

FALCON m14 m20 m20^{3Ph}

THE POWER OF SIMPLE THINGS

- FALCON M14 and FALCON M20 are electro-mechanical gearmotors for moving heavy sliding gates.
- A sturdy gearmotor, safe and silent, compact design.
- Body wholly in painted cast aluminium, motor fully protected.
- Magnetic limit-switch designed by Genius, entirely protected.
- Practical release system allows to be spotted immediately and to be activated only by a lock with a personalised key.

POWER IS ALSO OBTAINED THROUGH PRECISION

- The innovative solutions adopted for transmitting motion make these gearmotors suitable for heavy duty use.
- The gearmotors equipped with a pre-wired board with transparent protection, have a rotating board support to facilitating access for programming.
- The "C" versions, with Genius integrated control board, have easy-to-understand on-display programming. A set of functions such as the electronic clutch, the slow-downs, braking, and separate inputs for accessories, put it at the top of the market.
- The M20 3Ph version is not equipped with a electronic and/or mechanical clutch.



FIELD OF APPLICATION

- Available in several versions: 230V / 115V / 400V.
- Recommended for sliding gates weighing up to 2000 kg.

DIMENSIONS



340 mm



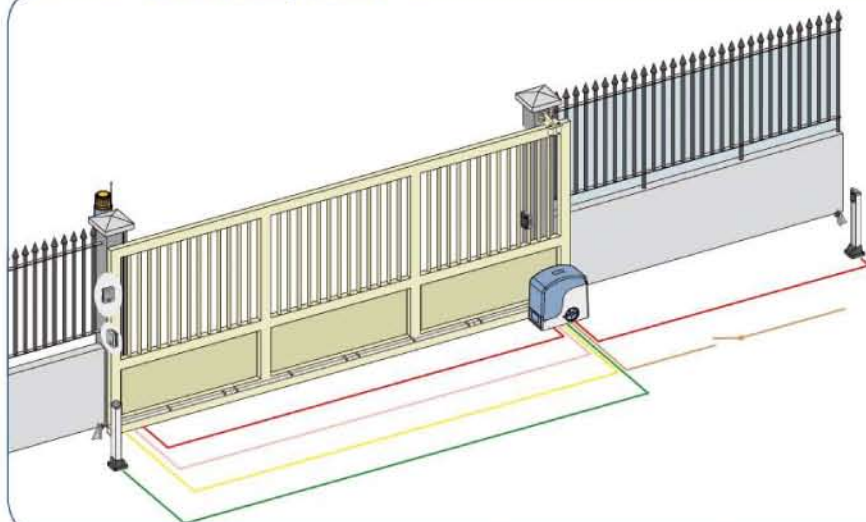
330 mm

225 mm

91 mm

Model	Version
Falcon M14	Non-reversible max. 1400 Kg
Falcon M14 C	Non-reversible max. 1400 Kg with integrated control board
Falcon M20	Non-reversible max. 2000 Kg
Falcon M20 C	Non-reversible max. 2000 Kg with integrated control board
Falcon M20 3Ph	Non-reversible max. 2000 Kg

Electric wiring scheme



Line	3x1,5 mm ²
Motor	4x1,5 mm ²
Blinker	2x1,5 mm ²
Key-operated selector	2x0,5 mm ²
Tx photocells	2x0,5 mm ²
Rx photocells	4x0,5 mm ²
BUS connections	2x0,5 mm ²

ACCESSORIES



RACK

RACK 1 meter in galvanised iron, 30 x 12 mm, module 4 without fittings. (6 m package). Price per meter.



SPACERS

KIT of 18 spacers and securing screws M8x30, for welding, 6 meters of iron rack.



SPACERS

KIT of 18 spacers and securing screws M8x50, for screwing, 6 meters of iron rack.



ENCODER

ENCODER with revs measurement on the input shaft, for greater control of forces, and reverses motion in case of impact. Raised repetition of positioning during opening/closing stops.

CONTROL BOARDS



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Technical specifications	Falcon M14	Falcon M20	Falcon M20 3Ph
Power supply [Vac]	230		400
Power [W]	650	800	840
Current [A]	2.80	3.5	2.2
Heat protection [°C]	140		-
Capacitor [µF]	16	20	-
Max. torque [Nm]	35	45	60
Thrust on pinion [daN]	110	150	185
Type of pinion gear	Z16 modulo 4		
Max. gate weight[Kg]	1400	2000	
Speed [m/min]	10		
Type and frequency of use at 20 °C	S3 - 40%		S3 - 50%
Indicative hour cycles at 20°C ⁽¹⁾	≥24		≥28
Operating ambient temperature	-20°C +55°C		
Operator weight [Kg]	14	15	
Protection class	IP44		

⁽¹⁾ number of cycles for a gate, installed correctly at the dimensions indicated in the installation instructions and without slow-downs.