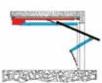
Type of installation

Max door dimensions L x H (m)	Residential	Condominium	Industrial
3,00 x 3,80 SWING spring / counterbalanced (with adapter GDA 2400)	D600 D700HS	D1000	
5,00 x 3,80 SECTIONAL	D600 D700HS	D1000	
			540
			541
			541 3PH
	Electromech	anical ceiling	Electromechanical side application

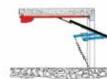
Type of up-and-over/sectional doors that can be automated with: D600 - D700HS - D1000



COUNTERBALANCED (with GDA 2400 adapter)



HORIZONTAL TRACKS



DOUBLE LEVER



SECTIONAL (with curved arm)

FAAC Automated systems for sectional doors

D600-D700HS-D1000

RESIDENTIAL CONDOMINIUM

Electromechanically-driven operator 24V for sectional doors or spring/counterbalanced up-and-over doors,

for residential (D600-D700HS) and also condominium (D1000) use

News:

D700HS (High Speed): up to 12m/minute

double speed compared to traditional motors

- Anti-burglary non-reversing facility: there is no need to install locks and bolts.
- Bi-stable release device (patented).
- The anti-crushing device makes it possible to build automated systems conforming to European Directives. The safety edge is not necessary.
- Quick, simple installation thanks to the pre-installed rail and installation of the automated system without any tools with rotation coupling.
- Chain/belt transmission.
- Adjustable travel limit electronic slow-down.



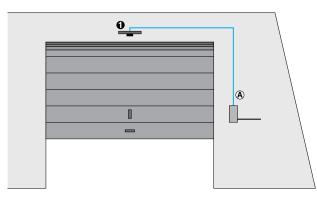
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take

DIMENSIONS AND TECHNICAL SPECIFICATIONS OF D600 - D700 HS - D1000

	D600	D600 D700HS D1000		
Power supply		230 Vac		
Electric motor		24 Vdc		
Max. absorbed power	220 W	440 W	350 W	
Thrust force	600 N	700 N	1000 N	
Type of use		continuous		
Maximum overall dimensions from ceiling		35 mm		
Courtesy lamp		230 Vac - 40 W (max)		
Courtesy lamp timing		120 s.		
Carriage standard off load speed	6.6 m/min	6.6 m/min 1.2 m/min 6.6 m/m		
Carriage reduced off load speed		3.8 m/min		
Carriage speed at slow-down	1.3 m/min	2.5 m/min	1.3 m/min	
Noise at standard speed		45 dB(A)		
Travel length at slow-down		variable from setup		
Intrinsic safety device		standard supply		
Protection class		for internal use only (IP20)		
Operating ambient temperature		from -20 °C to +55 °C		
Dimensions (L x D x H) in mm		360 x 200 x 145		

TYPICAL INSTALLATION EXAMPLE



Ref.	Q.ty	Description	Item code
0	1	D600 Dolphin kit 868	10566515
0	1	Single piece rail with chain travel 2,000 mm	390119
	1	Receiver XF 433 / 868	included
	1	Transmitter 433 / 868	
	1	XL 24 flashing lamp	410017
	1	Pair of photocelles	
	1	Key operated push button T10	401010001
Ada	ptor fo	or counterbalanced up-and-over doors	
	1	GDA 2400	390548
Arm	for se	ectional doors	
	1	Arm for sectional doors	390768

■ (A) Low voltage cabling

1 cable 2x1.5*T

N.B.: Cable sections in mm².

Notes

ATTENTION: The configuration does not include the safety devices (i.e.: active or passive safety edges) that are to be determined according to the specific "risk analysis" of each installation.

Ref.: UNI-EN 12445 and 12453 European Standards).

• The indicated price does not include the installation costs and the expenses for masonry, electrical and metalwork preparations.



dittana III

doors, max. height 2400 mm

390548

GDA 2400 adaptor for counterbalanced up-and-over

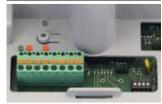
Item code

SPECIFIC ACCESSORIES FOR DOLPHIN KIT	Item code
D600 Dolphin kit K868	10566515
D600 Dolphin kit K433	10566516
D700HS	110602
D1000 Dolphin kit K868	10566615
D1000 Dolphin kit K433	10566616

IMPORTANT: a rail (single piece or two pieces with belt or chain drive) must always be ordered with every D600 or D1000 operator.

Packages contain: an electro-mechanical operator with control unit and timed courtesy lamp, installation accessories and internal release device. **SPECIFIC ACCESSORIES**

CONTROL UNITS



Built-in E600, E700HS, E1000 control boards. See electronics and accessories page 147





410017

Flashing lamp XL 24 L

Item code

11## **Rail central support - supplied** standard with two piece rails

Item code

Item code

Curved arm for sectional doors

390768

XF 868 MHz - XF 433 MHz XF 868 Code 319007 XF 433 Code 319006



390765

Notes (*) The D600 - D700HS - D1000 automated systems are designed for housing "on board" the XBAT24 emergency battery kit (optional). (**) To install, the accessory cable and sheath for external release must also be used.

Important: Important: the E600/E700HS/E1000 control boards, with new technology 🕎 are compatible only with the XF 433/XF868 receiver. The D600 – D700 HS – D1000 automated systems can be equipped only with the XL24L flashing lamp.

USE OF OPERATORS D600 - D700HS - D1000

Rail	Door max.	Sectional door	Length of rail	Carriage	Item code
	dimensions	max. dimensions	(mm)	max. travel	
	l x h (m)	l x h (m)		(mm)	
Single with chain	3.00 x 2.15	5.00 x 2.02	2400	2020	390119
Single with chain	3.00 x 2.60	5.00 x 2.62	3000	2620	390125
Single with chain	3.00 x 3.20	5.00 x 3.20	3600	3200	390131
Single with chain	3.00 x 3.80	5.00 x 3.80	4200	3800	390138
Two-piece with chain	3.00 x 2.60	5.00 x 2.62	3000	2620	390225
Two-piece with chain	3.00 x 3.20	5.00 x 3.20	3600	3200	390231
Two-piece with chain	3.00 x 3.80	5.00 x 3.80	4200	3800	390238
Single with belt	3.00 x 2.15	5.00 x 2.02	2400	2020	390120
Single with belt	3.00 x 2.60	5.00 x 2.62	3000	2620	390126
Single with belt	3.00 x 3.20	5.00 x 3.20	3600	3200	390132
Single with belt	3.00 x 3.80	5.00 x 3.80	4200	3800	390139
Two-piece with belt	3.00 x 2.60	5.00 x 2.62	3000	2620	390226
Two-piece with belt	3.00 x 3.20	5.00 x 3.20	3600	3200	390232
Two-piece with belt	3,00 x 3,80	5,00 x 3,80	4200	3800	390239

OTHER ACCESSORIES





Key-operated push-buttons page 166





devices

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Flashing lamps page 174





Transmitters page 160

Various accessories page 175

INDUSTRIAL

CE

Gearmotors for industrial sectional doors 230V

(with integrated control board)



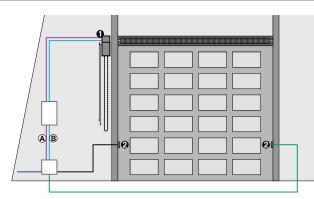
- Ideal for industrial application with "dead-man" control.
- 2 types of application: by direct transmission on the spring-carrier shaft or indirect by chain transmission (in case of shortage of space at the sides or too short a door shaft).
- The gearmotor is non-reversing. In case of power cut: the door can be moved manually by using the rapid release cord device or (540 V) by activating the chain winch.

DIMENSIONS AND TECHNICAL SPECIFICATIONS OF 540

Power supply	230 Vac (+6% -10%) 50 (60) Hz	
Electric motor	asynchronus single-phase 1450 r.p.m.	
Max. absorbed power	800 W	
Absorbed current	3.5 A	
Thrust capacitor	20 µF	
Rotation speed	23 r.p.m.	
Thermal protection on winding	140 °C	
Use frequency	40% S3	
Drive	through shaft diam. 25.4 mm (1")	

Shaft rated torque	50 Nm
Drive max. revs	24
Protection class	IP54
Dperating ambient temperature	from -20 °C to +55 °C
earmotor max. weight	14 Kg
ype of oil	FAAC HP OIL
il quantity	0.9
imensions (L x D x H) in mm	92 x 376 x 266

TYPICAL INSTALLATION EXAMPLE



■ A Low voltage cabling

■ 2 cables 2x0.75

- 1 cable 3x0.75
 1 cable 2x0.75
- B Power cabling (230V) ■ 1 cable 2x1.5+T

N.B.: Cable sections in mm².

Ref.	Q.ty	Description	ltem code
0	1	Gearmotor 540 V BRP with travel limit and integrated control board	109511
€	1	Receiver RP 433 SLH	787824
	1	Two-channel transmitter XT2 433 SLH LR	787007
0	1	Pair of photocells SAFEBEAM	785165

Notes

ATTENTION: The configuration does not include the safety devices (i.e.: active or passive safety edges) that are to be determined according to the specific "risk analysis" of each installation.

(Ref.: UNI-EN 12445 and 12453 European Standards).

• The indicated price does not include the installation costs and the expenses for masonry, electrical and metalwork preparations.



Model	U	se		ltem code
	Applications	Use frequency (%)	Control unit	
540	See graph (*)	40 (S3)	540 BT included	109541
540 X	See graph (*)	40 (S3)	540 BT included	109530
540 V	See graph (*)	40 (S3)	540 BT included	109540
540 BPR	See graph (*)	40 (S3)	540 BPR included	109511
540 X BPR	See graph (*)	40 (S3)	540 BPR included	109513
540 V BPR kit	See graph (*)	40 (S3)	540 BPR included	109509

The package 540 (540 BPR) includes: a gearmotor with travel limit and integrated control board 540 BT (540 BPR), securing plate, "cord operated" emergency release device (**).

The package 540 V (540 V BPR) includes: a gearmotor with travel limit and integrated control board 540 BT (540 BPR), securing plate, "cord operated" emergency release device (**), manual motion "chain" device (winch) (**).

The package 540 X (540 X BPR) includes: a gearmotor with travel limit and integrated control board 540 BT (540 BPR), securing plate, manual motion "chain" device (winch) (**).

CONTROL UNITS



Electronic circuit board 200 BT (built-in)

Technical Specifications page 153

The transmission kit for "off axis"

applications R. 1:1.5 (*) includes:

• Securing plate of gearmotor

including the chain tension

installation on the gearmotor

on the sectional door shaft

· Pinion Z30 with shaft for installation

390744

adjustment system

· Transmission chain

· Pinion Z20 with shaft for



Built-in control board 540 BPR Technical specifications page 148

SPECIFIC ACCESSORIES



Securing plate for three-dimensional adjustment

Item code 390721

TRANSMISSION 1:2 TRANSMISSION 1:1.5 DIRECT APPLIC.

KEY F= MAX FORCE REQUIRED TO MANUALLY MOVE THE DOOR

Dt= DIAMETER OF THE ROPE WINDING DRUM

(*) GRAPH - FIELDS OF APPLICATIONS

To assess correct application of the automated system, measure the force required to lift the door (this value can also be found in the door documentation) and the diameter of the rope winding drum.

The graph will make it possible to determine the possible application of the gearmotor and the need to use a transmission kit for off-axis application (see specific accessories for 540).



Chain winch extension for installations of up to 8 m

390720 Item code

Notes

Item code

• (**) For installation of the gearmotor at heights of up to 4 m. For greater heights, see above Specific accessories.

OTHER ACCESSORIES





Key-operated push-buttons page 166



page 171

Safety devices

page 173



Flashing lamps page 174



Transmitters

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Various accessories page 175

81



The transmission kit for "off axis" applications R. 1:2.0 (*) includes:

- Securing plate of gearmotor including the chain tension adjustment system
- · Pinion Z20 with shaft for installation on the gearmotor
- · Pinion Z40 with shaft for installation on the sectional door shaft
- · Transmission chain

390745 Item code



Button-board XB300

402500 Item code

Rapid release extension for

390719

installations of up to 8 m

Item code

INDUSTRIAL

CE

Gearmotors for industrial sectional doors 230V



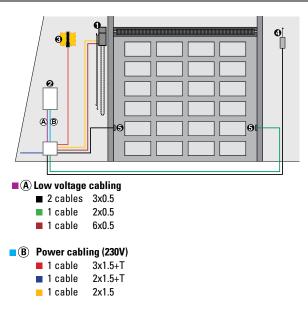
- Ideal for industrial applications with "automatic/semiautomatic logics" command, with a "remote" control unit.
- 2 types of application: by direct transmission on the spring-carrier shaft or indirect by chain transmission (in case of shortage of space at the sides or too short a door shaft).
- The gearmotor is non-reversing. In case of power cut: the door can be moved manually by using the rapid release cord device or (541 V) by activating the chain winch.

Shaft rated torque	50 Nm
Drive max. revs	24
Protection class	IP54
Operating ambient temperature	from -20 °C to +55 °C
Gearmotor max. weight	14 Kg
Type of oil	FAAC HP OIL
Oil quantity	0.91
Dimensions (L x D x H) in mm	92 x 376 x 266

DIMENSIONS AND TECHNICAL SPECIFICATIONS OF 541

Power supply	230 Vac (+6% -10%) 50 (60) Hz		
Electric motor	asynchronus single-phase 1450 r.p.m.		
Max. absorbed power	800 W		
Absorbed current	3.5 A		
Thrust capacitor	20 µF		
Rotation speed	23 r.p.m.		
Thermal protection on winding	140 °C		
Use frequency	40% S3		
Drive	through shaft diam. 25.4 mm (1")		

TYPICAL INSTALLATION EXAMPLE



N.B.: Cable sections in mm ² .	N.B.:	Cable	sections	in	тт².
---	-------	-------	----------	----	------

Ref.	Q.ty	Description	ltem code
0	1	Gearmotor 541 V with integrated encoder	109542
0	1	Control board 578 D	790922
	1	Enclosure mod. E	720119
0	1	Receiver RP 433 SLH	787824
	1	Two-channel transmitter XT2 433 SLH LR	787007
€	1	Flashing lamp FAAC LAMP	410001
Ø	1	Pair of photocells PHOTOBEAM	785163

Notes

ATTENTION: The configuration does not include the safety devices (i.e.: active or passive safety edges) that are to be determined according to the specific "risk analysis" of each installation.

(Ref.: UNI-EN 12445 and 12453 European Standards).

 The indicated price does not include the installation costs and the expenses for masonry, electrical and metalwork preparations.



Model	U:	Se		ltem code
	Applications	Use frequency (%)	Control unit	
541	See graph (*)	40 (S3)	Not included	109543
541 X	See graph (*)	40 (S3)	Not included	109532
541 V	See graph (*)	40 (S3)	Not included	109542

The package 541 includes: a gearmotor with travel limit and integrated encoder, securing plate, "cord operated" emergency release device (**). The package 541 V includes: a gearmotor with travel limit and integrated encoder, securing plate, "cord operated" emergency release device (**), manual motion "chain" device (winch) (**).

The package 541 X includes: a gearmotor with travel limit and integrated encoder, securing plate, manual motion "chain" device (winch) (**).

CONTROL UNITS



Control unit EB 578 D (including board 578D, enclosure, disconnecting switch, control button-board and activation key) <u>ltem cod</u>e 402501



Control board 578 D **Technical specifications page 145**

SPECIFIC ACCESSORIES

790922



Enclosure mod. E for control boards

Item code 720119



for control boards

Item code 720118



Enclosure mod. LM

720309 Item code



Item code

Transmission kit for "Off axis" applications R. 1:1.5 (*)

390744 Item code

Rapid release extension for

installations of up to 8 m

Item code



Transmission kit for "Off axis" applications R. 1:2.0 (*)

390745 Item code

COCC

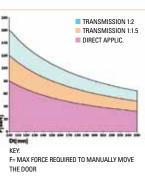
Chain winch extension for

390720

installations of up to 8 m



Enclosure mod. L



Dt= DIAMETER OF THE ROPE WINDING DRUM

(*) GRAPH - FIELDS OF APPLICATIONS

To assess correct application of the automated system, measure the force required to lift the door (this value can also be found in the door documentation) and the diameter of the rope winding drum.

The graph will make it possible to determine the possible application of the gearmotor and the need to use a transmission kit for off-axis application (see specific accessories for 541).

Notes (**) For installation of the gearmotor at heights of up to 4 m. For greater heights, see Specific accessories for the 541.

390719

OTHER ACCESSORIES

Securing plate for three-

dimensional adjustment

Item code

390721



Key-operated

push-buttons page 166



Photocells

page 171

and Columns

Safety devices

page 173



Item code

Flashing lamps page 174



Transmitters

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Various accessories page 175

541 - 3PH

INDUSTRIAL

CE

Gearmotors for industrial sectional doors 230V

(with "remote" control board)



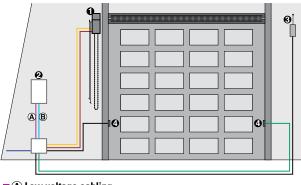
- Ideal for industrial applications with "automatic/semiautomatic logics" command, with a "remote" control unit.
- Capacity 70 Nm.
- 2 types of application: by direct transmission on the spring-carrier shaft or indirect by chain transmission (in case of shortage of space at the sides or too short a door shaft).
- The gearmotor is non-reversing. In case of power cut: the door can be moved manually by using the rapid release cord device or (541 V 3 PH) by activating the chain winch.

DIMENSIONS AND TECHNICAL SPECIFICATIONS OF 541 - 3PH

Power supply	400 Vac (+6% -10%) 50 (60) Hz			
Electric motor	asynchronous three-phase 1450 r.p.m.			
Max. absorbed power	720 W			
Absorbed current	1.1 A			
Rotation speed	24 r.p.m.			
Thermal protection on winding	140 °C			
Use frequency	60% S3			
Drive	through shaft diam. 25.4 mm (1")			

Shaft rated torque	70 Nm
Drive max. revs	24
Protection class	IP54
Operating ambient temperature	-20 °C to +55 °C
Gearmotor max. weight	14 Kg
Type of oil	FAAC HP OIL
Oil quantity	0.9
Dimensions (L x D x H) in mm	92 x 376 x 266

TYPICAL INSTALLATION EXAMPLE



A Low voltage cabling

- 2 cables 2x0.75
- 1 cable 3x0.75
- 1 cable 2x0.75

■ B Power cabling (230V) ■ 1 cable 2x1.5+T

N.B.: Cable sections in mm².

Ref.	Q.ty	Description	ltem code
0	1	Gearmotor 541 V 3 PH with integrated encoder	109550
0	1	Control unit EB540 BPR 3PH	402502
0	1	Receiver RP 433 SLH	787824
	1	Two-channel transmitter XT2 433 SLH LR	787007
Ø	1	Pair of photocells PHOTOBEAM	785163

Notes

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ATTENTION: The configuration does not include the safety devices (i.e.: active or passive safety edges) that are to be determined according to the specific "risk analysis" of each installation.

(Ref.: UNI-EN 12445 and 12453 European Standards).

• The indicated price does not include the installation costs and the expenses for masonry, electrical and metalwork preparations.



541 - 3 PH

Model	Us	se		ltem code	
	Applications	Use frequency (%)	Control unit		
541 3PH	See graph (*)	60 (S3)	Not included	109549	
541 X 3PH	See graph (*)	60 (S3)	Not included	109520	
541 V 3PH	See graph (*)	60 (S3)	Not included	109550	

The package 541 3PH includes: a gearmotor with travel limit and integrated encoder, securing plate, "cord operated" emergency release device (**). The package 541 V 3PH includes: a gearmotor with travel limit and integrated encoder, securing plate, "cord operated" emergency release device (**), manual motion "chain" device (winch) (**).

The package 541 X 3PH includes: a gearmotor with travel limit and integrated encoder, securing plate, manual motion "chain" device (winch) (**).

CONTROL UNITS



Control unit EB 540 BPR 3PH (including board 540 BPR, enclosure, disconnecting switch, remote control switches, control button-board and activation key) Item code 402502

SPECIFIC ACCESSORIES



Transmission kit for "Off axis" applications R. 1:1.5 (*)

Item code



Control unit EB 578 D 3PH

control switches, control

Item code

(including board 578 D, enclosure,

button-board and activation key)

402504

disconnecting switch, remote

Transmission kit for "Off axis" applications R. 1:2.0 (*)

390745 Item code



Securing plate for threedimensional adjustment

390721 Item code



390744

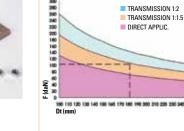
Rapid release extension for installations of up to 8 m

Item code



Chain winch extension for installations of up to 8 m

390720 Item code



KEY F= MAX FORCE REQUIRED TO MANUALLY MOVE THE DOOR Dt= DIAMETER OF THE ROPE WINDING DRUM

(*) GRAPH - FIELDS OF APPLICATIONS

The graph shows with which type of application the 541 3PH model can be installed, considering the maximum force F necessary to manually move the door, expressed in daN (1daN = force required to lift 1.02 kg) and the diameter Dt of the rope-winding drum, expressed in millimetres. For example, if a door can be moved with a force of 108 daN and the drum diameter is 180 mm, a 541 3PH model with chain transmission of 1.15 must be installed.

N.B.: force F can be measured with a dynamometer. It is not directly related to the door weight, but to its balance.

Notes (**) For installation of the gearmotor at heights of up to 4 m. For greater heights, see Specific accessories for the 541 3PH.

OTHER ACCESSORIES



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390719

Key-operated push-buttons



and Columns

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Safety devices

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Transmitters

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