

Matrix

Rack-driven motor for large sliding industrial gates in continuous duty conditions up to 2500 kg.

230V - 48V

Ideal solution for industrial and heavy duty applications.

M4 inox cogwheel fitted on all systems, M6 inox cogwheel available as optional.

Double start capacitor for extra-power during slowdown.

Designed to fit both mechanical and magnetic limit switches.

Embedded control board fitted on the upper side of the motor.

Screen and programming keys protected to prevent accidental contacts.

Smart adaptive torque technology, obstacle detection managed by "Hall effect" encoder system.

Electronic inertia control.

MEMO ADAPTIVE technology to fit in different weather conditions and to overcome friction changes, avoiding false-stop faults.

TWINNING function to synchronize two mirror sliding gates

BRUSHLESS (R)EVOLUTION

6-STEPS digital motor for very heavy duty settings.

HI-SPEED version with adjustable opening speed up to 20 m/minute for gates up to 1800 kg. A back-up battery kit can be integrated on board.



Sliding Gate Automation



PROTECO S.r.l.
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Made in Italy



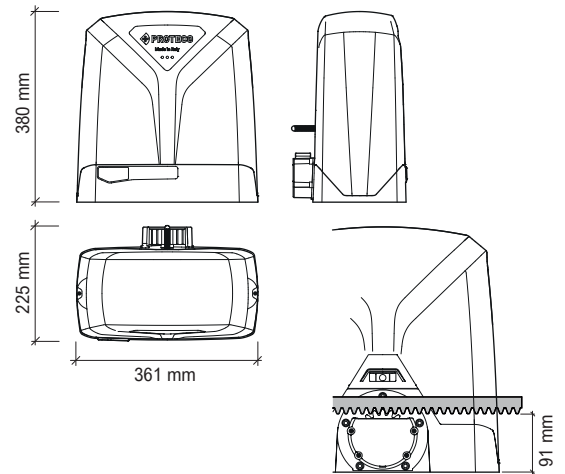
THE RANGE

	Motor	Limit switch	Use	Leaf
MATRIX 25	230V	mechanical/magnetic	semi-intensive	2500 Kg
MATRIX 18	230V	mechanical/magnetic	semi-intensive	1800 Kg
MATRIX BLDC	48V Brushless	mechanical/magnetic	intensivo	2500 Kg
MATRIX HS	48V Brushless	mechanical/magnetic	hi-speed	1800 Kg

TECHNICAL FEATURES

	230V 50/60 Hz	230V 50/60 Hz	230V 50/60 Hz	230V 50/60 Hz
Power supply	230V 50/60 Hz	230V 50/60 Hz	230V 50/60 Hz	230V 50/60 Hz
Start-up current	6 A	4,5 A	4,5 A	3 A
Rated current	2,5 A	2 A	1,4 A	1,3 A
Motor voltage	230V 50/60 Hz	230V 50/60 Hz	48V dc	48V dc
Rated power	550 W	500 W	350 W	300 W
Start-up capacitor	25 µF	30 µF	—	—
Standard capacitor	25 µF	20 µF	—	—
Start-up thrust	2000 N	1400 N	1600 N	1400 N
Rated thrust	1100 N	900 N	1000 N	700 N
Thermal cut-off	150° C	150° C	—	—
Max. opening speed	11 m/min	11 m/min	13 m/min	20 m/min
Max. leaf weight	2500 kg	1800 kg	2500 kg	1800 kg
Duty cycle	50%	50%	80%	80%
Operating temperature	-30°C + + 55°C	-30° C + + 55°C	-30°C + + 55°C	-30°C + + 55°C
IP rating	44	44	44	44
Motor weight	18,5 kg	16 kg	16,5 kg	16,5 kg

DIMENSIONS



CONTENT



MATRIX
Gear motor



PPIS0690
Ground plate and
fittings



Q90SA/Q90SH
Control board integrated
with plug-in radio receiver

OPTIONAL ACCESSORIES



B102
Galvanized metal rack
12x30x1000 mm



M6
inox cogwheel



LUCE
LED 24V
flashing light



RF40
Photocell



IKON
4-ch remote
control



ANT02
Stand-alone
antenna



RS15
Key switch



CM24 - CM25
Certified resistive
safety edge



Q BAT 3.2
Battery 12V
3.2Ah.



BKBT003
Battery charger for
Matrix brushless



RT37
Wireless keypad

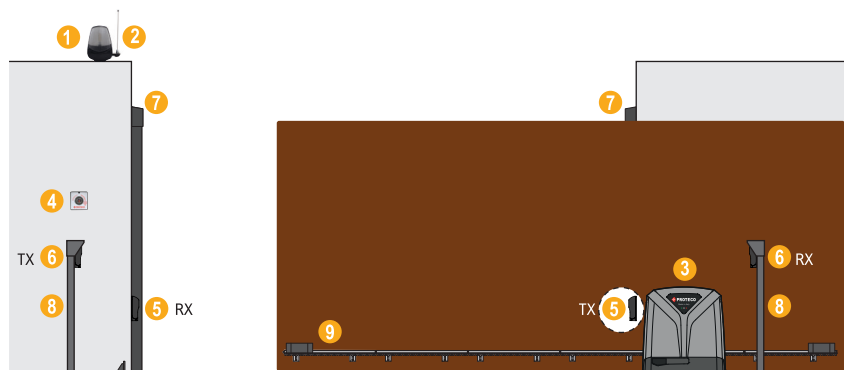


RT42
Polycarbonate
keypad, backlit keys



RT40
Vandal-proof keypad
with tag reader

INSTALLATION MAP



- 1_Flashing light
- 2_Outstanding antenna
- 3_Gear motor complete with control board and radio receiver
- 4_Key switch
- 5_Outer photocell
- 6_Inner photocell
- 7_Safety strip
- 8_Photocell posts
- 9_Rack