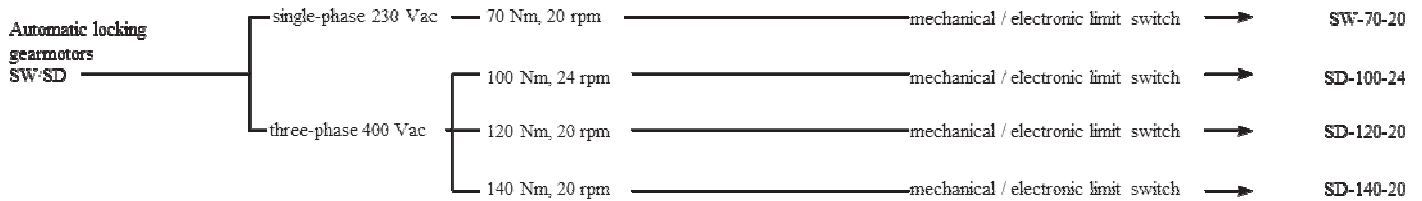


SW/SD



Follow arrow and choose the right product

For sectional balanced doors



Indication of the station choice to combine with the SW/SD gearmotors

SD/SW Series Gearmotors

	SW-70-20-KU SW-70-20-KE SW-70-20-E	SD-100-24-KU SD-100-24-E SD-100-24-KE SD-100-24-KE2	SD-120-20-KU SD-120-20-E SD-120-20-KE SD-120-20-KE2	SD-140-20-KU SD-140-20-E SD-140-20-KE SD-140-20-KE2
Control unit				
UST2*		•	•	•
UST1	•	•	•	•
UST1K-2,2 kW	•	•	•	•
UST1K-1,1 kW	•	•	•	•

*to use only for gearmotors with mechanical limit switch.

Important note:

The weight lifted cannot be the only criteria used for choosing the gearmotor.

The fall of a sectional balanced door can be avoided if the gearmotor is able to support the wing weight even if the spring breaks.

The static overturning moment is the maximum load allowed for the mechanism at the time the spring breaks.

The Mstat static overturning moment is calculated with the following formula:

$$M_{stat} [Nm] = \text{wing weight [N]} \times \text{cable winder drum radius [m]}$$

Considering that two balancing springs can yield at the same time, it is recommended to size the gearmotor so that it is able to support

- the total weight of the wing when there are one or two springs
- 2/3 of the weight of the wing when there are three springs
- 1/2 of the weight of the wing when there are four springs.

When making this choice, the considerably greater gearmotor breaking load is not to be contemplated. In the case of cable winder drums of the incremental type, the greater winding diameter is to be considered.

Consider the maximum sustainable force of the cables.

SD series (with handle)



Electromechanical gearmotor for sectional doors up to 550 kg with integrated brake. Versions for 230 Vac single-phase and 230/400 Vac three-phase, with mechanical or electronic limit switches.

Simple installation:

The gearmotor is to be installed directly on the shaft of the sectional door. Connection cables equipped with connectors simplify electrical installation. Complete Nice gearmotor-cable-station kits are directly wired in production and allow installation time to be further reduced.

Sturdy

Gearmotor with bronze gears, with permanent lubrication

Practical:

Release available in 3 versions:

- cable release
- handle-operated emergency
- chain-operated emergency, the ideal solution for every type of application.

Compact and efficient:

torque up to 140 Nm
speed up to 24 rpm

Safety:

gearmotors compliant with the most recent European standards and directives in terms of safety and technology.

Smart

UST1 series control unit separated from the gearmotor, simple and reliable, equipped with:

- mechanical or electronic limit switches
- possible to connect photoelectric barriers and optical or resistive sensitive edges 8.2 kΩ
- deadman or automatic control, control via radio or via cable
- possibility to expand with additional modules.

SD series (with cable)



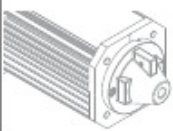
SD series (with chain)



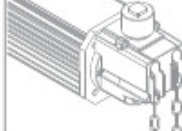
SW series



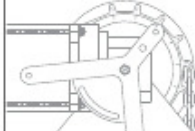
Handle-operated emergency (KU series) and cable release (E series)



Chain-operated emergency (KE series)



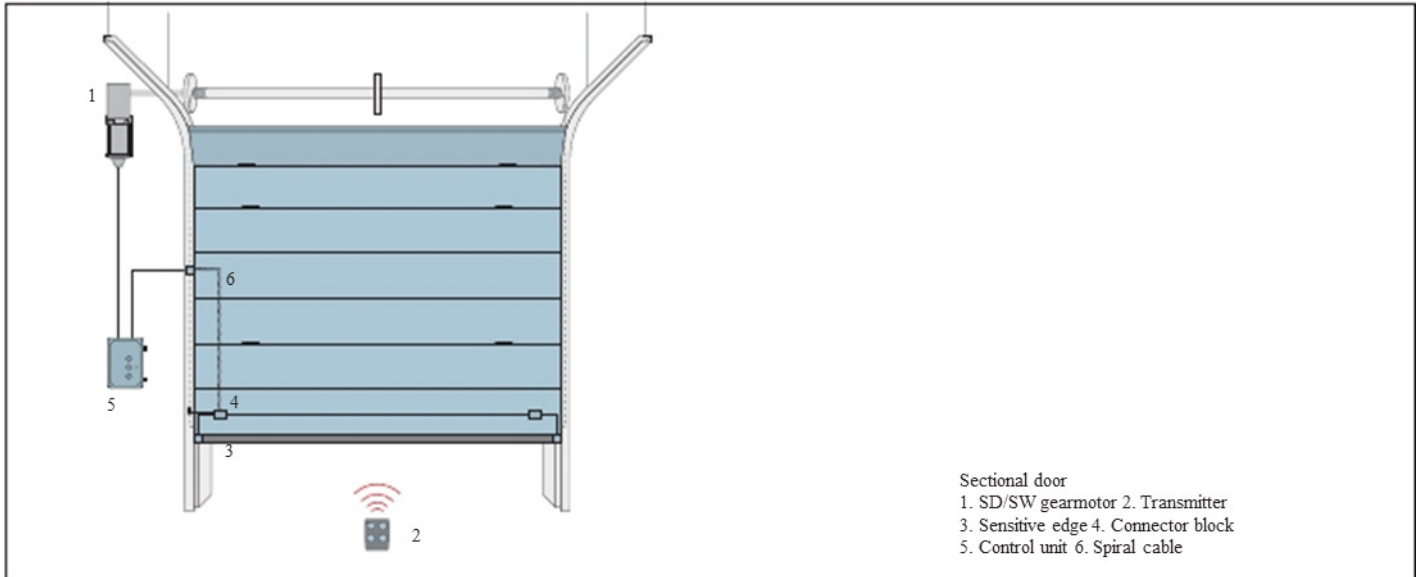
Chain-operated emergency (KE2 series)



Code	Description
NDCK0009	SW-70-20 gearmotor with electronic limit switch and release with light 5 m chain, UST1K-1.1kW station, Schuko plug, 7 m cable
NDCK0129	SD-100-24 gearmotor with electronic limit switch and cable release, UST1K-1.1kW station, EEC plug, 5 m cable
NDCK0013	SD-100-24 gearmotor with electronic limit switch and release with light 5 m chain, UST1K-1.1kW station, EEC plug, 5 m cable
NDCK0067	SD-100-24 gearmotor with electronic limit switch and release with 5 m chain, UST1K-1.1kW station, EEC plug, 5 m cable
NDCK0024	SD-100-24 gearmotor with mechanical limit switch and release with light 5 m chain, UST1 station with K1 module, EEC plug, 5 m cable
NDCK0043	SD-100-24 gearmotor with mechanical limit switch and cable release, UST2 station, EEC plug, 7 m cable
NDCK0014	SD-100-24 gearmotor with mechanical limit switch and release with light 5 m chain, UST2 station, EEC plug, 7 m cable
NDCK0249	SD-140-20 gearmotor with electronic limit switch, cable release and Ø 25.4 mm shaft, UST1K-1.1kW controller, EEC plug, 5 m cable
NDCK0154	SD-100-24 gearmotor with electronic limit switch, release with light 5 m chain and Ø 31.75 mm shaft, UST1K-1.1kW station, EEC plug, 5 m cable

Gearmotors

Code	Description
NDCM0022	SD-100-24 gearmotor with mechanical limit switch and release with light 5 m chain
NDCM0019	SD-100-24 gearmotor with mechanical limit switch and cable release
NDCM0023	SD-100-24 gearmotor with electronic limit switch and release with light 5 m chain
NDCM0051	SD-100-24 gearmotor with electronic limit switch, release with light 5 m chain and Ø 31.75 mm shaft

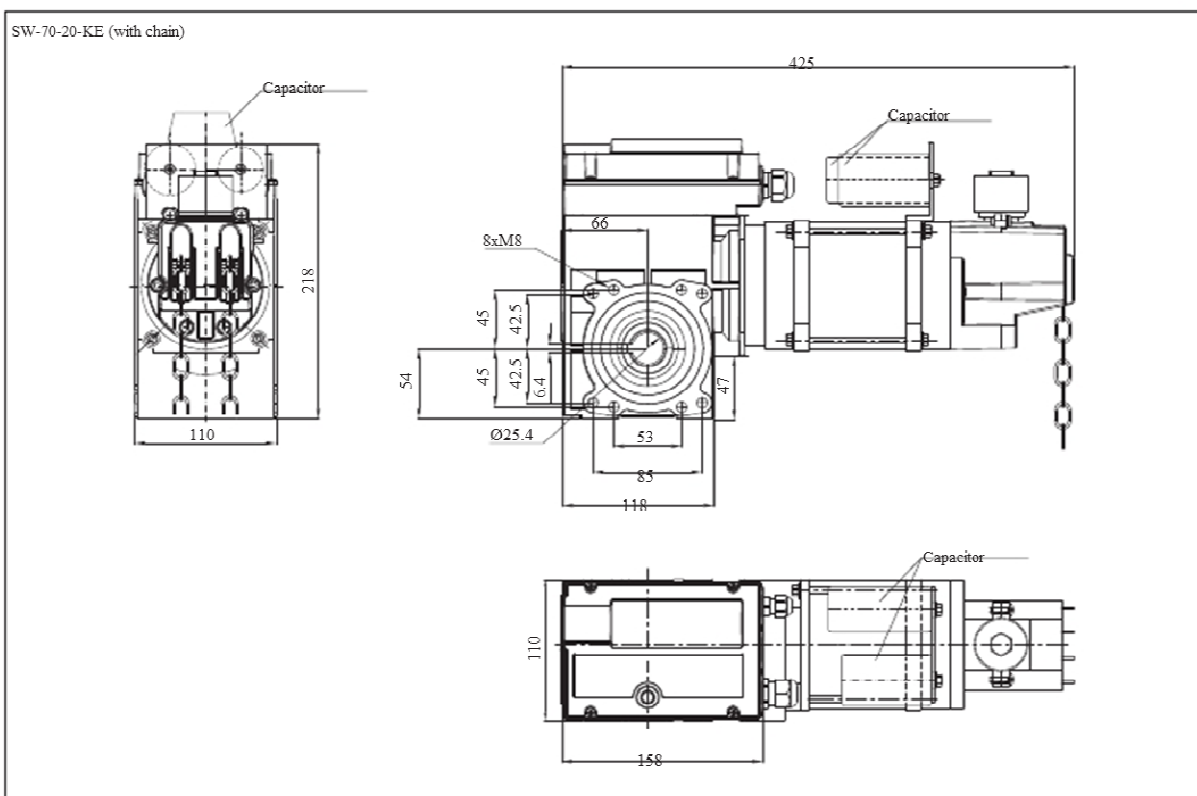
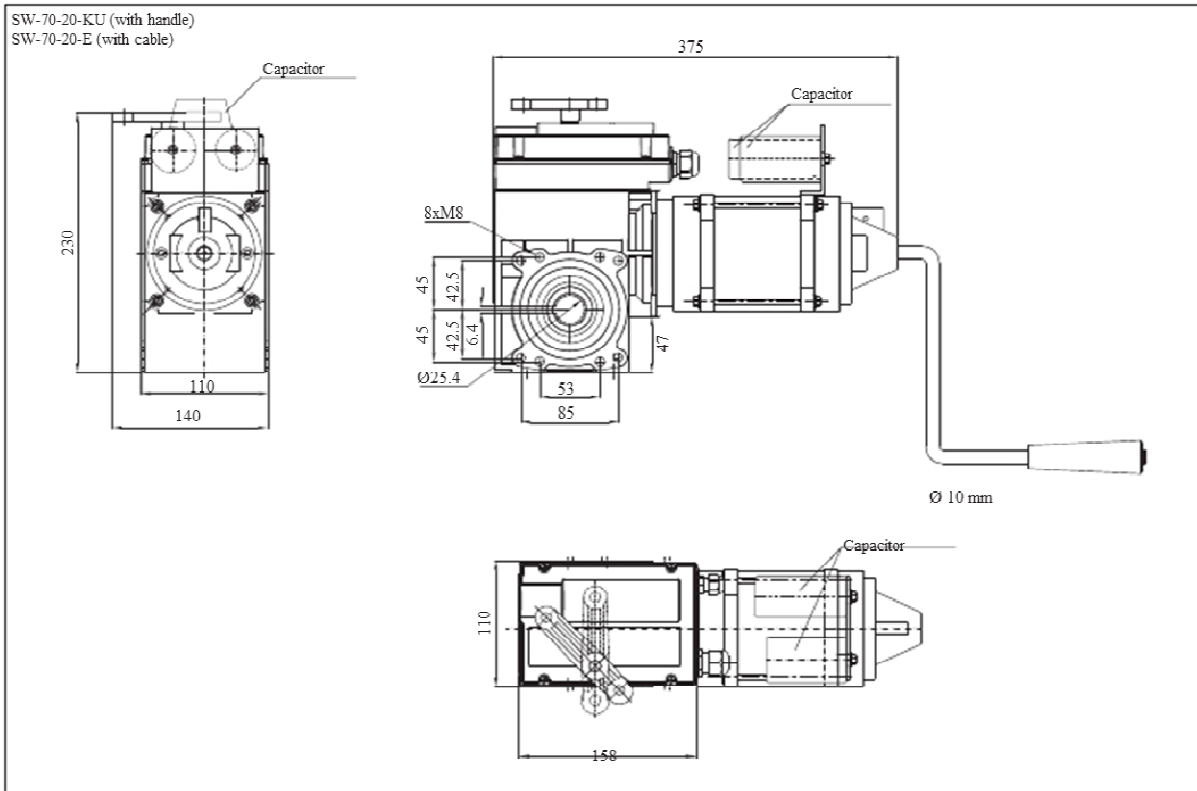


Technical data

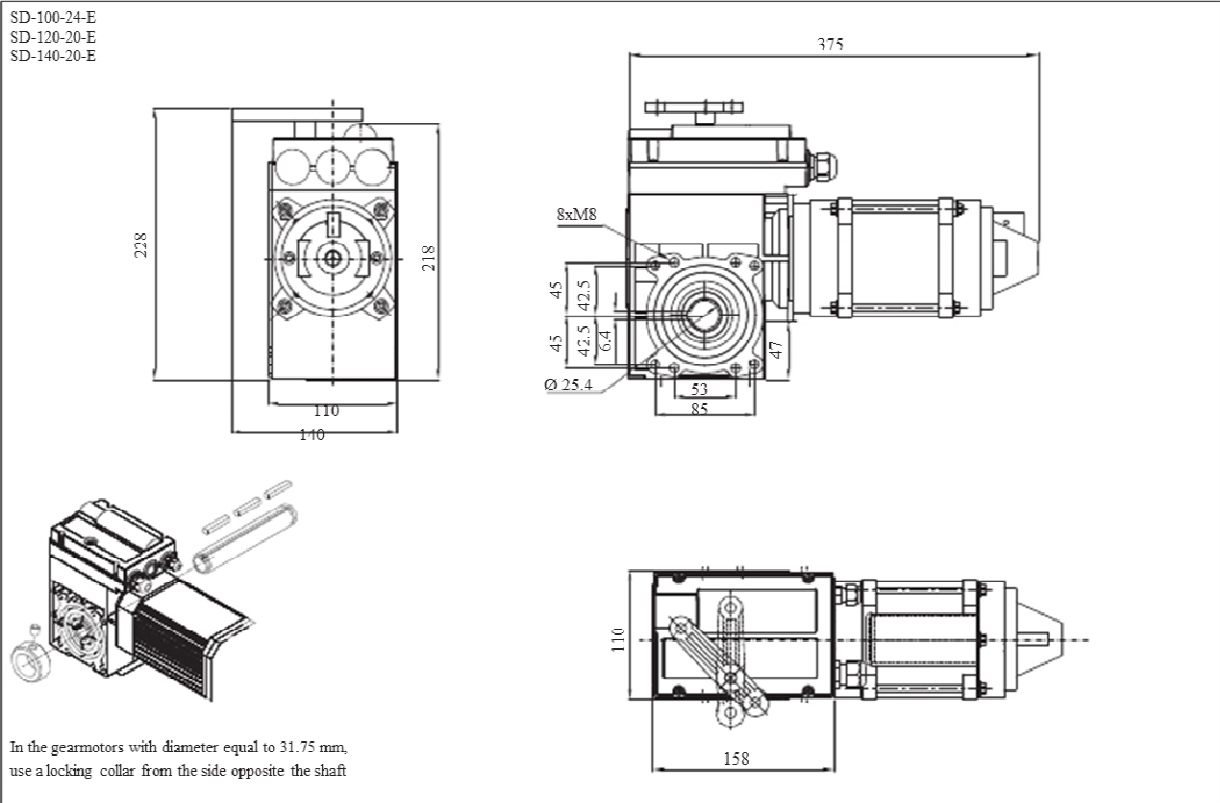
Type	SW-70-20	SD-100-24	SD-120-20	SD-140-20
Shaft Ø (mm)		25,4		25,4/31,75
Max. torque (Nm)	70	100	120	140
Rated torque (Nm)	60	80	100	120
Static overturning moment (Nm)		230		440
Weight lifted* (kg)		300		550
Absorbed power (kw)	0,20		0,37	0,55
Working voltage (V/Hz)	1x230 V 50 Hz		3x230V/3x400V 50Hz	
Service factor (ED)	S3-20%		S3-60%	
Connection cable (no. x mm.)	3 x 1,5		5 x 1,5	
Nominal current (A)	3,45/2,0	3,1	2,6/1,5	3,45/2,0
Limit switch rpm		15		
Operating temperature (° C)		-5 ÷ +40		
Noise dB(A)		<70		
Protection rating (IP)		IP54		
Weight (kg)	11,5	11,1	11	12

*For balanced doors with 1-4 compensating springs with a Ø 160 mm diameter cable winder drum, observe the permitted cable forces, the danger warnings and the general rules of safety.

SW/SD series technical drawings for sectional doors



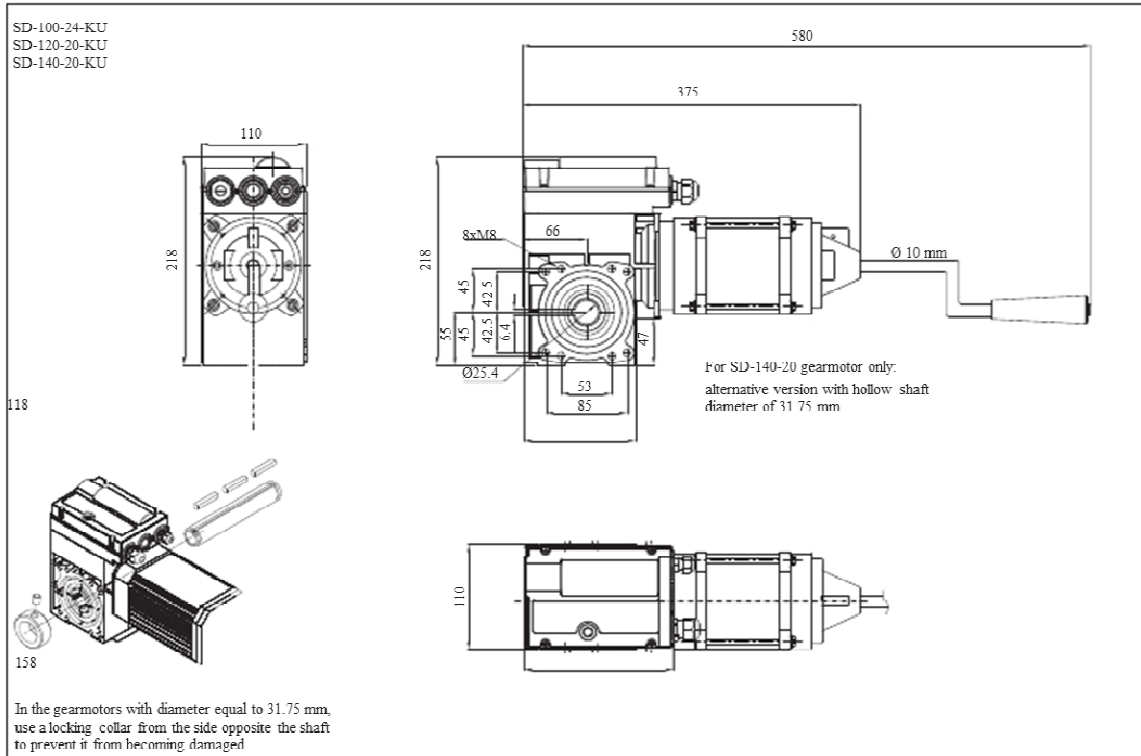
SD-100-24-E
SD-120-20-E
SD-140-20-E



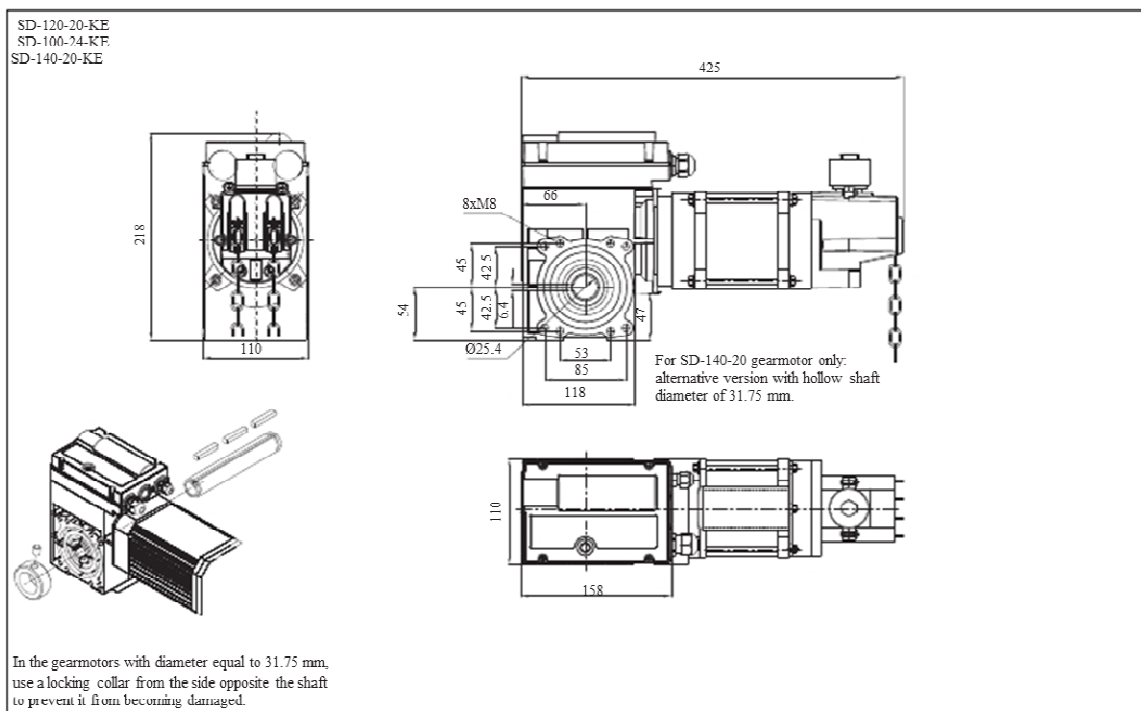
In the gearmotors with diameter equal to 31.75 mm, use a locking collar from the side opposite the shaft

to prevent it from becoming damaged.

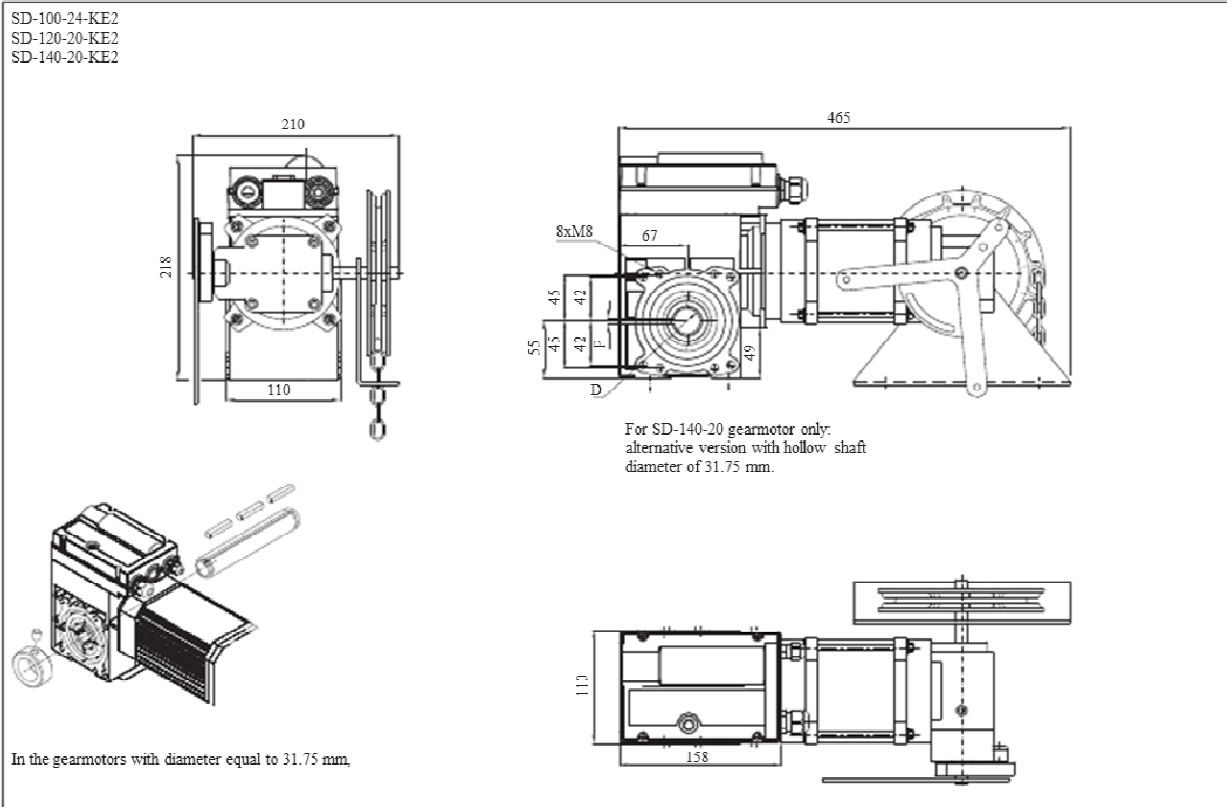
Model SD series, release with handle



Model SD series, release with light chain



Model SD series, release with chain



use a locking collar from the side opposite the shaft
to prevent it from becoming damaged.