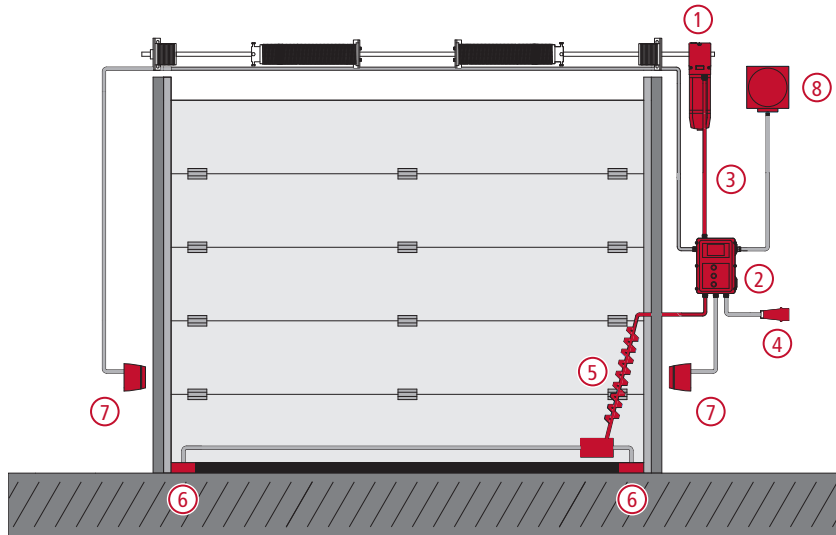


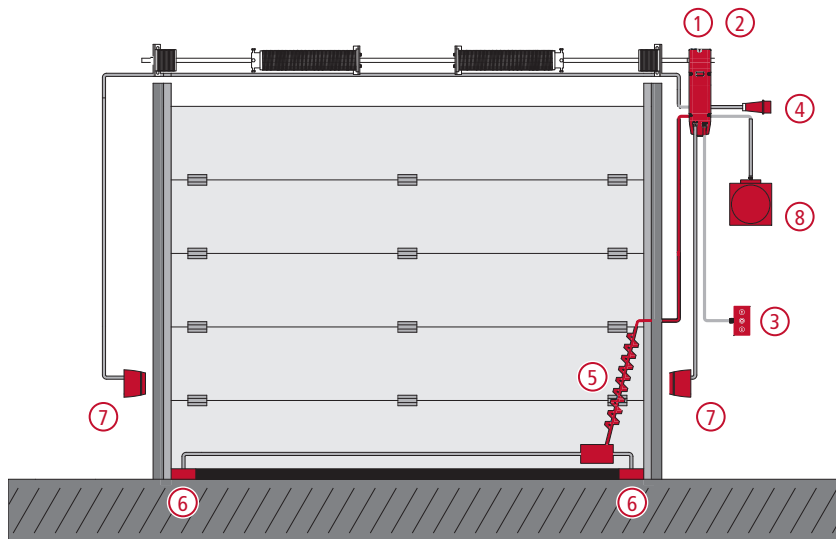
Spring balanced sectional doors

Informations | Door system

Opener with external control unit



Opener with integrated control unit



Opener with external control unit

- 1 Opener
- 2 Control unit
- 3 Cable loom
- 4 CEE plug or Schuko plug
- 5 Spiral cable with junction box
- 6 Optosensors, e.g. type M
- 7 Photocell, e.g. Special 630
- 8 Traffic light or signal light, e.g. Light 100

Opener with integrated control unit

- 1 Opener
- 2 Control unit
- 3 Push button
- 4 CEE plug or Schuko plug
- 5 Spiral cable with junction box
- 6 Optosensors, e.g. type M
- 7 Photocell, e.g. Special 630
- 8 Traffic light or signal light, e.g. Light 100

Spring balanced sectional doors

Informations | Product key

Product name

STA	Opener 3-PH
STAC	Opener 3-PH with integrated control unit
STAW	Opener 1-PH

STAWS	Opener 1-PH with optimized motor coil
STAI	Opener 3-PH for mounting to an opener rail
STAIW	Opener 1-PH for mounting to an opener rail

Torque index

The torque index number multiplied by factor 10 is the drive torque (Nm): $10 \times 10 = 100 \text{ Nm}$

Type of emergency operation

KE	Emergency hand chain
E	Quick release
E/KE	Emergency hand chain with maintenance release

Nominal voltage

STA 1-10-24 KE 400V/3PH 80%

Gear size index

Nominal rotational speed

The speed (min^{-1}) with which the gear hollow shaft rotates.

Additional informations

80%	Duty cycle
25.4	Standard hollow shaft 25.4 mm
VZ	Hollow shaft with splined cog
IP 65	Protection category

Spring balanced sectional doors

Informations | Technical details

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Spring balanced sectional doors

STA 1-10-24
400V/3PH · 60%

STA 1-11-19
400V/3PH · 60%

STA 1-11-24
400V/3PH · 60%

STA 1-12-19
400V/3PH · 60%

STA 1-13-15
400V/3PH · 60%

STA 1-14-19
400V/3PH · 60%

Application

Door size (max.)	m ²	30	30	45	45	45	50
Door weight (max.)	kg	390	390	585	585	585	650

The application is a recommendation for spring balanced doors.

Mechanical details

Drive torque	Nm	100	110	110	120	130	140
Static holding torque	Nm	600	600	600	600	600	600
Nominal rotational speed	min ⁻¹	24	19	24	19	15	19
Number of drive shaft revolutions (max.)		20	20	20	20	20	20
Hollow shaft		25.4 mm VZ	25.4 mm VZ	25.4 mm	25.4 mm	25.4 mm VZ	25.4 mm VZ
Emergency operation		E KE E/KE	E KE E/KE	E KE E/KE	E KE E/KE	E KE E/KE	KE E/KE

Electrical details

Nominal voltage	V AC	400/3~	400/3~	400/3~	400/3~	400/3~	400/3~
Nominal frequency	Hz	50	50	50	50	50	50
Power consumption	A	2.0	2.0	2.2	2.2	2.2	2.4
Motor output	kW	0.37	0.37	0.55	0.55	0.55	0.65
Cycles per hour (max.)		20	20	20	20	20	20
Protection category		IP 65	IP 65	IP 65	IP 65	IP 65	IP 65
Protection class		I	I	I	I	I	I

General details

Weight	kg	15	15	15	15	15	15
Range of temperature (min./max.)	°C	-20/+60	-20/+60	-20/+60	-20/+60	-20/+60	-20/+60

VZ: Hollow shaft with splined cog E: Quick release KE: Emergency hand chain E/KE: Emergency hand chain with maintenance release

Spring balanced sectional doors

Informations | Technical details

STA 1-11-24
400V/3PH · 80%

STA 1-12-19
400V/3PH · 80%

STA 1-10-30 FU/I
230V/1PH · 60%

STA 1-11-24 FU/I
230V/1PH · 60%

STA 1-12-19 FU/I
230V/1PH · 60%

STA 1-11-24 FU/I
230V/1PH · 80%

Application

Door size (max.)	m ²	50	50	45	45	45	50
Door weight (max.)	kg	650	650	585	585	585	650

The application is a recommendation for spring balanced doors.

Mechanical details

Drive torque	Nm	110	120	100	110	120	110
Static holding torque	Nm	600	600	600	600	600	600
Nominal rotational speed	min ⁻¹	24	19	30	24	19	24
Number of drive shaft revolutions (max.)		20	20	20	20	20	20
Hollow shaft		25.4 mm VZ	25.4 mm	25.4 mm	VZ	VZ	VZ
Emergency operation		E KE E/KE	E KE	KE	E/KE	E/KE	E/KE

Electrical details

Nominal voltage	V AC	400/3~	400/3~	230/1~	230/1~	230/1~	230/1~
Nominal frequency	Hz	50	50	50	50	50	50
Power consumption	A	1.8	1.8	3.5	3.5	3.5	3.5
Motor output	kW	0.55	0.55	0.55	0.55	0.55	0.55
Cycles per hour (max.)		30	30	20	20	20	30
Protection category		IP 65	IP 65	IP 65	IP 65	IP 65	IP 65
Protection class		I	I	I	I	I	I

General details

Weight	kg	23	23	18	18	18	25
Range of temperature (min./max.)	°C	-20/+60	-20/+60	-20/+60	-20/+60	-20/+60	-20/+60

VZ: Hollow shaft with splined cog E: Quick release KE: Emergency hand chain E/KE: Emergency hand chain with maintenance release

Spring balanced sectional doors

Informations | Technical details

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Spring balanced sectional doors

STAW(S) 1-6-24
230V/1PH · 25%

STAW(S) 1-7-19
230V/1PH · 25%

STAI 1-10-30
400V/3PH · 60%

STAI 1-8-45
400V/3PH · 80%

STAI 1-10-30
400V/3PH · 80%

STAI 1-10-30 FU/I
230V/1PH · 60%

Application

Door size (max.)	m ²	20	20	45	45	45	45
Door weight (max.)	kg	260	260	585	585	585	585

The application is a recommendation for spring balanced doors.

Mechanical details

Drive torque	Nm	60	70	100	80	100	100
Static holding torque	Nm	600	600	600	600	600	600
Nominal rotational speed	min ⁻¹	24	19	30	45	30	30
Number of drive shaft revolutions (max.)		20	20	35	35	35	35
Hollow shaft		25.4 mm VZ	25.4 mm VZ	25.4 mm	25.4 mm	25.4 mm	25.4 mm
Emergency operation		KE	KE E/KE	E	E	E	E

Electrical details

Nominal voltage	V AC	230/1~	230/1~	400V/3~	400V/3~	400V/3~	230/1~
Nominal frequency	Hz	50	50	50	50	50	50
Power consumption	A	3.6	3.6	2.4	1.8	1.8	3.5
Motor output	kW	0.37	0.37	0.55	0.55	0.55	0.55
Cycles per hour (max.)		8	8	20	30	30	20
Protection category		IP 65	IP 65	IP 65	IP 65	IP 65	IP 65
Protection class		I	I	I	I	I	I

General details

Weight	kg	23	23	13	15	18	18
Range of temperature (min./max.)	°C	-20/+60	-20/+60	-20/+60	-20/+60	-20/+60	-20/+60

VZ: Hollow shaft with splined cog E: Quick release KE: Emergency hand chain E/KE: Emergency hand chain with maintenance release

Spring balanced sectional doors

Informations | Technical details

STAW(S) 1-5-30
230V/1PH · 25%

Application

Door size (max.)	m ²	20
Door weight (max.)	kg	260

The application is a recommendation for spring balanced doors.

Mechanical details

Drive torque	Nm	50
Static holding torque	Nm	600
Nominal rotational speed	min ⁻¹	30
Number of drive shaft revolutions (max.)		35
Hollow shaft		25.4 mm
Emergency operation		E

Electrical details

Nominal voltage	V AC	230/1~
Nominal frequency	Hz	50
Power consumption	A	3,6
Motor output	kW	0.37
Cycles per hour (max.)		20
Protection category		IP 65
Protection class		I

General details

Weight	kg	23
Range of temperature (min./max.)	°C	-20/+60

Features	CS 310	CS 255 AC
Digital and mechanical end position processing	•	•
Programmable relay outputs	4	1
Programmable inputs	2	2
MS-Bus interface for connecting expansion modules	•	•
Transformer switchable from 400 V to 230 V	•	•
Short-circuit proof low voltage	•	•
Built in standard or large housing	•	
Built in small housing or built on gear motor		•
Protective housing for the circuit board	•	
Programming via buttons on the circuit board	•	•
Illuminated 3-button push button integrated into housing cover	•	•
Illuminated LC-display with clear text integrated	•	
Status and diagnostic messages via LEDs	•	•
Excess travel stop	•	•
Evaluation closing edge safety devices: optosensor, 8.2 kΩ, pressure switch bar, non-contact closing edge safety device	•	•
Evaluation photocells: 2-wire, relay, NPN, PNP	•	•
Programming and status indication via LEDs	•	•
Programming and status indication via LC-display	•	•
Direction of rotation monitoring and detection (only in combination with absolute value encoder)	•	•
Direction of rotation programmable	•	•
Automatic closing function (only usable in combination with photocell)	•	•
Door open duration and warning time programmable	•	•
Power limitation 'OPEN' programmable (only in combination with absolute value encoder)	•	•
Soft start/soft stop/soft run/fast run (only in combination with STA 1 FU/I)	•	
Partial opening programmable	•	•
Servicing counter and door cycle counter	•	•
Servicing interval programmable (PIN code protected)	•	•
Fault messages with memory	•	•
Multistage reset function	•	•
Connection for:		
Mechanical limit switches	•	•
Absolute value encoder	•	•
Frequency converter	•	
Push button (conventional)	•	•
Push button (system cabling)		•
Radio receiver (pluggable)	•	•
Week timer (pluggable)	•	
Marantec 2-wire photocell with testing 'CLOSE' (conventional)	•	•
Other's photocell relay, NPN, PNP with/without testing 'CLOSE' (conventional)	•	•
Hold circuit (conventional)	•	•
Wicket door contact 8.2 kΩ with/without testing (conventional)	•	•
Closing edge safety device optosensor, 8.2 kΩ, pressure switch bar, non-contact closing edge safety device 'CLOSE' (conventional)	•	•
Closing edge safety device 8.2 kΩ 'OPEN' (conventional)	•	•
Radio transmission system for closing edge safety device (pluggable)	•	
Expansion modules (MS-Bus)	•	•
Power supply for external elements 24 V DC (max. mA) (conventional)	500	200
Power supply for external elements 230 V AC (max. mA) (conventional)	1,000	