



Installation Instructions

ELEKTROMAT

SE 9.24-25,40 Ex

Model: 10005491 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 vertically moving sectional doors with full counter-balancing. 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.

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	24	rpm
Output torque	90 (90) ¹⁾	Nm
Output / hollow shaft	25,40	mm
Series	SG 50	-
Limit switch range (maximum revolutions of the output / hollow shaft)	20	-
Supply voltage	3~ 400	V
Operating current	0,95	A
Operating frequency	50	Hz
Power factor cos ϕ	0,78	-
Safety circuit	24	V
Degree of protection	IP 55	-
Temperature range	-10 / +40	°C
Operating sound pressure level	< 70	dB(A)
Cycles per hour	15 (14,5) ¹⁾	h ⁻¹
Max. holding torque	450	Nm
Max. load	4000	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 50 60.T4
Motor	DDEx 71LH/4K
Terminal box	8146/1041
Limit switch / emergency manual operation switch	07-2511

3 Technical data gearbox

Designation		
Series	SG50-60.T4	
Manufacturer	GfA	
Explosion protection	II 2G Ex h IIC T4 Gb II 2D Ex h IIIC 130°C Db	
Max. output torque	90	Nm
Max. output speed	30	min ⁻¹
Shaft centre distance	50	mm
Transmission ratio	1 : 60	
Temperature range	-10 / +40	°C
Protection class	IP 65	

4 Technical data motor

Designation		
Type	DDEx 71 LH/4K	
Manufacturer	HEW - HERFORDER ELEKTROMOTOREN-WERKE GmbH & Co. KG	
Explosion protection	II 2G Ex de IIC T4 Gb II 2D Ex tb IIIC T135°C - 85°C Db	
Certificate of verification	BVS 14 ATEX E 114 X	
Supply voltage	230 / 400 +/- 5%	V
Operating current	1,65 / 0,95	A
Operating frequency	50	Hz
Power	0,37	kW
Power factor $\cos \varphi$	0,78	
Motor speed	1375	min ⁻¹
Motor torque	2,6	Nm
Operating mode	S1	
Degree of protection	IP55	
Temperature class	T4	
Ratio IA / IN	3,6	
Temperature range	-20 / + 40	°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 ²
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 Mechanical installation



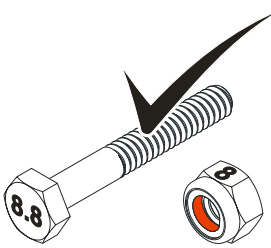
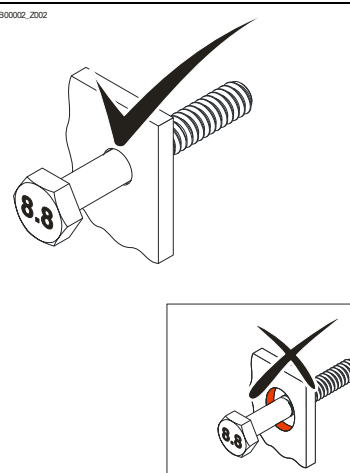
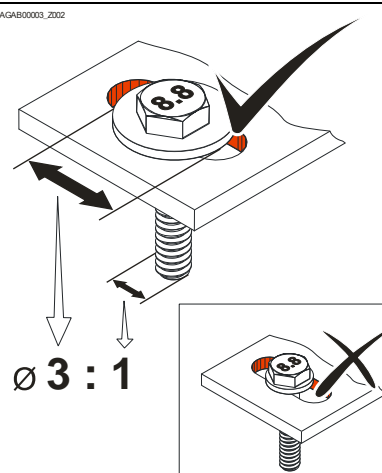
Warning – Explosion hazard!

- Check the atmosphere for explosion hazards before commencing installation

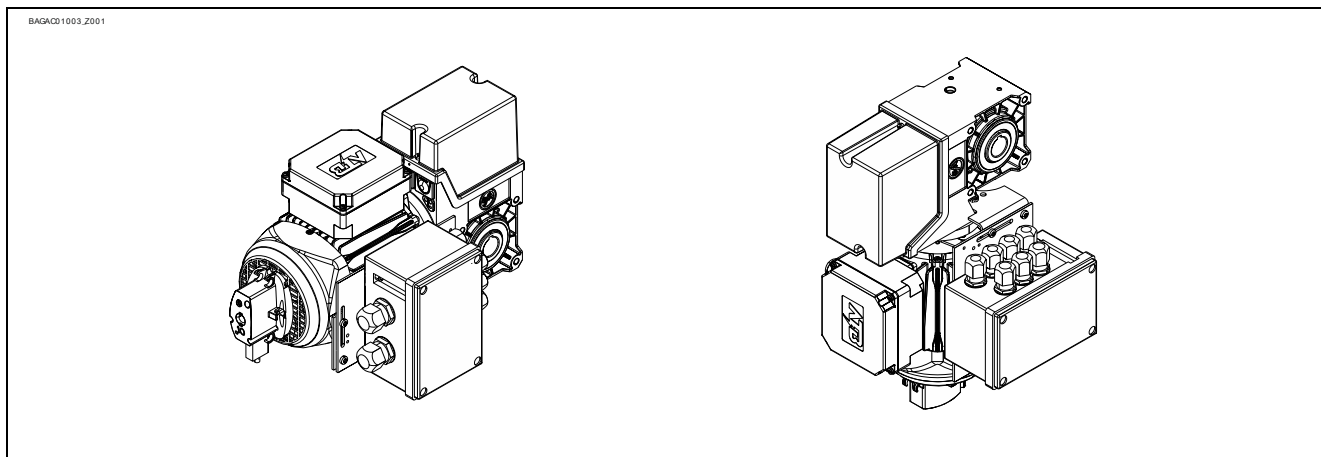
Requirements

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/mm² (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_2002</small></p>  <p>≥ 800 N/mm²</p>	<p><small>BAGAB00002_2002</small></p> 	<p><small>BAGAB00003_2002</small></p>  <p>Ø 3 : 1</p>

Permissible mounting positions



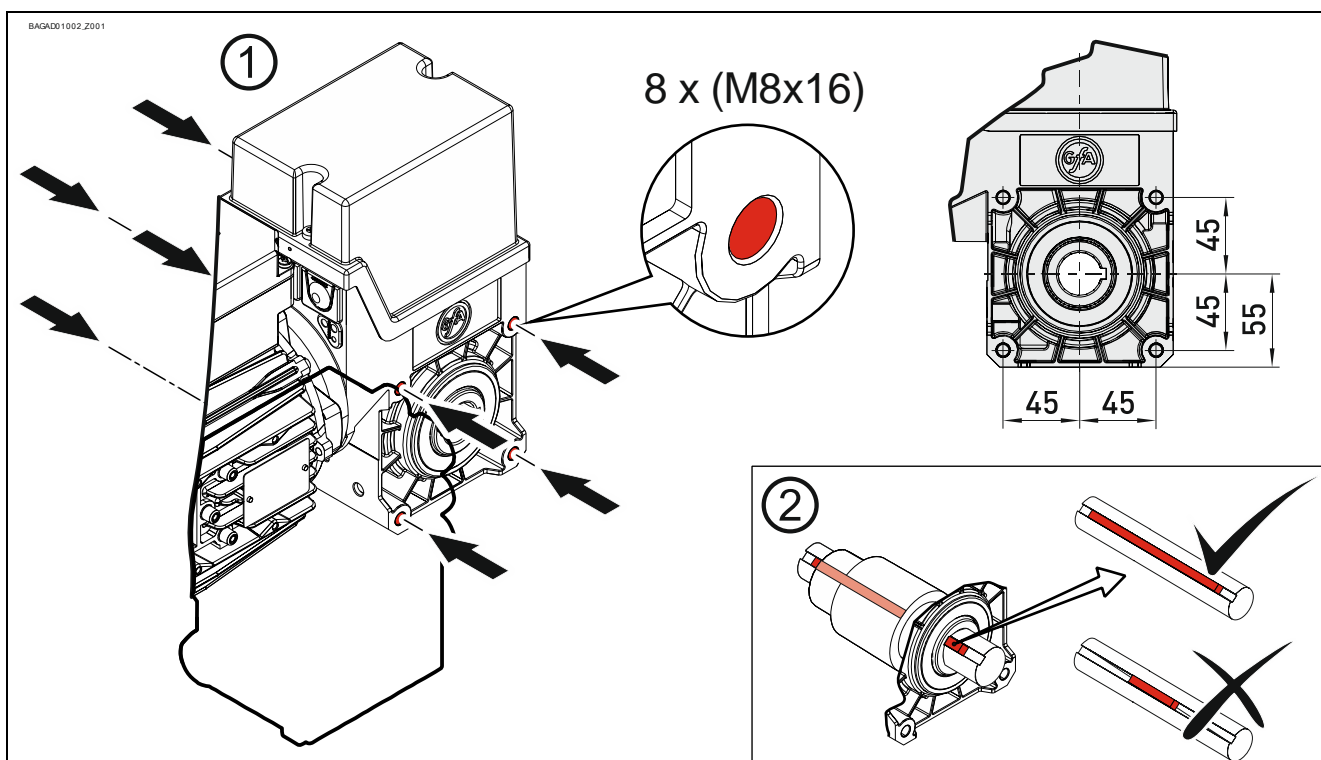
Mounting

8 threads are provided for mounting.

Use at least 2 for mounting (①).

The shaft of the door is connected with a key.

A key with the minimum length of the hollow shaft (②) is used.



Installation

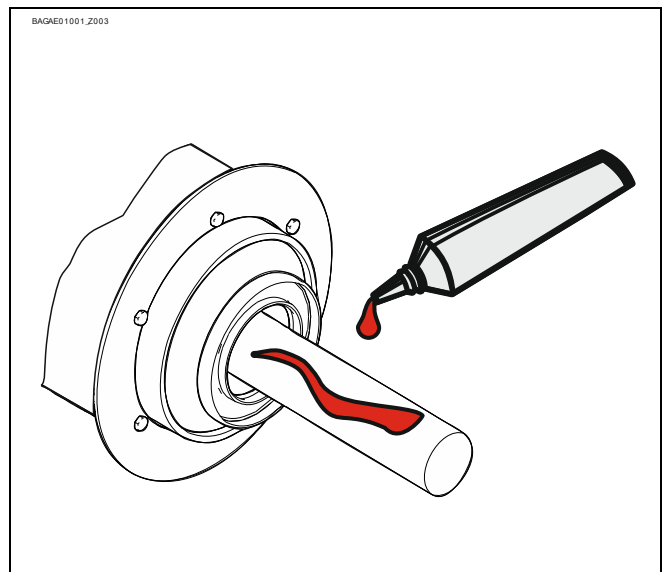
The following descriptions refer to a door which is not further defined. The door manufacturer's specifications must also be observed.



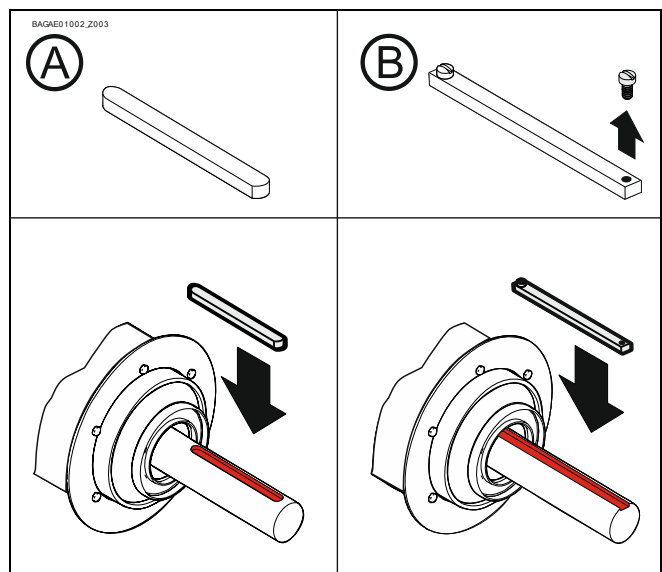
Warning – Injury or danger to life possible!

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

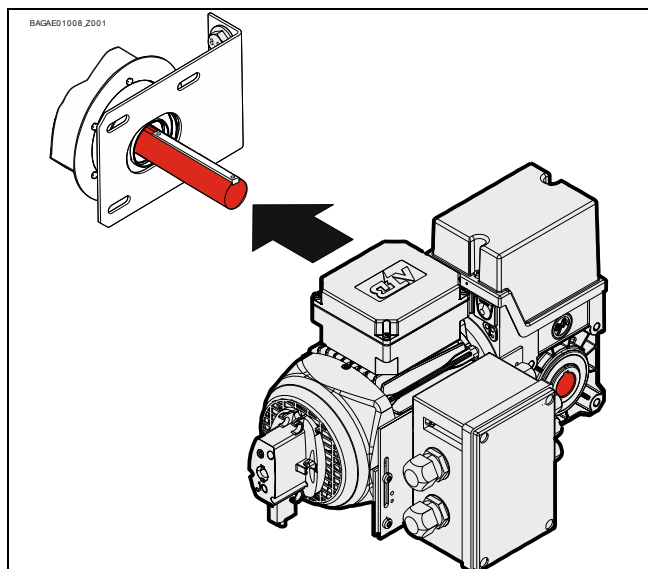
Completely grease the door shaft.



Mount the key. Pay attention to possible variant ① or ②.



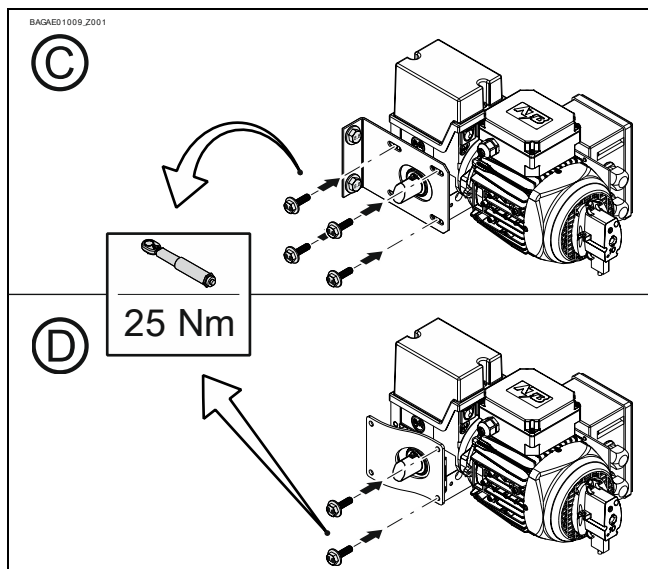
Attach the drive unit.



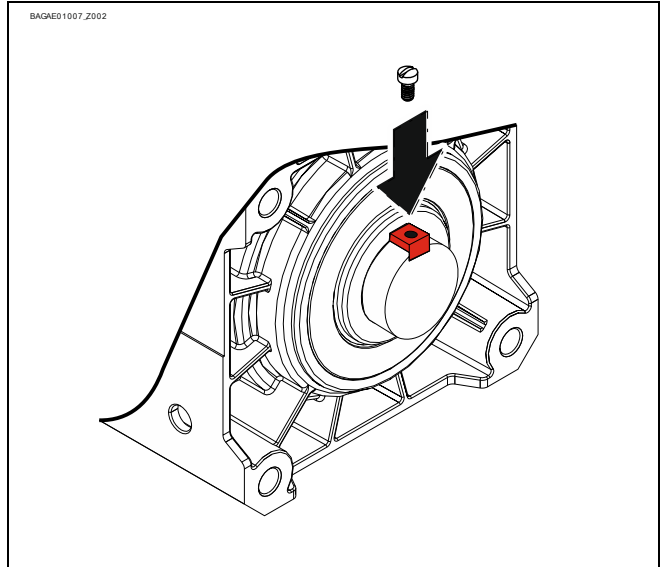
Note – possible stalling of the gearbox!

- Do not hit the gearbox with a hammer when placing the drive unit on the shaft. Hammer blows or similar impacts of force may stall the gearbox.

Tighten all connection elements (M8) with a torque of 25 Nm. Install all further connection elements according to the specifications of the door manufacturer.



Secure the key (only variant ②).



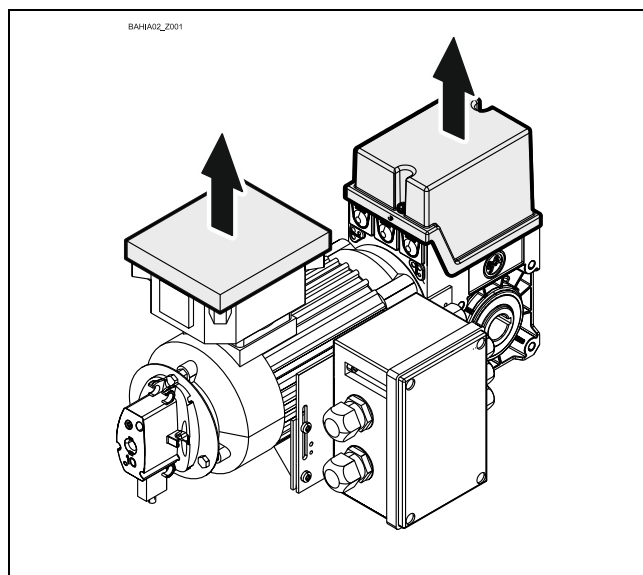
8 Electrical installation



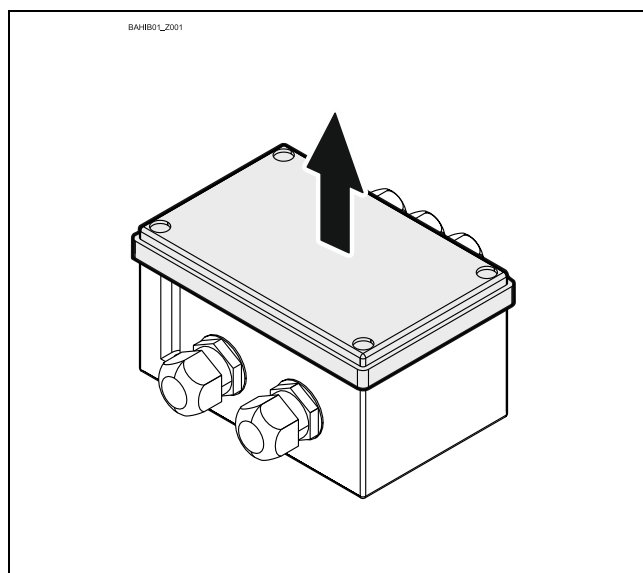
Warning - Danger to life from electric current!

- Switch the mains OFF and check that the cables are de-energised
- Observe the applicable regulations and standards
- Make the electrical connection according to standard
- Use suitable tools

- Remove the cover.



- Remove the cover.



- 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.

Completing the electrical installation

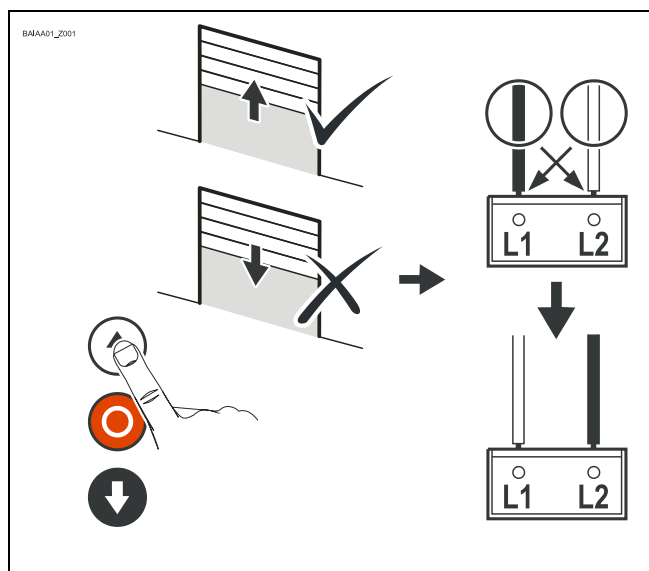
- Install cable entries and/or cable glands.
- The cable glands must comply with the contactor type Increased Safety Ex "eb". Use a sealing insert. The sealing insert, cable gland and cable must be matched to each other.

9 Limit switch setting

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

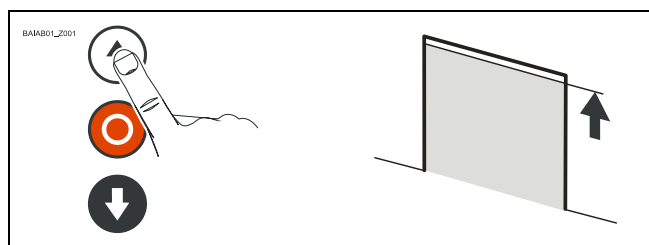
Requirement

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.



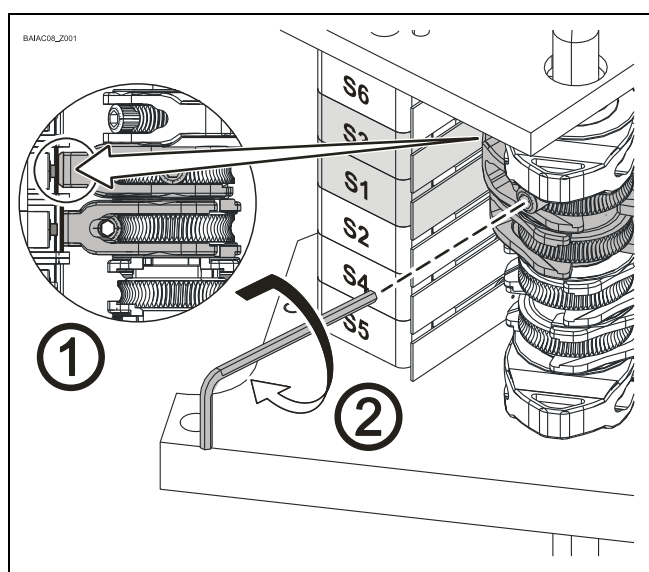
Setting of OPEN final limit position

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



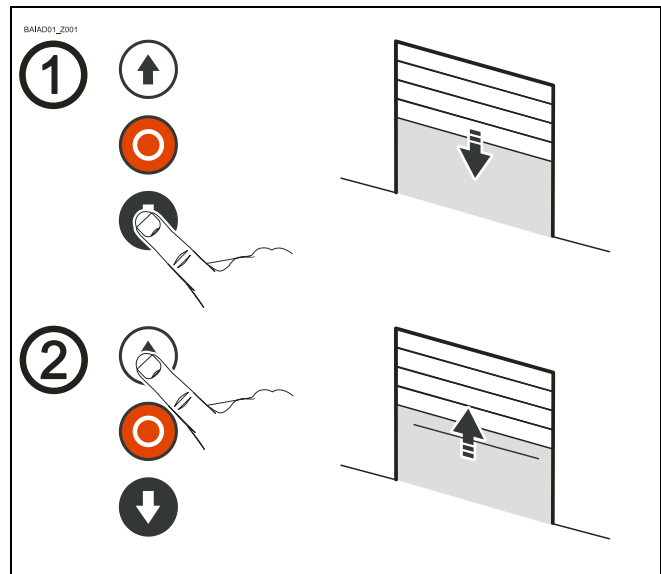
Turn the cam of the S3 OPEN limit switch to the centre of the switch plunger ①.

Tighten the screw of the cam ②.

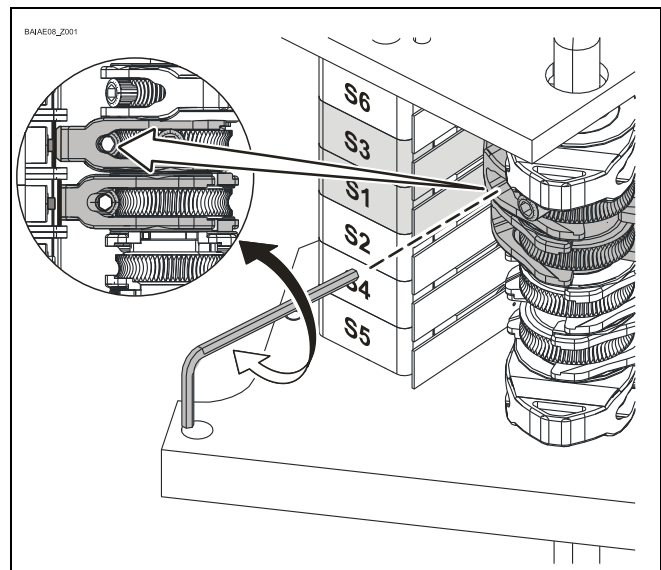


Check the door position:

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.

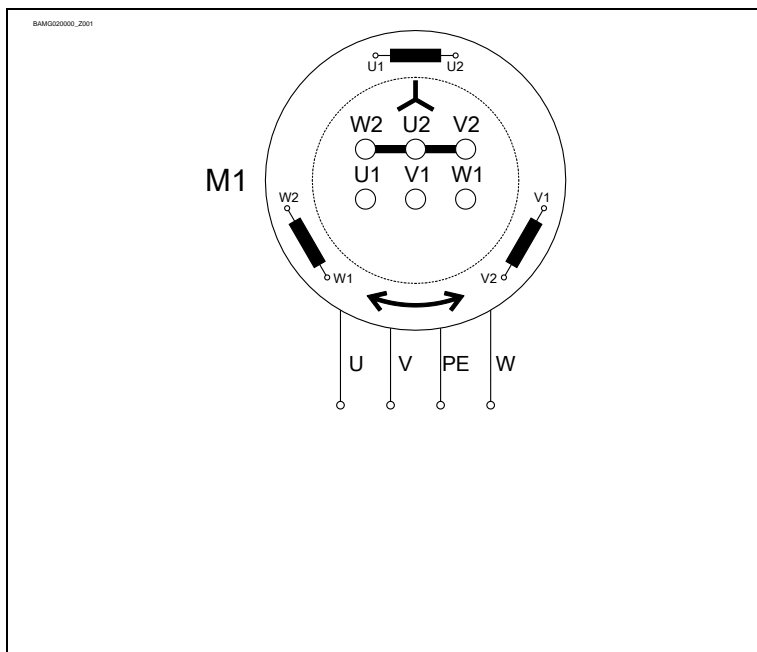


The S1 EMERGENCY OPEN limit switch is preset by the setting of the OPEN final limit position. The door must stop without posing any risks should the rotating direction be incorrect or should there be a fault with the S3 OPEN limit switch. Follow the fine adjustment procedure to correct the switching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

Setting of CLOSE final limit position and auxiliary limit switch

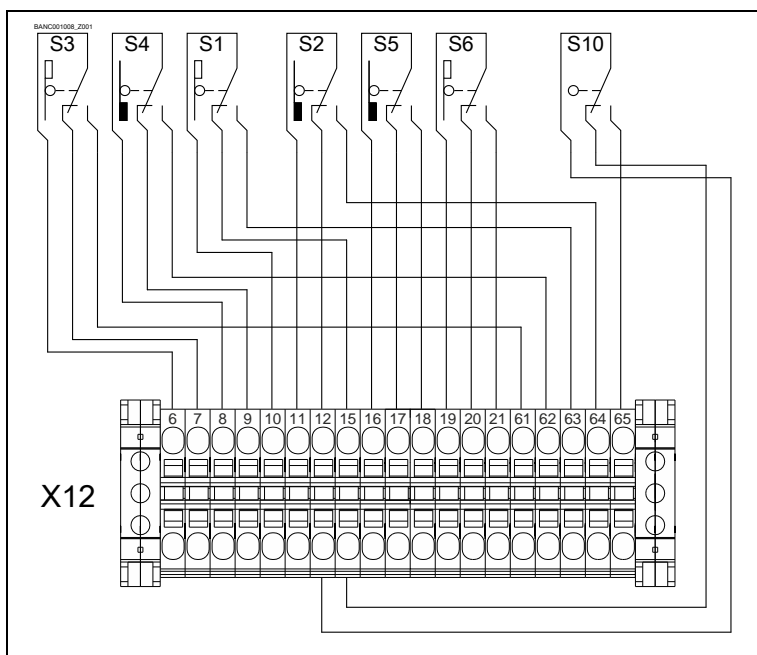
The same setting procedure applies as for setting the OPEN final limit position.

10 Motor connection



M1 Motor

11 Limit switch connection



S10 Emergency manual operation

X12 Terminal strip

S1 Emergency OPEN limit switch

S2 Emergency CLOSE limit switch

S3 OPEN limit switch

S4 CLOSE limit switch

S5 Additional limit switch

S6 Additional limit switch

12 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!

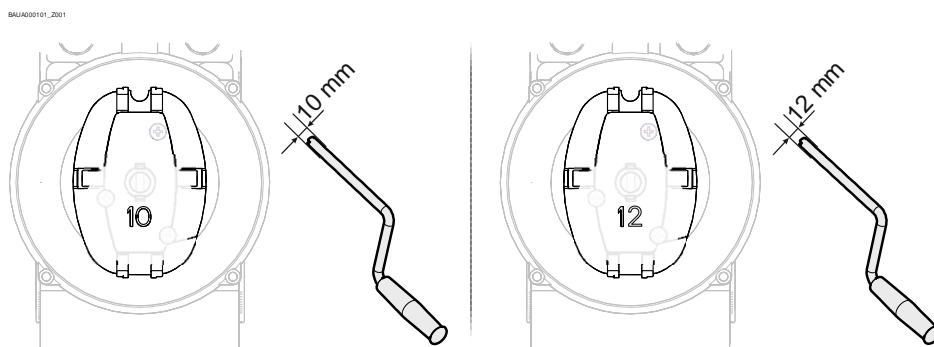
- Do not move the door beyond the final limit positions.



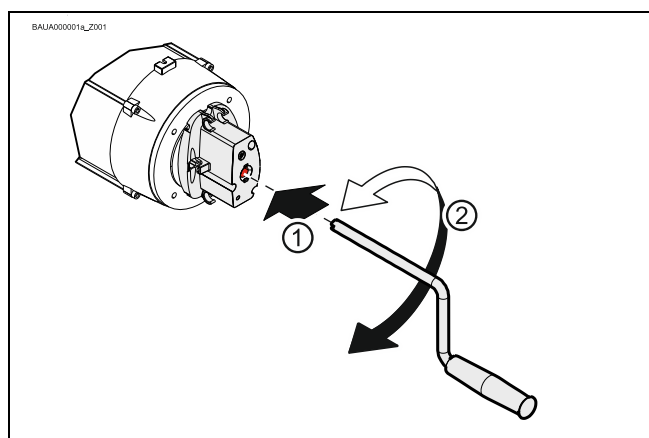
Warning – Risk of injury due to uncontrolled movements and falling objects!

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.

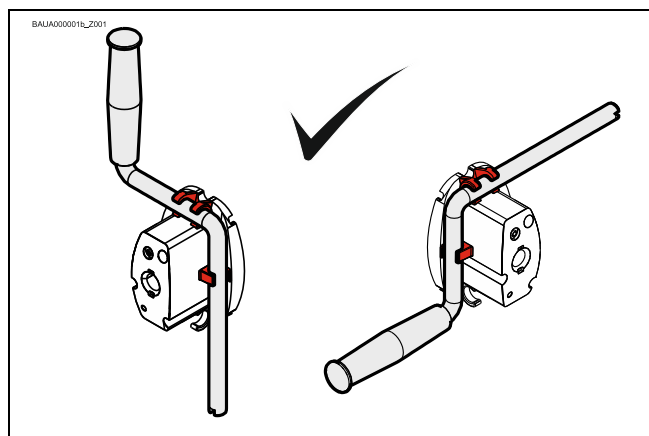
- Only use a crank with the correct diameter. The diameter is indicated on the crank handle switch:



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.



13 Completion of initial operation / inspection / operation

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

Gearbox

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



Oil loss!

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

Motor

Check motor for defective bearings

Mounting

Check all mounting elements (consoles, torque mounts, 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 actuation

Function to be checked in a de-energised state. Check for correct functioning is to be carried out between the final limit positions only.

Limit switches

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

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 a specialist check the drive unit once a year.
- Shorter inspection interval for frequently used doors.
- Observe the applicable regulations and standards

14 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

SE 9.24-25,40 Ex

Part no.: 10005491 00001

Consisting of:


Gearbox series: SG 50 60.T4


Motor: DDEx 71LH/4K

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

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 50 60.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".

EC / EU – declaration of conformity

HERFORDER ELEKTROMOTOREN-WERKE GmbH & Co. KG

D – 32051 Herford
D – 32008 Herford

Goebenstraße 106
post office box 1852

Tel.: 05221 59040

info@HEW-HF.de

Electrical operating equipment:

Explosion-proof three phase asynchronous motors (flame-proof encapsulation) with squirrel cage

Typ	marking gas	marking dust
DCEx 63	II 2G Ex db e IIC T4-T6 Gb oder II 2G Ex db IIC T4-T6 Gb	
DBEx 63	II 2G Ex db e IIB T4-T6 Gb oder II 2G Ex db IIB T4-T6 Gb	
DDEx 63	II 2G Ex db e IIC T4-T6 Gb oder II 2G Ex db IIC T4-T6 Gb	II 2D Ex tb IIIC T135°C - 85°C Db
DCEx 71 - 225	II 2G Ex db eb IIC T4-T6 Gb oder II 2G Ex db IIC T4-T6 Gb	
DBEx 71 - 225	II 2G Ex db eb IIB T4-T6 Gb oder II 2G Ex db IIB T4-T6 Gb	
DDEx 71 - 225	II 2G Ex db eb IIC T4-T6 Gb oder II 2G Ex db IIC T4-T6 Gb	II 2D Ex tb IIIC T135°C - 85°C Db
DCEx 250 and DCEx 280	II 2G Ex db eb IIC T4-T6 Gb oder II 2G Ex db IIC T4-T6 Gb	
DBEx 250 and DBEx 280	II 2G Ex db eb IIB T4-T6 Gb oder II 2G Ex db IIB T4-T6 Gb	
DDEx 250 and DDEx 280	II 2G Ex db eb IIC T4-T6 Gb oder II 2G Ex db IIC T4-T6 Gb	II 2D Ex tb IIIC T135°C - 85°C Db
DEx 315	II 2G Ex de IIC T4-T6 oder II 2G Ex d IIC T4-T6	

are conform to the regulations of the following European directives:

- EMV- directive 2014/30/EU
- ATEX- directive 2014/34/EU
- RoHS- directive 2011/65/EU and (Amendment Annex II (EU) 2015/863)
- Electric motor Regulation 2019/1781/EU
- Machinery directive 2006/42/EC

The compliance with the provisions of the directives is proved by the following series of standards with all relevant parts according to the current date:

- DIN EN 60034
- DIN EN 60079-0:2018, 60079-1:2014, 60079-7:2015 + A1:2018, 60079-31:2014

The following EG/EU-type examination certificate is valid:

D_Ex 63: SIQ 16 ATEX 142 X 0158 DEKRA DTC GmbH
D_Ex 71 – 225: BVS 14 ATEX E 114 X 0158 DEKRA DTC GmbH
D_Ex 250: BVS 19 ATEX E 005 X 0158 DEKRA DTC GmbH
D_Ex 280: BVS 19 ATEX E 006 X 0158 DEKRA DTC GmbH
DEx 315: PTB 10 ATEX 1047 X 0158 DEKRA DTC GmbH

The designated product is to be seen as a component for installation into a machine or system.

Commissioning is prohibited until the conformity of the final product to the directive 2006/42/EC is established.

(M. Scheidt) Managing Director date 30.06.2021

The safety instructions of the product documentation must be duly observed.

This declaration of conformity is no warranty of the characteristics in the sense of product liability.

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: **Klemmenkästen**
that the product: *Terminal Boxes*
que le produit: *Boîtes de jonction*

Typ(en), type(s), type(s): **8146/1**
8146/2

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	EN IEC 60079-0:2018
2014/34/EU	<i>ATEX Directive</i>	EN 60079-1:2014
2014/34/UE	<i>Directive ATEX</i>	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
EU Baumusterprüfbescheinigung:		PTB 01 ATEX 1016
<i>EU Type Examination Certificate:</i>		(Physikalisch-Technische Bundesanstalt,
<i>Attestation d'examen UE de type:</i>		Bundesallee 100, 38116 Braunschweig, Germany, NB0102)
Produktnormen nach Niederspannungsrichtlinie:		EN 61439-1:2011
<i>Product standards according to Low Voltage Directive:</i>		EN 61439-2:2011
<i>Normes des produit pour la Directive Basse Tension:</i>		
2014/30/EU	EMV-Richtlinie	Nicht zutreffend nach Artikel 2, Absatz (2) d).
2014/30/EU	<i>EMC Directive</i>	<i>Not applicable according to article 2, paragraph (2) d).</i>
2014/30/UE	<i>Directive CEM</i>	<i>Non applicable selon l'article 2, paragraphe (2) d).</i>
2011/65/EU	RoHS-Richtlinie	EN IEC 63000:2018
2011/65/EU	<i>RoHS Directive</i>	
2011/65/UE	<i>Directive RoHS</i>	

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

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

auf das sich diese Erklärung bezieht den Anforderungen der folgen- den Richtlinien (RL) entspricht ATEX-Richtlinie 2014/34/EU RoHS-Richtlinie 2011/65/EU RoHS-Richtlinie 2015/863/EU und mit folgenden Normen oder nor- mativen Dokumenten übereinstimmt	to which this declaration relates is in accordance with the provision of the following directives (D) ATEX-Directive 2014/34/EU RoHS-Directive 2011/65/EU RoHS-Directive 2015/863/EU and is in conformity with the following standards or other normative documents	se référant à cette attestation correspond aux dispositions des direc- tives (D) suivantes Directive ATEX 2014/34/UE Directive RoHS 2011/65/UE Directive RoHS 2015/863/UE et est conforme aux normes ou docu- ments normatifs ci-dessous
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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-Baumuster- prüfung / 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



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

Declaration of conformity

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

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
SE 9.24-25,40 Ex
Part no.: 10005491 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

SE 9.24-25,40 Ex

Part no.: 10005491 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

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