

value to time

Abreast of the times,
reliable over time

The sliding gate is the perfect solution to optimize space, where there is not enough room for the swing door.

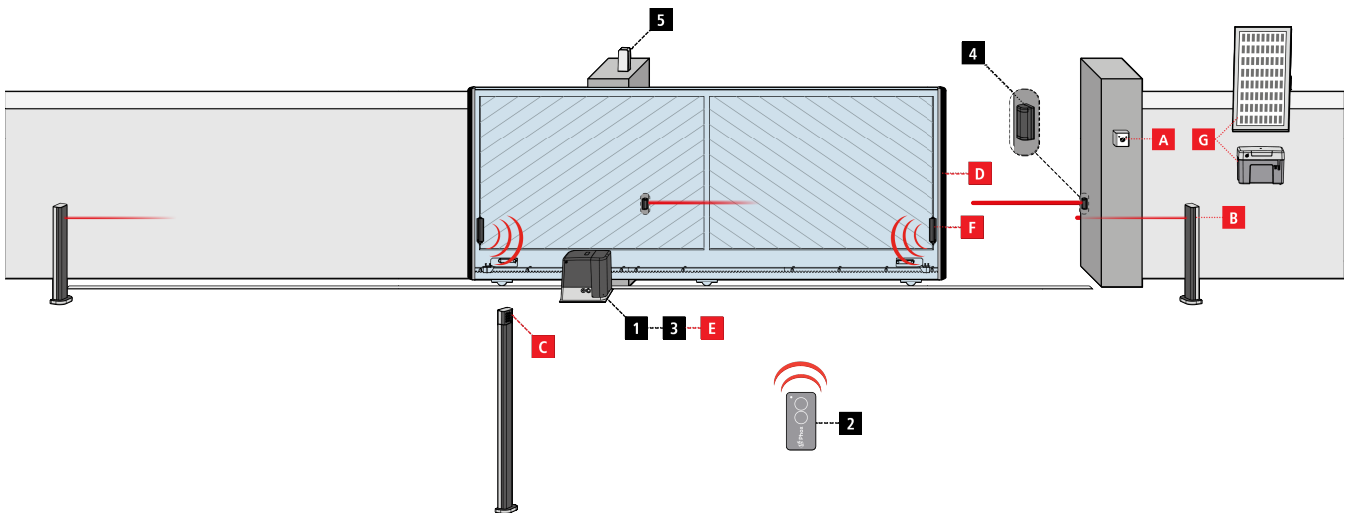
V2 automation systems are customized according to the weight and size of the gate, so as to withstand over time in any weather condition.

MOTORS FOR **SLIDING GATES**



EXAMPLE SYSTEM MOTORS FOR SLIDING GATES

22|35



COMPONENTS

- 1** Motor
- 2** Transmitter
- 3** Receiving module
- 4** Photocells
- 5** Flashing light

ADDITIONAL ACCESSORIES

- A** Key switch
- B** Pillar photocells
- C** Pillar-mounted digital radio switch
- D** Safety edges
- E** WES-ADI module (via radio management of edges)
- F** WES sensors
- G** ECO-LOGIC system

CABLE TO BE USED

LENGTH OF THE CABLE	< 10 metres	from 10 to 20 metres	from 20 to 30 metres
Power supply (230V)	3G x 1.5 mm ²	3G x 1.5 mm ²	3G x 2.5 mm ²
Power supply (230 - 400V)	4G x 1.5 mm ²	4G x 1.5 mm ²	4G x 2.5 mm ²
Photocells (TX)	2 x 0.5 mm ²	2 x 0.5 mm ²	2 x 0.5 mm ²
Photocells (RX)	4 x 0.5 mm ²	4 x 0.5 mm ²	4 x 0.5 mm ²
Key switch	2 x 0.5 mm ²	2 x 0.5 mm ²	2 x 0.5 mm ²
Flashing light	2 x 1.5 mm ²	2 x 1.5 mm ²	2 x 1.5 mm ²
Antenna (integrated into the flashing light)	RG174	RG174	RG174
ECO-LOGIC (accumulator unit)	2 x 1.5 mm ²	-	-
ECO-LOGIC (solar panel)	2 x 1 mm ²	-	-

INDEX OF PRODUCTS

MOTORS FOR SLIDING GATES



Electromechanical for RESIDENTIAL USE

22|23 **alfariss**

24|25 **alfariss kit**

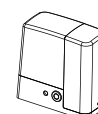


26|27 **ayros**

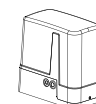
28|29 **ayros kit**



30|31 **forteco**

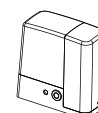


32|33 **forteco-2200-m**

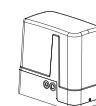


Electromechanical for INDUSTRIAL USE

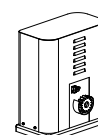
30|31 **forteco 2500-I**



32|33 **forteco-2500-I-m**



34|35 **hyperfor**



SELECTION GUIDE MOTORS FOR SLIDING GATES



22|35

RESIDENTIAL USE

24V — digital control unit — magnetic limit switch — encoder —

230V — digital control unit — magnetic limit switch — encoder —

INDUSTRIAL USE

230V — digital control unit with inverter — { magnetic limit switch — encoder —
mechanical limit switch —

400V — digital control unit — mechanical limit switch —



gates up to 200 Kg	fast motor	→	alfariss 200D-24V-F	22 23
gates up to 300 Kg		→	alfariss 300D-24V	22 23
gates up to 500 Kg	fast motor	→	ayros 500D-24V-F	26 27
gates up to 600 Kg		→	ayros 600D-24V	26 27
gates up to 1000 Kg		→	ayros 1000D-24V	26 27

gates up to 400 Kg		→	ayros 400D-230V	26 27
gates up to 800 Kg		→	ayros 800D-230V	26 27
gates up to 1200 Kg		→	ayros 1200D-230V	26 27
gates up to 1800 Kg		→	forteco 1800-230V	30 31
gates up to 2200 Kg		→	forteco 2200-230V	30 31
gates up to 2200 Kg		→	forteco 2200-230V-M	32 33

gates up to 2500 Kg	→	forteco 2500 - I	30 31
	→	forteco 2500 - I - M	32 33

gates up to 4000 Kg	→	hyperfor 4000 - I	34 35
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gates up to 4000 Kg	→	hyperfor 4000	34 35
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alfariss

24V irreversible electromechanical rack actuator motor reducer

for sliding gates weighing up to 300 Kg



Built-in digital control unit

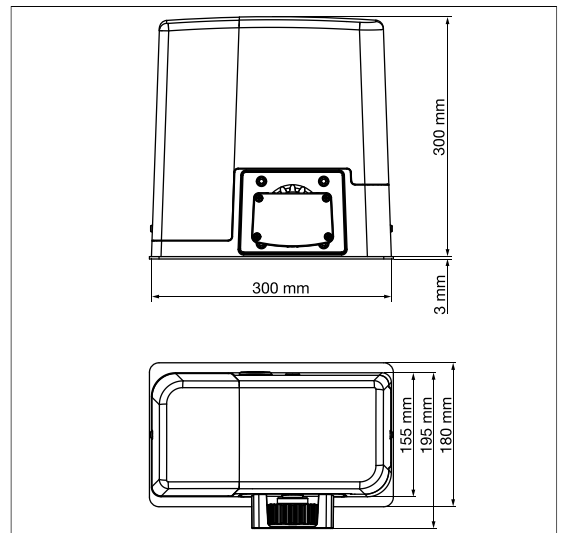
Housing of the backup battery

Painted aluminium casing



PLUS

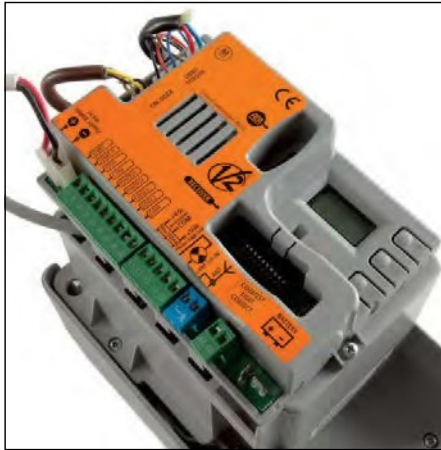
- Accurate and safe operation with encoder
- Obstacle detection
- Programmable acceleration and deceleration
- Self-learning of opening and closing times
- Operation in case of absence of power using the B-PACK backup battery
- Operation with solar power using the ECO-LOGIC system
- Synchronized operation of two motors using the SYNCRO module
- Magnetic limit switches, all accurate and reliable over time
- Steel pinion



TECHNICAL FEATURES

Description	24V gates up to 200 Kg fast motor	24V gates up to 300 Kg
MODEL	ALFARISS 200D-24V-F	ALFARISS 300D-24V
CODE	23B004	23B002
Gate maximum weight (Kg)	200	300
Power supply (Vac - Hz)	230 - 50	230 - 50
Maximum electric power (W)	150	150
Full load current @ 230Vac (A)	0.7	0.7
Gate speed (m/s)	0.25 (@ 100N) 0.42 (unloaded)	0.14 (@ 150N) 0.26 (unloaded)
Maximum thrust (N)	200	330
Duty cycle (%)	50	50
Pinion	M4-Z16	M4-Z16
Working temperature (°C)	-20 ÷ +55	-20 ÷ +55
Motor weight (Kg)	7.5	7.5
Protection degree (IP)	44	44
Maximum load on 24 Vac accessories (W)	7	7

CONTROL UNIT



- Programming achieved using 3 program buttons and display
- Plug-in adaptor for modular radio receiver MR2
- 2 inputs for photocells with self-test function
- 2 inputs for mechanical or resistive safety edges
- Output for flashing light 24V with or without intermittence
- Courtesy light output
- Energy Saving function to minimise consumption in stand-by mode
- Self-learning opening time and obstacle detection function
- Operational cycle counter, with programmable maintenance reminders
- Slowing down in the limit switch area
- Soft start (programmable start-up rate)
- Monitoring of input status using the display
- ADI connector for connecting optional modules

 Electrical connections of the control unit on page 127

ACCESSORIES



11B047 ▪ MR2	161213 ▪ CL1+	35B026 ▪ WES-ADI	161216 ▪ SYNCRO	161221 ▪ BT01	161212 ▪ B-PACK
433.92 MHz plug-in receiver. Also available in 868.30 MHz version (code 11B048)	ADI module to block and copy the programming of the control unit	ADI module for radio control of the safety devices through WES sensors	ADI modules for synchronized operation of two motors	ADI module for managing the control unit via Bluetooth and V2app	Backup battery with built-in charger



162330	162313	162329	162322	ACC009
Additional anchoring clamps	Nylon rack M4 - 6 attachments 1 m long with metallic insert	Galvanised metal rack 30x8 M4 1m long with fixing kit	Galvanised metal rack 30x12 M4 1m long with fixing kit	Warning sign



alfariss kit

Installation kit for sliding gates
weighing up to 300 Kg

COMPOSITION



1 24V irreversible electromechanical rack actuator motor reducer



2 PHOX2
433.92MHz rolling code transmitter



3 MR2
Plug-in module receiver



4 SENSIVA-XS
Miniaturized wall-mounted and pillar-mounted photocells

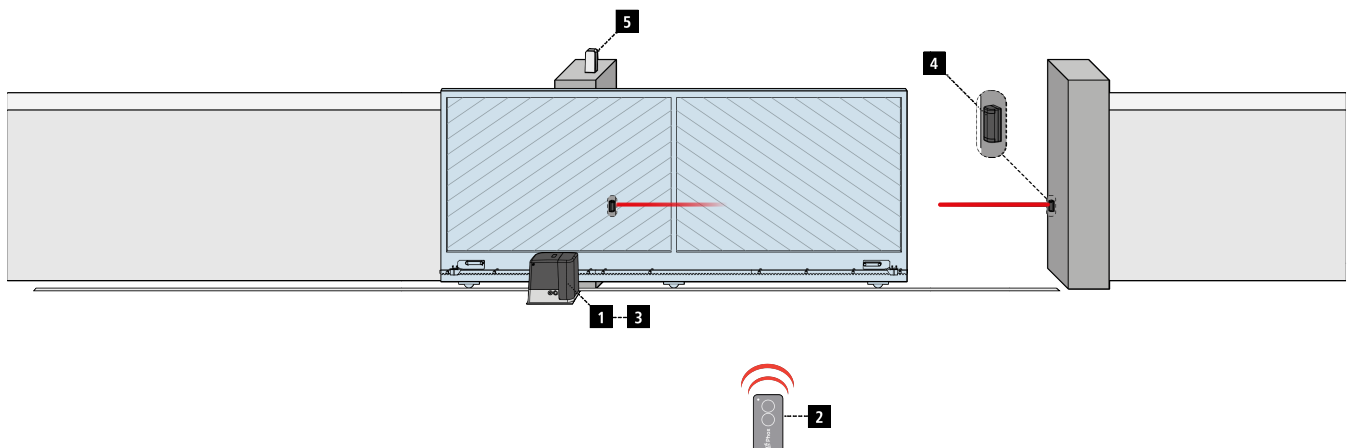


5 LUMOS-M
Led flashing light



6 ACC009
Warning sign

ASSEMBLY DIAGRAM



To complete the installation with other additional accessories refer to the example system at the beginning of the section





TECHNICAL FEATURES

Description	24V gates up to 300 Kg
MODEL	ALFARISS 300D-24V
CODE	23B002
Gate maximum weight (Kg)	300
Power supply (Vac - Hz)	230 - 50
Maximum electric power (W)	150
Full load current @ 230Vac (A)	3
Gate speed (m/s)	0.14 (@ 150N) 0.26 (unloaded)
Maximum thrust (N)	330
Duty cycle (%)	50
Pinion	M4-Z16
Working temperature (°C)	-20 ÷ +55
Motor weight (Kg)	7.5
Protection degree (IP)	44
Maximum load on 24 Vac accessories (W)	7

MOTORS FOR SLIDING GATES

alfariss kit

Selection guide

		Kit MODEL ▼	 PHOX2	 MR2	 SENSIVA-XS	 LUMOS-M	 ACC009	Kit CODE ▼
24V	300 Kg	Kit Light ALFARISS300D-24V	■ ■	■				30B007
		Kit Full ALFARISS300D-24V	■ ■	■	■	■	■	30B008



ayros

Irreversible electromechanical rack actuator motor reducer

for sliding gates weighing up to 1200 Kg

Available in two versions: 24V and 230V



Built-in digital control unit

Housing of the backup battery (24V versions)

Painted aluminium casing

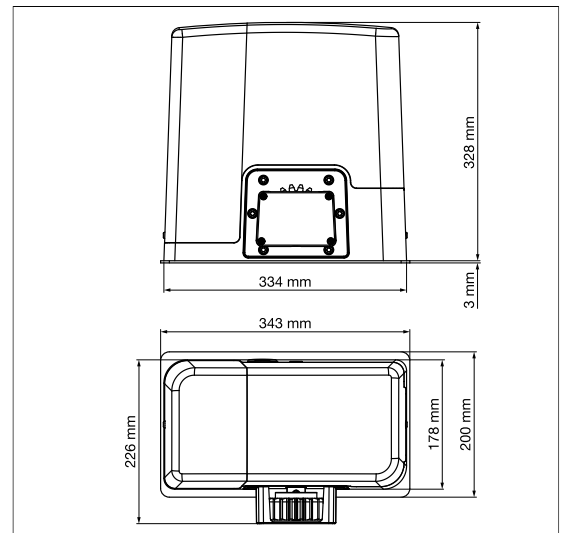


PLUS

- Accurate and safe operation with encoder
- Obstacle detection
- Self-learning of opening and closing times
- Synchronized operation of two motors using the SYNCRO module
- Magnetic limit switches, all accurate and reliable over time

24V versions:

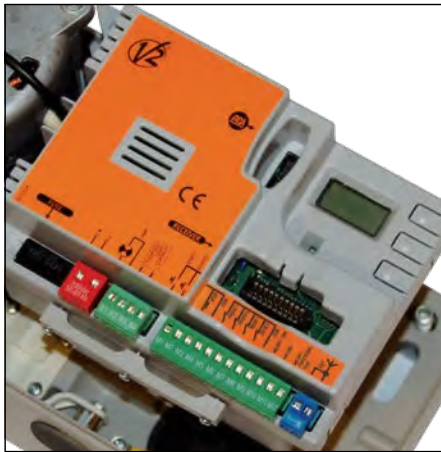
- Programmable acceleration and deceleration
- Operation in case of absence of power using the B-PACK backup battery
- Operation with solar power using the ECO-LOGIC system



TECHNICAL FEATURES

Description	24V gates up to 500 Kg fast motor	24V gates up to 600 Kg	24V gates up to 1000 Kg	230V gates up to 400 Kg	230V gates up to 800 Kg	230V gates up to 1200 Kg
MODEL	AYROS 500D-24V-F	AYROS 600D-24V	AYROS 1000D-24V	AYROS 400D-230V	AYROS 800D-230V	AYROS 1200D-230V
CODE	23C052	23C034	23C035	23C031	23C032	23C033
Gate maximum weight (Kg)	500	600	1000	400	800	1200
Power supply (Vac - Hz)	230 - 50	230 - 50	230 - 50	230 - 50	230 - 50	230 - 50
Maximum electric power (W)	550	400	550	350	500	600
Full load current @ 230Vac (A)	2.5	2	2.5	1.7	2	2.6
Gate speed (m/s)	0.25 (@ 200N) 0.4 (unloaded)	0.14 (@ 300N) 0.26 (unloaded)	0.14 (@ 450N) 0.26 (unloaded)	0.16	0.16	0.16
Maximum thrust (N)	400	600	900	400	670	950
Duty cycle (%)	60	60	60	30	30	30
Pinion	M4-Z18	M4-Z18	M4-Z18	M4-Z18	M4-Z18	M4-Z18
Working temperature (°C)	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55
Motor weight (Kg)	16	16	18	14	15	16
Protection degree (IP)	44	44	44	44	44	44
Maximum load on 24 Vac accessories (W)	7	7	7	10	10	10

CONTROL UNIT



- Programming achieved using 3 program buttons and display
 - Plug-in adaptor for modular radio receiver MR2
 - 2 inputs for photocells with self-test function
 - 2 inputs for mechanical or resistive safety edges
 - Courtesy light output
 - Self-learning opening time and obstacle detection function
 - Operational cycle counter, with programmable maintenance reminders
 - Slow-down function in limit switch area
 - Slow start function during opening (programmable start-up rate)
 - ADI connector for connecting optional modules
- 24V versions**
- Output for flashing light 24V with or without intermittence
 - Energy Saving function to minimise consumption in stand-by mode
- 230V versions**
- Output for flashing light 230V with intermittence
 - Brake function with programmable power

 Electrical connections of the control unit on page 127

ACCESSORIES



11B047 ▪ MR2	161213 ▪ CL1+	35B026 ▪ WES-ADI	161216 ▪ SYNCRO	161221 ▪ BT01	161212 ▪ B-PACK
433.92 MHz plug-in receiver. Also available in 868.30 MHz version (code 11B048)	ADI module to block and copy the programming of the control unit	ADI module for radio control of the safety devices through WES sensors	ADI modules for synchronized operation of two motors	ADI module for managing the control unit via Bluetooth and V2app	Backup battery with built-in charger



162330	162313	162329	162322	ACC009
Additional anchoring clamps	Nylon rack M4 - 6 attachments 1 m long with metallic insert	Galvanised metal rack 30x8 M4 1m long with fixing kit	Galvanised metal rack 30x12 M4 1m long with fixing kit	Warning sign



ayros kit

Installation kit for sliding gates
weighing up to 1000 Kg

Available with 24V and 230V motors

COMPOSITION



1 Irreversible electromechanical rack actuator motor reducer



2 PHOX2
433.92MHz rolling code transmitter



3 MR2
Plug-in module receiver



4 SENSIVA-XS
Miniaturized wall-mounted and pillar-mounted photocells

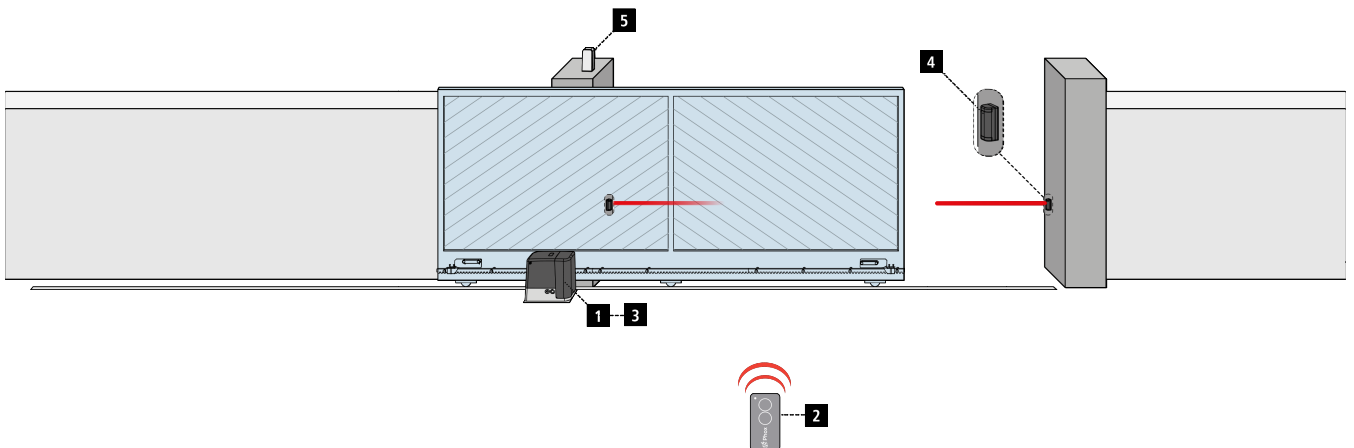


5 LUMOS-M
Led flashing light



6 ACC009
Warning sign

ASSEMBLY DIAGRAM



To complete the installation with other additional accessories refer to the example system at the beginning of the section



TECHNICAL FEATURES

Description	24V gates up to 600 Kg	24V gates up to 1000 Kg	230V gates up to 400 Kg	230V gates up to 800 Kg
MODEL	AYROS 600D-24V	AYROS 1000D-24V	AYROS 400D-230V	AYROS 800D-230V
CODE	23C034	23C035	23C031	23C032
Gate maximum weight (Kg)	600	1000	400	800
Power supply (Vac - Hz)	230 - 50	230 - 50	230 - 50	230 - 50
Maximum electric power (W)	400	550	350	500
Full load current @ 230Vac (A)	2	2.5	1.7	2
Gate speed (m/s)	0.14 (@ 300N) 0.26 (unloaded)	0.14 (@ 450N) 0.26 (unloaded)	0.16	0.16
Maximum thrust (N)	600	900	400	670
Duty cycle (%)	60	60	30	30
Pinion	M4-Z18	M4-Z18	M4-Z18	M4-Z18
Working temperature (°C)	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55	-20 ÷ +55
Motor weight (Kg)	16	18	14	15
Protection degree (IP)	44	44	44	44
Maximum load on 24 Vac accessories (W)	7	7	10	10

MOTORS FOR SLIDING GATES

ayros kit

Selection guide

		Kit MODEL						Kit CODE
			PHOX2	MR2	SENSIVA-XS	LUMOS-M	ACC009	
24V	600 Kg	Kit Light AYROS600D-24V	■ ■	■				30C072
		Kit Full AYROS600D-24V	■ ■	■	■	■	■	30C073
	1000 Kg	Kit Light AYROS1000D-24V	■ ■	■				30C074
		Kit Full AYROS1000D-24V	■ ■	■	■	■	■	30C075
230V	400 Kg	Kit Light AYROS400D-230V	■ ■	■				30C076
		Kit Full AYROS400D-230V	■ ■	■	■	■	■	30C077
	800 Kg	Kit Light AYROS800D-230V	■ ■	■				30C078
		Kit Full AYROS800D-230V	■ ■	■	■	■	■	30C079
	1200 Kg	Kit Light AYROS1200D-230V	■ ■	■				30C104
		Kit Full AYROS1200D-230V	■ ■	■	■	■	■	30C105



forteco

230V irreversible electromechanical rack actuator motor reducer

for sliding gates weighing up to 2500 Kg

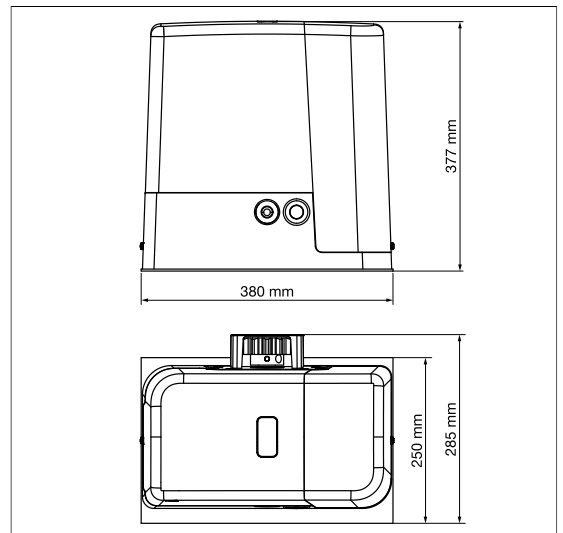


PLUS

- Accurate and safe operation with encoder
- Obstacle detection
- Self-learning of opening and closing times
- Synchronized operation of two motors using the SYNCRO module
- Magnetic limit switches, all accurate and reliable over time
- Possibility to fit an M6 pinion

2500-I version:

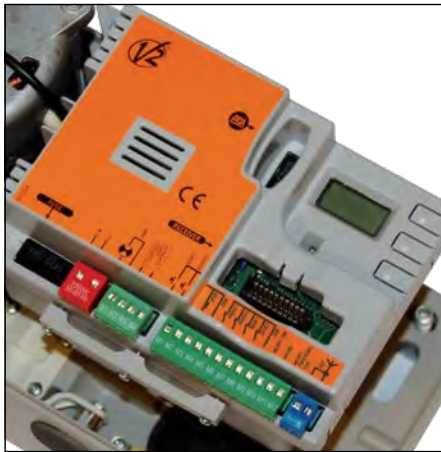
- Three-phase motor with inverter with 230V control unit
- Programmable acceleration and deceleration



TECHNICAL FEATURES

Description	230V gates up to 1800 Kg	230V gates up to 2200 Kg	230V (inverter) gates up to 2500 Kg
MODEL	FORTECO 1800-230V	FORTECO 2200-230V	FORTECO 2500-I
CODE	23E014	23E015	23E011
Gate maximum weight (Kg)	1800	2200	2500
Power supply (Vac - Hz)	230 - 50	230 - 50	230 - 50
Maximum electric power (W)	650	800	650
Full load current @ 230Vac (A)	3.2	4	3.7
Gate speed (m/s)	0.16	0.16	0.035 - 0.26
Maximum thrust (N)	1300	1550	1660
Duty cycle (%)	35	35	50
Pinion	M4-Z18	M4-Z18	M4-Z18
Working temperature (°C)	-20 ÷ +55	-20 ÷ +55	20 ÷ +55
Motor weight (Kg)	18	18	19
Protection degree (IP)	44	44	44
Maximum load on 24 Vac accessories (W)	10	10	10

CONTROL UNIT



 Electrical connections of the control unit on page 127

- Programming achieved using 3 program buttons and display
- Plug-in adaptor for modular radio receiver MR2
- 2 inputs for photocells with self-test function
- 2 inputs for mechanical or resistive safety edges
- Output for flashing light 230V with intermittence
- Courtesy light output
- Self-learning opening time and obstacle detection function
- Operational cycle counter, with programmable maintenance reminders
- Slow-down function in limit switch area
- Slow start function during opening (programmable start-up rate)
- Brake function with programmable power
- ADI connector for connecting optional modules

2500-I version

- Speed adjustable from 0.035 to 0.26 m/s during both stroke and slow down
- Dynamic management of the torque during all phases of the opening / closing cycle

ACCESSORIES



11B047 ▪ MR2	161213 ▪ CL1+	35B026 ▪ WES-ADI	161216 ▪ SYNCRO	161221 ▪ BT01
433.92 MHz plug-in receiver module Also available in 868.30 MHz version (code 11B048)	ADI module to block and copy the programming of the control unit	ADI module for radio control of the safety devices through WES sensors	ADI modules for synchronized operation of two motors	ADI module for managing the control unit via Bluetooth and V2app



162322	162324	162323	MM017B	ACC009
Galvanized metal rack 30x12 M4 1 m long with fixing kit	Galvanized metal rack 22x22 M4 1 m long	Galvanized metal rack 30x30 M6 1 m long	M6 pinion for 162323 rack	Warning sign



forteco-m

230V irreversible electromechanical rack actuator motor reducer

for sliding gates weighing up to 2500 Kg

Aluminium cover

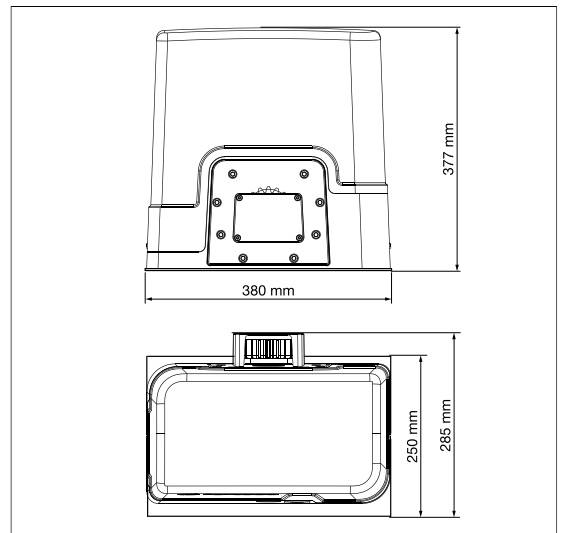


PLUS

- Accurate and safe operation with encoder
- Obstacle detection
- Self-learning of opening and closing times
- Synchronized operation of two motors using the SYNCRO module
- Magnetic limit switches, all accurate and reliable over time
- Possibility to fit an M6 pinion

2500-I version:

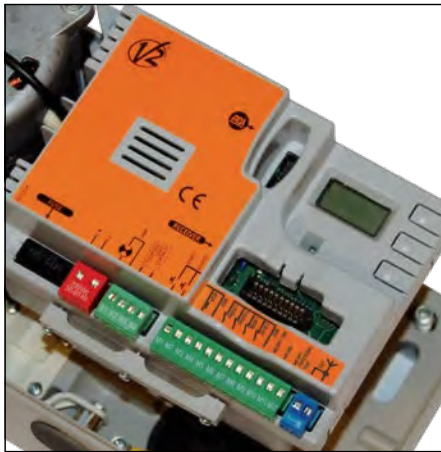
- Three-phase motor with inverter with 230V control unit
- Programmable acceleration and deceleration



TECHNICAL FEATURES

Description	230V gates up to 2200 Kg Aluminium cover	230V (inverter) gates up to 2500 Kg Aluminium cover
MODEL	FORTECO 2200-230V-M	FORTECO 2500-I-M
CODE	23E021	23E022
Gate maximum weight (Kg)	2200	2500
Power supply (Vac - Hz)	230 - 50	230 - 50
Maximum electric power (W)	800	650
Full load current @ 230Vac (A)	4	3.7
Gate speed (m/s)	0.16	0.035 - 0.26
Maximum thrust (N)	1550	1660
Duty cycle (%)	35	50
Pinion	M4-Z18	M4-Z18
Working temperature (°C)	-20 ÷ +55	20 ÷ +55
Motor weight (Kg)	20	21
Protection degree (IP)	44	44
Maximum load on 24 Vac accessories (W)	10	10

CONTROL UNIT



 Electrical connections of the control unit on page 127

- Programming achieved using 3 program buttons and display
- Plug-in adaptor for modular radio receiver MR2
- 2 inputs for photocells with self-test function
- 2 inputs for mechanical or resistive safety edges
- Output for flashing light 230V with intermittence
- Courtesy light output
- Self-learning opening time and obstacle detection function
- Operational cycle counter, with programmable maintenance reminders
- Slow-down function in limit switch area
- Slow start function during opening (programmable start-up rate)
- Brake function with programmable power
- ADI connector for connecting optional modules

2500-I version

- Speed adjustable from 0.035 to 0.26 m/s during both stroke and slow down
- Dynamic management of the torque during all phases of the opening / closing cycle

ACCESSORIES



11B047 ▪ MR2	161213 ▪ CL1+	35B026 ▪ WES-ADI	161216 ▪ SYNCRO	161221 ▪ BT01
433.92 MHz plug-in receiver module Also available in 868.30 MHz version (code 11B048)	ADI module to block and copy the programming of the control unit	ADI module for radio control of the safety devices through WES sensors	ADI modules for synchronized operation of two motors	ADI module for managing the control unit via Bluetooth and V2app



162322	162324	162323	MM017B	ACC009
Galvanised metal rack 30x12 M4 1 m long with fixing kit	Galvanised metal rack 22x22 M4 1 m long	Galvanised metal rack 30x30 M6 1 m long	M6 pinion for 162323 rack	Warning sign



hyperfor

Irreversible electromechanical rack actuator motor reducer

for sliding gates weighing up to 4000 Kg

Available in two versions
230V three-phase with inverter and 400V three-phase



Built-in digital control unit

Galvanized painted sheet steel cabinet

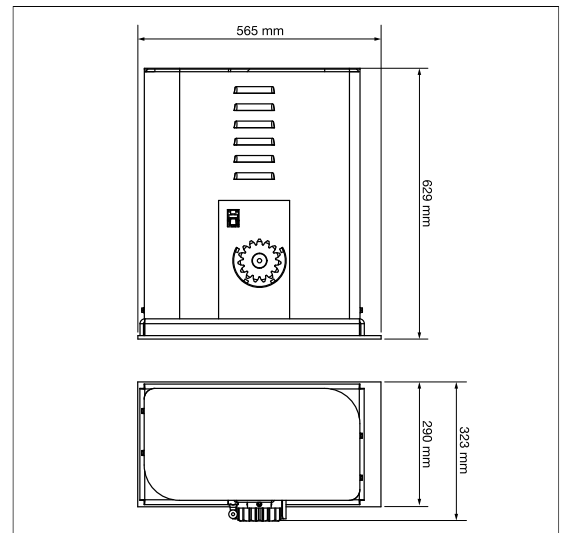


PLUS

- Intensive operation even with large gates
- Obstacle detection
- Self-learning of opening and closing times
- Synchronized operation of two motors using the SYNCRO module
- Possibility to adjust the gearmotor torque
- Industrial electromechanical limit switch and M6 pinion

230V version with inverter:

- Three-phase motor with inverter with 230V control unit
- Programmable acceleration and deceleration



TECHNICAL FEATURES

Description	230V three-phase with inverter gates up to 4000 Kg	400V three-phase gates up to 4000 Kg
MODEL	HYPERFOR 4000-I	HYPERFOR 4000
CODE	23F003	23F004
Gate maximum weight (Kg)	4000	4000
Power supply (Vac - Hz)	230 - 50	400 / 50
Maximum electric power (W)	1100	1100
Mechanical nominal power (W-HP)	750-1	750-1
Full load current (A)	5	2
Gate speed (m/s)	0.016 ÷ 0.32	0.16
Maximum thrust (N)	4800	4800
50% load duty cycle (%)	95	95
Pinion	M6-Z15	M6-Z15
Working temperature (°C)	-20 ÷ +55	-20 ÷ +55
Motor weight (Kg)	35	35
Protection degree (IP)	55	55
Maximum load on 24 Vac accessories (W)	10	10

CONTROL UNIT



- Programming achieved using 3 program buttons and display
- Multilingual programming menu through 122x32 pixel graphic display
- Plug-in adaptor for modular radio receiver MR2
- 2 inputs for photocells with self-test function
- 2 inputs for mechanical or resistive safety edges
- Output for flashing light 230V with intermittence
- Three programmable relay outputs as lights, electric lock, warning light, electric brake or functioning test 12Vdc
- Self-learning opening time and obstacle detection function
- Operational cycle counter, with programmable maintenance reminders
- ADI connector for connecting optional modules

230V version with INVERTER

- Speed adjustable from 0.035 to 0.26 m/s during both stroke and slow down
- Dynamic management of the torque during all phases of the opening / closing cycle

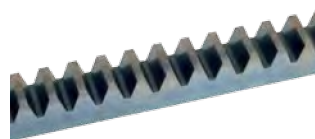
 Electrical connections of the control unit on page 125

- HYPERFOR 4000-I - HEAVY1 control unit
- HYPERFOR 4000 - HEAVY2 control unit

ACCESSORIES



11B047 ▪ MR2	161213 ▪ CL1+	35B026 ▪ WES-ADI	161216 ▪ SYNCRO
433.92 MHz plug-in receiver module Also available in 868.30 MHz version (code 11B048)	ADI module to block and copy the programming of the control unit	ADI module for radio control of the safety devices through WES sensors	ADI modules for synchronized operation of two motors



161221 ▪ BT01	162323	ACC009
ADI module for managing the control unit via Bluetooth and V2app	Galvanised metal rack 30x30 M6 1 m long	Warning sign