

# 412 COMPACT - 24 Vdc

## **electro-mechanical automated system** **low voltage for two-leaf swing gates** **with single-leaf length of 1.8 m (3 m with electric lock)**



### **EASY PROGRAMMING: SELF-LEARNING**

To "initialise" the automated system, just carry out the SETUP operation, selecting a suitable dipswitch. The following parameters are automatically self-learned during this operation:

- **Opening/closing times**
- **Pause time**
- **Traction/thrust force**
- **Deceleration at end of opening and closing**
- **Soft Start (starting at gradual speed)**

### **SAFETY: ANTI-CRUSHING ELECTRONIC DEVICE**

Continuously controlled electronic clutch, active at both opening and closing

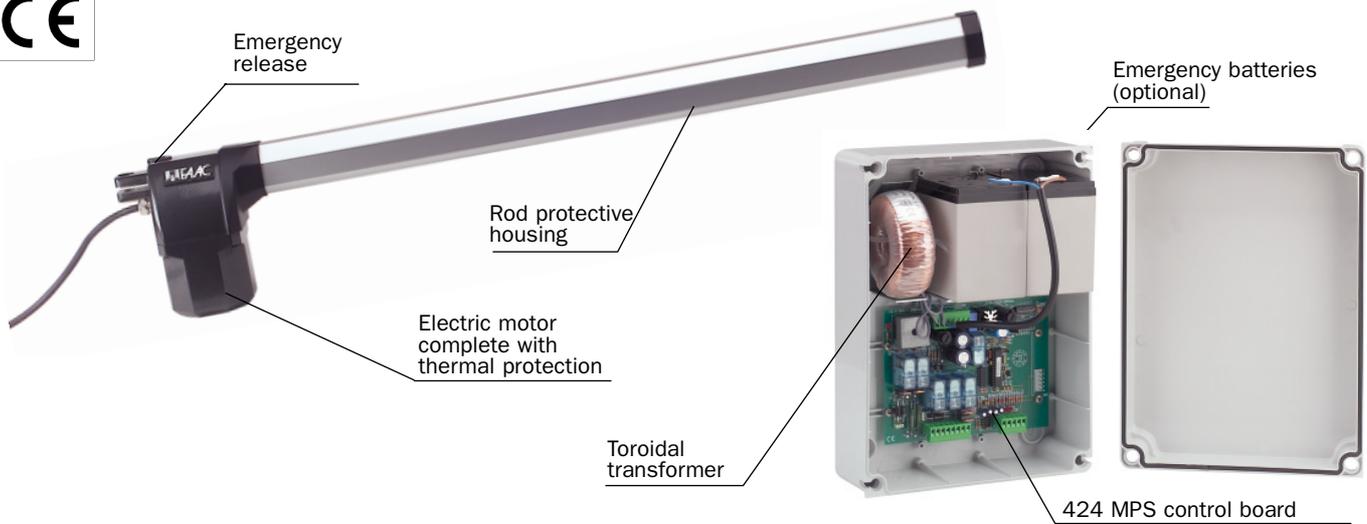
- Two sensitivity levels
- Movement reversed in case of an obstacle
- Emergency stop function (if clutch operates for two consecutive cycles)

### **BLACK OUT: EMERGENCY OPERATION**

Emergency battery (optional) ensuring operation during a power cut (15 cycles max)

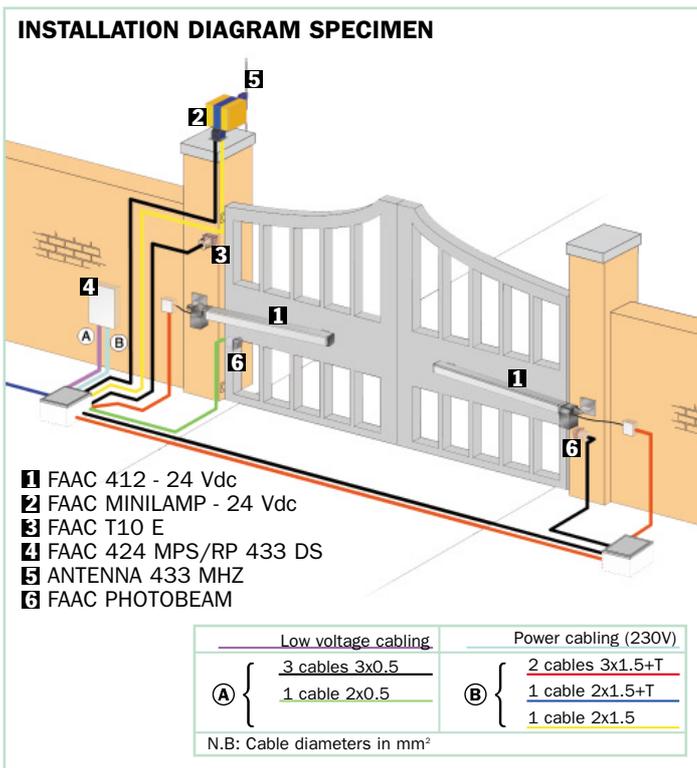
### **SPECIFICATIONS**

Low voltage, non reversing, electro-mechanical screw operator for swing gates • Leaf max length 1.8 m (3 m with electric lock) • Max use frequency 50 cycles/hour • Pillar installation • Leaf opening inwards or outwards • Max opening angle 110° • Max traction/thrust force of 250 daN • Rod speed 1.6 cm/s • Rod effective stroke 290 mm • Electric motor power supply 24 Vdc • Electric motor power 70 W • Overall dimensions (Length x Width x Height) 1,000x90x195 mm • Protection class IP44 • Operating ambient temperature -20°C +55°C • Built-in release device with hexagonal key • Motor body transversally located, and painted • Screw housing in anodised aluminium • Self-learning of: Opening/closing times - Pause time - Traction/thrust force - Travel limit deceleration • Soft Start (starting at gradual speed) • Emergency battery (optional)



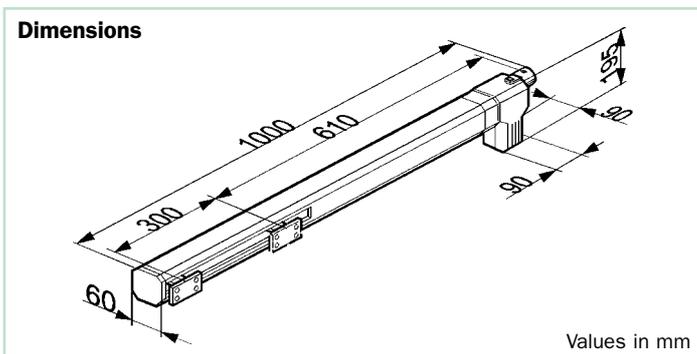
Model	Single leaf max length (m)	Nr. of leaves	Use frequency (cycles/hour)
412 COMPACT	1.80 (3 m with electric lock)	2	50

Emergency batteries (optional)	
Voltage/current	12 V/4,5 Ah
Dimensions	90 x 70 x 108 mm
Nr. of opening/closing operations	15 max



Technical specifications of 412 - 24 Vdc operator	
Power supply	24 Vdc
Power	70 W
Absorbed current	3 A
Electric motor	1.400 rpm
Traction and thrust force	0 - 250 daN
Rod max stroke	300 mm
Rod extension speed	1,6 cm/s
Operating ambient temperature	-20°C +55°C
Weight	6,5 kg
Protection class	IP 44

Specifications of 424 MPS control board	
Power supply	22 Vac (+6% -10%) 50 (60) Hz
Absorbed power	3 W
Motors maximum load	2 x 70 W
Accessories max load	24 Vdc 500 mA
Flashing lamp max load	24 Vdc 15 W max
Operating ambient temperature	-20°C + 55°C
Protection fuses	3.15A/250V (logic/accessories output) 10 A/250V (motors)
Function logics	Automatic / "Stepped" semi-automatic
Electronic clutch	Two levels (dip-switch selectable)
Opening/closing times	Self-learning
Pause times	Self-learning
Leaf opening delay	2 s
Leaf closing delay	4s/12s (dip-switch selectable)
Deceleration	At opening and closing (self-learning)
Transformer	Toroidal- 230 Vac/22 Vac - 150 VA
Enclosure dimensions	305 x 225 x 125 mm
Protection class	IP 55



**Terminal board inputs**  
 22Vac power supply / Batteries power supply / Total opening / Independent opening / Safety devices / Stop / System earth

**Terminal board outputs**  
 24 Vdc power supply for accessories/24 Vdc motors/Electric lock/24 Vdc flashing lamp

**Rapid connector**  
 Card receivers/Decoding cards