIC T80 °C...T130 °C Db  0158
EU Baumusterprüfbescheinigung: <i>EU Type Examination Certificate:</i> <i>Attestation d'examen UE de type:</i>	<b>PTB 01 ATEX 1016</b> (Physikalisch-Technische Bundesanstalt, Bundesallee 100, 38116 Braunschweig, Germany, NB0102)
Produktnormen nach Niederspannungsrichtlinie: <i>Product standards according to Low Voltage Directive:</i> <i>Normes des produit pour la Directive Basse Tension:</i>	EN 61439-1:2011 EN 61439-2:2011
2014/30/EU EMV-Richtlinie 2014/30/EU EMC Directive 2014/30/UE Directive CEM	Nicht zutreffend nach Artikel 2, Absatz (2) d). <i>Not applicable according to article 2, paragraph (2) d).</i> <i>Non applicable selon l'article 2, paragraphe (2) d).</i>
2011/65/EU RoHS-Richtlinie 2011/65/EU RoHS Directive 2011/65/UE Directive RoHS	EN IEC 63000:2018

Waldenburg, 2021-03-01

**Ort und Datum**  
*Place and date*  
*Lieu et date*

i.V.

  
**Holger Semrau**  
 Leiter Entwicklung Schaltgeräte  
*Director R&D Switchgear*  
*Directeur R&D Appareillage*

i.V.

  
**Jürgen Freimüller**  
 Leiter Qualitätsmanagement  
*Director Quality Management*  
*Directeur Assurance de Qualité*



EU Konformitätserklärung  
 EU Declaration of Conformity  
 Déclaration UE de conformité  
 N° 01-2511-7C0001\_B

**BARTEC**

Wir	We	Nous
<b>BARTEC GmbH</b> Max-Eyth-Straße 16 97980 Bad Mergentheim Germany		
erklären in alleiniger Verantwortung, dass das Produkt	declare under our sole responsibility that the product	attestons sous notre seule responsabilité que le produit
<b>Endschalter Positionsschalter</b>	<b>Limit Switch Position switch</b>	<b>Fin de course Interrupteur de position</b>

**Limit Switch Typ: 07-2511-\*\*\*\*/\*\*\*\*; 07-2581-\*\*\*\*/\*\*\*\*;  
 Position Switch Typ: 07-291\*-\*\*\*\*/\*\*\*\***

auf das sich diese Erklärung bezieht den Anforderungen der folgenden Richtlinien (RL) entspricht	to which this declaration relates is in accordance with the provision of the following directives (D)	se référant à cette attestation correspond aux dispositions des directives (D) suivantes
<b>ATEX-Richtlinie 2014/34/EU</b>	<b>ATEX-Directive 2014/34/EU</b>	<b>Directive ATEX 2014/34/UE</b>
<b>RoHS-Richtlinie 2011/65/EU</b>	<b>RoHS-Directive 2011/65/EU</b>	<b>Directive RoHS 2011/65/UE</b>
<b>RoHS-Richtlinie 2015/863/EU</b>	<b>RoHS-Directive 2015/863/EU</b>	<b>Directive RoHS 2015/863/UE</b>
und mit folgenden Normen oder normativen Dokumenten übereinstimmt	and is in conformity with the following standards or other normative documents	et est conforme aux normes ou documents normatifs ci-dessous

**EN IEC 60079-0:2018**  
**EN 60079-1:2014**  
**EN 60079-31:2014**  
**EN 60529:1991**  
**+ A1:2000 + A2:2013**  
**EN 60947-1:2007 +**  
**A1:2011 + A2:2014**  
**EN 60947-5-1:2017**

Verfahren der EU-Baumusterprüfung / Benannte Stelle	Procedure of EU-Type Examination / Notified Body	Procédure d'examen UE de type / Organisme Notifié
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**EPS 14 ATEX 1766 X, Issue 1**

**2004, Bureau Veritas CPS Germany GmbH, Businesspark A96, 86842 Türkheim\_**

**CE 0044**

Bad Mergentheim, 17.02.2020

  
 i.A. Simon Dyhringer  
 Product Manager Ex e

  
 i.V. Cristian Olareanu  
 Team Leader Certification Center



# Declaration of incorporation

within the meaning of Machinery Directive 2006/42/EC  
for partly completed machinery, Appendix II Part B



# Declaration of conformity

within the meaning of EMC Directive 2014/30/EU  
within the meaning of RoHS Directive 2011/65/EU

GfA ELEKTROMATEN GmbH & Co. KG  
Wiesenstraße 81 · 40549 Düsseldorf  
Germany

We,  
**GfA ELEKTROMATEN GmbH & Co. KG**  
declare under our sole responsibility that the  
following product complies with the above  
directives and is only intended for installation in a  
door system.

Drive unit

**SI 80.12-55,00 Ex**

Part no.: 10005486 00001

We undertake to transmit in response to a  
reasoned request by the appropriate regulatory  
authorities the special documents on the partly  
completed machinery.

This product must only be put into operation  
when it has been determined that the complete  
machine/system in which it has been installed  
complies with the provisions of the above-  
mentioned directives.

Authorised representative to compile the  
technical documents is the undersigned.

Düsseldorf, 10.08.2018

**Stephan Kleine**  
CEO

Signature

The following requirements from Appendix I of  
the Machinery Directive 2006/42/EC are met:

1.1.2, 1.1.3, 1.1.5, 1.2.2, 1.2.3, 1.2.6, 1.3.2,  
1.3.3, 1.3.9, 1.5.1, 1.5.2, 1.5.4, 1.5.6, 1.5.7,  
1.5.8, 1.5.9, 1.5.10, 1.5.11, 1.5.13, 1.6.1, 1.6.2,  
1.6.4, 1.7.2, 1.7.3, 1.7.4.3.

Standards applied:

**EN 12453:2017+A1:2021**

Industrial, commercial and garage doors and  
gates - Safety in use of power operated doors -  
Requirements

**EN 12604:2017**

Industrial, commercial and garage doors and  
gates - Mechanical aspects - Requirements

**EN 60335-1:2012**

Household and similar electrical appliances -  
Safety - Part 1: General requirements

**EN 61000-6-2:2005**

Electromagnetic compatibility (EMC) Part 6-2  
Generic standards – Immunity standard for  
industrial environments

**EN 61000-6-3:2007**

Electromagnetic compatibility (EMC) Part 6-3  
Generic standards – Emission standard for  
residential, commercial and light-industrial  
environments

## Declaration of incorporation

within the meaning of Supply of Machinery (Safety) Regulations 2008  
for partly completed machinery, Appendix II Part B



## Declaration of conformity

within the meaning of Electromagnetic Compatibility Regulations 2016  
within the meaning of Restriction of the Use of Certain Hazardous Substances in  
Electrical and Electronic Equipment Regulations 2012

We,  
**GfA ELEKTROMATEN GmbH & Co. KG**  
declare under our sole responsibility that the  
following product complies with the above  
directives and is only intended for installation in a  
door system.

Drive unit

**SI 80.12-55,00 Ex**

Part no.: 10005486 00001

We undertake to transmit in response to a  
reasoned request by the appropriate regulatory  
authorities the special documents on the partly  
completed machinery.

This product must only be put into operation  
when it has been determined that the complete  
machine/system in which it has been installed  
complies with the provisions of the above-  
mentioned directives.

Authorised representative:

Andrew Collett

GfA ELEKTROMATEN UK Ltd

Tournament Fields Business Park,

Agincourt Rd,

Warwick CV34 6XZ

Düsseldorf, 01.11.2022

**Stephan Kleine**

CEO

A handwritten signature in black ink, appearing to read 'S. Kleine', followed by a horizontal line.

Signature

The following requirements from Appendix I of  
the Supply Machinery (Safety) Regulations 2008  
are met:

1.1.2, 1.1.3, 1.1.5, 1.2.2, 1.2.3, 1.2.6, 1.3.2,  
1.3.3, 1.3.9, 1.5.1, 1.5.2, 1.5.4, 1.5.6, 1.5.7,  
1.5.8, 1.5.9, 1.5.10, 1.5.11, 1.5.13, 1.6.1, 1.6.2,  
1.6.4, 1.7.2, 1.7.3, 1.7.4.3.

Applied Standards:

**BS EN 12453:2017+A1:2021**

Industrial, commercial and garage doors and  
gates - Safety in use of power operated doors -  
Requirements

**BS EN 60335-2-103:2015**

Household and similar electrical appliances -  
Safety - Part 2-103: Particular requirements for  
drives for gates, doors and windows

**BS EN 61000-6-2:2005**

Electromagnetic compatibility (EMC) Part 6-2  
Generic standards – Immunity standard for  
industrial environments

**BS EN 61000-6-3:2007**

Electromagnetic compatibility (EMC) Part 6-3  
Generic standards – Emission standard for  
residential, commercial and light-industrial  
environments