541

with remote control board





Wall mounting bracket

Release device by cords (Mod. 541-541 V)

SPECIFICATIONS

Power supply 230 Vac (+6% -10%) 50-60Hz · Single-phase electric induction motor 1450 rpm · Max absorbed power 800W · Absorbed current 3.5 A · Thrust capacitor 20 μ F · Rotation speed 23 rpm · Winding thermal protection to 140 °C · Use frequency (S3) 40% · Through Shaft diam 25.4 mm (1") drive · Shaft rated torque 50 Nm · Drive max. revs 24 · Protection class IP 54 · Operating ambient temperature - 20°C ÷ + 55°C · Gearmotor maximum weight 14 kg · Oil type FAAC OIL XD 220 · Oil quantity 0.75 I · Transmission by steel worm-screw and bronze ring-gear in oil bath · Die-cast aluminium body · Travel-limit unit with micrometric screw · Rapid release device for manual activation · Built-in encoder (models 541) for control via board 578 D **578 D control board**

Power supply 230 Vac (+6% -10%) 50 Hz • Absorbed power 10 W • Motor max load 1000 W • Accessories max load 0.5 A • Operating ambient temperature -20°C ÷ +55°C • Two Fuses • Function Logics: Automatic/"Stepped" automatic/Semi-automatic/Safety devices/Semiautomatic B / Dead-man C /"Stepped" semi-automatic / Mixed B/C logic • Programmable Work time (from 0 to 4 min.) • Programmable Pause time (from 0 to 4 min.) • Thrust Force Adjustable on 50 levels • Terminal board inputs Open - Partially Open - Opening safety devices - Closing safety devices - Stop - Edge - Power supply + earth - Opening and closing limit-switches - Encoder • On-connector inputs Opening and closing limit-switch • Encoder • Terminal board outputs: Flashing lamp - Motor - 24 Vdc accessories power supply - 24Vdc indicator-light - Timed output - Electric lock command - "traffic lights" - Fail safe • Rapid connector 5-pin card connection for Minidec, Decoder or RP receivers • On-display Programming with three keys • Two programming modes: "basic" or "advanced" • "Basic" mode programmable functions: Function Logic - Function logic - Pause time - Thrust force - Opening-closing direction • "Advanced" mode programmable functions: Torque at initial thrust - Braking - Fail safe - Pre-flashing - Indicator-light/Timed output/Electric lock or "traffic lights" command - Opening and closing safety devices logic - Encoder/Anti-crushing sensitivity - Deceleration - Partial opening time - Worktime - Assistance request - Cycle counter • Status indication: Display • Plastic enclosures compatibility: Mod. E - L - LM

The solution for industrial applications

The 541 gearmotors were specifically designed to satisfy all closing requirements in industrial and commercial environments, and are able to automate sectional doors, large ones included.

Sturdy and safe

The operation of the oil bath gearbox is guaranteed by a steel worm-screw coupled to a bronze ring-gear, enclosed in a solid die-cast aluminium body.

The gearmotor is non-reversing. In the event of a power cut, the door can be moved manually by using the "rapid" release cord device (standard supply for all models) or, in the 541 V versions, by manually activating the chain winch. If one of the two manual activation systems is activated, a safety microswitch prevents electrical operation.

The importance of versatility

The gearmotors were conceived for lateral fitting with "direct" transmission on the spring shaft, or with "indirect" transmission by chain.

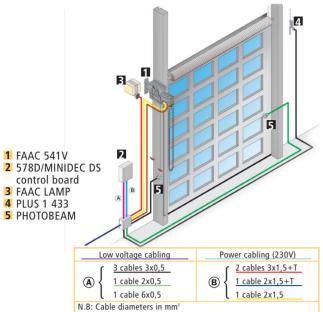
The latter application make it possible to increase the automated system's versatility, enabling use even if lateral space is insufficient, or for particularly heavy doors.

The gearmotor is highly compact, in particular its width of only 92 mm makes it easy to install even where space is tight.

The use frequency of the gearmotors (almost intensive) means that they can be used also for particularly heavy duty cycles.



INSTALLATION LAYOUT



Technical specifications of gearmotors 541				
Power supply	230 Vac (+6% -10%) 50 (60) Hz			
Electric motor	single-phase induction 1450 rpm			
Max absorbed power	800 W			
Absorbed current	3.5 A			
Thrust capacitor	20 μF			
Rotation speed	23 rpm			
Winding thermal protection	140° C			
Use frequency	40% S3			
Drive	Through shaft diam. 25.4mm (1")			
Shaft rated torque	50 Nm			
Drive max revs	24			
Protection class	IP54			
Operating ambient temperature	-20°C ÷ +55°C			
Gearmotor max weight	14 Kg			
Type of oil	FAAC OIL XD220			
Oil quantity	0.75 l			

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- 1 Three-dimensional adjustment plate (optional)
- Limit switch assembly
- 3 Release device by cards (Mod.
- 541 541 V) 4 Chain winch

CE

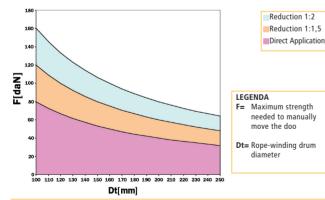
(Mod. 541 V and 541 X)



Specifications of 578 D control board

(For 541 models-installation in "remote")			
Power supply	230 Vac (+6%-10%) 50 Hz		
Absorbed power	10 W		
Motor max. load	1000 W		
Accessories max. load	0,5 A		
Operating ambient temperature	-20°C ÷ +55°C		
Fuses	2		
Function logics	Automatic/"Stepped"		
	automatic/Semi-automatic/		
	Safety/Semi-automatic B/Dead-		
	man C/ "Stepped" semiautomatic		
Work time	Programmable (from 0 to 4 min)		
Pause time	Programmable (from 0 to 4 min)		
Thrust force	Adjustable over 50 levels		
Terminal board inputs	Open/Partially Open/Opening		
	safety devices/Closing safey		
	devices/Stop/Edge/Power supply		
	+ earth		
On-connector inputs	Opening and closing travel-limit/		
	Encoder		
Terminal board outputs	Flashing lamp - Motor - 24Vdc		
	power supply to accessories -		
	24Vdc indicator-light/Timed		
	output - Failsafe		
Rapid connector	5-pin card connection for		
	Minidec, Decoder or RP receivers		
Programming	Nr. 3 keys(+,-,F) and display,		
	"basic" or "advanced" mode		
"Basic" mode	Function logic - Pause time -		
programmable functions Thrust force - Gate direction			
"Advanced" mode	Thrust torque - Braking - Failsafe		
programmable functions	- Pre-flashing - Indicator-light/		
	Timed output - Opening and		
	closing safety devices logic -		
	Encoder (optional) for anti-		
	crushing electronic safety device,		
	management of slowdowns and		
	partial opening in real-time -		
	Slowdowns - Partial opening		
	time - Work time - Assistance		
	request - Cycle counter		

(*) GRAPH- APPLICATION RULES In order to evaluate the correct operator application you need to measure first the required strength to lift the door (value normally indicated of the door documentation) and then the rope-winding drum diameter. The graph will allow to determine the possible application of the gear motor and the eventual need of a "out of the axis" reduction kit (see specific accessories needed for 541)



Model		Jse	Control board
WOUCI	Applications	Use frequency %	Control board
541	See graphic (*)	40% (S3)	Not included
541 V	See graphic (*)	40% (\$3)	Not included
541 X	See graphic (*)	40% (S3)	Not included



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