ROGER TECHNOLOGY Series BH30 Automation for Sliding Gates Instruction Manual

Contents

ROGER TECHNOLOGY Series BH30 Automation for Sliding Gates

Specifications

- **Model:** BH30 Series
- **Description:** Automation for sliding gates
- **Voltage:** 230 V~; 115V~ (*)
- **Motor Control:** Inverter driven motor
- **Power:** 140W – 880N
- **Speed:** 7.4 – 25 m/min
- **Max Weight Capacity:** 600kg – 800kg
- **Max Gate Length:** 20m
- **Protection Rating:** IP44
- **Operating Temperature:** Not specified

Product Usage Instructions

- **Installation:**
  - Ensure the power source matches the voltage requirements of the product.
  - Mount the automation system securely according to the installation manual.
  - Connect the motor control inverter as per the provided instructions.
  - Set up the high-resolution encoder for sensored operation.
- **Operation:**
  - Power on the system and test the gate movement without obstruction.

- Adjust the speed and force settings as needed for your specific gate.
- Maintain regular checks on the system for optimal performance.

- **Maintenance:**
  - Regularly lubricate moving parts to prevent wear and ensure smooth operation. Check electrical connections for any signs of damage.

Symbols

	Pericolo generico - *Generic danger* - Allgemeine Gefahr - *Danger général* - Peligro genérico - *Perigo genérico*
	Pericolo tensione pericolosa - *Dangerous voltage risk* - Gefahr gefährlicher Spannung - *Danger par tension dangereuse* - Peligro tensión peligrosa - *Perigo de tensão perigosa*
	Informazioni utili - *Useful information* - Nützliche Informationen - *Informations utiles* - Información útil - *Informações úteis*
	Consultazione Istruzioni di installazione e d'uso - *Refer to the Installation and use instructions* - Konsultieren der Installations- und Bedienungsanweisungen - *Consultation des instructions d'installation et d'utilisation* - Consulta instrucciones de instalación y de uso - *Consulta Instruções de instalação e uso*
	Messa a terra - *Earth connection* - Verbindungsstelle der Erdung - *Mise à la terre* - Puesta a tierra - *Ligação à terra*
	Range di temperature - *Temperature range* - Temperaturbereich - *Températures admissible* - Rango de temperatura - *Temperatura admissível*
	Corrente alternata - *Alternating current* - Wechselstrom - *Courant alternatif* - Corriente alterna - *Corrente alternada* (AC)
	Corrente continua - *Direct current* - Gleichstrom - *Courant continu* - Corriente continua - *Corrente contínua* (DC)

Product description

Codice - *Code*	Descrizione - *Description*
BH30/803 (*)	Motoriduttore elettromeccanico BRUSHLESS a bassa tensione, ad uso intensivo, con encoder nativo a bordo, IRREVERSIBILE, per cancelli scorrevoli fino a 1000 kg con controller digitale a bordo e con finecorsa meccanico / *Electromechanical BRUSHLESS motor, low voltage, super intensive use, with native encoder onboard, IRREVERSIBLE, ideal for sliding gates until 1000 kg with built-in digital controller B70 series and mechanical limit switch* / Elektromechanischer Getriebemotor BRUSHLESS mit Niederspannung für eine extrem intensive Nutzung, mit nativem Encoder, IRREVERSIBEL, ideal für Schiebetore bis zu 1000 kg mit Digitale Kontrolle der Serie B70, mit mechanischem Endschalter / *Motoréducteur électromécanique BRUSHLESS, à basse tension, à utiliser super intensif, avec encodeur natif à bord, IRREVERSIBLE, pour portails coulissants jusqu' à un poids de 1000 kg contrôle digital B70 incorporèe, fin de course mécanique* / Motorreductor electromecànico BRUSHLESS, baja tensión, utilizar superintensivo, con codificador nativo a bordo, IRREVERSIBLE, para cancelas hasta 1000 kg, control digital incorporado serie B70, final de carrera mecánico / *Motorredutor electromecânico BRUSHLESS, baixa tensão, para utilizar super-intensivo, com encoder nativo a bordo, IRREVERSÍVEL para portões corrediços até 1000 kg de peso, controle digitale incorporada série B70, fim de curso mecânico*
BH30/804	Motoriduttore elettromeccanico BRUSHLESS a bassa tensione, ad uso intensivo, con encoder nativo a bordo, IRREVERSIBILE, per cancelli scorrevoli fino a 1000 kg con controller digitale a bordo e con finecorsa magnetico / *Electromechanical BRUSHLESS motor, low voltage, super intensive use, with native encoder onboard, IRREVERSIBLE, ideal for sliding gates until 1000 kg with built-in digital controller B70 series and magnetic limit switch* / Elektromechanischer Getriebemotor BRUSHLESS mit Niederspannung für eine extrem intensive Nutzung, mit nativem Encoder, IRREVERSIBEL, ideal für Schiebetore bis zu 1000 kg mit Digitale Kontrolle der Serie B70 mit magnetischem Endschalter / *Motoréducteur électromécanique BRUSHLESS, à basse tension, à utiliser super intensif, avec encodeur natif à bord, IRREVERSIBLE, pour portails coulissants jusqu' à un poids de 1000 kg contrôle digital B70 incorporèe, fin de course magnétique* / Motorreductor electromecànico BRUSHLESS, baja tensión, utilizar superintensivo, con codificador nativo a bordo, IRREVERSIBLE, para cancelas hasta 1000 kg, control digital incorporado serie B70, final de carrera magnético / *Motorredutor electromecânico BRUSHLESS, baixa tensão, para utilizar super-intensivo, com encoder nativo a bordo, IRREVERSÍVEL para portões corrediços até 1000 kg de peso, controle digitale incorporada série B70, fim de curso magnético*
BH30/603/HS (*)	Motoriduttore elettromeccanico HIGH SPEED BRUSHLESS a bassa tensione, ad uso super intensivo, con encoder nativo a bordo, irreversibile, ideale per cancelli scorrevoli fino a 600 kg con controller digitale incorporato a bordo serie B70, con finecorsa meccanico / *Electromechanical HIGH SPEED BRUSHLESS motor, low voltage, super intensive use, with native encoder onboard, irreversible ideal for sliding gates up to 600 kg with built-in digital controller B70 series, mechanical limit switch* / Elektromechanischer Getriebemotor HIGH SPEED BRUSHLESS mit Niederspannung für eine extrem intensive Nutzung, mit nativem Encoder, irreversibel, ideal für Schiebetore bis zu 600 kg mit Digitale Kontrolle der Serie B70 mit mechanischem Endschalter / *Motoréducteur électromécanique HIGH SPEED BRUSHLESS, à basse tension, à utiliser super intensif, avec encodeur natif à bord, irréversible; pour portails coulissants jusqu' à un poids de 600 kg contrôle digital B70 incorporèe, fin de course mécanique* / Motorreductor electromecànico HIGH SPEED BRUSHLESS, baja tensión, utilizar superintensivo, con encoder nativo a bordo, irreversible, para cancelas hasta 600 kg, control digital incorporada serie B70, final de carrera mecánico / *Motorredutor electromecânico HIGH SPEED BRUSHLESS, baixa tensão, para utilizar super-intensivo, com encoder nativo a bordo, irreversível para portões corrediços até 600 kg de peso, controle digitale incorporada série B70, fim de curso mecânico*
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BH30/804/R	Motoriduttore elettromeccanico Brushless a bassa tensione, ad uso intensivo, con encoder nativo a bordo, REVERSIBILE, per cancelli scorrevoli fino a 800 kg con controller digitale a bordo e con finecorsa magnetico / *Electromechanical BRUSHLESS motor, low voltage, super intensive use, with native encoder onboard, REVERSIBLE, ideal for sliding gates until 800 kg with built-in digital controller B70 series and magnetic limit switch* / Elektromechanischer Getriebemotor BRUSHLESS mit Niederspannung für eine extrem intensive Nutzung, mit nativem Encoder, REVERSIBEL, ideal für Schiebetore bis zu 800 kg mit Digitale Kontrolle der Serie B70, mit magnetischem Endschalter / *Motoréducteur électromécanique BRUSHLESS, à basse tension, à utiliser super intensif, avec encodeur natif à bord, REVERSIBLE, pour portails coulissants jusqu' à un poids de 800 kg contrôle digital B70 incorporèe, fin de course magnétique* / Motorreductor electromecànico BRUSHLESS, baja tensión, utilizar superintensivo, con codificador nativo a bordo, REVERSIBLE, para cancelas hasta 800 kg, control digital incorporado serie B70, final de carrera magnético / *Motorredutor electromecânico BRUSHLESS, baixa tensão, para utilizar super-intensivo, com encoder nativo a bordo, REVERSIVEL para portões corrediços até 800 kg de peso, controle digitale incorporada série B70, fim de curso magnético*

Technical Data

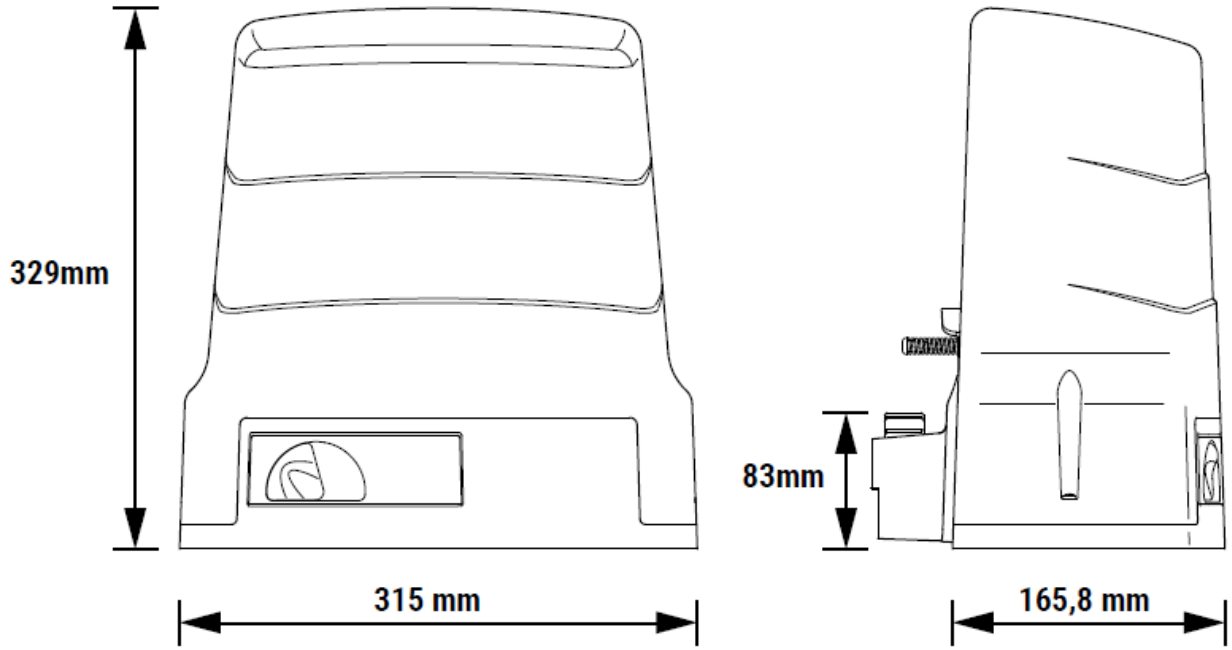
	BH30/803 BH30/804 BH30/803/115	**BH30/603/HS BH30/604/HS BH30/603/HS/115**	**BH30/804/R**
Tipo attuatore / *Drive type* / Antriebtyp / *Type vérin* / Tipo actuador / *Tipo actuador*	IRREVERSIBILE / IR*REVERSIBLE*		REVERSIBILE / *REVERSIBLE*
Alimentazione di rete / *Mains power supply* / Stromversorgung / *Alimentation de réseau* / Alimentación de red / *Alimentação de rede*	230 V~; 115V~ (*)		230 V~
Tensione fornita dalla centrale al motore Brushless / *Voltage from the control unit to the Brushless motor* / Vom Steuergerät an den bürstenlosen Motor abgegebene Spannung / *Tension fournie par a centrale au moteur Brushless* / Tensión suministrada por la centralita al motor Brushless / *Tensão fornecida pela unidade de controlo ao motor Brushlessmotor Brushless*	24 V~, frequenza variabile / *24 V~, variable frequency*		
Tipologia di controllo motore tramite inverter / *Inverter driven motor* / Art der Motorsteuerungstechnik durch Wechselrichter / *Type de commande du moteur par onduleur* / Tipo de control del motor mediante inverter / *Tipo de controlo motor por meio de inversor*	ad orientamento di campo (FOC), sensored con encoder ad alta risoluzione / *field-oriented (FOC), sensored with high-resolution encoder*		
Potenza massima assorbita / *Maximum power absorbed* / Maximale aufgenommene Leistung / *Puissance maximale absorbée* / Potencia máxima absorbida / *Potência máxima absorvida*	140 W	140 W	140 W
Potenza di spunto / *Starting power* / Startleistung / *Puissance de démarrage* / Potencia de arranque / *Potência de arranque*	340 W	300 W	310 W
Forza in fase di spunto / *Starting force* / Startkraft / *Force en phase de démarrage* / Fuerza de arranque / *Força em fase de arranque*	880 N	400 N	610 N
Forza massima (servizio S3 40%, -20°C + 55°C) / *Max. force (service S3 40%, -20°C + 55°C)* / MaximaleKraft(BetriebS340%,-20°C,+55°C) / *Forcemaximale(serviceS340%,-20°C+55°C)* /Fuerzamáxima(S3servicio40%,-20°C+55°C) / *Forçamáxima(serviçoS340%,-20°C+55°C)*	420 N (@1200 1/min) (**)	170 N (@1400 1/min) (**)	270 N (@610 1/min) (**)
Forza nominale (servizio S1 100% -20°C + 55°C) / *Nominal force (service S1* 100% *-20°C + 55°C)* / Nennkraft (Betrieb S1 100% -20 °C, +55 °) / *Force nominale (service S1* 100% *-20°C + 55°C)* / Fuerza nominal (servicio S1 100% -20°C + 55°C) / *Força nominal (serviço S1* 100% *-20 °C + 55 °C)*	190 N (@1200 1/min) (**)	210 N (@750 1/min) (**)	135 N (@750 1/min) (**)
Velocità di scorrimento / *Sliding rate* / Schiebegeschwindigkeit / *Vitesse de coulissement* / Velocidad de deslizamiento / *Velocidade de deslizamento*	7.4 - 12 m/min	10 - 25 m/min	7.4 - 18 m/min
Peso massimo anta consentito / *Maximum leaf weight* / Höchstgewicht Torflügel / *Poids maximal vantail consenti* / Peso máximo permitido de la hoja / *Peso máximo da portinhola permitido*	800 kg	600 kg	800 kg

Lunghezza massima corsa / *Max. stroke length* / Maximale Hublänge / *Longueur de course maximale* / Longitud máxima de la carrera / *Comprimento máximo curso*	20 m		
Ingranaggio in uscita / *Exit gear* / Abtriebsrad / *Engrenage en sortie* / Engranaje de salida / *Engrenagem na saída*	Z15/mod 4		
Cicli di manovra (testati internamente) / *Operating cycles (internally tested)* / Betriebszyklen (intern getestet) / *Cycles de manoeuvre (testé en interne)* / Ciclos de maniobra (probado internamente) / *Ciclos de manobra (testado internamente)*	300000 (***)		
Utilizzo / *Use* / Auslastung / *Utilisation* / Utilización / *Utilização*	INTENSIVO (con forza nominale) / *INTENSIVE (with nominal force)*		
Grado di protezione / *Degree of protection* / Schutzgrad / *Degré de protection* / Grado de protección / *Grau de proteção*	IP44		
Temperatura di esercizio / *Working temperature* / Betriebstemperatur / *Temperature de service* / Temperatura de funcionamiento / *Temperatura de funcionamento*	-20 °C +55 °C		
Pendenza massima ammessa / *Maximum admissioned gradient* / Maximal Zulässige Höhe / *Pente maximale admissible* / Pendiente máxima admisionada / *Mastre admissão máxima*	0,5%		
Pressione sonora durante l'uso / *Sound pressure during use* / Schalldruck Während der Verwendung / *Pression sonore pendant l'utilisation* / Presión sonora durante el uso / *Pressão sonora durante o uso*	<70 dB(A)		
Peso operatore / *Operator weight* / Bediengewicht / *Poids de l'opérateur* / Peso del operador / *Peso do operador*	BH30/803 12,3 kg BH30/804 12,5 kg	BH30/603 12,1 kg BH30/604 12,6 kg	12,6 kg
Forza da applicare allo sblocco meccanico / *Force to be applied on the mechanical release* / Bei der Mechanischen Entriegelung Anzuwendende Kraft / *Force à appliquer au déverrouillage mécanique* / Fuerza que se debe aplicar para el desbloqueo mecánico / *Força a aplicar ao destravamento mecânico*	130 N		
Centrale di comando / Control unit / Steuerung / Centrale de commande / Central de mando / Central de mando	B70/1DC		

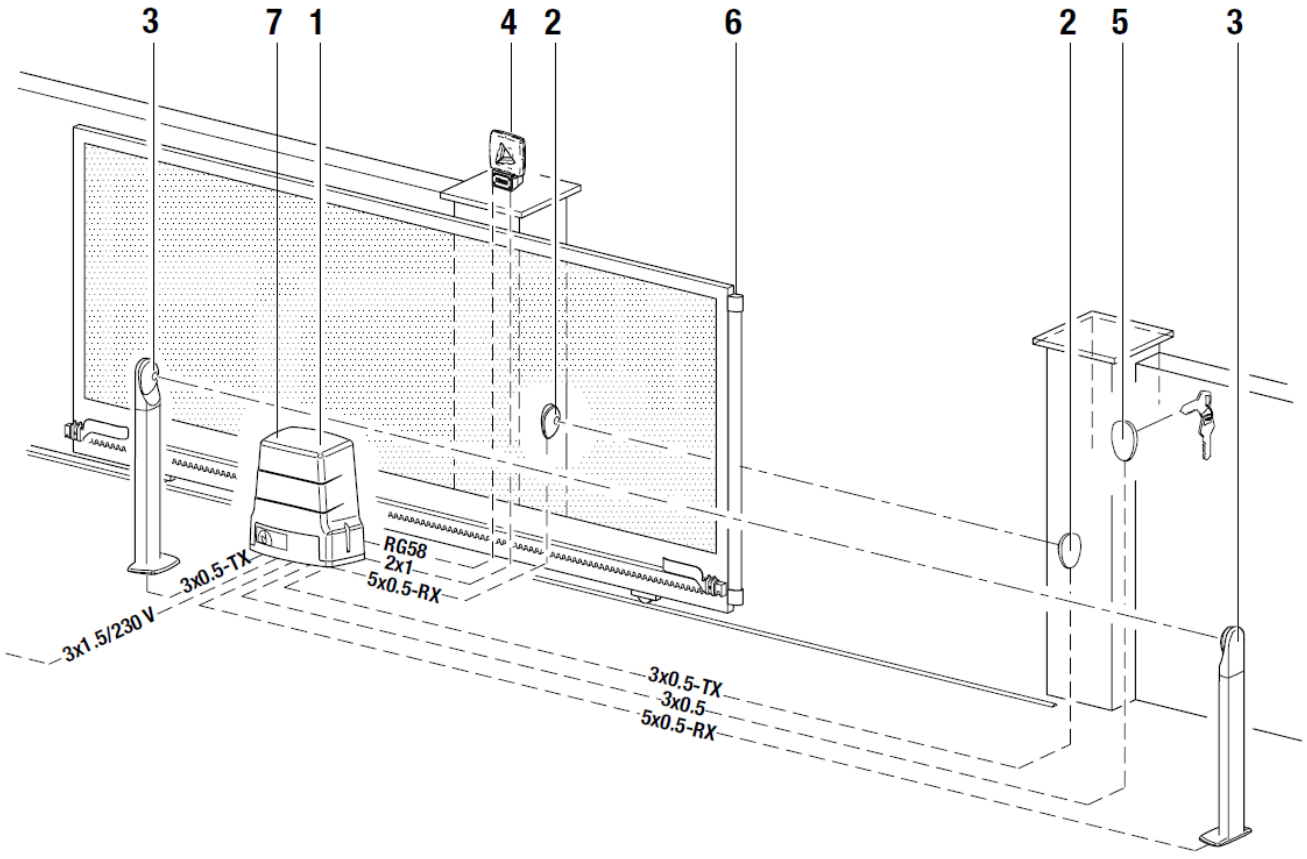
ROGER 115V AC - (*) BH30/803/HS/115 - BH30/603/HS/115

Force allowing a 40% duty-cycle operation, at the specified in the table (1/min equals RPM), with ambient temperature of +55°C.
Internal test verified at the nominal sliding gate value of 5 meters, at an ambient temperature of 20°C. The value specified is NOT the maximum value.

Dimensions



Typical installation



1	BH30	H07RN-F 3×1,5 mm2
2	F4ES/F4S – TX	3×0,5 mm2 (max 20 m)
	F4ES/F4S – RX	5×0,5 mm2 (max 20 m)
3	F4ES/F4S – TX	3×0,5 mm2 (max 20 m)
	F4ES/F4S – RX	5×0,5 mm2 (max 20 m)
4	FIFTHY/24	2×1 mm2 (max 10 m)
	Antenna	50 Ohm RG58 (max 10 m)
5	R85/60	3×0,5 mm2 (max 20 m)
	H85/TTD – H85/TDS	2×0,5 mm2 (max 30 m)
6	Bordo sensibile / *Sensitive edge*	/
7	Ricevitore radio CS/RX / *CS/RX radio receiver*	/

INSTALLATION

Preliminary checks and installation of the foundation plate

- Check that the gate is structurally sound and check that the gate leaf is stable. The gate may cause injury or damage to property in the event of derailing or falling to one side.
- The guide rail must be securely fixed to the ground and must be perfectly straight, with no kinks or other irregularities which may obstruct the movement of the gate leaf, and must not have a gradient greater than 0.5%.

- Check that the guide rails are in good condition and adequately greased.
- Always install mechanical stops in the gate open and gate closed positions, anchored securely to the ground and with elastic damper elements (e.g. rubber buffer) to attenuate the impact of the gate leaf against the stop.
- Check that, when the motor is unlocked, the door doesn't move if left in any position.

INSTALLING FOUNDATION PLATE

- The automation system may be installed on the right or left hand side.
- Fit the four 10MA nuts onto the anchor bolts included, tightening along the full length of the thread.
- Fit the anchor bolts into the 4 holes in the foundation plate and fasten with the 4 nuts as shown in figure 1.
- Referring to the measurements given in the figure, cast a slab of cement with the base plate sunk into the cement. The plate must be perfectly level and clean.
- The distances between the foundation plate [B] and the rack [A] must be as indicated.
- The flexible conduits of the electrical system must exit from the hole on the right hand side of the foundation plate (seen from the inner side).

Fig. / Abb. 1

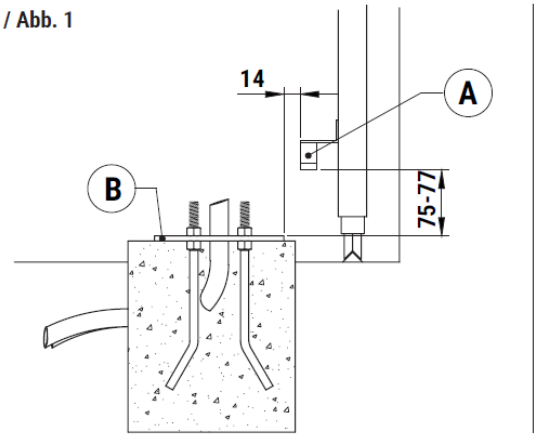
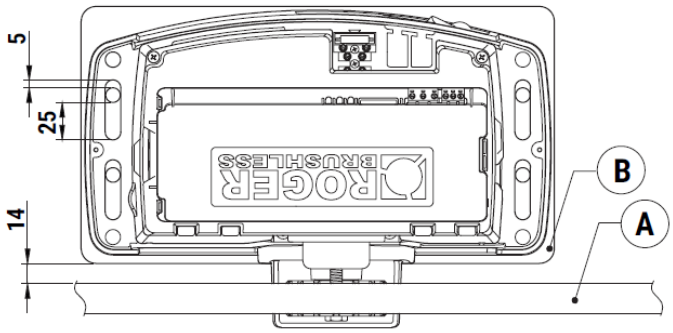


Fig. / Abb. 2



Automation installation

- Undo the screws of the cover and remove the lid by lifting up as shown in fig. 3. Check that the six adjuster feet do not protrude from the base of the gearmotor.
- Put the O-ring (B) onto each screws M10x40 (A). Insert the screws in the gearmotor corners (C) and secure them with the nuts M10 (D).
- Fit the BH30 on the 4 anchor bolt, as shown in fig. 4. If necessary, undo the nuts on the foundation plate.
- Adjust the horizontal position of the gearmotor by sliding along the slots on the foundation plate, and adjust the vertical position with the 6 adjuster feet.
- When adjusting the vertical position, also consider the correct fastener measurements for the rack. See paragraph 8.
- Fit the spacer M10 (E).
- Fit the cover.

Fig. / Abb. 3

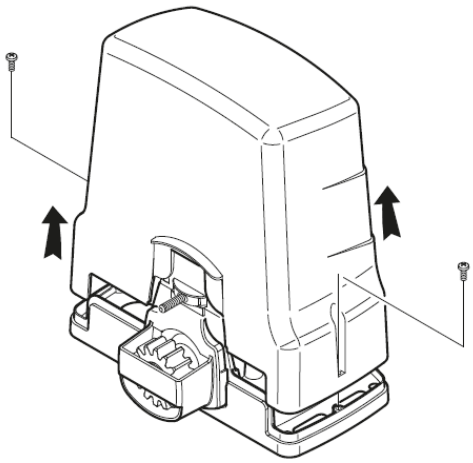
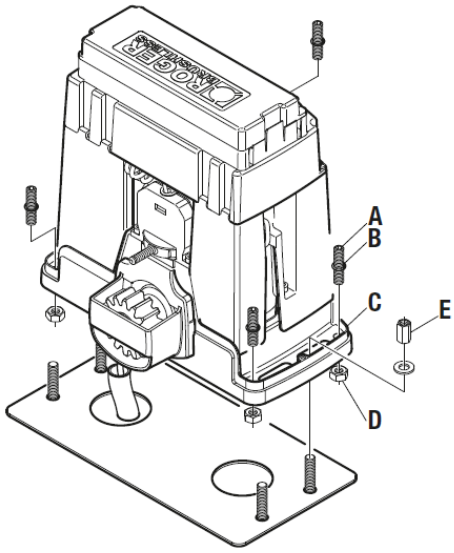


Fig. / Abb. 4

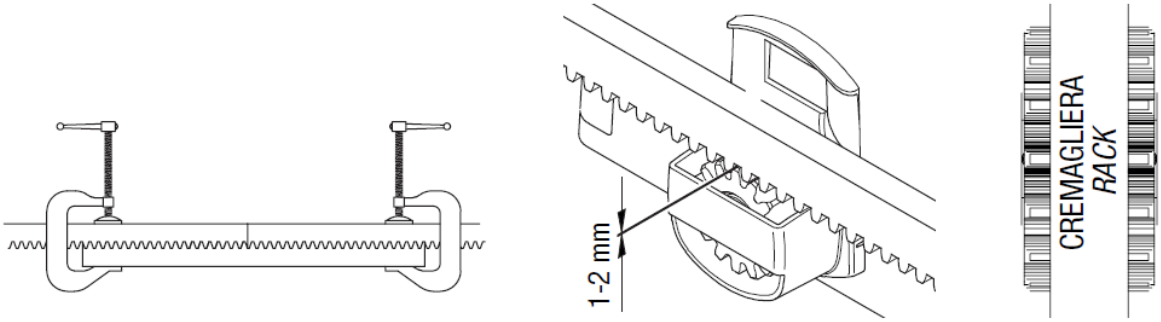


Fixing the rack

N.B.: The BH30 gearmotor may be used with racks with a teething module of 4.

- Unlock the gearmotor and move the gate into the open position.
- Place the rack on the pinion, then fasten the entire length of the rack, sliding the gate to allow access to the fasteners.
- To ensure that subsequent sections of rack are aligned correctly and maintain the correct tooth pitch, we recommend installing the rack sections with connector pieces.
- Ensure that there is a clearance of at least 1 – 2 mm between the pinion and the rack. If necessary, adjust the height of the gearmotor or, if possible, of the rack.
- Manually check that the gate slides smoothly and without impediment.
- Fasten the gear motor definitively.

Fig. / Abb. 5



Fixing the limit switches (mechanical/magnetic)

- Adjust the magnetic limit switches based on the minimum distances between the sensor and the magnet installed on the rack (fig. 8).
- Move the gate into the fully open position and then into the fully closed position, and fasten the limit switch brackets onto the rack, ensuring that they are turned the right way around.
- With mechanical limit switches: R = RIGHT; L = LEFT (fig. 7).
- With magnetic limit switches, the arrows must point towards the middle of the rack (fig. 8).
- **ATTENTION:** the magnet can be adjusted by a maximum of 8 mm by loosening the two screws.
- **ATTENTION:** Between magnet and limit switch bracket there must be a distance of 10 mm at most.

- Perform a few open/close manoeuvres then adjust the positions of the limit switch brackets so that the gate stops 40 to 80 mm before the mechanical stop. The stopping distance depends on the weight of the gate, friction, the control unit used and weather conditions.
- The gate must not come into contact with the mechanical stops when opening and closing.

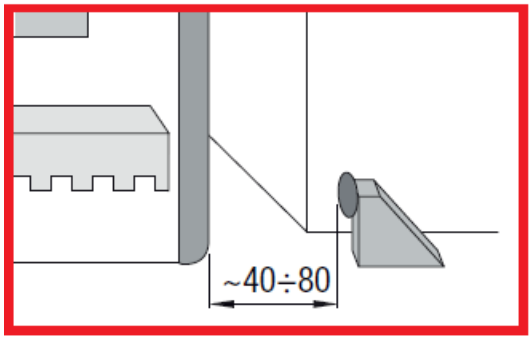


Fig. / Abb.6

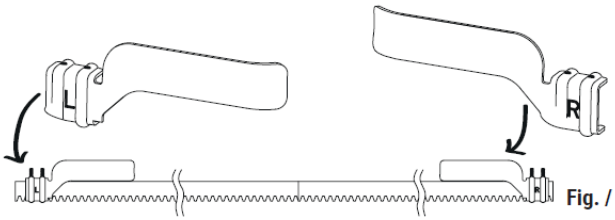


Fig. / Abb. 7

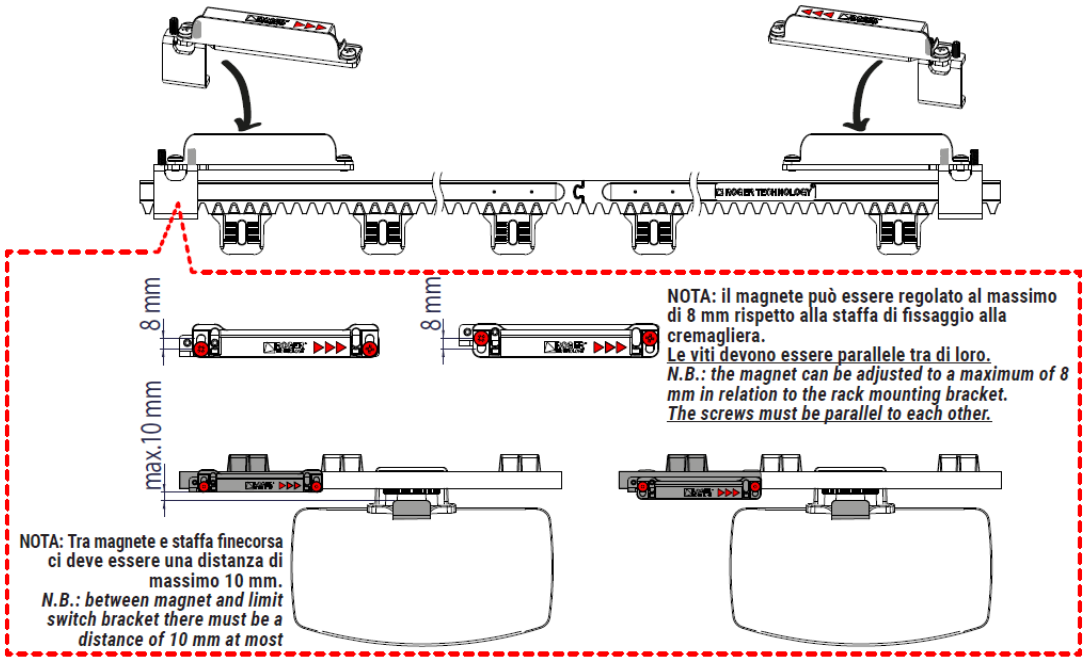


Fig. / Abb. 8

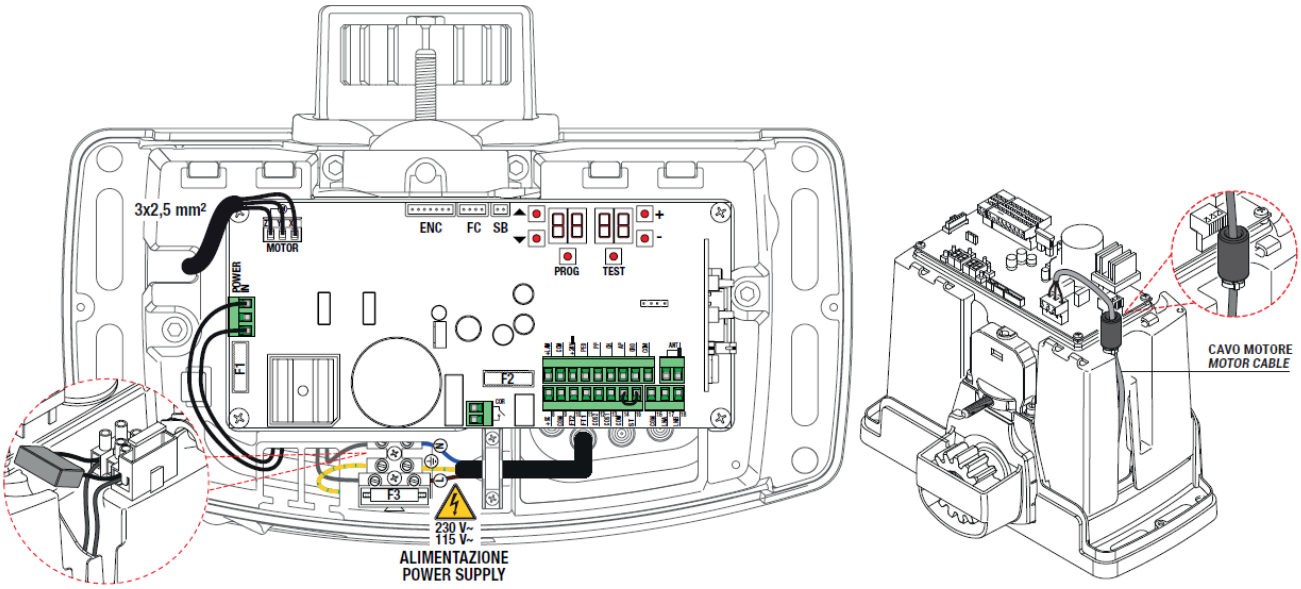
Electrical connections

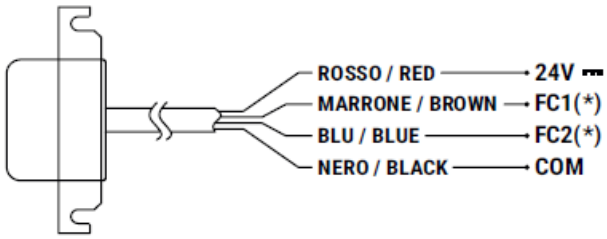
- A switch or an omnipolar cut-off switch with a contact opening of at least 3 mm must be installed on the mains power line; put the cut-off switch in OFF position and disconnect any buffer batteries before performing any cleaning or maintenance operations.
- Ensure that an adequate residual current circuit breaker with a 0.03 A threshold and a suitable overcurrent cut-out are installed upstream the electrical installation in accordance with best practices and in compliance with applicable legislation.

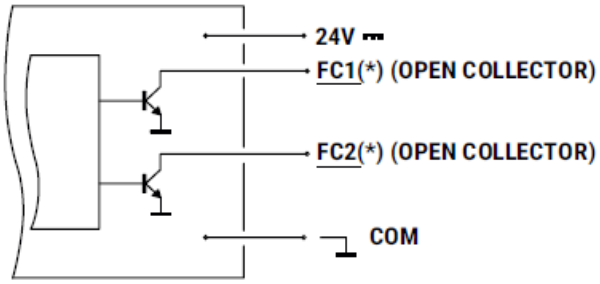
  For power supply, use a H07RN-F 3G1.5 mm2 type electric cable and connect it to the terminals L (brown), N

(blue),  (yellow/green), located inside the automation system.

- Strip the insulation from the ends of the power cable wires which will be connected to the terminal (see ref. A), and secure the cable with the cable retainer.
- Measure the voltage on the primary mains power connection with a tester.
- For the Brushless automation system to function correctly, the mains power voltage must be 230V~ (115 V~) ±10%.
- If the detected value does not comply with the above specified values or is not stable, the automation system may NOT operate efficiently.
- Connections to the electrical distribution network and to any other low-voltage (230 V~) conductors in the external section to the electrical panel must be on an independent path and separate from the connections to the command and safety devices (SELV = Safety Extra Low Voltage).
- Make sure that the mains power conductors and the accessory wires (24 V ⎓) are separated.
- The cables must be double insulated, strip them near the relevant connection terminals and lock them with clamps (not supplied).
- The electrical connections and the gear motor BH30 testing operations are described in the installation manual of the control unit B70/1DC.



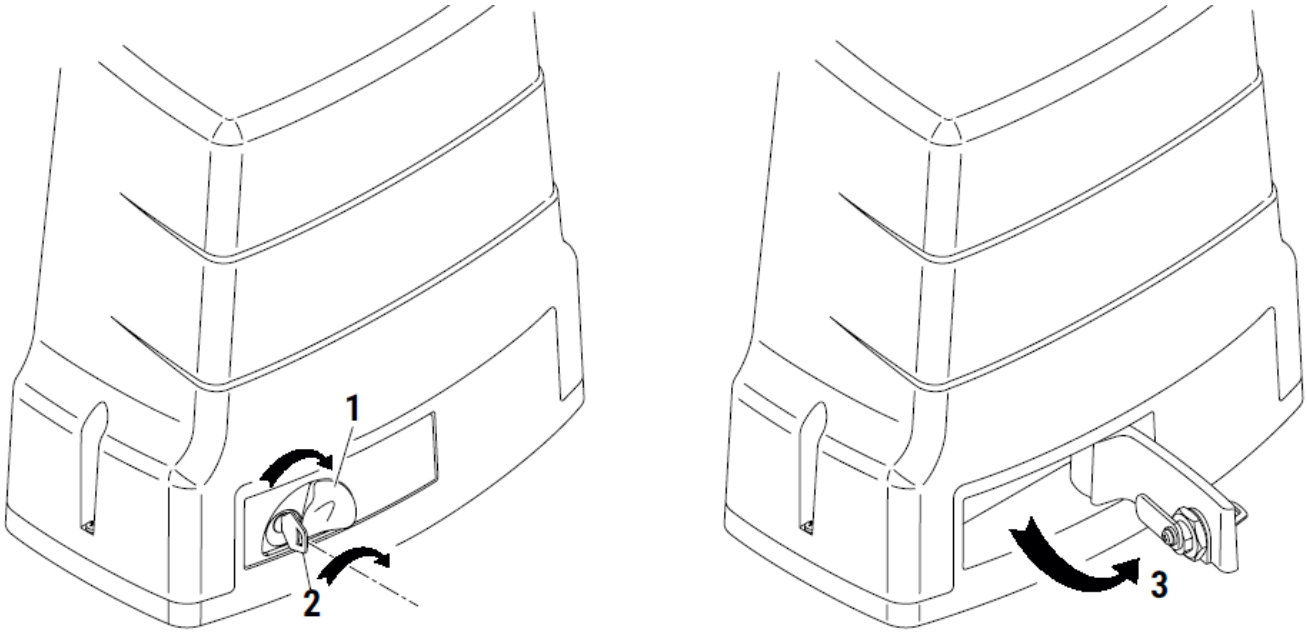




  - **FC1 =** opening limit switch (if motor installed on the right)

- **FC2 =** closing limit switch (if motor installed on the right)

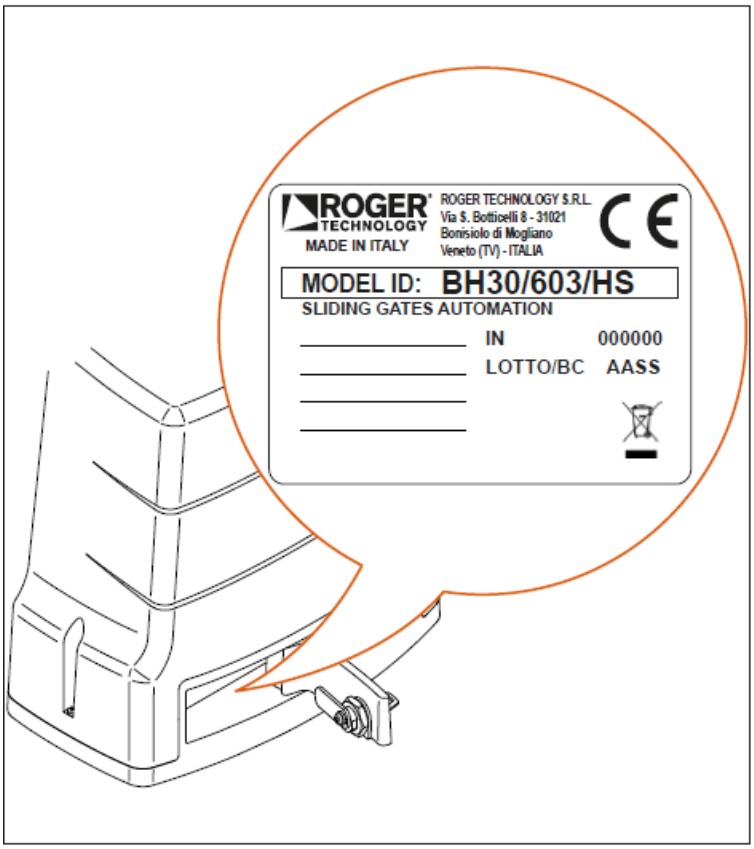
Manual release



WARNING: only perform the gate leaf release and lock procedures with the unit disconnected from mains, with batteries (if installed) disconnected and with the motor at a standstill.

- **RELEASE AND MANUAL OPERATION**
  - Flip open the lock cover as indicated in step 1.
  - Insert the key included into the lock and turn clockwise by 90°, as indicated in step 2.
  - Open the release cover completely, as indicated in step 3.
  - Move the leaf manually.
- **RESTORING AUTOMATIC OPERATION**
  - To lock the gate leaf again, lower the release cover with the key inserted, taking care not to trap your fingers.
  - Turn the key anticlockwise by 90°.
  - Remove the key and close the lock cover.
  - Reconnect to mains electricity.

Product label (example)



Decoding the batch and serial number

The IN parameter is a progressive number related to the year of manufacture. The two most significant digits of the LOTTO/BC parameter are the year of manufacture, while the two less significant digits are the week of manufacture.

Reading example:

- **LOTTO/BC:** AASS
- **AA** = year of manufacture
- **SS** = week of manufacture

The product label is attached to the motor (see figure). Labels must not be removed, damaged, dirty or concealed.

DECLARATION OF INCORPORATION

All. II B – Directive 2006/42/CE – Annex II B)

Declares that the partly-completed machinery designed to be incorporated according to the corresponding instructions manual:

- **Description of the device:** Sliding gate automation BH30 series
- **Model of the integrated control unit:** B70/1DC

Codice prodotto (Vedere il campo **MODEL ID** presente sull'etichetta applicata al prodotto) *Product code (See the **MODEL ID** field on the label applied to the product)* Numero di serie (Vedere campo **IN** presente sull'etichetta applicata al prodotto) *Serial Number (See field **IN** on the label attached to the product)*	

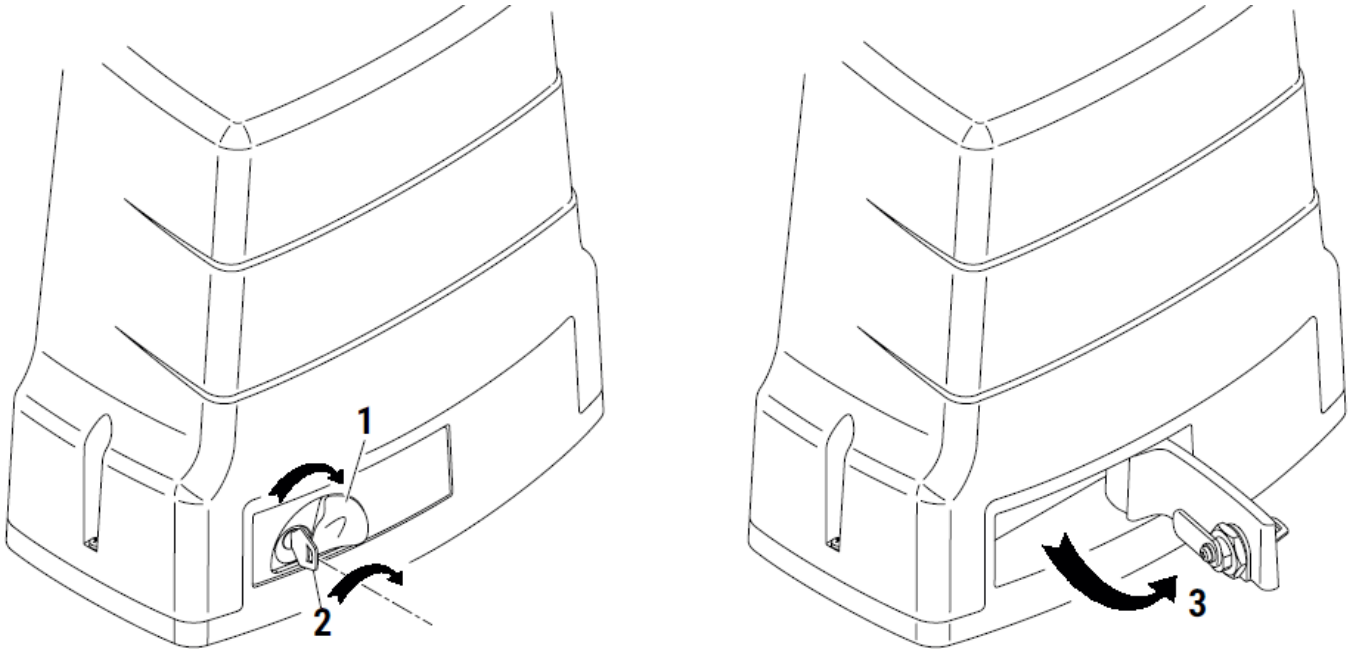
is compliant with the provisions of the following Community directives:

- 2006/42/CE directive (Machinery Directive) and the related technical documentation has been compiled according to annex VII B of the same directive;
- 2014/30/UE directive (Electromagnetic Compatibility);
- 2014/35/UE directive (Low Voltage);
- 2014/53/UE directive (RED)
- 2011/65/UE directive (RoHS)

Declares to undertake to provide information related to the partly-completed machinery, following a duly justified request from the national authorities. The commitment includes the transmission methods and does not affect the intellectual property rights of the manufacturer of the partly-completed machinery. Declares that the partly-completed machinery must not be commissioned until the final machinery in which it will be incorporated is declared compliant with the provisions of the 2006/42/EC directive.

Luogo e data della dichiarazione *Place and date of declaration*	Bonisiolo di Mogliano Veneto il 10/11/2016
Persona autorizzata a costituire la documentazione tecnica *Person authorised to compile the technical documentation*	Responsabile Ricerca e Sviluppo *Research and Development Officer* (Ing. Dino Cinti)
Ragione sociale e indirizzo completo del fabbricante / *Company name and full address of the manufacturer:* ROGER TECHNOLOGY S.R.L. Via S.Botticelli, 8 - 31021 Bonisiolo di Mogliano Veneto Treviso ITALIA	Rappresentante legale dell'azienda *Legal Representative of the company* (Dino Florian)

USER GUIDE Manual release



WARNING: only perform the gate leaf release and lock procedures with the unit disconnected from mains, with batteries (if installed) disconnected and with the motor at a standstill.

RELEASE AND MANUAL OPERATION

- Flip open the lock cover as indicated in step 1.
- Insert the key included into the lock and turn clockwise by 90°, as indicated in step 2.
- Open the release cover completely, as indicated in step 3.
- Move the leaf manually.

RESTORING AUTOMATIC OPERATION

- To lock the gate leaf again, lower the release cover with the key inserted, taking care not to trap your fingers.
- Turn the key anticlockwise by 90°.
- Remove the key and close the lock cover.
- Reconnect to mains electricity.

Codice - *Code*	Descrizione - *Description*
BH30/803 (*)	Motoriduttore elettromeccanico BRUSHLESS a bassa tensione, ad uso intensivo, con encoder nativo a bordo, IRREVERSIBILE, per cancelli scorrevoli fino a 1000 kg con controller digitale a bordo e con finecorsa meccanico / *Electromechanical BRUSHLESS motor, low voltage, super intensive use, with native encoder onboard, IRREVERSIBLE, ideal for sliding gates until 1000 kg with built-in digital controller B70 series and mechanical limit switch* / Elektromechanischer Getriebemotor BRUSHLESS mit Niederspannung für eine extrem intensive Nutzung, mit nativem Encoder, IRREVERSIBEL, ideal für Schiebetore bis zu 1000 kg mit Digitale Kontrolle der Serie B70, mit mechanischem Endschalter / *Motoréducteur électromécanique BRUSHLESS, à basse tension, à utiliser super intensif, avec encodeur natif à bord, IRREVERSIBLE, pour portails coulissants jusqu' à un poids de 1000 kg contrôle digital B70 incorporèe, fin de course mécanique* / Motorreductor electromecànico BRUSHLESS, baja tensión, utilizar superintensivo, con codificador nativo a bordo, IRREVERSIBLE, para cancelas hasta 1000 kg, control digital incorporado serie B70, final de carrera mecánico / *Motorredutor electromecânico BRUSHLESS, baixa tensão, para utilizar super-intensivo, com encoder nativo a bordo, IRREVERSÍVEL para portões corrediços até 1000 kg de peso, controle digitale incorporada série B70, fim de curso mecânico*
BH30/804	Motoriduttore elettromeccanico BRUSHLESS a bassa tensione, ad uso intensivo, con encoder nativo a bordo, IRREVERSIBILE, per cancelli scorrevoli fino a 1000 kg con controller digitale a bordo e con finecorsa magnetico / *Electromechanical BRUSHLESS motor, low voltage, super intensive use, with native encoder onboard, IRREVERSIBLE, ideal for sliding gates until 1000 kg with built-in digital controller B70 series and magnetic limit switch* / Elektromechanischer Getriebemotor BRUSHLESS mit Niederspannung für eine extrem intensive Nutzung, mit nativem Encoder, IRREVERSIBEL, ideal für Schiebetore bis zu 1000 kg mit Digitale Kontrolle der Serie B70 mit magnetischem Endschalter / *Motoréducteur électromécanique BRUSHLESS, à basse tension, à utiliser super intensif, avec encodeur natif à bord, IRREVERSIBLE, pour portails coulissants jusqu' à un poids de 1000 kg contrôle digital B70 incorporèe, fin de course magnétique* / Motorreductor electromecànico BRUSHLESS, baja tensión, utilizar superintensivo, con codificador nativo +a bordo, IRREVERSIBLE, para cancelas hasta 1000 kg, control digital incorporado serie B70, final de carrera magnético / *Motorredutor electromecânico BRUSHLESS, baixa tensão, para utilizar super-intensivo, com encoder nativo a bordo, IRREVERSÍVEL para portões corrediços até 1000 kg de peso, controle digitale incorporada série B70, fim de curso magnético*
BH30/603/HS (*)	Motoriduttore elettromeccanico HIGH SPEED BRUSHLESS a bassa tensione, ad uso super intensivo, con encoder nativo a bordo, irreversibile, ideale per cancelli scorrevoli fino a 600 kg con controller digitale incorporato a bordo serie B70, con finecorsa meccanico / *Electromechanical HIGH SPEED BRUSHLESS motor, low voltage, super intensive use, with native encoder onboard, irreversible ideal for sliding gates up to 600 kg with built-in digital controller B70 series, mechanical limit switch* / Elektromechanischer Getriebemotor HIGH SPEED BRUSHLESS mit Niederspannung für eine extrem intensive Nutzung, mit nativem Encoder, irreversibel, ideal für Schiebetore bis zu 600 kg mit Digitale Kontrolle der Serie B70 mit mechanischem Endschalter / *Motoréducteur électromécanique HIGH SPEED BRUSHLESS, à basse tension, à utiliser super intensif, avec encodeur natif à bord, irréversible; pour portails coulissants jusqu' à un poids de 600 kg contrôle digital B70 incorporèe, fin de course mécanique* / Motorreductor electromecànico HIGH SPEED BRUSHLESS, baja tensión, utilizar superintensivo, con encoder nativo a bordo, irreversible, para cancelas hasta 600 kg, control digital incorporada serie B70, final de carrera mecánico / *Motorredutor electromecânico HIGH SPEED BRUSHLESS, baixa tensão, para utilizar super-intensivo, com encoder nativo a bordo, irreversível para portões corrediços até 600 kg de peso, controle digitale incorporada série B70, fim de curso mecânico*
BH30/604/HS	Motoriduttore elettromeccanico HIGH SPEED BRUSHLESS a bassa tensione, ad uso super intensivo, con encoder nativo a bordo, irreversibile, ideale per cancelli scorrevoli fino a 600 kg con controller digitale incorporato a bordo serie B70, con finecorsa magnetico / *Electromechanical HIGH SPEED BRUSHLESS motor, low voltage, super intensive use, with native encoder onboard, irreversible ideal for sliding gates up to 600 kg with built-in digital controller B70 series, magnetic limit switch* / Elektromechanischer Getriebemotor HIGH SPEED BRUSHLESS mit Niederspannung für eine extrem intensive Nutzung, mit nativem Encoder, irreversibel, ideal für Schiebetore bis zu 600 kg mit Digitale Kontrolle der Serie B70 mit magnetischem Endschalter / *Motoréducteur électromécanique HIGH SPEED BRUSHLESS, à basse tension, à utiliser super intensif, avec encodeur natif à bord, irréversible; pour portails coulissants jusqu' à un poids de 600 kg contrôle digital B70 incorporèe, fin de course magnétique* / Motorreductor electromecànico HIGH SPEED BRUSHLESS, baja tensión, utilizar superintensivo, con encoder nativo a bordo, irreversible, para cancelas hasta 600 kg, control digital incorporada serie B70, final de carrera magnético / *Motorredutor electromecânico HIGH SPEED BRUSHLESS, baixa tensão, para utilizar super-intensivo, com encoder nativo a bordo, irreversível para portões corrediços até 600 kg de peso, controle digitale incorporada série B70, fim de curso magnético*
BH30/804/R	Motoriduttore elettromeccanico Brushless a bassa tensione, ad uso intensivo, con encoder nativo a bordo, REVERSIBILE, per cancelli scorrevoli fino a 800 kg con controller digitale a bordo e con finecorsa magnetico / *Electromechanical BRUSHLESS motor, low voltage, super intensive use, with native encoder onboard, REVERSIBLE, ideal for sliding gates until 800 kg with built-in digital controller B70 series and magnetic limit switch* / Elektromechanischer Getriebemotor BRUSHLESS mit Niederspannung für eine extrem intensive Nutzung, mit nativem Encoder, REVERSIBEL, ideal für Schiebetore bis zu 800 kg mit Digitale Kontrolle der Serie B70, mit magnetischem Endschalter / *Motoréducteur électromécanique BRUSHLESS, à basse tension, à utiliser super intensif, avec encodeur natif à bord, REVERSIBLE, pour portails coulissants jusqu' à un poids de 800 kg contrôle digital B70 incorporèe, fin de course magnétique* / Motorreductor electromecànico BRUSHLESS, baja tensión, utilizar superintensivo, con codificador nativo a bordo, REVERSIBLE, para cancelas hasta 800 kg, control digital incorporado serie B70, final de carrera magnético / *Motorredutor electromecânico BRUSHLESS, baixa tensão, para utilizar super-intensivo, com encoder nativo a bordo, REVERSÍVEL para portões corrediços até 800 kg de peso, controle digitale incorporada série B70, fim de curso magnético*

ROGER 115V AC - (*) BH30/803/HS/115 - BH30/603/HS/115

- The sound pressure during use is less than 70 dB(A).

CONTACT INFORMATION

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- www.rogertechnology.com

FAQs

- **Q: What is the maximum weight capacity of the BH30 series?**
  - **A:** The BH30 series can handle a maximum weight capacity of 600 kg to 800 kg, depending on the model.
- **Q: What is the recommended operating speed range for the BH30 series?**
  - **A:** The recommended speed range for the BH30 series is between 7.4 m/min to 25 m/min.
- **Q: What type of motor control does the BH30 series use?**
  - **A:** The BH30 series uses inverter-driven motor control for efficient operation.

Documents / Resources

	ROGER TECHNOLOGY Series BH30 Automation for Sliding Gates [pdf] Instruction Manual BH30-803, BH30-804, BH30-603-HS, BH30-604-HS, BH30-804-R, Series BH30 Automation for Sliding Gates, Series BH30, Automation for Sliding Gates, Sliding Gates, Gates

References

- Roger Technology - Automazioni in movimento
- User Manual