

# 820 EMC

## **gearmotor** for sliding gates with max weight of 600 kg



### **GUARANTEED LONG-LIFE**

Constant oil-bath lubrication of mechanical components plus assembly in a high resistance pressure-cast, enbloc aluminium body ensure a very long life.

### **ELECTRONICS CONTROLLING SAFETY**

Safety is guaranteed by a special anti-crushing clutch in oil-bath, with thrusts adjustment from 0 to 50 daN, and by an electronic device (standard supply) which, when it detects the presence of an obstacle, reverses gate closing movement and stops the gate as it opens.

### **MAXIMUM ACCESS FLEXIBILITY**

Thanks to high-tech electronics, there is a separate opening facility for pedestrians, which offers maximum access flexibility. The gate stopping positions are stored at installation, and therefore, there is no need to install mechanical devices on the gate frame.

### **GRADUAL DECELERATION**

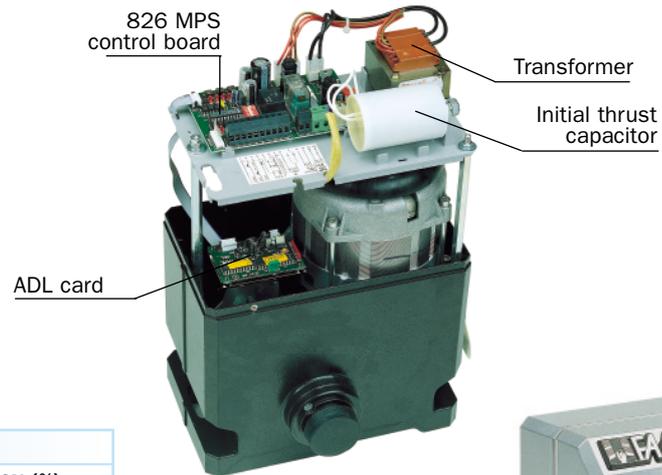
The microprocessor which commands gradual electronic deceleration (FAAC's exclusive patent), stops the gate gently and silently. All electronic equipment is housed inside the gearmotor, to facilitate and speed up installation at lower cost.

### **NON REVERSING**

As the gearmotor is non reversing, no electric locks need be installed and, in the event of power failure, the release device enables the gate to be opened and closed manually. The device is also available with a customised key.

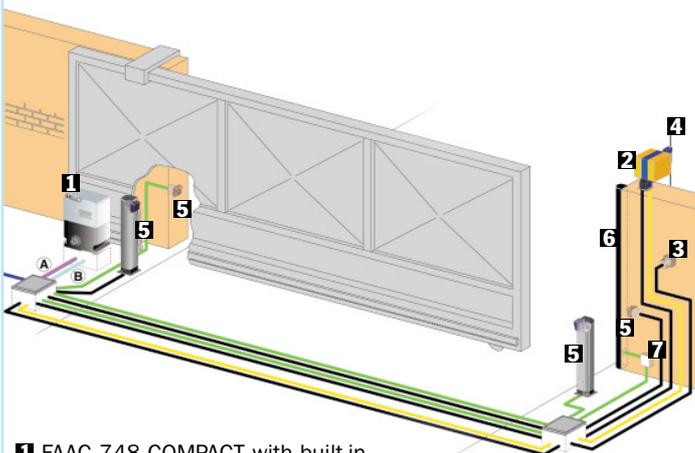
### **820 EMC Z20 CR SPECIFICATIONS**

Non-reversing screw gearmotor • Gate max. weight 600 Kg • Gate max length 13 m • Gate speed 12 m/min • Max. use frequency 30% • Max thrust 50 daN • Electric motor power supply 230 V (+6% -10%) - 50 (60) Hz • Electric motor power 400 W • Thermal protection at 135°C built into motor winding • Operating ambient temperature -20°C +55°C • Protection class IP 44 • Release device activated by lever or customised key (optional) • Self-ventilated single-phase electric motor with two rotation directions (1.400 rpm) • Pinion Z 20/module 4 • Enbloc base in pressure-cast aluminium with cathaphoresis treatment • Steel cover, polyester painted • Single-disk clutch in oil bath • Anti-crushing safety to UNI 8612 standard • Clutch adjustment with Allen spanner • Galvanised foundation plate with side and height adjustment (optional) • Dimensions (L x W x H) 235 x 221 x 382 (mm) • Built-in control board • Control board protective housing • Programmable electronic limit-switch without on-gate fittings • Obstacle detection electronic device • Travel-limit electronic deceleration • 24 Vdc - 500 mA max. output for accessories • Microprocessor control • 3 protection fuses (motor/accessories - transformer) • Connector for card receiver/decoding cards • Separate high and low voltage terminal boards • Input and alarm status signalling LEDs • Programming Dip Switches • Braking control trimmer • Automatic (A1-A2-S1-S2), semi-automatic (E1-E2) and "dead-man" function logics (B-C) • Pause times in selection range of 5 s to 180 s (Dip Switches) • Selectable 5 s pre-flashing (Dip Switch) • Inputs: closing safety devices, stop push-button, total opening push-button, partial opening push-button • Outputs: power supply for accessories, motor, flashing lamp and indicator-light



Model	Use	
	Max weight (kg)	Use frequency (%)
820 EMC Z20 CR	600	30
820 EMC	600	30
820 EMC RF	600	30

### INSTALLATION DIAGRAM SPECIMEN

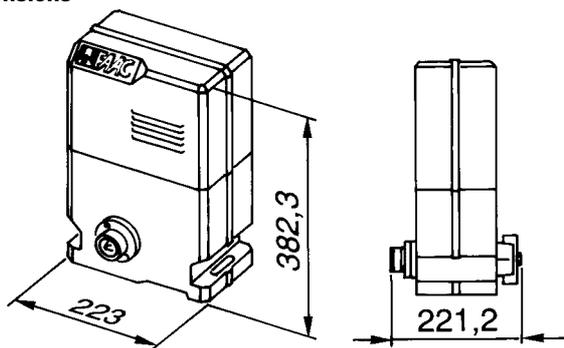


- 1 FAAC 748 COMPACT with built-in control board/RP 433 DS
- 2 FAAC MINILAMP
- 3 FAAC T10 E
- 4 ANTENNA 433 MHZ
- 5 FAAC PHOTOBEAM
- 6 PNEUMATIC EDGE S 30
- 7 JUNCTION BOX with pressure switches

Low voltage cabling		Power cabling (230V)	
A	3 cables 3x0.5	B	1 cable 2x1.5+T
	2 cables 2x0.5		1 cable 2x1.5

N.B: Cable diameters in mm<sup>2</sup>

### Dimensions



Values in mm



Technical specifications 820	EMC Z20 CR	EMC	EMC RF
Power supply	230 V~ (+6% -10%) 50 (60) Hz		
Absorbed power	400W		
Absorbed current	2 A		
Traction and thrust force	0÷50 daN		
Motor rotation speed	1.400 rpm		
Reduction ratio	1:30		
Operating ambient temperature	-20°C +55°C		
Weight with oil	14 kg		
Type of oil	FAAC OIL XD 220		
Gate speed	12 m/min. (Z20)		
Gate maximum length	13 m		
Thermal protection on motor winding	135°C		
Protection class	IP 44		
Electric motor	Self-ventilated single-phase, bi-directional		
Clutch	Single-disk, oil-bath		

### Specifications of 826 MPS control board

Power supply	230 V~ (+6% -10%) 50 (60) Hz
Motor maximum load	600W
Accessories output	24 Vdc 500 mA max
Operating ambient temperature	-20°C +55°C
Three protection fuses	0,25 A (SMT) transformer 5 A motor - 1,6 A accessories

- SMT Technology
- Programmable functions
  - Eight function logics - Pause times
  - Operation of indicator-light - Pre-flashing
- Pedestrian opening
- Analogic Digital Limit-(ADL)
- Travel-limit electronic deceleration
- Obstacle detection electronic device
- Input and alarm signalling LEDs
- Indicator-light output