

GEARMOTOR FOR SLIDING GATES

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

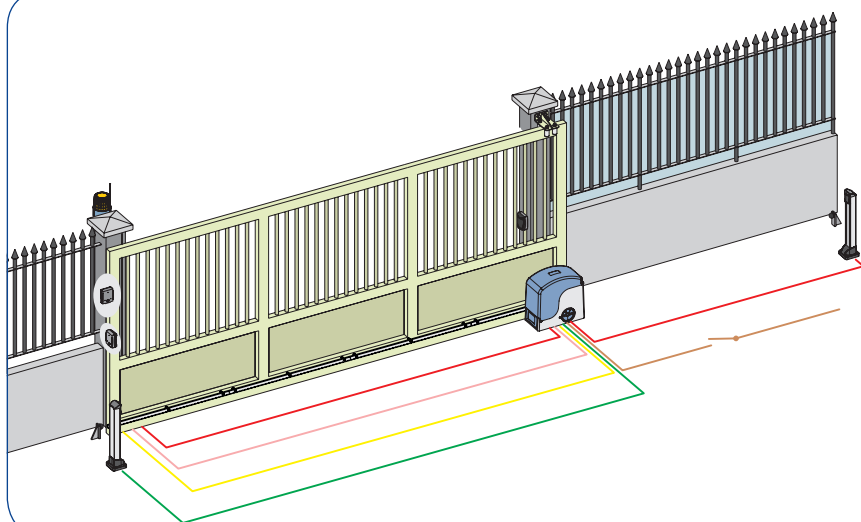
225 mm

91 mm

| Model | Version | Pcs./Pallet | Code | € |
|----------------|---|-------------|---------|---|
| FALCON M14 | Non-reversible max. 1400 Kg | 27 | 6110001 | |
| FALCON M14 C | Non-reversible max. 1400 Kg with integrated control board | 27 | 6110002 | |
| FALCON M20 | Non-reversible max. 2000 Kg | 27 | 6110021 | |
| FALCON M20 C | Non-reversible max. 2000 Kg with integrated control board | 27 | 6110022 | |
| FALCON M20 3PH | Non-reversible max. 2000 Kg | 18 | 6110051 | |

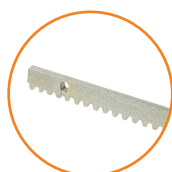
GENIUS 74

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.

CODE
JA146



SPACERS

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

CODE
JA147



SPACERS

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

CODE
JA148

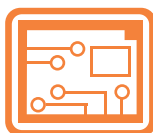


ENCODER

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.

CODE
6100013

CONTROL BOARDS



SPRINT 382 (Page 114)
GEO 05 (Page 119)

| 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.

DEVICES



Obstacle
detections (page 122)



Safety
(page 124)



Radio controls
(page 126)



Control
(page 128)

GENIUS 75

sliding gates

