# 844 MC THREE-PHASE
gearmotor
for sliding gates
with max weight of 2.200 kg (Z12)

IDEAL FOR COMMERCIAL OR INDUSTRIAL GATES

The FAAC 844 gearmotor was designed to move the heaviest commercial or industrial gates in the simplest, most convenient way.

TOTAL SAFETY

The special twin-disk anti-crushing clutch, in oil bath, enables torque adjustment from 0 to 62Nm. As the gearmotor is non reversing, no electric locks need be installed and, in the event of power failure, the key-operated release device makes it possible to open and close the gate manually.

LONG LIFE

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

DEDICATED ELECTRONICS

The FAAC 844 MC THREE-PHASE gearmotor can be controlled by an electronic dedicated card with microprocessor, known as 844 T. It integrates the contactors and has an electronic braking device ensuring immediate gate stop.

844 MC THREE-PHASE SPECIFICATIONS

Non-reversing screw gearmotor • Gate maximum weight 2,200 Kg (Z12)/1.600 Kg (Z16) • Gate speed 7.2 m/min (Z12)/9.5 m/min (Z16) • Use frequency max. 60% • Max torque 62 Nm • Electric motor power supply 400 V (3ph) (+6% -10%) - 50 (60) Hz • Electric motor power 950 W • Operating ambient temperature -20°C +55°C • Protection class IP 44 • Lever operated release device with coded key • Inductive limit-switch • Lower and upper half-body in pressure cast aluminium with cataphoresis treatment • Twin-disk clutch in oil-bath • Anti-crushing safety to UNI 8612 standards • Opening/closing force adjustable by hexagonal key • Galvanised foundation plate with side and height adjustment (optional) • Dimensions (L x W x H) 280 x191 x 385 (mm) • Cover in ABS with triangular key

844 T electronic card

Electronic card with limit-switch inputs for controlling three-phase gearmotors for sliding gates • Power contactors • Motor max load of 1.3 KW • 24 Vdc - 500 mA max. output for accessories • Microprocessor control • 2 protection fuses (motor/accessories) • Inputs status signalling LEDs • Connector for card receiver/decoding cards • Separate high and low voltage terminal boards • Inputs status signalling LEDs • Programming Dip Switches • Electronic braking device • Automatic (A1-A2-S1-S2), semi-automatic (E1-E2) and dead-man (B-C) function logics • Two logics for safety devices (Dip Switches) • 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/closing push-button, limit-switch • Outputs: power supply for accessories, motor, flashing lamp and indicator-light

Control board

Breather screw

Inductive limit-switch

Pinion

Enclosure lock

Cover

Screw cover

Release device with customised key

Base in pressure cast aluminium with cataphoresis treatment
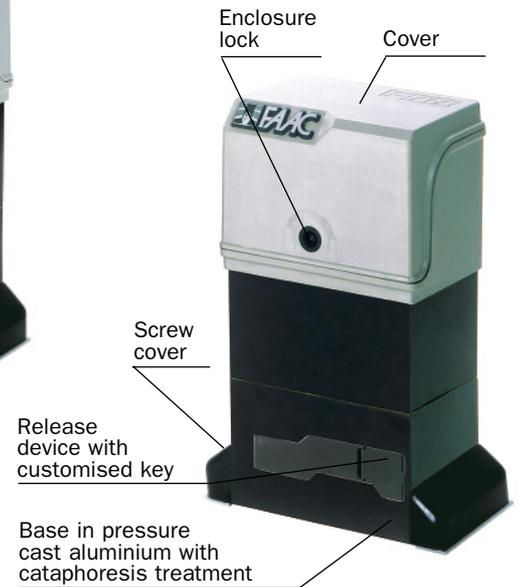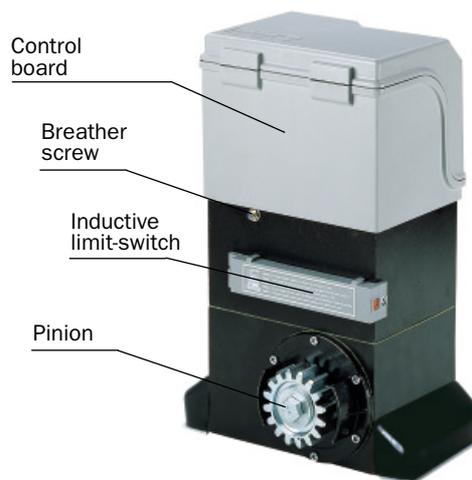
Model	Use	
	Max weight (kg)	**Use frequency (%)**
844 MC THREE-PHASE	2.200 (Z12) 1.600 (Z16)	60

INSTALLATION DIAGRAM SPECIMEN
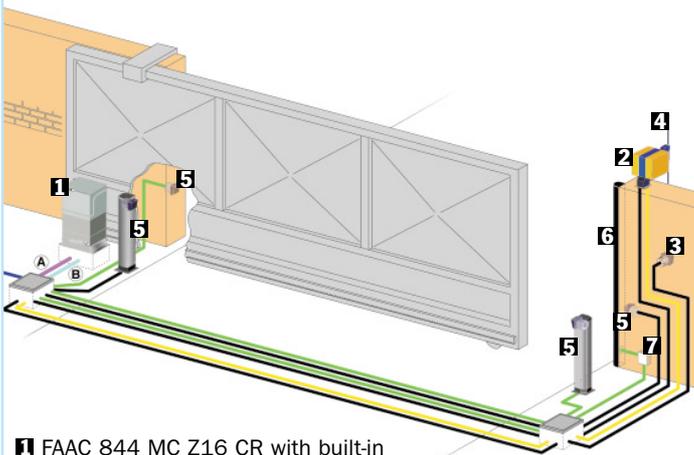
1 FAAC 844 MC Z16 CR with built-in control board/MINIDEC DS
2 FAAC MINILAMP
3 FAAC T10
4 FAAC PLUS 433 E
5 FAAC FOTOSWITCH
6 SAFETY EDGE
7 JUNCTION BOX with pressure switches

	Low voltage cabling	Power cabling (230V)	
A {	4 cables 3x0,5	B {	1 cable 2x1,5+T
	3 cables 2x0,5		1 cable 2x1,5

N.B.: Cable diameters in mm²

Technical specifications	844 MC THREE-PHASE
Power supply	400V (3ph)(+6%-10%) 50 (60) Hz
Absorbed power	950W
Absorbed current	2.5 A
Motor rotation speed	1.400 rpm
Reduction ratio	1:30
Operating ambient temperature	-20°C +55°C
Weight with oil	15 kg
Protection class	IP 44
Type of oil	FAAC OIL XD 220
Gate speed	9.5 m/min (Z16)/7.2 m/min (Z12)
Max torque	62 Nm
Limit-switch	Inductive with plate
Clutch	Twin disk in oil-bath
Protective treatment	Cataphoresis

Dimensions

205
844
385
246.5
145
186
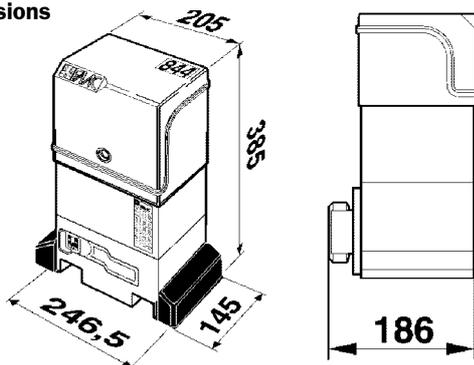
Values in mm

Specifications of 844 T control board	
Power supply	230 V 3ph (+6% -10%) 60 Hz 400 V 3ph+N (+6% -10%) 60 Hz
Motor maximum load	1300 W
Accessories output	24 Vdc 500 mA max
Operating ambient temperature	-20°C +55°C
Power supply to indicator-light	24 V~ (5W max)
Two protection fuses	5 A transformer 1.6 A accessories
Safety timer	255 seconds
Motor braking	fixed

- **Inputs** - Open, partially open, stop, closing safety devices, limit-switch
- **Outputs** - Indicator-light, flashing lamp, motor, 24 Vdc power supply for accessories
- **Programming** - Pause time (5/10/15/30/60/120/180 sec.), Logics A1/A2/S1/S2/E1/E2/B/C, pre-flashing