## **Beverage industry**

Process reliability with maximum convenience





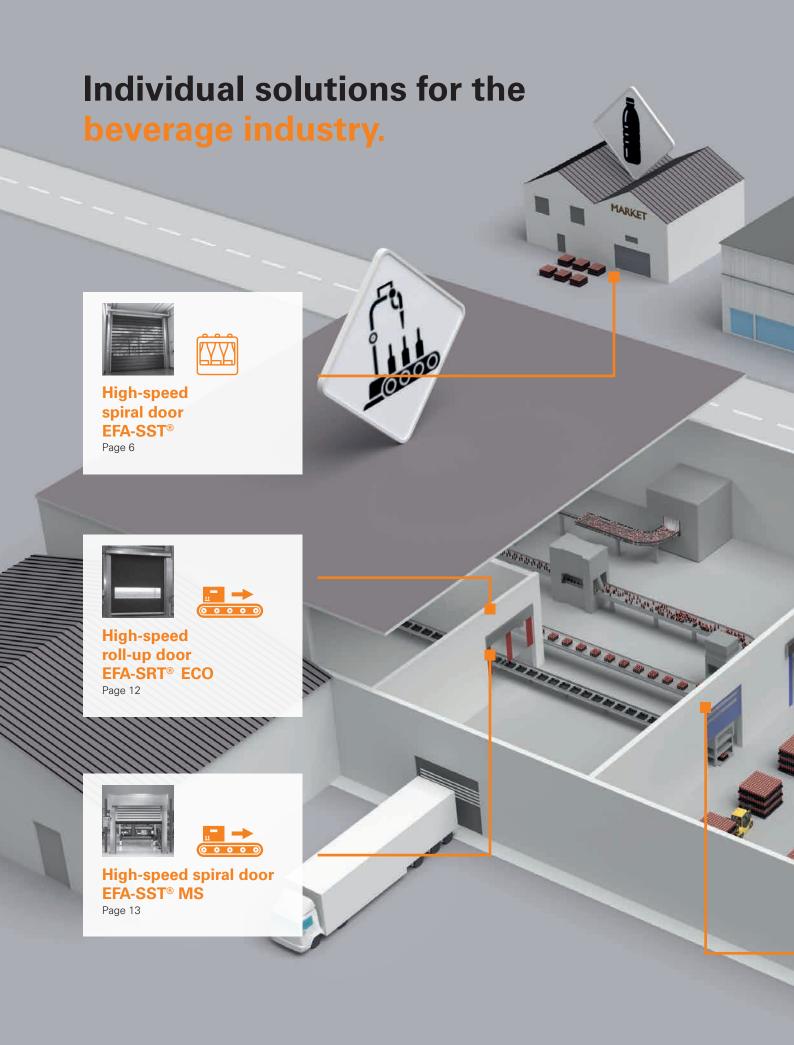


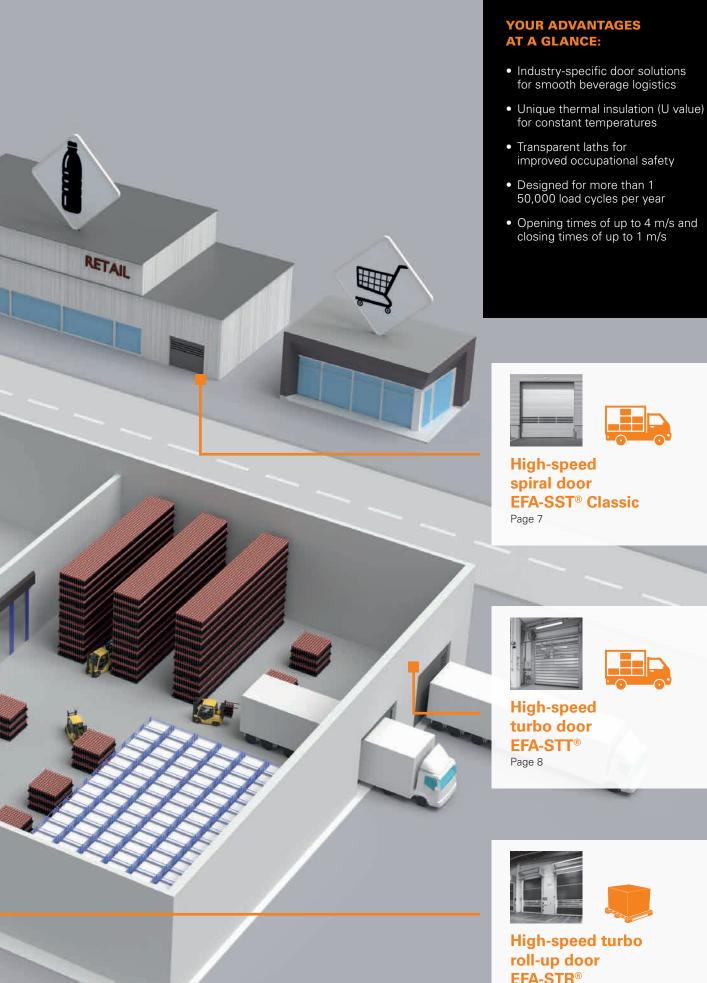
### **Beverage industry**

High handling capacities, precise processes and short time-to-market are essential in the beverage industry. High-speed doors from EFAFLEX for the beverage industry impress with their combination of minimal running noise, excellent insulation and high opening and closing speeds. This improves and fast-tracks work processes. In addition smart forefield-control will significantly improve safety.

Short keep-open times ensure the constant temperatures in production and storage rooms, which are of the utmost importance in the beverage industry. In addition, special machine safety doors protect plant and people and are perfect for integration almost anywhere thanks to their space-saving, compact design.







**High-speed** turbo door EFA-STT<sup>®</sup>



**High-speed turbo** roll-up door **EFA-STR®** Page 9



#### EFA-SST® AT A GLANCE:

- Max. heat insulation with EFA-THERM<sup>®</sup> laths
- Opening speed up to 2.5 m/s
- Closing speed up to 1.0 m/s
- Highest wind load capacity
- Top safety devices
- Up to 250,000 operating cycles p.a.
- Standard sizes of up to w=10,000 mm, h=12,000 mm

## Spiral door technology in perfection. EFA-SST®

The EFA-SST<sup>®</sup> high-speed spiral door represents a modern generation of industrial doors: perfect insulation, energy-efficient functionality, state-of-the-art technology. During the technical redesign, particular attention was paid to improving the physical properties of the door leaf as well as optimising the functionality, thus once again raising the standard of EFAFLEX industrial doors.

## Everything revolves around. EFA-SST<sup>®</sup> Classic

Copied a thousand times, yet still unequalled. The tried and tested fundamental principle of EFAFLEX high-speed spiral doors remains unbeatable! The door blade is not rolled up on a shaft, but is guided into the EFAFLEX spiral instead, saving space and operating virtually wear free.

#### EFA-SST® CLASSIC AT A GLANCE:

- Aluminium laths double-walled
- Opening speed up to 2.0 m/s
- Closing speed up to 1.0 m/s
- Highest wind load capacity
- Top safety devices
- Up to 250,000 operating cycles p.a.
- Standard sizes of up to w=8,000 mm, h=7,000 mm





#### EFA-STT<sup>®</sup> AT A GLANCE:

- The door leaf consists at 70% of crystal clear acrylic glass
- Opening speed up to 3.0 m/s
- Closing speed up to 1.0 m/s
- Highest wind load capacity
- Top safety devices
- Up to 200,000 operating cycles p.a.
- Also available in low-header design
- Standard sizes of up to w=8,000 mm, h=7,800 mm

### The transparent turbo door. EFA-STT®

Thanks to laths made of crystal-clear acrylic glass, the door leaf of the EFA-STT® is over 70 percent transparent – this makes it a unique high-speed door worldwide: robust and yet almost completely see-through. The ability to see through the door offers advantages where two-way traffic occurs: Accidents are prevented and smooth transport operations are guaranteed.

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## The fastest vertically opening door. EFA-STR®

The high-speed turbo roll-up door EFA-STR® opens at an incredible speed of up to 4 m/s thanks to its spiral technology, making it our fastest vertically opening door. With the EFA-STR®, your logistic processes become faster and more efficient. The combination of a spiral door leaf support and flexible curtain ensures an optimal traffic flow.

#### EFA-STR® AT A GLANCE:

- Opening speed up to 4.0 m/s
- Closing speed up to 1.0 m/s
- Highest wind load capacity
- Top safety devices
- Up to 250,000 operating cycles p.a.
- Standard sizes up to w=7,000 mm, h=6,000 mm



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For more information about our solutions for the beverage industry visit: www.efaflex.com/beverage-industry

**NAME** 

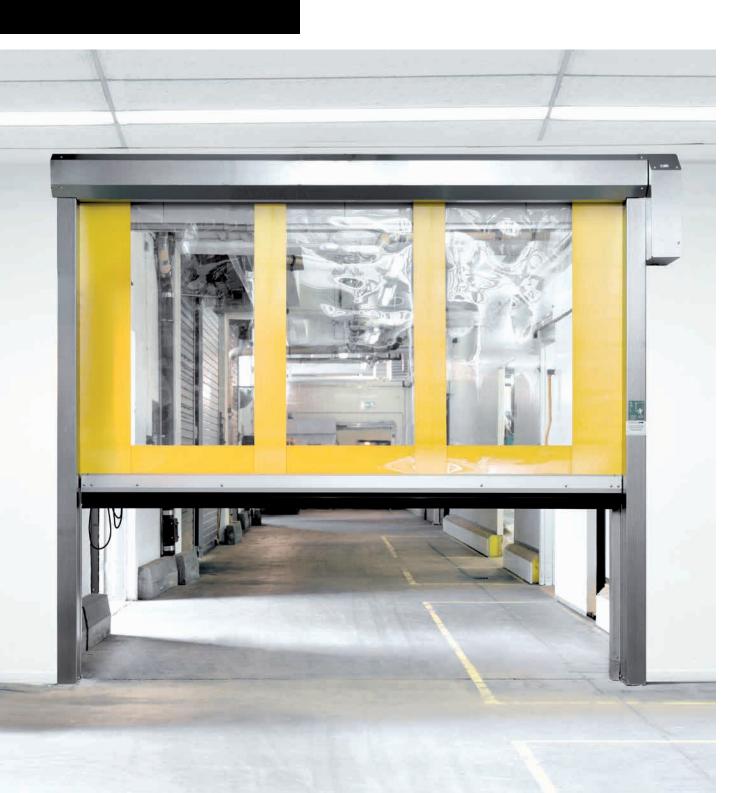


#### EFA-SRT® ECO AT A GLANCE:

- Ideal for material-handling technology
- Space-saving design
- Excellent price-performance ratio
- With optional crash protection
- Opening speed up to 2.0 m/s
- Closing speed up to 1.0 m/s
- Up to 150,000 operating cycles p.a.
- Standard sizes up to w=6,000 mm, h=7,000 mm

# The economical interior door. EFA-SRT® ECO

The EFA-SRT<sup>®</sup> ECO roll-up door is an extremely economical door system. Special structural preparations are not necessary due to the space-saving design, for example, its very slim side door frames. Thus, the EFA-SRT<sup>®</sup> ECO can be applied in more situations than any other roll-up door.





### Machine protection door for the industry. EFA-SST<sup>®</sup> MS

The EFA-SST<sup>®</sup> MS high-speed spiral door has been specially developed for industrial applications, as stand-alone separating safety guard that fulfils all requirements for a safe and modern machine protection door. We are the only manufacturer of industrial doors to also implement our spiral technology and the flexible hinge chain for optimum performance in our machine protection doors.

#### EFA-SST® MS AT A GLANCE:

- Functional safety performance level »d«
- Opening speed up to 2.7 m/s
- Compact extruded aluminium laths
- Up to 250,000 cycles p.a.
- Maximum of 7 cycles per minute
- Life cycle of 12 years
- Standard sizes of up to w=3,000 mm, h=3,000 mm

### **Technical details High-speed spiral doors**

		Premium				
	Size	L	S	ÜS	XL	XXL
Application	Interior door	•	•	•	•	•
	Lock-up doors	•	•	•	•	•
Wind load max.*	According to DIN EN 12424 class	2 – 4	2 - 4	2 - 4	0 - 2	2 – 4
Operating forces / safe closing	According to DIN EN 13241 class	fulfilled	fulfilled	fulfilled	erfüllt	fulfilled
Resistence against water ingress*	According to DIN EN 13241 class	3	3	3	3	1
Air permeability*	According to DIN EN 13241 class	3	3	3	3	3
Direct airborne sound insulation R <sub>w</sub> *	in dB according to DIN EN 717-1	24	25	26	26	26
U value maximum*	in W/m²K according to DIN EN 13241	1.52	0.91	0.66	0.66	0.54
Door size (in mm)	Width W max.	4,500	6,000	8,000	10,000	10,000
	Height H max.	5,000	6,000	8,000	6,600	12,000
Maximum door leaf speed*	in m/s	2.5	1.5	1.2	1.0	0.5
Average speed, approx.*	Opening in m/s	2	1.2	1	0.8	0.5
	Closing in m/s	-	0.6	_	_	_
	Closing by door light grid EFA-TLG® in m/s	1	1	0.8	0.4	0.3
Guide of door leaf	Round Spiral	•	•	•	•	•
	Oval Spiral	•	•	_	_	_
	Low-header	_	_	_	_	_
Steel design	Galvanized sheet steel frame	•	•	•	•	•
	Stainless steel	0	0	_	_	_
	Powder coated in RAL colours	0	0	0	0	0
Door leaf	EFA-THERM <sup>®</sup> laths insulated/painted	•	•	•	•	•
	EFA-CLEAR <sup>®</sup> Vision laths double-walled, thermally			-		_
	separated	0	0	0	0	0
	EFA-CLEAR <sup>®</sup> Vision laths single-walled	0	0	-	-	-
	EFA-VENT® Ventilation laths	0	0	-	-	-
	EFA-ALUX® Aluminium laths	-	-	-	-	-
	Colour according to RAL (without vison panel)	0	0	0	0	0
Fire class	Building Material class DIN 4102	B2	B2	B2	B2	B2
Weight balancing by		Spring	Spring	Spring	Spring	Spring
Designed for approx operating cycle	es per year	250,000	250,000	250,000	150,000	100,000
Drive	Electric motor	•	•	•	•	•
Control	EFA-TRONIC®	•	•	-	-	0
	EFA-TRONIC <sup>®</sup> Light	-	-	-	-	-
	EFA-TRONIC <sup>®</sup> Professional	0	0	•	•	•
	Main switch and foil keypad	•	•	•	•	•
Lead	Electricity connection 230 V/50 Hz	•	•	•	•	-
	Electricity connection 400 V/50 Hz	0	0	0	0	•
	Circuit breaker	16 A (K)	16 A (K)	16 A (K)	16 A (K)	16 A (K)
Manual locking		•	•	•	•	•
Emergency operation	Automatic after manual activation	•	•	•	•	•
Safety Devices	EFA-TLG <sup>®</sup> door light grid in door closing line	•	•	•	•	•
	Contact edge	0	0	-	-	_
	Light barrier	0	0	-	-	_
	Approach area monitoring	0	0	0	0	0
	Light grid, external	0	0	0	0	0
Safety system including activator	EFA-SCAN <sup>®</sup> frame/bollard	0/0	0/0	0/0	0/0	0/0
	EFA-3D-SCAN	0	0	0	0	0

• Standard, o upon request, – Not available, npd = No Performance Determined \*Depending on door leaf, guide of door leaf and door size, we reserve the right to make technical alterations!

#### **S** Series

		EFA-SST®						
ECO Bas		Basic	Essential			Classic		
L	S	L	L	L	S	ÜS	L-N	S-N
•	•	•	•	•	•	•	•	•
•	٠	•	•	•	•	•	•	•
2 – 4	2 – 4	2 – 4	2 – 4	2 - 4	4	2 - 4	2 - 4	4
fulfilled								
3	3	3	2	0	0	0	npd	npd
3	3	3	0	2	2	2	npd	npd
24	25	24	20	23	25	25	23	25
1.52	0.91	1.52	1.67	5.8	5.6	5.6	5.8	5.7
4,500	6,000	4,500	4,500	4,000	6,000	8,000	4,000	6,000
5,000	6,000	5,000	5,000	5,000	7,000	7,000	4,000	5,000
1.0	0.9	0.5	0.5	2.0	2.0	1.5	1.5	1.5
1	0.9	0.5	0.5	1.5	1.2	1	1.5	1.2
0.6	0.6	0.5	0.5	0.75	0.6	0.6	0.75	0.6
0.6	0.6	-	-	1	1	1	1	1
•	•	•	•	•	•	•	-	-
•	•	•	-	•	•	•	-	-
•	•	-	_	_	-	-	•	•
•	•	•	•	•	•	•	•	•
0	0	0	-	0	0	0	0	0
0	0	0	0	0	0	0	0	0
•	•	•	•	-	-	-	-	-
0	0	0	0	-	-	-	-	-
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
-	-	-	_	•	•	•	0	0
0	0	0	0	0	0	0	0	0
B2								
Spring								
200,000	200,000	100,000	100,000	250,000	250,000	250,000	150,000	150,000
•	•	•	•	•	•	•	•	•
•	٠	0	0	•	•	-	•	•
-	-	•	•	-	-	-	-	-
0	0	0	0	0	0	•	0	0
•	٠	•	0	•	•	•	•	•
•	٠	•	•	•	•	•	•	•
0	0	-	-	0	0	0	0	0
16 A (K)								
0	0	0	0	0	0	0	0	0
•	•	•	•	•	•	•	•	•
0	*	-	-	0	*	*	0	*
•	*	•	•	•	*	*	•	*
•	*	•	•	•	*	*	•	*
0	0	0	0	0	0	0	0	0
0	0	0	_	0	0	0	0	0
0/0	0/0	-	-	-/0	-/0	-/0	0	0
0	0	0	0	0	0	0	0	0

### **Technical details High-speed spiral doors**

#### EFA-STT® Size S ÜS L-N L Application Interior door . . . . Lock-up doors . . • . Wind load max.\* According to DIN EN 12424 class 2 - 42 - 43 - 43 - 4Operating forces / safe closing According to DIN EN 13241 class fulfilled fulfilled fulfilled fulfilled According to DIN EN 13241 class 0 0 Resistence against water ingress\* 0 0 According to DIN EN 13241 class 2 2 0 Air permeability\* 2 Direct airborne sound insulation R<sub>w</sub>\* in dB according to DIN EN 717-1 20 20 20 20 U value maximum\* in W/m<sup>2</sup>K according to DIN EN 13241 6.5 6.37 6.28 6.5 Door size (in mm) Width W max. 4,000 6,000 8,000 4,000 Height H max. 5,000 6,000 7,800 5.000 Maximum door leaf speed\* in m/s 3.0 2.8 2.0 1.8 Average speed, approx.\* Opening in m/s 2.5 2.2 1.8 1.5 Closing in m/s 0.75 0.6 0.6 0.75 Closing by door light grid EFA-TLG® in m/s 1.0 0.6 0.6 1.0 Guide of door leaf Round Spiral • • • Low-header • Steel design Galvanized sheet steel frame • • • • Stainless steel 0 0 0 Powder coated in RAL colours 0 0 0 0 Door leaf EFA-CLEAR® Vision laths single-walled . • . • EFA-VENT® Ventilation laths 0 0 0 0 EFA-ALUX® Aluminium laths \_ 0 Vision panel single-walled / double-walled •/-•/-•/-•/-Non transparent infill single-walled / doublewalled 0/-0/-0/-0/-Colour according to RAL (without vison panel) 0 0 0 0 Fire class Building Material class DIN 4102 B2 B2 R2 R2 Weight balancing by Spring Spring Spring Spring Designed for approx ... operating cycles per year 200,000 200,000 200.000 120,000 Drive Electric motor • • • • Control FFA-TRONIC® • • • EFA-TRONIC<sup>®</sup> Professional 0 0 0 Main switch and foil keypad • • • Lead Electricity connection 230 V/50 Hz • • • • Circuit breaker 16 A (K) 16 A(K) 16 A (K) 16 A (K) Manual locking 0 0 0 0 Emergency operation Automatic after manual activation • • • • Safety Devices EFA-TLG® door light grid in door closing line × × 0 0 × × Contact edge • × × Light barrier Approach area monitoring 0 0 0 0 Light grid, external 0 0 0 0 Safety system including activator EFA-SCAN® frame/bollard 0/0 0/0 0/0 0/0 EFA-3D-SCAN 0 0 0 0

**S** Series

Standard, o upon request, – Not available,
 \*Depending on door leaf, guide of door leaf and door size, we reserve the right to make technical alterations!

### **S** Series

#### EFA-STR®

	Size	L	S	S-N	L-N
Application	Interior door	•	•	•	•
	Lock-up doors	0	0	0	0
Wind load max.*	According to DIN EN 12424 class	2 – 3	2 – 3	2 – 3	2 – 3
Operating forces / safe closing	According to DIN EN 13241 class	fulfilled	fulfilled	fulfilled	fulfilled
Resistence against water ingress*	According to DIN EN 13241 class	0	0	npd	npd
Air permeability*	According to DIN EN 13241 class	1	1	npd	npd
Direct airborne sound insulation ${\rm R_w}^{\ast}$	in dB according to DIN EN 717-1	12	12	12	12
U value maximum*	in W/m²K according to DIN EN 13241	6.1	5.95	6.0	6.1
Door size (in mm)	Width W max.	4,000	7,000	7,000	4,000
	Height H max.	5,000	6,000	5,000	5,000
Maximum door leaf speed*	in m/s	4.0	3.2	3.2	3.2
Average speed, approx.*	Opening in m/s	3.6	2.8	2.8	2.8
	Closing in m/s	0.75	0.75	0.75	0.75
	Closing by door light grid EFA-TLG <sup>®</sup> in m/s	1.0	1.0	1.0	1.0
Guide of door leaf	Round Spiral	•	•	-	-
	Low-header	-	_	•	•
Steel design	Galvanized sheet steel frame	•	•	•	•
	Stainless steel	0	0	0	0
	Powder coated in RAL colours	0	0	0	0
Door leaf	flexible fabric in different colours with/ without vison panel	0/●	0/•	0/•	0/●
Fire class	Building Material class DIN 4102	B2	B2	B2	B2
Weight balancing by		Spring	Spring	Spring	Spring
Designed for approx operating cycles	; per year	200,000	200,000	120,000	120,000
Drive	Electric motor	•	•	•	•
Control	EFA-TRONIC <sup>®</sup>	•	•	•	•
	EFA-TRONIC <sup>®</sup> Light	-	-	-	-
	EFA-TRONIC <sup>®</sup> Professional	0	0	0	0
	Main switch and foil keypad	•	•	•	•
Lead	Electricity connection 230 V/50 Hz	•	•	•	•
	Electricity connection 400 V/50 Hz	0	0	0	0
	Circuit breaker	16 A (K)	16 A (K)	16 A (K)	16 A (K)
Emergency operation	Automatic after manual activation	•	•	•	•
Safety Devices	EFA-TLG® door light grid in door closing line	0	o (*)	o (*)	0
	Contact edge	•	•	•	•
	Light barrier	•	•	•	•
	Approach area monitoring	0	0	0	0
	Light grid, external	0	0	0	0
Safety system including activator	EFA-SCAN <sup>®</sup> frame/bollard	0/0	0/0	0/0	0/0
	EFA-3D-SCAN	0	0	0	0

• Standard, o upon request, – Not available, , npd = No Performance Determined, o (\*) Standard for W > 5,000 mm, \* Depending on door leaf, guide of door leaf and door size, we reserve the right to make technical alterations!

### Technical details High-speed roll-up doors

#### **R Series**

		EFA-SRT®		
		Premium ECO		0
	Size	L	L	S
Application	Interior door	٠	•	•
Wind load max.*	According to DIN EN 12424 class	0 – 3	_	0 – 2
	resp. in km/h	-	18	18
Operating forces / safe closing	According to DIN EN 13241 class	fulfilled	fulfilled	fulfilled
Resistence against water ingress*	According to DIN EN 13241 class	npd	npd	0
Air permeability*	According to DIN EN 13241 class	npd	npd	1
Direct airborne sound insulation ${\rm R_w}^{\ast}$	in dB according to DIN EN 717-1	12	11	11
Door size (in mm)	Width W max.	5,000	4,000	6,000
	Height H max.	5,500	4,000	7,000
Maximum door leaf speed*	in m/s	2.6	2.0	2.0
Average speed, approx.*	Opening in m/s	2.0	1.5	1.5
	Closing in m/s	0.75	0.75	0.6
	Closing by door light grid EFA-TLG <sup>®</sup> in m/s	1.0	1.0	1.0
Steel design	Galvanized sheet steel frame	•	•	•
	Stainless steel	0	0	0
	Powder coated in RAL colours	0	0	0
Door leaf	Door curtain made of flexible PVC, transparent with warning stripes in different colours	٠	•	-
	flexible fabric in different colours with / without vison pane	0/0	0/0	0/●
Fire class	Building Material class DIN 4102	B2	B2	B2
Weight balancing by		Spring	Weight	Weight
Designed for approx operating cyc	les per year	150,000	150,000	150,000
Collision protection	EFA-EAS®	0	0	-
Drive	Electric motor	•	•	•
Control	EFA-TRONIC®	•	•	•
	EFA-TRONIC <sup>®</sup> Light	-	0	-
	EFA-TRONIC <sup>®</sup> Professional	0	0	0
	Main switch and foil keypad	٠	•	•
Lead	Electricity connection 230 V/50 Hz	٠	•	•
	Electricity connection 400 V/50 Hz	0	0	0
	Circuit breaker	16 A (K)	16 A (K)	16 A (K)
Emergency operation	Automatic after manual activation	٠	•	•
	Manual activation	-	-	-
Safety Devices	EFA-TLG <sup>®</sup> door light grid in door closing line	0	0	0
	Contact edge	•	•	•
	Light barrier	•	•	•
	Approach area monitoring	0	0	0
	Light grid, external	0	0	0
Safety system including activator	EFA-SCAN <sup>®</sup> frame/bollard	-/o	-/o	-/o
	EFA-3D-SCAN	0	0	0

• Standard, • upon request, - Not available, npd = No Performance Determined, \* Depending on door leaf, guide of door leaf and door size, we reserve the right to make technical alterations!

## **Technical details High-speed doors machine protection**

Door size (in mm)         Width W max.         3,000           Height H max.         3,000           Maximum door leaf speed*         in m/s         2.7           Guide of door leaf         Round Spiral         •           Average speed, approx.*         Opening in m/s         2.2           Closing by door light grid EFA-TLG® in m/s         -           Design         Galvanized sheet steel frame         •           Powder coated in RAL colours         o         o           Door frames aluminium anodised         -         -           Door leaf         EFA-VENT* Ventilation laths         o           Colour cacording to RAL (without vison panel)         o         -           Door curtain made of flexible PVC, transparent with warning stripes in different colours iffexible fabric in different colours with / without vison panel)         -           Fire class         Building Material class DIN 4102         B2           Building Material class DIN 4102         Spring         -           Designed for approx operating cycles per year         280,000         -           Drive         Electric motor         •         -           Colour EFA-TRONIC® resistenal MS         o         -           Electricity connection         o         -         -			EFA-SST® MS
Wind load max.*     According to DIN EN 13241 class     4       Operating forces/stafe olosing     According to DIN EN 13241 class     fulfilled       Air permeability*     in dB according to DIN EN 13241 class     fulfilled       Diract aliborne sound insulation R <sub>y</sub> *     in dB according to DIN EN 13241 class     fulfilled       Diract aliborne sound insulation R <sub>y</sub> *     in dB acch DIN EN 177-1     23       Door size (in mm)     Width Vmax.     3,000       Maximum door leaf speed*     in m/s     2,7       Glide of door leaf     Round Spiral     •       Average speed, approx.*     Opening in m/s     2,2       Closing by dor light grid EFA-TLG* in m/s     -       Deor leaf     Galvanized sheet steel frame     •       Powder coated in RAL colours     o     o       Door leaf     EFA-VENT* Ventilation laths     o       Colour according to RAL (without vison panel)     o     o       Door leaf     EFA-VENT* Ventilation laths     o       Colour according to RAL (without vison panel)     o     o       Door curain made of floxible PVC, transparent with writh warring to set steel frame     -       Fire class     Building Material class SIN 4102     B2       Building Material class SIN 4102     B2     B2       Building Material class SIN 4102     Set DIN EN 150 340 <th></th> <th></th> <th></th>			
Operating forces/ sele closing     According to DIN EN 12241 class     fulfilled       Air permeability*     in dB according to DIN EN 12241 class     fulfilled       Air permeability*     in dB according to DIN EN 12241 class     fulfilled       Direct airborne sound insulation Ru*     in dB nach DIN EN 1271-1     23       Door size (in mm)     Width W max.     3,000       Maximum door leaf speed*     in m/s     2,7       Guide of door leaf     Round Spiral     •       Average speed, approx.*     Opening in m/s     0,6       Closing by door light grid EFA-TLG* in m/s     -       Dear fames aluminium anodised     -       Door fames aluminium anodised     -       EFA-VETR* Vision laths single-walled     o       EFA-VETW entition Laths     0       Door leaf     EFA-LEAR* Vision laths single-walled       Colour according to PAL (without visor shape)     o       Door curain made of flexible PVC, transparent with warning stripes in different colours with / without visor panel     o       EFA-EER* EFA-LEAR* Vision laths     -       Evertifyere visor panel		*	
Air permeability*     in dB according to DIN EN 777-1     0       Direct airborne sound insulation R <sub>w</sub> *     in dB according to DIN EN 777-1     23       Door size (in mm)     Width W max.     3,000       Maximum door leaf speed*     in m/s     2,7       Guide of door leaf     Round Spiral     •       Average speed, approx.*     Opening in m/s     2,2       Closing by door light grid EFA-TLG* in m/s     -       Design     Galvanized sheet steel frame     •       Powder coated in FAL colours     o       Door leaf     EFA-CLEAR* Vision laths single-walled     o       Door leaf     EFA-ALUX* Aluminium anodised     -       Door leaf     EFA-ALUX* Aluminium laths single-walled     o       Colour according to FAL (without vison panel)     o     o       Door curtain made of flexible PVC, transparent with warming stripes in different colours     -       Fire class     Building Material class DIN 4102     B2       Building Material class DIN 4102     B2       Building Material class     -       Drive     Efectric motor     -       Control     EFA-TRONIC* Professional MS     •       EFA-TRONIC* Professional MS     •     •       Electricity connection 400 V/50 Hz     •     •       Control     EFA-TRONIC* Professional		· · · · · · · · · · · · · · · · · · ·	
DI KN 717-1         U           Direct airborne sound insulation R <sub>u</sub> **         in dB nach DIN EN 717-1         23           Door size (in mm)         Width W max.         3.000           Height H max.         3.000           Maximum door leaf speed*         in m's         2.7           Guide of door leaf         Round Spiral         -           Average speed, approx.*         Opening in m/s         2.2           Closing by door light gif EFA-TLG* in m/s         0.6           Design         Galvanized sheet steel frame         -           Powder coated in RAL colours         0         -           Door frames aluminium anodised         -         -           Door frames aluminium anodised         -         -           Door leaf         EFA-CLEN* Vision laths single-walled         0           EFA-VENT* Ventilation laths         0         -           Closur according to RAL (without vision panel)         0         -           Closur according to RAL (without vision panel)         0         -           Fire class         Building Material class DIN 4102         BLZ           Building Material class DIN 4102         BLZ         -           Building Material class DIN 4102         0         - <td< td=""><td></td><td></td><td>fulfilled</td></td<>			fulfilled
Door size (in mm) Neight H max. 3,000 Height H max. 3,000 Maximum door leaf speed* in m/s 2.7 Glosing of door leaf Average speed, approx.* Opening in m/s 2.2 Closing in m/s 0.6 Closing by door light grid EFA-TLG® in m/s - Design Galvanized sheet steel frame Powder coated in RAL colours 0 Door frames aluminium anodised - Door leaf EFA-CLEAR® Vision laths single-walled EFA-VEN® Ventilation laths 0 EFA-VEN® Ventilation laths 0 EFA-NEN® Ventilation laths 0 EFA-PONIC® Professional MS 0 EFA-PONIC® 0 EFA-PONIC® Professional MS 0 EFA-PONIC® 0 EFA-PONIC® Professional MS 0 EFA-PONIC® 0 EFA-PONIC® Professional MS 0 EFA-PONIC® 0 EFA-PONIC® Professional MS 0 EFA-PONIC® 0 EFA-P	Air permeability*		0
Height H max.         3,000           Maximum door leaf speed*         in m/s         2.7           Guide of door leaf         Round Spiral         •           Average speed, approx.*         Opening in m/s         2.2           Closing in m/s         0.6         0.6           Closing by door light grid EFA-TLG® in m/s         -           Design         Galvanized sheet steel frame         •           Powder coated in RAL colours         0         0           Door leaf         EFA-CLEAR® Vision laths single-walled         •           Door leaf         EFA-ALUX® Aluminium laths         •           Colour according to RAL (without vison panel)         •         •           Door curtain made of flexible PVC, transparent with waring stripes in different colours with / without vison panel         •           Fire class         Building Material class DIN 4102         B2           Building Material class DIN 4102         B2         B2           Building Material class         -         -           Control         EFA-TRONIC® Professional MS         •           EFA-TRONIC®         •         •           Control         EFA-TRONIC® Professional MS         •           Efectricity connection 200 V/50 Hz         •         •	Direct airborne sound insulation ${\sf R}_{\!\scriptscriptstyle W}^{}{}^*$	in dB nach DIN EN 717-1	23
Maximum door leaf speed* in m/s 2.7 Guide of door leaf Round Spiral 2.2 Guide of door leaf Round Spiral 2.2 Closing by door light grid EFA-TLG® in m/s 2.2 Closing by door light grid EFA-TLG® in m/s - Design Galvanized sheet steel frame • Powder costed in RAL colours 0 Door frames aluminium anodised - Door leaf EFA-CLEAR® Vision laths single-walled 0 EFA-ALLX® Aluminium laths 0 EFA-ALLX® Aluminium laths 0 Colour according to RAL (without vision panel) 0 Door curtain made of flexible PVC, transparent with warning stripes in different colours with / without vision panel 0 Fire class Building Material class DIN 4102 B2 Building Material class DIN 4102 B2 Building Material class DIN 4102 B2 Building Material class OIN 4102 Spring Designed for approx operating cycles per year 250,000 Drive EFA-TRONIC® referesional MS 0 EFA-TRONIC® Professional MS 0 EFA-TRONIC® 1 EFA-TRONIC® 0 EFA-TRONIC® 1 Control EFA-TRONIC® 0 EFA-TRONIC® 0 EFA-TRONIC® 1 Control CEFA-TRONIC® 0 EFA-TRONIC® 1 EFA-TRONIC® 2 EFA-TRONIC® 2 EFA-TRONIC® 1 EFA-TRONIC® 1 EFA-TRONIC® 1 EFA-TRONIC® 2 EFA-TRONIC® 2 EFA-TRONIC	Door size (in mm)	Width W max.	3,000
Guide of door leaf         Round Spiral         •           Average speed, approx.*         Opening in m/s         2.2           Closing by door light grid EFA-TLG® in m/s         0.6           Closing by door light grid EFA-TLG® in m/s         -           Design         Galvanized sheet steel frame         •           Powder coated in RAL colours         0         0           Door frames aluminium anodised         -         -           Door leaf         EFA-CLEAR® Vision laths single-walled         0           EFA-ALUX® Aluminium laths         0         0           Door ourtain made of flexible PVC, transparent with warming stripse in different colours with / without vision panel)         0           Door leaf         EFA-ALUX® Aluminium laths         -           Closur according to RAL (without vison panel)         0         -           Door curtain made of flexible PVC, transparent with warming stripse in different colours with / without vison panel         -           Fire class         Building Material class DIN 4102         B2           Building Material class SE DIN EN ISO 340         -         -           Drive         Electric motor         -         -           Control         EFA-TRONIC® Professional MS         -         -           Elead         230 V		Height H max.	3,000
Average speed, approx.*         Opening in m/s         2.2           Closing in m/s         0.6           Closing by door light grid EFA-TLG® in m/s         -           Design         Galvanized sheet steel frame         •           Powder coated in RAL colours         0         0           Door leaf         EFA-CLEAR® Vision laths single-walled         •           Door leaf         EFA-ALUX® Aduminium laths         •           Colour according to RAL (without vison panel)         •         •           Door outrain made of flexible PVC, transparent         -         -           widing Material class         SEI         -         -           Fire class         Building Material class DIN 4102         B2         B2           Building Material class         -         -         -           Drive         EfeA-TRONIC®         •         -           Drive         Efectric motor         •         •           Control         EFA-TRONIC®         •         •           Efeart Control         EfeA-TRONIC®         •         •           Control         EFA-TRONIC®         •         •           Efeartion vorter         •         •         •           Efeartic connect	Maximum door leaf speed*	in m/s	2.7
Closing in m/s0.6Closing by door light grid EFA-TLG® in m/s-DesignGalvanized sheet steel frame•Powder coated in RAL coloursoDoor frames aluminium anodised-Door leafEFA-CLEAR® Vision laths single-walledoEFA-VENT® Ventilation lathsoEFA-ALLX® Aluminium laths•Colour according to RAL (without vison panel)oDoor curain made of flexible PVC, transparent-Weight balancing byDo alufigrent colours with / without vison panel-Fire classBuilding Material class-Building Material class-SpringDesigned for approx operating cycles per year250,000DriveEFA-TRONIC® Professional MS•ControlEFA-TRONIC® rofessional MS•EFA-TRONIC® frameseo-Electricity connection 200 V/50 Hz0-Electricity connection 200 V/50 HzElectricity connection 200 V/50 HzErergency operationAutomatic after manual activationoManual activationSafety DevicesEFA-TLG® door light grid in door closing line Contact edge Light barrier-	Guide of door leaf	Round Spiral	•
Closing by dor light grid EFA-TLG® in m/s     -       Design     Galvanized sheet steel frame     •       Powder coated in RAL colours     o       Door frames aluminium anodised     -       Door leaf     EFA-CLEAR® Vision laths single-walled     o       EFA-CLEAR® Vision laths single-walled     o       EFA-ALUX® Aluminium laths     o       Colour according to RAL (without vison panel)     o       Door ourtain made of flexible PVC, transparent     -       With warning stripse in different colours     -       flexible fabric in different colours with / without vison panel)     o       Door ourtain made of flexible PVC, transparent     -       Weight balancing by     -     -       Fire class     Building Material class DIN 4102     B2       Building Material class S E DIN EN ISO 340     -     -       Veight balancing by     -     Spring       Designed for approx operating cycles per year     0     -       Cotrol     EFA-TRONIC® Professional MS     •       EFA-TRONIC® Professional MS     -     -       EFA-TRONIC® Professional MS     -     - <t< td=""><td>Average speed, approx.*</td><td>Opening in m/s</td><td>2.2</td></t<>	Average speed, approx.*	Opening in m/s	2.2
Design       Galvanized sheet steel frame       •         Powder coated in RAL colours       o         Door frames aluminium anodised       -         Door leaf       EFA-CLEAR® Vision laths single-walled       o         EFA-ALUX® Aluminium laths       •         Colour according to RAL (without vison panel)       o         Door rutain made of flexible PVC, transparent with warning stripes in different colours       -         flexible fabric in different colours with / without vison panel       -         Fire class       Building Material class DIN 4102       B2         Building Material class SE DIN EN ISO 340       -       -         Drive       Electric motor       •       -         Control       EFA-TRONIC® Professional MS       •       •         Control       EFA-ProfiNetSafe®       o       •         Lead       230 V/50 Hz       •       •         Electricity connection 230 V/50 Hz       •       •       •         Circuit breaker       Ife A(K)       •       •         Emergency operation       Automatic after manual activation       •       •         Safety Devices       EFA-TLG® door light grid in door closing line       -       -         Safety Devices       EFA-TLG® door lig		Closing in m/s	0.6
Powder costed in RAL colours     o       Door frames aluminium anodised     -       Door leaf     EFA-CLEAR® Vision laths single-walled     o       EFA-ALUX® Aluminium laths     o       Colour according to RAL (without vison panel)     o       Door or urain made of flexible PVC, transparent with warning stripes in different colours flexible fabric in different colours with / without vison panel     -       Fire class     Building Material class DIN 4102     B22 Building Material class       Building Material class DIN 4102     B22 Building Material class     -       Drive     Electric motor     -       Control     EFA-TRONIC® Professional MS EFA-TRONIC® Professional MS     0       Control     EFA-TRONIC® Professional MS     0       Electricity connection 230 V/50 Hz     0     0       Electricity connection 400 V/50 Hz     0     0       Energency operation     Automatic after manual activation     0       Manual activation     -     -       Safety Devices     EFA-TLG® door light grid in door closing line Contact edge Light barrier     -		Closing by door light grid EFA-TLG® in m/s	-
Door frames aluminium andised-Door leafEFA-CLEAR® Vision laths single-walledoEFA-VENT® Ventilation lathsoEFA-ALUX® Aluminium lathsoColour according to RAL (without vison panel)oDoor curtain made of flexible PVC, transparent with warning stripes in different colours flexible fabric in different colours with / without vison panel-Fire classBuilding Material class DIN 4102B2Building Material class-SpringSpringDesigned for approx operating cycles per year250,000DriveElectric motor-ControlEFA-TRONIC® Professional MS EFA-TRONIC® Professional MS EFA-ProfiNetSafe®oLeadElectricity connection 230 V/50 Hz Circuit breakeroLeadElectricity connection 400 V/50 Hz Circuit breakeroEmergency operationAutomatic after manual activation Manual activationoSafety DevicesEFA-TLG® door light grid in door closing line Contact edge Light barriero	Design	Galvanized sheet steel frame	•
Door leaf       EFA-CLEAR® Vision laths single-walled       o         EFA-VENT® Ventilation laths       o         EFA-ALUX® Aluminium laths       o         Colour according to RAL (without vison panel)       o         Door curtain made of flexible PVC, transparent with warning stripes in different colours with / without vison panel       -         Fire class       Building Material class DIN 4102       B2         Building Material class DIN 4102       B2         Building Material class DIN 4102       Spring         Designed for approx operating cycles per year          Drive       Electric motor          Control       EFA-TRONIC® refessional MS EFA-ProfiNetSafe®          Lead       Electricity connection 230 V/50 Hz           Lead       Electricity connection 400 V/50 Hz           Ernergency operation       Automatic after manual activation           Safety Devices       EFA-TGC door light grid in door closing line Contact edge Light barrier		Powder coated in RAL colours	0
EFA-VENT* Ventilation laths       0         EFA-VENT*Ventilation laths       0         EFA-VENT*Ventilation laths       0         EFA-VENT*Ventilation laths       0         EFA-VENT*Ventilation laths       0         Colour according to RAL (without vison panel)       0         Dor curtain made of flexible PVC, transparent       -         Fire class       Building Material class DIN 4102       B2         Building Material class SE DIN EN ISO 340       -       -         Veight balancing by       Veright Daton       0       -         Designed for approx operating cycles per year       Electric motor       0       -         Control       EFA-TRONIC* Professional MS       0       -         EFA-ProfiNetSafe*       0       -       -         Lead       Electricity connection 400 V/50 Hz       -       -         Zio V/50 Hz       Circuit breaker       16 A(K)       -         Ernergency operation       Automatic after manual activation       -<		Door frames aluminium anodised	-
EFA-ALUX® Aluminium laths       •         Colour according to RAL (without vison panel)       •         Door curtain made of flexible PVC, transparent with warning stripes in different colours       -         flexible fabric in different colours with / without vison panel       -         Fire class       Building Material class DIN 4102       B2         Building Material class       -       -         Weight balancing by       Spring       -         Designed for approx operating cycles per year       250,000       -         Drive       Electric motor       -         Control       EFA-TRONIC® Professional MS       -         EFA-ProfiNetSafe®       -       -         Lead       230 V/50 Hz       -         Electricity connection 400 V/50 Hz       -       -         Energency operation       Automatic after manual activation       -         Manual activation       -       -       -         Safety Devices       EFA-TLG® door light grid in door closing line       -       -         Contact edge       Light barrier       -       -       -	Door leaf	EFA-CLEAR <sup>®</sup> Vision laths single-walled	0
Colour according to RAL (without vison panel)oDoor curtain made of flexible PVC, transparent with warning stripes in different colours flexible fabric in different colours with / without vison panel-Fire classBuilding Material class DIN 4102 Building Material class SE DIN EN ISO 340B2Weight balancing by52 DIN EN ISO 340-Designed for approx operating cycles per year52 DIN EN ISO 340-ControlElectric motor-ControlEFA-TRONIC® professional MS EFA-TRONIC® professional MS EFA-ProfiNetSafe®0LeadElectricity connection 230 V/SO Hz Circuit breaker0Emergency operationAutomatic after manual activation Manual activation0Safety DevicesEFA-TLG® door light grid in door closing line Contact edge Light barrier-		EFA-VENT® Ventilation laths	0
Door curtain made of flexible PVC, transparent with warning stripes in different colours flexible fabric in different colours with / without vison panel-Fire classBuilding Material class DIN 4102B2Building Material class SE DIN EN ISO 340-Weight balancing bySpringDesigned for approx operating cycles per year250,000DriveElectric motorControlEFA-TRONIC® Professional MSEFA-TRONIC® EFA-ProfiNetSafe®0LeadElectricity connection 230 V/50 HzElectricity connection 400 V/50 Hz0Electricity connection 400 V/50 Hz-Emergency operationAutomatic after manual activation Manual activationSafety DevicesEFA-TLG® door light grid in door closing line Contact edge Light barrierLight barrier0		EFA-ALUX <sup>®</sup> Aluminium laths	•
with warning stripes in different colours     -       flexible fabric in different colours with / without vison panel     -       Fire class     Building Material class DIN 4102     B2       Building Material class SE DIN EN ISO 340     -       Weight balancing by     Spring       Designed for approx operating cycles per year     250,000       Drive     Electric motor     -       Control     EFA-TRONIC® Professional MS     -       EFA-TRONIC®     o     -       Lead     Electricity connection 230 V/50 Hz     o       Electricity connection 400 V/50 Hz     -     -       Circuit breaker     16 A(K)       Emergency operation     Automatic after manual activation Manual activation     -       Safety Devices     EFA-TLG® door light grid in door closing line Light barrier     -		Colour according to RAL (without vison panel)	0
vison panelFire classBuilding Material class DIN 4102B2Building Material class SE DIN EN ISO 340-Weight balancing bySpringDesigned for approx operating cycles per year250,000DriveElectric motorControlEFA-TRONIC® Professional MSEFA-TRONIC® Professional MS0EFA-TRONIC® Electric ty connection 230 V/50 Hz0Electricity connection 400 V/50 Hz0Electricity connection 400 V/50 Hz16 A(K)Emergency operationAutomatic after manual activation Manual activation-Safety DevicesEFA-TLG® door light grid in door closing line Light barrier-			-
Building Material class SE DIN EN ISO 340       -         Weight balancing by       Spring         Designed for approx operating cycles per year       250,000         Drive       Electric motor         Control       EFA-TRONIC® Professional MS         EFA-TRONIC®       0         EFA-ProfiNetSafe®       0         Lead       230 V/50 Hz         Electricity connection 230 V/50 Hz       16 A(K)         Emergency operation       Automatic after manual activation         Manual activation       -         Safety Devices       EFA-TLG® door light grid in door closing line Contact edge Light barrier       -			-
SE DIN EN ISO 340       -         Weight balancing by       Spring         Designed for approx operating cycles per year       250,000         Drive       Electric motor         Control       EFA-TRONIC® Professional MS         EFA-TRONIC®       0         EFA-ProfiNetSafe®       0         Lead       Electricity connection 230 V/50 Hz         Electricity connection 400 V/50 Hz       0         Electricity connection 400 V/50 Hz       16 A (K)         Emergency operation       Automatic after manual activation Manual activation       0         Safety Devices       EFA-TLG® door light grid in door closing line Contact edge Light barrier       -	Fire class	Building Material class DIN 4102	B2
Designed for approx operating cycles per year       250,000         Drive       Electric motor         Control       EFA-TRONIC® Professional MS         EFA-TRONIC®       0         EFA-TRONIC®       0         EFA-ProfiNetSafe®       0         Lead       Electricity connection 230 V/50 Hz       0         Electricity connection 400 V/50 Hz       0         Electricity connection 230 V/50 Hz       16 A(K)         Emergency operation       Automatic after manual activation       0         Safety Devices       EFA-TLG® door light grid in door closing line Contact edge Light barrier       -			-
Drive Electric motor  Control EFA-TRONIC® Professional MS  EFA-TRONIC® content on the second	Weight balancing by		Spring
Control EFA-TRONIC® Professional MS EFA-TRONIC® Content on Content of Content on Content	Designed for approx operating cycles per year		250,000
EFA-TRONIC®     0       EFA-ProfiNetSafe®     0       Lead     Electricity connection 230 V/50 Hz     0       Electricity connection 400 V/50 Hz     0       Electricity connection 400 V/50 Hz     16 A (K)       Emergency operation     Automatic after manual activation Manual activation     0       Safety Devices     EFA-TLG® door light grid in door closing line Light barrier     -	Drive	Electric motor	•
EFA-ProfiNetSafe®     o       Lead     Electricity connection 230 V/50 Hz     o       Electricity connection 400 V/50 Hz     -       Circuit breaker     16 A (K)       Emergency operation     Automatic after manual activation Manual activation     o       Safety Devices     EFA-TLG® door light grid in door closing line Light barrier     -	Control	EFA-TRONIC <sup>®</sup> Professional MS	•
Lead       Electricity connection 230 V/50 Hz       o         Electricity connection 400 V/50 Hz       i         Circuit breaker       16 A (K)         Emergency operation       Automatic after manual activation Manual activation       o         Safety Devices       EFA-TLG® door light grid in door closing line Light barrier       -		EFA-TRONIC <sup>®</sup>	0
230 V/50 Hz     0       Electricity connection 400 V/50 Hz     •       Circuit breaker     16 A (K)       Emergency operation     Automatic after manual activation     0       Manual activation     -       Safety Devices     EFA-TLG® door light grid in door closing line     -       Light barrier     •		EFA-ProfiNetSafe®	0
400 V/50 Hz     •       Circuit breaker     16 A (K)       Emergency operation     Automatic after manual activation     o       Manual activation     -       Safety Devices     EFA-TLG® door light grid in door closing line     -       Light barrier     •	Lead		0
Emergency operation     Automatic after manual activation     o       Manual activation     -       Safety Devices     EFA-TLG® door light grid in door closing line     -       Contact edge     •       Light barrier     •			•
Manual activation		Circuit breaker	16 A (K)
Safety Devices       EFA-TLG® door light grid in door closing line       –         Contact edge       ●         Light barrier       ●	Emergency operation	Automatic after manual activation	0
Contact edge   Light barrier		Manual activation	-
Light barrier •	Safety Devices	EFA-TLG <sup>®</sup> door light grid in door closing line	-
		Contact edge	•
Light grid, external OHSO		Light barrier	•
		Light grid, external	o HSO

#### **MS Series**

Standard, o upon request, – Not available, HSO = Head Safe Option,
 \* Depending on door leaf, guide of door leaf and door size, we reserve the right to make technical alterations!

#### EFAFLEX

Tor- und Sicherheitssysteme GmbH & Co. KG Fliederstraße 14 84079 Bruckberg / Germany Telephone +49 8765 82-0 www.efaflex.com info@efaflex.com

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