

Materialprüfungsamt Nordrhein-Westfalen

Prüfen • Überwachen • Zertifizieren

Certificate of constancy of performance**0432-CPR-00026-83**

Version 02

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction products Regulation or CPR), this certificate applies to the construction product

Integrated door coordinators "GSR" with and without integrated hold open devices "EMF"

Door coordinators with and without integrated electrically powered hold open device for double-leaf doors in accordance with the composition and classification in annex 1

placed on the market under the name or trade mark of

dormakaba Deutschland GmbH

DORMA Platz 1
58256 Ennepetal
Germany

and produced in the manufacturing plant(s)

DO 2.1

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in annex ZA of the standard(s)

EN 1158: 1997/A1:2002/AC:2006

under **system 1** for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

constancy of performance of the construction product.

This certificate was first issued on 18.12.2017 and will remain valid until 18.12.2027 as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Dortmund, 18.12.2022



By order

Friedrich

Head of Certification Body

This Certificate consists of 1 page and 1 annex(es).

The original of this document was issued in German language. It replaces the certificate

no. 0432-CPR-00026-83, dated 18.12.2017, version 01.

In case of doubt only the German version is valid.



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List of Products

Type :	„GSR“
Description :	In door closer integrated door coordinator with slide channel arm assembly.
Arm system :	Slide channel arm assembly
Used door closers:	TS 93 B EN 2-5 TS 93 B EN 5-7 TS 93 B „Basic“ EN 2-5 TS 93 B EN 1-5 TS 92 B EN 1-4 TS 91 B EN 3 TS 92 B „Basic“ EN 1-4 TS 99 FL EN 2-5
Installation :	door leaf fixing, pull side according to manufacturer specifications
Size :	3 - 7
Classification :	3 8 7/3 1 1 3
Manufacturing plant :	DO 2.1

Intended use:

On fire- and smoke protection doors

Essential property	Sections with requirements in EN 1158:1997/A1:2002/AC:2006	Performance of the product
Self-closing	5.1.2 Completeness of products 5.1.3 Correct closing sequence 5.2.1 General 5.2.2 Overload behavior in the closing direction 5.2.3 Manipulation 5.2.4 Resistance of the waiting position 5.2.6 Damage 5.2.8 Suitability for fire / smoke protection doors	Passed Passed (Size 3-7) Passed (Size 3-7) Passed (Size 3-7) Passed (Size 3-7) Passed class 1: Passed
Durability of Self-closing	5.2.5 Durability 5.2.7 Corrosion resistance 5.2.7.1 5.2.7.2 5.2.7.3	Class 8 (500.000 cycles): Passed (Size 3-7) class 3 (96h): Passed class 3 (96h): Passed class 3 (96h): Passed
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

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Type :	„GSR-EMF 2“
Description :	In door closer integrated door coordinator with slide channel arm assembly with an integrated hold open device EMF in the active and inactive door slide channel arm assembly.
Arm system :	Slide channel arm assembly
Used door closers :	TS 93 B EN 2-5 TS 93 B EN 5-7 TS 93 B „Basic“ EN 2-5 TS 93 B EN 1-5 TS 92 B EN 1-4 TS 91 B EN 3 TS 92 B „Basic“ EN 1-4 TS 99 FL EN 2-5
Installation :	Door-leaf fixing, pull side according to manufacturer specifications
Size :	3 - 5
Classification :	3 8 5/3 1 1 3
Manufacturing plant :	DO 2.1

Type :	„GSR-EMF 1“
Description :	In door closer integrated door coordinator with slide channel arm assembly with an integrated hold open device EMF in the inactive door slide channel arm assembly.
Arm system :	Slide channel arm assembly
Used door closers :	TS 93 B EN 2-5 TS 93 B EN 5-7 TS 93 B „Basic“ EN 2-5 TS 93 B EN 1-5 TS 92 B EN 1-4 TS 91 B EN 3 TS 92 B „Basic“ EN 1-4 TS 99 FL EN 2-5
Installation :	Door-leaf fixing, pull side according to manufacturer specifications
Size :	3 - 5
Classification :	3 8 5/3 1 1 3
Manufacturing plant :	DO 2.1

Type :	„GSR-EMF 1 G“
Description :	In door closer integrated door coordinator with slide channel arm assembly with an integrated hold open device EMF in the active door slide channel arm assembly.
Arm system :	Slide channel arm assembly
Used door closers :	TS 93 B EN 2-5 TS 93 B EN 5-7 TS 93 B „Basic“ EN 2-5 TS 93 B EN 1-5 TS 92 B EN 1-4 TS 91 B EN 3 TS 92 B „Basic“ EN 1-4 TS 99 FL EN 2-5
Installation :	Door-leaf fixing, pull side according to manufacturer specifications
Size :	3 - 5
Classification :	3 8 5/3 1 1 3
Manufacturing plant :	DO 2.1

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Type : „GSR-EMR 2“
Description : In door closer integrated door coordinator with slide channel arm assembly with an integrated hold open device EMF in the active and inactive door slide channel arm assembly and an integrated smoke detector.
Arm system : Slide channel arm assembly
Used door closers : TS 93 B EN 2-5
 TS 93 B EN 5-7
 TS 93 B „Basic“ EN 2-5
 TS 93 B EN 1-5
 TS 92 B EN 1-4
 TS 91 B EN 3
 TS 92 B „Basic“ EN 1-4
 TS 99 FL EN 2-5
Installation : Door-leaf fixing, pull side according to manufacturer specifications
Size : 3 - 5
Classification : 3 8 5/3 1 1 0
Manufacturing plant : DO 2.1

Type : „GSR-EMR 1“
Description : In door closer integrated door coordinator with slide channel arm assembly with an integrated hold open device EMF in the inactive door slide channel arm assembly and an integrated smoke detector.
Arm system : Slide channel arm assembly
Used door closers : TS 93 B EN 2-5
 TS 93 B EN 5-7
 TS 93 B „Basic“ EN 2-5
 TS 93 B EN 1-5
 TS 92 B EN 1-4
 TS 91 B EN 3
 TS 92 B „Basic“ EN 1-4
 TS 99 FL EN 2-5
Installation : Door-leaf fixing, pull side according to manufacturer specifications
Size : 3 - 5
Classification : 3 8 5/3 1 1 0
Manufacturing plant : DO 2.1

Type : „GSR-EMR 1 G“
Description : In door closer integrated door coordinator with slide channel arm assembly with an integrated hold open device EMF in the active door slide channel arm assembly and an integrated smoke detector.
Arm system : Slide channel arm assembly
Used door closers : TS 93 B EN 2-5
 TS 93 B EN 5-7
 TS 93 B „Basic“ EN 2-5
 TS 93 B EN 1-5
 TS 92 B EN 1-4
 TS 91 B EN 3
 TS 92 B „Basic“ EN 1-4
 TS 99 FL EN 2-5
Installation : Door-leaf fixing, pull side according to manufacturer specifications
Size : 3 - 5
Classification : 3 8 5/3 1 1 0
Manufacturing plant : DO 2.1

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Intended use:

On fire- and/or smoke protection doors

Essential property	Sections with requirements in EN 1158:1997/A1:2002/AC:2006	Performance of the product
Self-closing	5.1.2 Completeness of products 5.1.3 Correct closing sequence 5.2.1 General 5.2.2 Overload behavior in the closing direction 5.2.3 Manipulation 5.2.4 Resistance of the waiting position 5.2.6 Damage 5.2.8 Suitability for fire / smoke protection doors	Passed Passed (Size 3-7) Passed (Size 3-7) Passed (Size 3-7) Passed (Size 3-7) Passed Class 1:Passed
Durability of Self-closing	5.2.5 Durability 5.2.7 Corrosion resistance GSR EMF 2, GSR EMF 1, GSR EMF 1G 5.2.7.1 5.2.7.2 5.2.7.3 GSR EMR 2,GSR-EMR ,GSR EMR 1 GSR EMR 1G 5.2.7.1 5.2.7.2 5.2.7.3	Class 8 (500000 cycles):Passed (Size 3-7) Class 3 (96h):Passed Class 3 (96h):Passed Class 3 (96h):Passed No requirements class 0 No requirements class 0 No requirements class 0
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

Essential property	Sections with requirements in EN 1155:1997/A1:2002/AC:2006	Performance of the product
Ability to release	5.1.2 Release from every angle 5.1.3 Preventing the release 5.1.4 Voltage supply 5.1.5 Extern electrical connection 5.1.6 Inlet for external cable management 5.2.1 General 5.2.2 Electrical release 5.2.5 Hold open angle 5.2.6 Manual disengagement 5.2.7 Continuous hold open 5.2.8 Overload behavior 5.2.9 Shutter release delay 5.2.10 Electrical power 5.2.11 Temperature increase 5.2.12 Damage 5.2.13 Suitability for fire / smoke protection doors	Passed (Size 3-5) Passed 24 V/DC; Residual ripple 30 % Passed Passed Passed Passed Passed (Size 3-5) Passed (Size 3-5) Passed (Size 3-5) Passed (Size 3-5) Passed (Size 3-5) No performance declared Passed Passed (Size 3-5) Passed (Size 3-5) Class 1:Passed
Durability of the ability to release	5.2.4 Durability 5.2.14 Corrosion resistance EMF 5.2.14.1 5.2.14.2 5.2.14.3 EMR 5.2.14.1 5.2.14.2 5.2.14.3	Class 8 (500000 cycles) Passed (Size 3-5) Class 3 (96h):Passed Class 3 (96h):Passed Class 3 (96h):Passed No requirements class 0 No requirements class 0 No requirements class 0
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

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<i>Essential property</i>	<i>Sections with requirements in EN 1154:1996/A1:2002/AC:2006</i>	<i>Performance of the product</i>
<i>Self-closing</i>	<i>TS 93 B EN 2-5 / TS 93 B Basic EN 2-5</i> 5.2.1 <i>General</i> 5.2.3 <i>Closing torque</i> 5.2.4 <i>Opening torque</i> 5.2.5 <i>Efficiency</i> 5.2.6 <i>Closing time</i> 5.2.7 <i>Opening angle</i> 5.2.8 <i>Overload behavior</i> 5.2.9 <i>Temperature dependence</i> 5.2.10 <i>Leaking</i> 5.2.11 <i>Damage</i> 5.2.12 <i>Latch</i> 5.2.13 <i>Back check</i> 5.2.14 <i>Closing time delay</i> <i>TS 93B EN 2-5</i> <i>TS 93 Basic EN 2-5</i> 5.2.15 <i>Adjustable closing force</i> 5.2.16 <i>Play in zero position</i> 5.2.18 <i>Suitability for fire-/ smoke protection doors</i>	<i>Passed</i> <i>Passed (Size 2-5)</i> <i>Passed (Size 2-5)</i> <i>Passed (Size 2-5)</i> <i>Passed (Size 2-5)</i> <i>Passed (Class 4)</i> <i>Passed (Size 2-5)</i> <i>Passed (Size 2-5)</i> <i>Passed (Size 2-5)</i> <i>Passed (Size 2-5)</i> <i>Passed (Size 2-5)</i> <i>Passed (Size 2-5)</i> <i>Passed (Size 2-5)</i> <i>Passed (Size 2-5)</i> <i>Passed (Size 2-5)</i> <i>Passed (Size 2-5)</i> <i>Passed (Size 2-5)</i> <i>Not applicable</i> <i>Passed (Size 2-5)</i> <i>Not applicable</i> <i>Class 1:Passed</i>
<i>Durability of Self-closing</i>	5.2.2 <i>Durability</i> 5.2.17.1 <i>Corrosion resistance</i> 5.2.17.2 <i>Corrosion resistance</i> 5.2.17.3 <i>Corrosion resistance</i>	<i>Passed Class 8 (500 000 Cycles)</i> <i>Passed Class 4 (240h)</i> <i>Passed Class 4 (240h)</i> <i>Passed Class 4 (240h)</i>
<i>Dangerous substances</i>	<i>Annex ZA.3</i>	<i>The manufacturer has not declared any dangerous substances</i>

<i>Essential property</i>	<i>Sections with requirements in EN 1154:1996/A1:2002/AC:2006</i>	<i>Performance of the product</i>
<i>Self-closing</i>	<i>TS 93 B EN 5-7</i> 5.2.1 <i>General</i> 5.2.3 <i>Closing torque</i> 5.2.4 <i>Opening torque</i> 5.2.5 <i>Efficiency</i> 5.2.6 <i>Closing time</i> 5.2.7 <i>Opening angle</i> 5.2.8 <i>Overload behavior</i> 5.2.9 <i>Temperature dependence</i> 5.2.10 <i>Leaking</i> 5.2.11 <i>Damage</i> 5.2.12 <i>Latch</i> 5.2.13 <i>Back check</i> 5.2.14 <i>Closing time delay</i> 5.2.15 <i>Adjustable closing force</i> 5.2.16 <i>Play in zero position</i> 5.2.18 <i>Suitability for fire-/ smoke protection doors</i>	<i>Passed</i> <i>Passed (Size 5-7)</i> <i>Passed (Size 5-7)</i> <i>Passed (Size 5-7)</i> <i>Passed (Size 5-7)</i> <i>Passed (Class 4)</i> <i>Passed (Size 5-7)</i> <i>Passed (Size 5-7)</i> <i>Passed (Size 5-7)</i> <i>Passed (Size 5-7)</i> <i>Passed (Size 5-7)</i> <i>Passed (Size 5-7)</i> <i>Passed (Size 5-7)</i> <i>Passed (Size 5-7)</i> <i>Passed (Size 5-7)</i> <i>Passed (Size 5-7)</i> <i>Passed (Size 5-7)</i> <i>Passed (Size 5-7)</i> <i>Not applicable</i> <i>Class 1:Passed</i>
<i>Durability of Self-closing</i>	5.2.2 <i>Durability</i> 5.2.17.1 <i>Corrosion resistance</i> 5.2.17.2 <i>Corrosion resistance</i> 5.2.17.3 <i>Corrosion resistance</i>	<i>Passed Class 8 (500000 Cycles)</i> <i>Passed Class 4 (240h)</i> <i>Passed Class 4 (240h)</i> <i>Passed Class 4 (240h)</i>
<i>Dangerous substances</i>	<i>Annex ZA.3</i>	<i>The manufacturer has not declared any dangerous substances</i>

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Essential property	Sections with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of the product
Self-closing	TS 93 B EN 1-5 5.2.1 General 5.2.3 Closing torque 5.2.4 Opening torque 5.2.5 Efficiency 5.2.6 Closing time 5.2.7 Opening angle 5.2.8 Overload behavior 5.2.9 Temperature dependence 5.2.10 Leaking 5.2.11 Damage 5.2.12 Latch 5.2.13 Back check 5.2.14 Closing time delay 5.2.15 Adjustable closing force 5.2.16 Play in zero position 5.2.18 Suitability for fire-/ smoke protection doors	Passed Passed (Size 1-5) Passed (Size 1-5) Passed (Size 1-5) Passed (Size 1-5) Passed (Class 4) Passed (Size 1-5) Passed (Size 1-5) Passed (Size 1-5) Passed (Size 1-5) Passed (Size 1-5) Passed (Size 1-5) Passed (Size 1-5) Passed (Size 1-5) Not applicable Class 1:Passed
Durability of Self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Passed Class 8 (500 000 Cycles) Passed Class 4 (240h) Passed Class 4 (240h) Passed Class 4 (240h)
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

Essential property	Sections with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of the product
Self-closing	TS 92 B EN 1-4 / TS 92 B Basic EN 1-4 5.2.1 General 5.2.3 Closing torque 5.2.4 Opening torque 5.2.5 Efficiency 5.2.6 Closing time 5.2.7 Opening angle 5.2.8 Overload behavior 5.2.9 Temperature dependence 5.2.10 Leaking 5.2.11 Damage 5.2.12 Latch 5.2.13 Back check 5.2.14 Closing time delay 5.2.15 Adjustable closing force 5.2.16 Play in zero position 5.2.18 Suitability for fire-/ smoke protection doors	Passed Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Passed (Class 4) Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Not applicable Not applicable Not applicable Passed (Size 1-4) Not applicable Class 1:Passed
Durability of Self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Passed Class 8 (500 000 Cycles) Passed Class 4 (240h) Passed Class 4 (240h) Passed Class 4 (240h)
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

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Essential property	Sections with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of the product
Self-closing	TS 91 B EN 3 5.2.1 General 5.2.3 Closing torque 5.2.4 Opening torque 5.2.5 Efficiency 5.2.6 Closing time 5.2.7 Opening angle 5.2.8 Overload behavior 5.2.9 Temperature dependence 5.2.10 Leaking 5.2.11 Damage 5.2.12 Latch 5.2.13 Back check 5.2.14 Closing time delay 5.2.15 Adjustable closing force 5.2.16 Play in zero position 5.2.18 Suitability for fire-/ smoke protection doors	Passed Passed (Size 3) Passed (Size 3) Passed (Size 3) Passed (Size 3) Passed (Class 4) Passed (Size 3) Passed (Size 3) Passed (Size 3) Passed (Size 3) Passed (Size 3) Not applicable Not applicable Not applicable Passed (Size 3) Not applicable Class 1:Passed
Durability of Self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Passed Class 8 (500 000 Cycles) Passed Class 4 (240h) Passed Class 4 (240h) Passed Class 4 (240h)
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

Essential property	Sections with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of the product
Self-closing	TS 99 FL EN 2-5 5.2.1 General 5.2.3 Closing torque 5.2.4 Opening torque 5.2.5 Efficiency 5.2.6 Closing time 5.2.7 Opening angle 5.2.8 Overload behavior 5.2.9 Temperature dependence 5.2.10 Leaking 5.2.11 Damage 5.2.12 Latch 5.2.13 Back check 5.2.14 Closing time delay 5.2.15 Adjustable closing force 5.2.16 Play in zero position 5.2.18 Suitability for fire-/ smoke protection doors	Passed Passed (Size 2-5) Passed (Size 2-5) Passed (Size 2-5) Passed (Size 2-5) Passed (Class 4) Passed (Size 2-5) Passed (Size 2-5) Passed (Size 2-5) Passed (Size 2-5) Passed (Size 2-5) Passed (Size 2-5) Not applicable Not applicable Passed (Size 2-5) Not applicable Class 1:Passed
Durability of Self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Passed Class 8 (500 000 Cycles) Passed Class 3 (96h) Passed Class 3 (96h) Passed Class 3 (96h)
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

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Type :	„GSR/BG“
Description :	In door closer integrated door coordinator.
Arm system :	Slide channel arm assembly
Used door closers :	TS 93 G EN 2-5 TS 93 G EN 5-7 TS 93 G „Basic“ EN 2-5 TS 93 G EN 1-5 TS 92 G EN 1-4 TS 91 G EN 3 TS 92 G „Basic“ EN 1-4
Installation :	Door-leaf fixing, push side according to manufacturer specifications
Size :	3 - 5
Classification :	3 8 5/3 1 1 3
Manufacturing plant :	DO 2.1

Intended use:

On fire- and/or smoke protection doors

Essential property	Sections with requirements in EN 1158:1997/A1:2002/AC:2006	Performance of the product
Self-closing	5.1.2 Completeness of products 5.1.3 Correct closing sequence 5.2.1 General 5.2.2 Overload behavior in the closing direction 5.2.3 Manipulation 5.2.4 Resistance of the waiting position 5.2.6 Damage 5.2.8 Suitability for fire / smoke protection doors	Passed Passed (Size 3-5) Passed (Size 3-5) Passed (Size 3-5) Passed (Size 3-5) Passed Class 1:Passed
Durability of Self-closing	5.2.5 Durability 5.2.7 Corrosion resistance 5.2.7.1 5.2.7.2 5.2.7.3	Class 8 (500000 cycles):Passed (Size 3-5) Class 3 (96h):Passed Class 3 (96h):Passed Class 3 (96h):Passed
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

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Type :	„GSR-EMF 2/BG“
Description :	In door closer integrated door coordinator with slide channel arm assembly with an integrated hold open device EMF in the active and inactive door slide channel arm assembly.
Arm system :	Slide channel arm assembly
Used door closers :	TS 93 G EN 2-5 TS 93 G EN 5-7 TS 93 G „Basic“ EN 2-5 TS 93 G EN 1-5 TS 92 G EN 1-4 TS 91 G EN 3 TS 92 G „Basic“ EN 1-4
Installation :	Door-leaf fixing, push side according to manufacturer specifications
Size :	3 - 5
Classification :	3 8 5/3 1 1 3
Manufacturing plant :	DO 2.1

Type :	GSR-EMR 2/G
Description :	In door closer integrated door coordinator with slide channel arm assembly with an integrated hold open device EMF in the active and inactive door slide channel arm assembly and an integrated smoke detector.
Arm system :	Slide channel arm assembly
Used door closers :	TS 93 G EN 2-5 TS 93 G EN 5-7 TS 93 G „Basic“ EN 2-5 TS 93 G EN 1-5 TS 92 G EN 1-4 TS 91 G EN 3 TS 92 G „Basic“ EN 1-4
Installation :	Door-leaf fixing, push side according to manufacturer specifications
Size :	3 - 5
Classification :	3 8 5/3 1 1 0
Manufacturing plant :	DO 2.1

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Intended use:

On fire- and/or smoke protection doors

Essential property	Sections with requirements in EN 1155:1997/A1:2002/AC:2006	Performance of the product
Ability to release	5.1.2 Release from every angle 5.1.3 Preventing the release 5.1.4 Voltage supply 5.1.5 Extern electrical connection 5.1.6 Inlet for external cable management 5.2.1 General 5.2.2 Electrical release 5.2.5 Hold open angle 5.2.6 Manual disengagement 5.2.7 Continuous hold open 5.2.8 Overload behavior 5.2.9 Shutter release delay 5.2.10 Electrical power 5.2.11 Temperature increase 5.2.12 Damage 5.2.13 Suitability for fire / smoke protection doors	Passed Passed (Size 3-5) 24 V/ DC; Residual ripple 30 % Passed Passed Passed Passed Passed (Size 3-5) Passed (Size 3-5) Passed (Size 3-5) Passed (Size 3-5) Passed (Size 3-5) No performance declared Passed Passed (Size 3-5) Passed Class 1:Passed
Durability of the ability to release	5.2.4 Durability 5.2.14 Corrosion resistance EMF 5.2.14.1 5.2.14.2 5.2.14.3 EMR 5.2.14.1 5.2.14.2 5.2.14.3	Class 8 (500000 cycles) Passed (Size 3-5) Class 3 (96h):Passed Class 3 (96h):Passed Class 3 (96h):Passed No requirements class 0 No requirements class 0 No requirements class 0
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

Essential property	Sections with requirements in EN 1158:1997/A1:2002/AC:2006	Performance of the product
Self-closing	5.1.2 Completeness of products 5.1.3 Correct closing sequence 5.2.1 General 5.2.2 Overload behavior in the closing direction 5.2.3 Manipulation 5.2.4 Resistance of the waiting position 5.2.6 Damage 5.2.8 Suitability for fire / smoke protection doors	Passed Passed (Size 3-5) Passed (Size 3-5) Passed (Size 3-5) Passed (Size 3-5) Passed Class 1:Passed
Durability of Self-closing	5.2.5 Durability 5.2.7 Corrosion resistance GSR EMF 2, GSR EMF 1, GSR EMF 1G 5.2.7.1 5.2.7.2 5.2.7.3 GSR EMR 2, GSR-EMR 2, GSR EMR 1 GSR EMR 1G 5.2.7.1 5.2.7.2 5.2.7.3	Class 8 (500000 cycles):Passed (Size 3-5) Class 3 (96h):Passed Class 3 (96h):Passed Class 3 (96h):Passed No requirements class 0 No requirements class 0 No requirements class 0
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

Materialprüfungsamt Nordrhein-Westfalen

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Intended use:

On fire and/or smoke protection doors

Essential property	Sections with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of the product
Self-closing	TS 93 G EN 2-5 / TS 93 G Basic EN 2-5 5.2.1 General 5.2.3 Closing torque 5.2.4 Opening torque 5.2.5 Efficiency 5.2.6 Closing time 5.2.7 Opening angle 5.2.8 Overload behavior 5.2.9 Temperature dependence 5.2.10 Leaking 5.2.11 Damage 5.2.12 Latch 5.2.13 Back check 5.2.14 Closing time delay TS 93 G EN 2-5 TS 93 G Basic EN 2-5 5.2.15 Adjustable closing force 5.2.16 Play in zero position 5.2.18 Suitability for fire-/ smoke protection doors	Passed Passed (Size 2-5) Passed (Size 2-5) Passed (Size 2-5) Passed (Size 2-5) Passed (Class 3) Passed (Size 2-5) Passed (Size 2-5) Passed (Size 2-5) Passed (Size 2-5) Passed (Size 2-5) Passed (Size 2-5) Passed (Size 2-5) Passed (Size 2-5) Passed (Size 2-5) Passed (Size 2-5) Passed (Size 2-5) Passed (Size 2-5) Not applicable Passed (Size 2-5) Not applicable Class 1:Passed
Durability of Self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Passed Class 8 (500 000 Cycles) Passed Class 4 (240h) Passed Class 4 (240h) Passed Class 4 (240h)
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

Essential property	Sections with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of the product
Self-closing	TS 93 G EN 5-7 5.2.1 General 5.2.3 Closing torque 5.2.4 Opening torque 5.2.5 Efficiency 5.2.6 Closing time 5.2.7 Opening angle 5.2.8 Overload behavior 5.2.9 Temperature dependence 5.2.10 Leaking 5.2.11 Damage 5.2.12 Latch 5.2.13 Back check 5.2.14 Closing time delay 5.2.15 Adjustable closing force 5.2.16 Play in zero position 5.2.18 Suitability for fire-/ smoke protection doors	Passed Passed (Size 5-7) Passed (Size 5-7) Passed (Size 5-7) Passed (Size 5-7) Passed (Class 3) Passed (Size 5-7) Passed (Size 5-7) Passed (Size 5-7) Passed (Size 5-7) Passed (Size 5-7) Passed (Size 5-7) Passed (Size 5-7) Passed (Size 5-7) Passed (Size 5-7) Passed (Size 5-7) Passed (Size 5-7) Passed (Size 5-7) Not applicable Class 1:Passed
Durability of Self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Passed Class 8 (500 000 Cycles) Passed Class 4 (240h) Passed Class 4 (240h) Passed Class 4 (240h)
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

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Essential property	Sections with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of the product
Self-closing	TS 93 G EN 1-5 5.2.1 General 5.2.3 Closing torque 5.2.4 Opening torque 5.2.5 Efficiency 5.2.6 Closing time 5.2.7 Opening angle 5.2.8 Overload behavior 5.2.9 Temperature dependence 5.2.10 Leaking 5.2.11 Damage 5.2.12 Latch 5.2.13 Back check 5.2.14 Closing time delay 5.2.15 Adjustable closing force 5.2.16 Play in zero position 5.2.18 Suitability for fire-/ smoke protection doors	Passed Passed (Size 1-5) Passed (Size 1-5) Passed (Size 1-5) Passed (Size 1-5) Passed (Class 3) Passed (Size 1-5) Passed (Size 1-5) Passed (Size 1-5) Passed (Size 1-5) Passed (Size 1-5) Passed (Size 1-5) Passed (Size 1-5) Passed (Size 1-5) Passed (Size 1-5) Not applicable Class 1:Passed
Durability of Self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Passed Class 8 (500 000 Cycles) Passed Class 4 (240h) Passed Class 4 (240h) Passed Class 4 (240h)
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

Essential property	Sections with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of the product
Self-closing	TS 92 G EN 1-4 / TS 92 G Basic EN 1-4 5.2.1 General 5.2.3 Closing torque 5.2.4 Opening torque 5.2.5 Efficiency 5.2.6 Closing time 5.2.7 Opening angle 5.2.8 Overload behavior 5.2.9 Temperature dependence 5.2.10 Leaking 5.2.11 Damage 5.2.12 Latch 5.2.13 Back check 5.2.14 Closing time delay 5.2.15 Adjustable closing force 5.2.16 Play in zero position 5.2.18 Suitability for fire-/ smoke protection doors	Passed Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Passed (Class 3) Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Not applicable Not applicable Not applicable Passed (Size 1-4) Not applicable Class 1:Passed
Durability of Self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Passed Class 8 (500 000 Cycles) Passed Class 4 (240h) Passed Class 4 (240h) Passed Class 4 (240h)
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

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Essential property	Sections with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of the product
Self-closing	TS 91 G EN 3 5.2.1 General 5.2.3 Closing torque 5.2.4 Opening torque 5.2.5 Efficiency 5.2.6 Closing time 5.2.7 Opening angle 5.2.8 Overload behavior 5.2.9 Temperature dependence 5.2.10 Leaking 5.2.11 Damage 5.2.12 Latch 5.2.13 Back check 5.2.14 Closing time delay 5.2.15 Adjustable closing force 5.2.16 Play in zero position 5.2.18 Suitability for fire-/ smoke protection doors	Passed Passed (Size 3) Passed (Size 3) Passed (Size 3) Passed (Size 3) Passed (Class 3) Passed (Size 3) Passed (Size 3) Passed (Size 3) Passed (Size 3) Not applicable Not applicable Not applicable Passed (Size 3) Not applicable Class 1:Passed
Durability of Self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Passed Class 8 (500 000 Cycles) Passed Class 4 (240h) Passed Class 4 (240h) Passed Class 4 (240h)
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

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Type :	„GSR XEA“
Description :	Integrated door coordinators
Arm system :	Slide channel arm assembly
Used door closers :	TS 92 B XEA EN 1-4 TS 98 XEA EN 1-6 TS 97 FL XEA
Installation :	Door-leaf fixing, pull side according to manufacturer specifications
Size :	3 - 7
Classification :	3 8 7/3 1 1 4
Manufacturing plant :	DO 2.1

Intended use:

On fire- and/or smoke protection doors

Essential property	Sections with requirements in EN 1158:1997/A1:2002/AC:2006	Performance of the product
Self-closing	5.1.2 Completeness of products 5.1.3 Correct closing sequence 5.2.1 General 5.2.2 Overload behavior in the closing direction 5.2.3 Manipulation 5.2.4 Resistance of the waiting position 5.2.6 Damage 5.2.8 Suitability for fire / smoke protection doors	Passed Passed (Size 3-7) Passed (Size 3-7) Passed (Size 3-7) Passed (Size 3-7) Passed (Size 3-7) Class 1:Passed
Durability of Self-closing	5.2.5 Durability 5.2.7 Corrosion resistance 5.2.7.1 5.2.7.2 5.2.7.3	Class 8 (500000 cycles): Passed (Size 3-7) Class 4 (240h): Passed Class 4 (240h): Passed Class 4 (240h): Passed
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

Essential property	Sections with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of the product
Self-closing	TS 92 B XEA EN 1-4 5.2.1 General 5.2.3 Closing torque 5.2.4 Opening torque 5.2.5 Efficiency 5.2.6 Closing time 5.2.7 Opening angle 5.2.8 Overload behavior 5.2.9 Temperature dependence 5.2.10 Leaking 5.2.11 Damage 5.2.12 Latch 5.2.13 Back check 5.2.14 Closing time delay 5.2.15 Adjustable closing force 5.2.16 Play in zero position 5.2.18 Suitability for fire-/ smoke protection doors	Passed Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Passed (Class 4) Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Not applicable Not applicable Not applicable Passed (Size 1-4) Not applicable Not applicable Class 1:Passed
Durability of Self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Passed Class 8 (500 000 Cycles) Passed Class 4 (240h) Passed Class 4 (240h) Passed Class 4 (240h)
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

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Essential property	Sections with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of the product
Self-closing	TS 98 XEA EN 1-6 5.2.1 General 5.2.3 Closing torque 5.2.4 Opening torque 5.2.5 Efficiency 5.2.6 Closing time 5.2.7 Opening angle 5.2.8 Overload behavior 5.2.9 Temperature dependence 5.2.10 Leaking 5.2.11 Damage 5.2.12 Latch 5.2.13 Back check 5.2.14 Closing time delay 5.2.15 Adjustable closing force 5.2.16 Play in zero position 5.2.18 Suitability for fire-/ smoke protection doors	Passed Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Passed (Class 4) Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Not applicable Class 1:Passed
Durability of Self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Passed Class 8 (500 000 Cycles) Passed Class 4 (240h) Passed Class 4 (240h) Passed Class 4 (240h)
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

Essential property	Sections with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of the product
Self-closing	TS 97 FL XEA 5.2.1 General 5.2.3 Closing torque 5.2.4 Opening torque 5.2.5 Efficiency 5.2.6 Closing time 5.2.7 Opening angle 5.2.8 Overload behaviour 5.2.9 Temperature dependence 5.2.10 Leaking 5.2.11 Damage 5.2.12 Latch 5.2.13 Back check 5.2.14 Delayed action 5.2.15 Adjustable closing force 5.2.16 Play at zero position 5.2.18 Suitability for fire-/smoke-protection doors	passed passed (Size 3-6) passed (Size 3-6) passed (Size 3-6) passed (Size 3-6) passed (Class 3) passed (Size 3-6) passed (Size 3-6) passed (Size 3-6) passed (Size 3-6) passed (Size 3-6) passed (Size 3-6) not applicable not applicable passed (Size 3-6) not applicable Class 1: passed
Durability of self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Passed Class 8 (500 000 Cycles) (Size 3-6) Class 4 (240h): Passed Class 4 (240h): Passed Class 4 (240h): Passed
Dangerous substances	Anhang ZA.3	The manufacturer has not declared any dangerous substances.

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Type :	„GSR-EMF 2 XEA“
Description :	In door closer integrated door coordinator with slide channel arm assembly with an integrated hold open device EMF in the active and inactive door slide channel arm assembly.
Arm system :	Slide channel arm assembly
Used door closers :	TS 92 B XEA EN 1-4 TS 98 XEA EN 1-6 TS 97 FL XEA
Installation :	Door-leaf fixing, pull side according to manufacturer specifications
Size :	3 - 5
Classification :	3 8 5/3 1 1 4
Manufacturing plant :	DO 2.1
Type :	„GSR-EMF 1 XEA“
Description :	In door closer integrated door coordinator with slide channel arm assembly with an integrated hold open device EMF in the inactive door slide channel arm assembly.
Arm system :	Slide channel arm assembly
Used door closers :	TS 92 B XEA EN 1-4 TS 98 XEA EN 1-6 TS 97 FL XEA
Installation :	Door-leaf fixing, pull side according to manufacturer specifications
Size :	3 - 5
Classification :	3 8 5/3 1 1 4
Manufacturing plant :	DO 2.1
Type :	„GSR-EMF 1 G XEA“
Description :	In door closer integrated door coordinator with slide channel arm assembly with an integrated hold open device EMF in the active door slide channel arm assembly.
Arm system :	Slide channel arm assembly
Used door closers :	TS 92 B XEA EN 1-4 TS 98 XEA EN 1-6 TS 97 FL XEA
Installation :	Door-leaf fixing, pull side according to manufacturer specifications
Size :	3 - 5
Classification :	3 8 5/3 1 1 4
Manufacturing plant :	DO 2.1
Type :	„GSR-EMR 2 XEA“
Description :	In door closer integrated door coordinator with slide channel arm assembly with an integrated hold open device EMF in the active and inactive door slide channel arm assembly and an integrated smoke detector.
Arm system :	Slide channel arm assembly
Used door closers :	TS 92 B XEA EN 1-4 TS 98 XEA EN 1-6 TS 97 FL XEA
Installation :	Door-leaf fixing, pull side according to manufacturer specifications
Size :	3 - 5
Classification :	3 8 5/3 1 1 0
Manufacturing plant :	DO 2.1

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Type :	„GSR-EMR 1 XEA“
Description :	In door closer integrated door coordinator with slide channel arm assembly with an integrated hold open device EMF in the inactive door slide channel arm assembly and an integrated smoke detector.
Arm system :	Slide channel arm assembly
Used door closers :	TS 92 B XEA EN 1-4 TS 98 XEA EN 1-6 TS 97 FL XEA
Installation :	Door-leaf fixing, pull side according to manufacturer specifications
Size :	3 - 5
Classification :	3 8 5/3 1 1 0
Manufacturing plant :	DO 2.1

Type :	„GSR-EMR 1 G XEA“
Description :	In door closer integrated door coordinator with slide channel arm assembly with an integrated hold open device EMF in the active door slide channel arm assembly and an integrated smoke detector.
Arm system :	Slide channel arm assembly
Used door closers :	TS 92 B XEA EN 1-4 TS 98 XEA EN 1-6 TS 97 FL XEA
Installation :	Door-leaf fixing, pull side according to manufacturer specifications
Size :	3 - 5
Classification :	3 8 5/3 1 1 0
Manufacturing plant :	DO 2.1

Intended use:

On fire- and/or smoke protection doors

Essential property	Sections with requirements in EN 1158:1997/A1:2002/AC:2006	Performance of the product
Self-closing	5.1.2 Completeness of products 5.1.3 Correct closing sequence 5.2.1 General 5.2.2 Overload behavior in the closing direction 5.2.3 Manipulation 5.2.4 Resistance of the waiting position 5.2.6 Damage 5.2.8 Suitability for fire / smoke protection doors	Passed Passed (Size 3-7) Passed (Size 3-7) Passed (Size 3-7) Passed (Size 3-7) Passed Class 1:Passed
Durability of Self-closing	5.2.5 Durability 5.2.7 Corrosion resistance GSR EMF 2 XEA, GSR EMF 1 XEA, GSR EMF 1G XEA 5.2.7.1 5.2.7.2 5.2.7.3 GSR EMR 2 XEA, GSR-EMR 2 XEA, GSR EMR 1 XEA, GSR EMR 1G XEA 5.2.7.1 5.2.7.2 5.2.7.3	Class 8 (500000 cycles):Passed (Size 3-7) Class 4 (240h): Passed Class 4 (240h): Passed Class 4 (240h): Passed No requirements class 0 No requirements class 0 No requirements class 0
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

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Essential property	Sections with requirements in EN 1155:1997/A1:2002/AC:2006	Performance of the product
Ability to release	5.1.2 Release from every angle 5.1.3 Preventing the release 5.1.4 Voltage supply 5.1.5 Extern electrical connection 5.1.6 Inlet for external cable management 5.2.1 General 5.2.2 Electrical release 5.2.5 Hold open angle 5.2.6 Manual disengagement 5.2.7 Continuous hold open 5.2.8 Overload behavior 5.2.9 Shutter release delay 5.2.10 Electrical power 5.2.11 Temperature increase 5.2.12 Damage 5.2.13 Suitability for fire / smoke protection doors	Passed (Size 3-5) Passed (Size 3-5) 24 V/DC; Residual ripple 30 % Passed Passed Passed Passed (Size 3-5) Passed (Size 3-5) Passed (Size 3-5) Passed (Size 3-5) Passed (Size 3-5) No performance declared Passed Passed (Size 3-5) Passed (Size 3-5) Class 1:Passed
Durability of the ability to release	5.2.4 Durability 5.2.14 Corrosion resistance EMF 5.2.14.1 5.2.14.2 5.2.14.3 EMR 5.2.14.1 5.2.14.2 5.2.14.3	Class 8 (500000 cycles) Passed (Size 3-5) Class 4 (240h): Passed Class 4 (240h): Passed Class 4 (240h): Passed No requirements class 0 No requirements class 0 No requirements class 0
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

Essential property	Sections with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of the product
Self-closing	TS 92 B XEA EN 1-4 5.2.1 General 5.2.3 Closing torque 5.2.4 Opening torque 5.2.5 Efficiency 5.2.6 Closing time 5.2.7 Opening angle 5.2.8 Overload behavior 5.2.9 Temperature dependence 5.2.10 Leaking 5.2.11 Damage 5.2.12 Latch 5.2.13 Back check 5.2.14 Closing time delay 5.2.15 Adjustable closing force 5.2.16 Play in zero position 5.2.18 Suitability for fire-/ smoke protection doors	Passed Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Passed (Class 4) Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Not applicable Not applicable Not applicable Passed (Size 1-4) Not applicable Class 1:Passed
Durability of Self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Passed Class 8 (500 000 Cycles) Passed Class 4 (240h) Passed Class 4 (240h) Passed Class 4 (240h)
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

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Essential property	Sections with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of the product
Self-closing	TS 98 XEA EN 1-6 5.2.1 General 5.2.3 Closing torque 5.2.4 Opening torque 5.2.5 Efficiency 5.2.6 Closing time 5.2.7 Opening angle 5.2.8 Overload behavior 5.2.9 Temperature dependence 5.2.10 Leaking 5.2.11 Damage 5.2.12 Latch 5.2.13 Back check 5.2.14 Closing time delay 5.2.15 Adjustable closing force 5.2.16 Play in zero position 5.2.18 Suitability for fire-/ smoke protection doors	Passed Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Passed (Class 4) Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Not applicable Class 1: Passed
Durability of Self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Passed Class 8 (500 000 Cycles) Passed Class 4 (240h) Passed Class 4 (240h) Passed Class 4 (240h)
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

Essential property	Sections with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of the product
Self-closing	TS 97 FL XEA 5.2.1 General 5.2.3 Closing torque 5.2.4 Opening torque 5.2.5 Efficiency 5.2.6 Closing time 5.2.7 Opening angle 5.2.8 Overload behavior 5.2.9 Temperature dependence 5.2.10 Leaking 5.2.11 Damage 5.2.12 Latch 5.2.13 Back check 5.2.14 Delayed action 5.2.15 Adjustable closing force 5.2.16 Play at zero position 5.2.18 Suitability for fire-/smoke-protection doors	passed passed (Size 3-6) passed (Size 3-6) passed (Size 3-6) passed (Size 3-6) passed (Class 4) passed (Size 3-6) passed (Size 3-6) passed (Size 3-6) passed (Size 3-6) passed (Size 3-6) passed (Size 3-6) not applicable not applicable passed (Size 3-6) not applicable Class 1: passed
Durability of self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Passed Class 8 (500 000 Cycles) (Size 3-6) Passed Class 4 (240h) Passed Class 4 (240h) Passed Class 4 (240h)
Dangerous substances	Anhang ZA.3	The manufacturer has not declared any dangerous substances.

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Type :	„GSR/BG XEA“
Description :	In door closer integrated door coordinator.
Arm system :	Slide channel arm assembly
Used door closers :	TS 92 G XEA EN 1-4 TS 98 XEA EN 1-6 TS 97 FL XEA
Installation :	Door-leaf fixing, push side according to manufacturer specifications
Size :	3 - 5
Classification :	3 8 5/3 1 1 4
Manufacturing plant :	DO 2.1

Intended use:

On fire- and/or smoke protection doors

Essential property	Sections with requirements in EN 1158:1997/A1:2002/AC:2006	Performance of the product
Self-closing	5.1.2 Completeness of products 5.1.3 Correct closing sequence 5.2.1 General 5.2.2 Overload behavior in the closing direction 5.2.3 Manipulation 5.2.4 Resistance of the waiting position 5.2.6 Damage 5.2.8 Suitability for fire / smoke protection doors	Passed Passed (Size 3-5) Passed (Size 3-5) Passed (Size 3-5) Passed (Size 3-5) Passed Class 1:Passed
Durability of Self-closing	5.2.5 Durability 5.2.7 Corrosion resistance 5.2.7.1 5.2.7.2 5.2.7.3	Class 8 (500000 cycles): Passed (Size 3-5) Class 4 (240h): Passed Class 4 (240h): Passed Class 4 (240h): Passed
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

Essential property	Sections with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of the product
Self-closing	TS 92 G XEA EN 1-4 5.2.1 General 5.2.3 Closing torque 5.2.4 Opening torque 5.2.5 Efficiency 5.2.6 Closing time 5.2.7 Opening angle 5.2.8 Overload behavior 5.2.9 Temperature dependence 5.2.10 Leaking 5.2.11 Damage 5.2.12 Latch 5.2.13 Back check 5.2.14 Closing time delay 5.2.15 Adjustable closing force 5.2.16 Play in zero position 5.2.18 Suitability for fire-/ smoke protection doors	Passed Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Passed (Class 3) Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Not applicable Not applicable Not applicable Passed (Size 1-4) Not applicable Class 1:Passed
Durability of Self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Passed Class 8 (500 000 Cycles) Passed Class 4 (240h) Passed Class 4 (240h) Passed Class 4 (240h)
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

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Essential property	Sections with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of the product
Self-closing	<p>TS 98 XEA EN 1-6</p> <p>5.2.1 General</p> <p>5.2.3 Closing torque</p> <p>5.2.4 Opening torque</p> <p>5.2.5 Efficiency</p> <p>5.2.6 Closing time</p> <p>5.2.7 Opening angle</p> <p>5.2.8 Overload behavior</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leaking</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch</p> <p>5.2.13 Back check</p> <p>5.2.14 Closing time delay</p> <p>5.2.15 Adjustable closing force</p> <p>5.2.16 Play in zero position</p> <p>5.2.18 Suitability for fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 1-6)</p> <p>Passed (Size 1-6)</p> <p>Passed (Size 1-6)</p> <p>Passed (Size 1-6)</p> <p>Passed (Class 3)</p> <p>Passed (Size 1-6)</p> <p>Passed (Size 1-6)</p> <p>Passed (Size 1-6)</p> <p>Passed (Size 1-6)</p> <p>Passed (Size 1-6)</p> <p>Passed (Size 1-6)</p> <p>Passed (Size 1-6)</p> <p>Passed (Size 1-6)</p> <p>Passed (Size 1-6)</p> <p>Passed (Size 1-6)</p> <p>Passed (Size 1-6)</p> <p>Passed (Size 1-6)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability of Self-closing	<p>5.2.2 Durability</p> <p>5.2.17.1 Corrosion resistance</p> <p>5.2.17.2 Corrosion resistance</p> <p>5.2.17.3 Corrosion resistance</p>	<p>Passed Class 8 (500 000 Cycles)</p> <p>Passed Class 4 (240h)</p> <p>Passed Class 4 (240h)</p> <p>Passed Class 4 (240h)</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

Essential property	Sections with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of the product
Self-closing	<p>TS 97 FL XEA</p> <p>5.2.1 General</p> <p>5.2.3 Closing torque</p> <p>5.2.4 Opening torque</p> <p>5.2.5 Efficiency</p> <p>5.2.6 Closing time</p> <p>5.2.7 Opening angle</p> <p>5.2.8 Overload behavior</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leaking</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable closing force</p> <p>5.2.16 Play at zero position</p> <p>5.2.18 Suitability for fire-/smoke-protection doors</p>	<p>passed</p> <p>passed (Size 3-6)</p> <p>passed (Size 3-6)</p> <p>passed (Size 3-6)</p> <p>passed (Size 3-6)</p> <p>passed (Size 3-6)</p> <p>passed (Class 3)</p> <p>passed (Size 3-6)</p> <p>passed (Size 3-6)</p> <p>passed (Size 3-6)</p> <p>passed (Size 3-6)</p> <p>passed (Size 3-6)</p> <p>passed (Size 3-6)</p> <p>not applicable</p> <p>not applicable</p> <p>passed (Size 3-6)</p> <p>not applicable</p> <p>Class 1: passed</p>
Durability of self-closing	<p>5.2.2 Durability</p> <p>5.2.17.1 Corrosion resistance</p> <p>5.2.17.2 Corrosion resistance</p> <p>5.2.17.3 Corrosion resistance</p>	<p>Passed Class 8 (500 000 Cycles) (Size 3-6)</p> <p>Passed Class 4 (240h)</p> <p>Passed Class 4 (240h)</p> <p>Passed Class 4 (240h)</p>
Dangerous substances	Anhang ZA.3	The manufacturer has not declared any dangerous substances.

Materialprüfungsamt Nordrhein-Westfalen

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Type :	„GSR-EMF 2/BG XEA“
Description :	In door closer integrated door coordinator with slide channel arm assembly with an integrated hold open device EMF in the active and inactive door slide channel arm assembly.
Arm system :	Slide channel arm assembly
Used door closers :	TS 92 G XEA EN 1-4 TS 98 XEA EN 1-6 TS 97 FL XEA
Installation :	Door-leaf fixing, push side according to manufacturer specifications
Size :	3 - 5
Classification :	3 8 5/3 1 1 4
Manufacturing plant :	DO 2.1

Type :	GSR-EMR 2/BG XEA
Description :	In door closer integrated door coordinator with slide channel arm assembly with an integrated integrated smoke detector.
Arm system :	Slide channel arm assembly
Used door closers :	TS 92 G XEA EN 1-4 TS 98 XEA EN 1-6 TS 97 FL XEA
Installation :	Door-leaf fixing, push side according to manufacturer specifications
Size :	3 - 5
Classification :	3 8 5/3 1 1 0
Manufacturing plant :	DO 2.1

Intended use:

On fire- and/or smoke protection doors

Essential property	Sections with requirements in EN 1158:1997/A1:2002/AC:2006	Performance of the product
Self-closing	5.1.2 Completeness of products 5.1.3 Correct closing sequence 5.2.1 General 5.2.2 Overload behavior in the closing direction 5.2.3 Manipulation 5.2.4 Resistance of the waiting position 5.2.6 Damage 5.2.8 Suitability for fire / smoke protection doors	Passed Passed (Size 3-5) Passed (Size 3-5) Passed (Size 3-5) Passed (Size 3-5) Passed Class 1:Passed
Durability of Self-closing	5.2.5 Durability 5.2.7 Corrosion resistance GSR EMF 2/BG XEA 5.2.7.1 5.2.7.2 5.2.7.3 GSR EMR 2/BG XEA 5.2.7.1 5.2.7.2 5.2.7.3	Class 8 (500000 cycles):Passed (Size 3-5) Class 4 (240h): Passed Class 4 (240h): Passed Class 4 (240h): Passed No requirements class 0 No requirements class 0 No requirements class 0
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

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Essential property	Sections with requirements in EN 1155:1997/A1:2002/AC:2006	Performance of the product
Ability to release	5.1.2 Release from every angle 5.1.3 Preventing the release 5.1.4 Voltage supply 5.1.5 Extern electrical connection 5.1.6 Inlet for external cable management 5.2.1 General 5.2.2 Electrical release 5.2.5 Hold open angle 5.2.6 Manual disengagement 5.2.7 Continuous hold open 5.2.8 Overload behavior 5.2.9 Shutter release delay 5.2.10 Electrical power 5.2.11 Temperature increase 5.2.12 Damage 5.2.13 Suitability for fire / smoke protection doors	Passed (Size 3-5) Passed (Size 3-5) 24 V/DC; Residual ripple 30 % Passed Passed Passed Passed (Size 3-5) Passed (Size 3-5) Passed (Size 3-5) Passed (Size 3-5) Passed (Size 3-5) No performance declared Passed Passed (Size 3-5) Passed (Size 3-5) Class 1:Passed
Durability of the ability to release	5.2.4 Durability 5.2.14 Corrosion resistance EMF 5.2.14.1 5.2.14.2 5.2.14.3 EMR 5.2.14.1 5.2.14.2 5.2.14.3	Class 8 (500000 cycles) Passed (Size 3-5) Class 4 (240h): Passed Class 4 (240h): Passed Class 4 (240h): Passed No requirements class 0 No requirements class 0 No requirements class 0
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

Essential property	Sections with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of the product
Self-closing	TS 92 G XEA EN 1-4 5.2.1 General 5.2.3 Closing torque 5.2.4 Opening torque 5.2.5 Efficiency 5.2.6 Closing time 5.2.7 Opening angle 5.2.8 Overload behavior 5.2.9 Temperature dependence 5.2.10 Leaking 5.2.11 Damage 5.2.12 Latch 5.2.13 Back check 5.2.14 Closing time delay 5.2.15 Adjustable closing force 5.2.16 Play in zero position 5.2.18 Suitability for fire-/ smoke protection doors	Passed Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Passed (Class 3) Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Passed (Size 1-4) Not applicable Not applicable Not applicable Passed (Size 1-4) Not applicable Class 1: Passed
Durability of Self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Passed Class 8 (500 000 Cycles) Passed Class 4 (240h) Passed Class 4 (240h) Passed Class 4 (240h)
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

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Essential property	Sections with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of the product
Self-closing	TS 98 XEA EN 1-6 5.2.1 General 5.2.3 Closing torque 5.2.4 Opening torque 5.2.5 Efficiency 5.2.6 Closing time 5.2.7 Opening angle 5.2.8 Overload behavior 5.2.9 Temperature dependence 5.2.10 Leaking 5.2.11 Damage 5.2.12 Latch 5.2.13 Back check 5.2.14 Closing time delay 5.2.15 Adjustable closing force 5.2.16 Play in zero position 5.2.18 Suitability for fire-/ smoke protection doors	Passed Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Passed (Class 3) Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Passed (Size 1-6) Not applicable Class 1: Passed
Durability of Self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Passed Class 8 (500 000 Cycles) Passed Class 4 (240h) Passed Class 4 (240h) Passed Class 4 (240h)
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

Essential property	Sections with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of the product
Self-closing	TS 97 FL XEA 5.2.1 General 5.2.3 Closing torque 5.2.4 Opening torque 5.2.5 Efficiency 5.2.6 Closing time 5.2.7 Opening angle 5.2.8 Overload behavior 5.2.9 Temperature dependence 5.2.10 Leaking 5.2.11 Damage 5.2.12 Latch 5.2.13 Back check 5.2.14 Delayed action 5.2.15 Adjustable closing force 5.2.16 Play at zero position 5.2.18 Suitability for fire-/smoke-protection doors	passed passed (Size 3-6) passed (Size 3-6) passed (Size 3-6) passed (Size 3-6) passed (Class 3) passed (Size 3-6) passed (Size 3-6) passed (Size 3-6) passed (Size 3-6) passed (Size 3-6) passed (Size 3-6) passed (Size 3-6) not applicable not applicable passed (Size 3-6) not applicable Class 1: passed
Durability of self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Passed Class 8 (500 000 Cycles) (Size 3-6) Passed Class 4 (240h) Passed Class 4 (240h) Passed Class 4 (240h)
Dangerous substances	Anhang ZA.3	The manufacturer has not declared any dangerous substances.