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BL
24Vdc
Motors

Instruction manual	Series	Model	Date
ZVL753.00	BL	GRIFFE24M-TM-S	26-04-2023
Questo prodotto è stato testato e collaudato nei laboratori della casa costruttrice, la quale ha verificato la perfetta corrispondenza delle caratteristiche con quelle richieste dalla normativa vigente. This product has been tried and tested in the manufacturer's laboratory who have verified that the product conforms in every aspect to the safety standards in force. Ce produit a été testé et essayé dans les laboratoires du fabricant. Pour l'installer suivre attentivement les instructions fournies. Dieses Produkt wurde in den Werkstätten der Herstellerfirma auf die perfekte Übereinstimmung ihrer Eigenschaften mit den von den geltenden Normen vorgeschriebenen getestet und geprüft. Este producto ha sido probado y ensayado en los laboratorios del fabricante, que ha comprobado la perfecta correspondencia de sus características con las contempladas por la normativa vigente. Dit product is getest en goedgekeurd in de fabriek van de fabrikant die heeft vastgesteld dat de producteigenschappen volledig aan de geldende voorschriften voldoen.			

AUTOMAZIONE PER CANCELLI A BATTENTE AUTOMATION FOR HINGED GATES AUTOMATISME POUR PORTAILS BATTANTS DREHTORANTRIEBE AUTOMATIZACIÓN PARA CANCELAS BATIENTES AANDRIJVING VOOR DRAAIPOORTEN



BLGRIFFE24M
24 Vdc Motors BLGRIFFE24TM
BLGRIFFE24S

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NEDERLANDS

LEGENDA

- 1 Motoriduttore (sinistra)
- 2 Motoriduttore (destra)
- 3 Fotocellula interna
- 4 Fotocellula esterna
- 5 Lampeggiatore
- 6 Selettore a chiave
- 7 Elettroserratura
- 8 Antenna esterna (Cavo coassiale
RG58 Impedenza **50Ω**)
- 9 Interruttore onnipolare con apertura
contatti min. **3 mm**
- 10 Cavo alimentazione principale **230 Vac**
- 11 Canaletura per cavo Cardin **CABPC10**
- 12 Canaletura per collegamenti a bassa tensione
- 13 Fotocellule laterali di protezione (**FS**)
- 14 Battuta di apertura

Attenzione: Lo schema rappresentato è puramente indicativo e viene fornito come base di lavoro al fine di consentire una scelta dei componenti elettronici Cardin da utilizzare. Detto schema non costituisce pertanto vincolo alcuno per l'esecuzione dell'impianto

LEGEND

- 1 Geared motor (left)
- 2 Geared motor (right)
- 3 Internal photocells
- 4 External photocells
- 5 Warning lights
- 6 Mechanical selector switch
- 7 Electric locking device
- 8 External antenna (**RG58** coaxial cable - impedance **50Ω**)
- 9 All-pole circuit breaker with a minimum of **3 mm** between the contacts
- 10 Mains cable **230 Vac**
- 11 Channelling for the Cardin connection cable **CABPC10**
- 12 Channelling route for low voltage wires
- 13 Lateral protective photocells (**FS**)
- 14 Opening travel limit

Attention: The drawing is purely indicative and is supplied as working base from which to choose the Cardin electronic components making up the installation. This drawing therefore does not lay down any obligations regarding the execution of the installation.

NOMENCLATURE

- 1 Motoréducteur (gauche)
- 2 Motoréducteur (droit)
- 3 Cellule photoélectrique intérieure
- 4 Cellule photoélectrique extérieure
- 5 Clignoteur
- 6 Contact à clé
- 7 Serrure électrique
- 8 Antenne (Câble coaxial **RG58** - Impédance **50Ω**)
- 9 Interrupteur omnipolaire avec ouverture des contacts d'au moins **3 mm**
- 10 Câble d'alimentation principale **230 Vac**
- 11 Chemin pour câble Cardin **CABPC10**
- 12 Chemin pour branchements basse tension
- 13 Cellules photoélectriques latérales de protection (**FS**)
- 14 Butée en ouverture

Attention: le schéma, diffusé à titre purement indicatif, est destiné à vous aider dans le choix des composants électroniques Cardin à utiliser. Par conséquent, il n'a aucune valeur obligatoire quant à la réalisation de l'installation.

ZEICHENERKLÄRUNG

- 1 Getriebemotor (links)
- 2 Getriebemotor (rechts)
- 3 Interne Lichtschanke
- 4 Externe Lichtschanke
- 5 Blinklicht
- 6 Schlüsselschalter
- 7 Elektroverriegelung
- 8 Antenne (Koaxialkabel **RG58** Impedanz **50Ω**)
- 9 Allpoliger Schalter mit Kontaktabstand von mindestens **3 mm**
- 10 Hauptversorgungskabel **230 Vac**
- 11 Kanalverlauf für Verbindungskabel Cardin **CABPC10**
- 12 Kanalverlauf für Anschluss auf Niederspannung
- 13 Seitliche Schutz-Lichtschranken (**FS**)
- 14 Öffnungsanschlag

Achtung: Bei dem dargestellten Plan handelt es sich nur um ungefähre Angaben und er wird als Arbeitsgrundlage geliefert, um eine Auswahl der zu benutzenden elektronischen Komponenten von Cardin zu erlauben. Der besagte Plan ist daher für die Ausführung der Anlage nicht bindend.

LEYENDA

- 1 Motorreductor (izquierda)
- 2 Motorreductor (derecha)
- 3 Fotocélula interior
- 4 Fotocélula exterior
- 5 Relampagueador
- 6 Selector con llave
- 7 Electrocerradura
- 8 Antena exterior (Cable coaxial **RG58** Impedancia **50Ω**)
- 9 Interruptor omnipolar con apertura entre los contactos de **3 mm.** como mín.
- 10 Cable de alimentación principal **230 Vac**
- 11 Canaleta para cable **CABPC10** Cardin
- 12 Canaleta para el conexionado a baja tensión
- 13 Fotocélulas laterales de protección (**FS**)
- 14 Tope de apertura

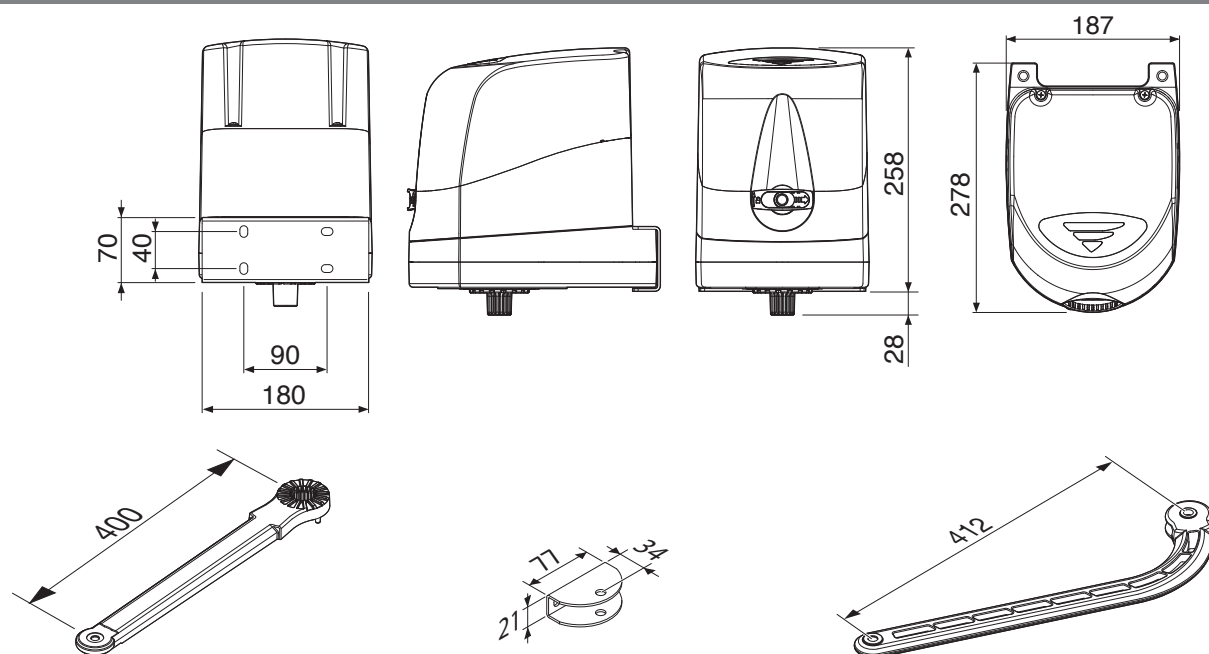
Atención: La pantalla que se muestra es sólo indicativa y se suministra como base de trabajo, con el fin de permitir una elección de los componentes electrónicos Cardin por utilizar; en consecuencia, dicho esquema no constituye vínculo alguno para la ejecución del sistema.

LEGENDE

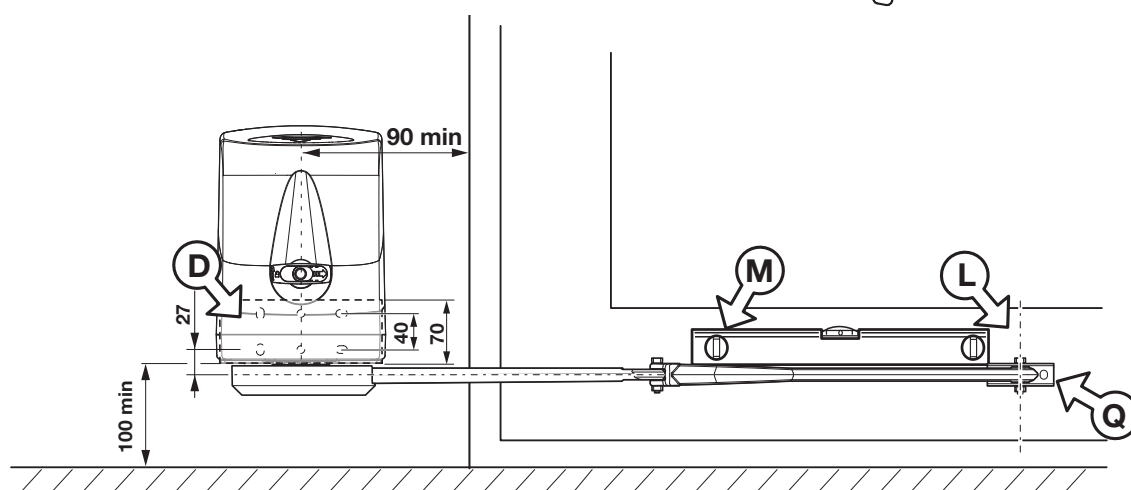
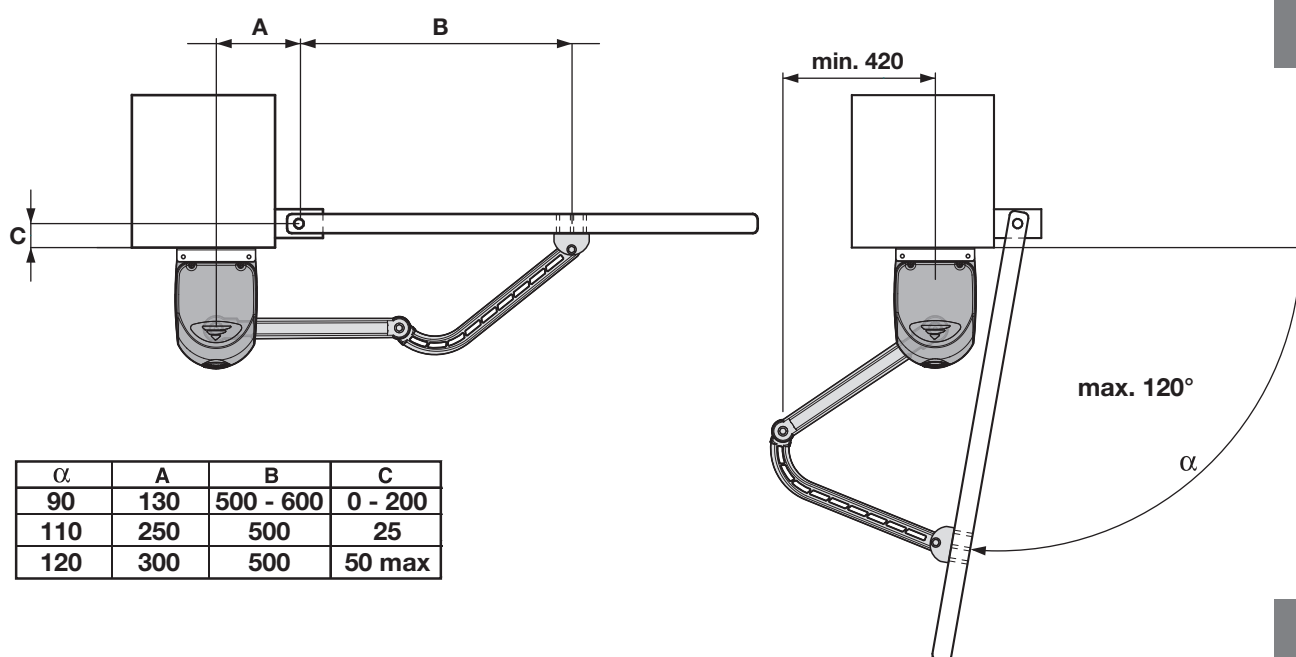
- 1 Reductiemotor (links)
- 2 Reductiemotor (rechts)
- 3 Fotocellen binnenzijde poort
- 4 Fotocellen buitenzijde poort
- 5 Waarschuwingsslamp
- 6 Sleutelcontact
- 7 Elektrisch slot
- 8 Externe antenne (coaxkabel **RG58** impedantie **50Ω**)
- 9 Meerpolige onderbrekingsschakelaar met contactafstand van minstens **3 mm**
- 10 Hoofdvoedingskabel **230 Vac**
- 11 Kabelgoot voor Cardin kabel **CABPC10**
- 12 Kabelgoot voor laagspanningsaansluitingen
- 13 Fotocellen voor zijdelingse bescherming (**FS**)
- 14 Openingsbegrenzer (stopbuffer)

Opgelet: De tekening is alleen voor informatieve doeleinden en is bedoeld om u te helpen bij de keuze van de elektronische componenten van Cardin. Deze tekening mag dan ook niet beschouwd worden als bindend voor het uitvoeren van de installatie.

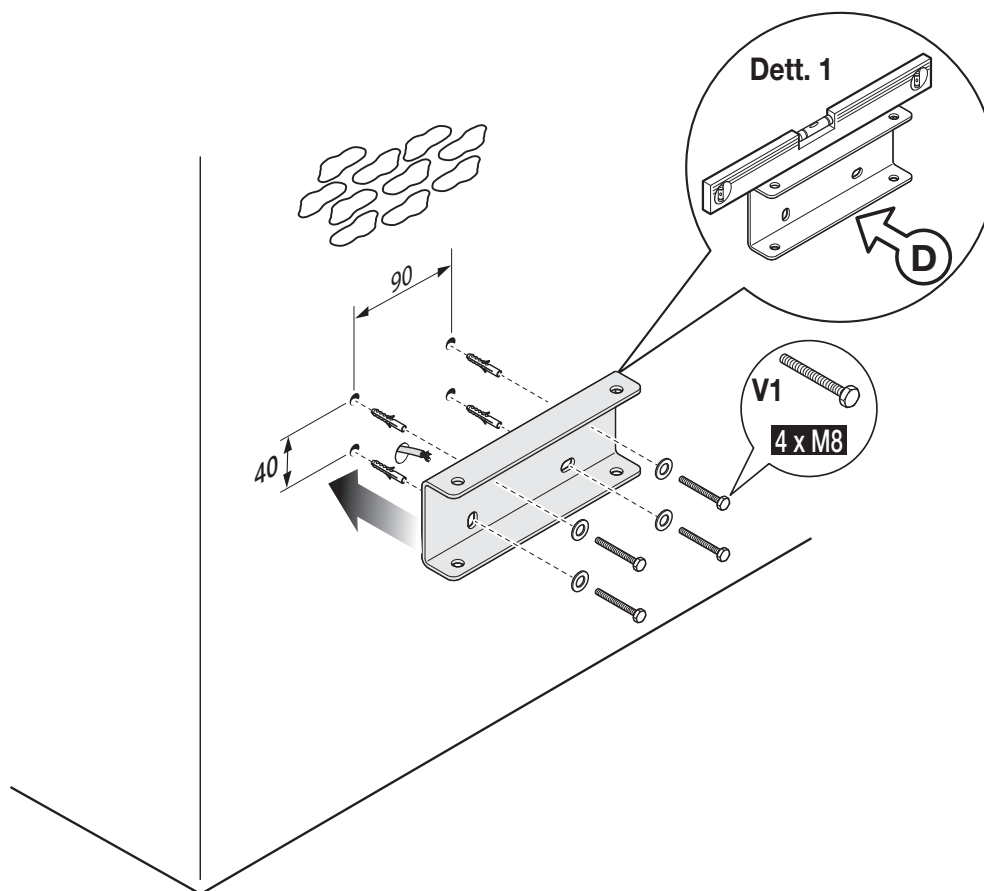
**DIMENSIONI D'INGOMBRO - EXTERNAL DIMENSIONS - DIMENSIONS D'ENCOMBREMENT
AUSSENABMESSUNGEN - DIMENSIONES MAXIMAS - AFMETINGEN**



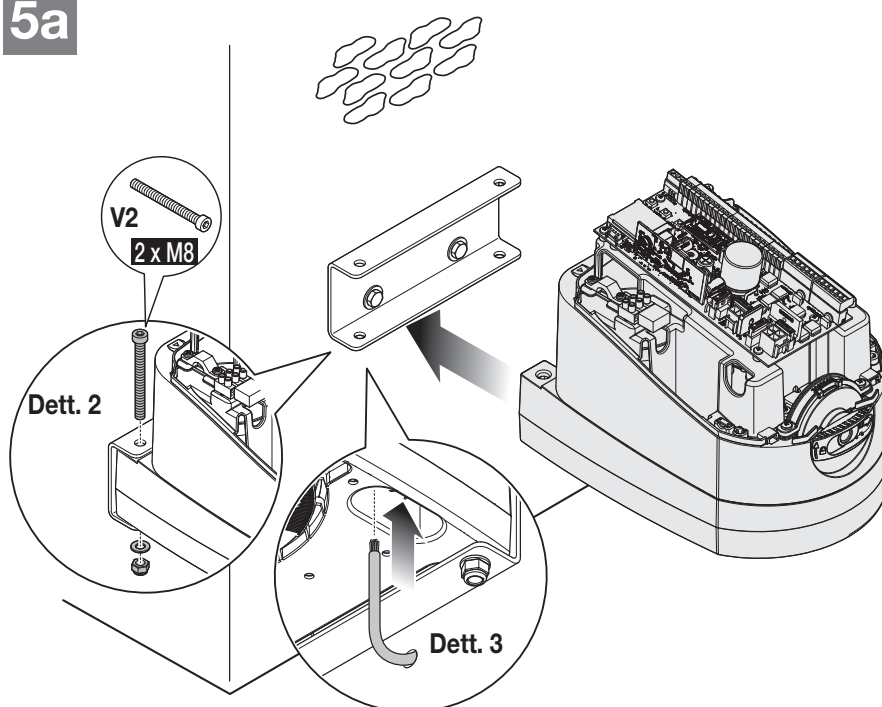
**LIMITI D'IMPIEGO - LIMITS OF USE - CONTRAINTES D'UTILISATION - ANWENDUNGSGRENZEN
LIMITES DE EMPLEO - GEBRUIKSGRENZEN**



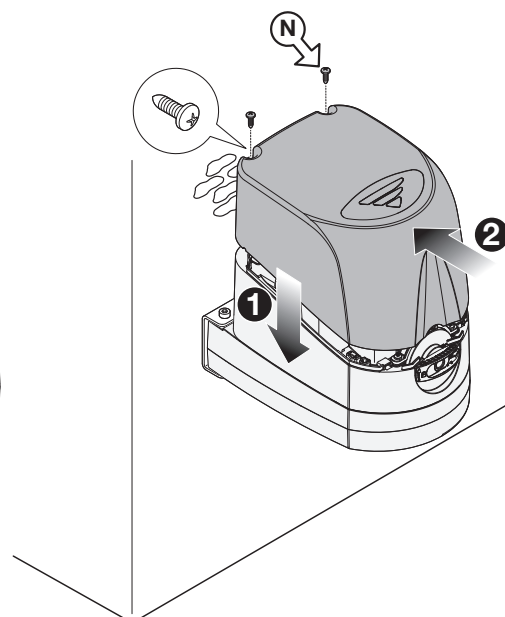
5

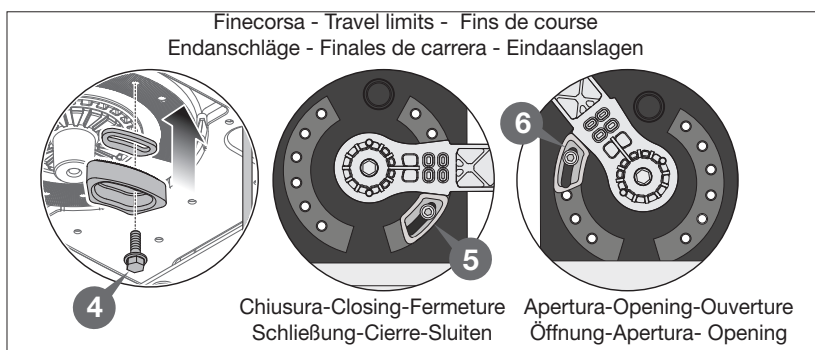
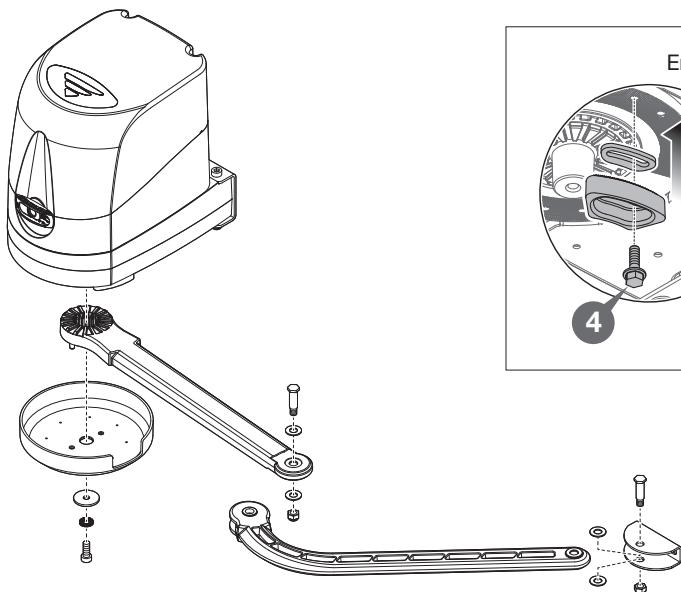


5a



5b



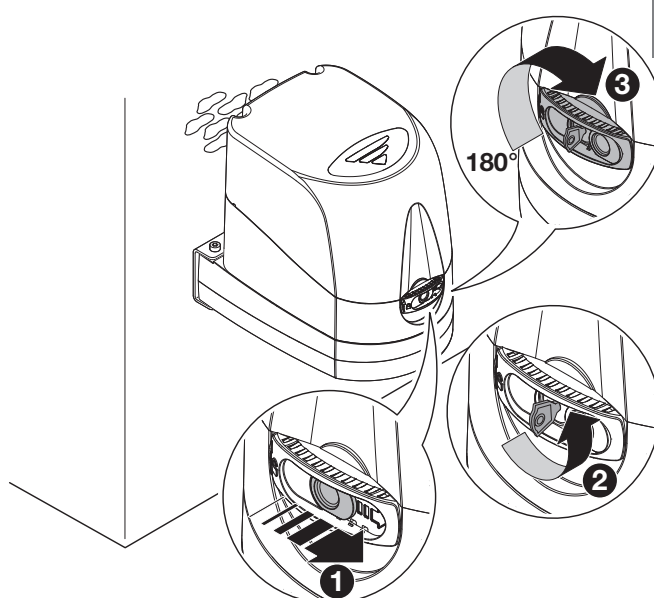
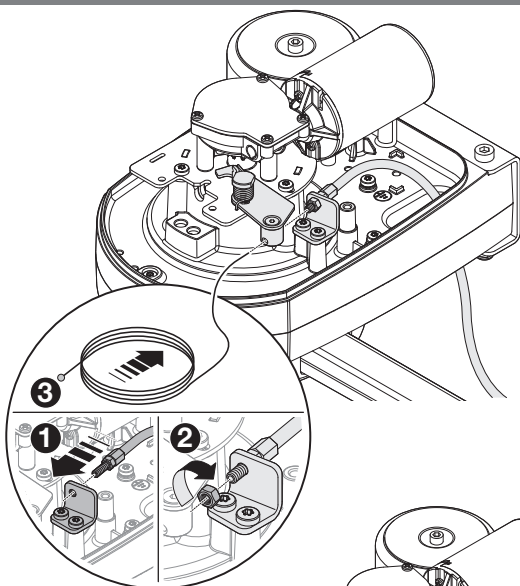


6

SBLOCCO MANUALE - MANUAL RELEASE MECHANISM
DISPOSITIF DE DEVERROUILLAGE MECANIQUE
MANUELLE ENTRIEGELUNG - DESBLOQUEO MANUAL
HANDMATIG ONTGRENDELING

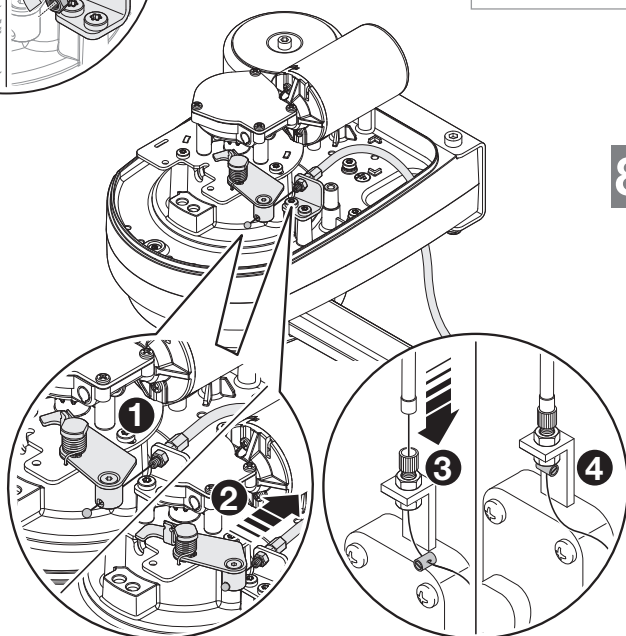
SBLOCCO A CORDINO - MANUAL RELEASE CORD
DÉVERROUILLAGE MANUEL À CÂBLE - SEILZUGENTRIEGELUNG
DESBLOQUEO MANUAL CON CABLE
HANDMATIGE ONTGRENDELING KOORD

8

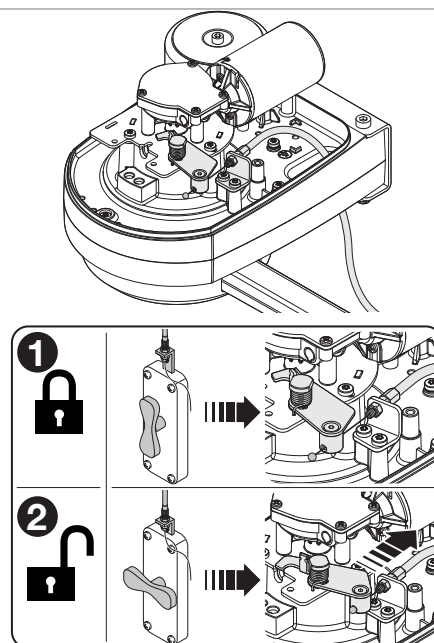


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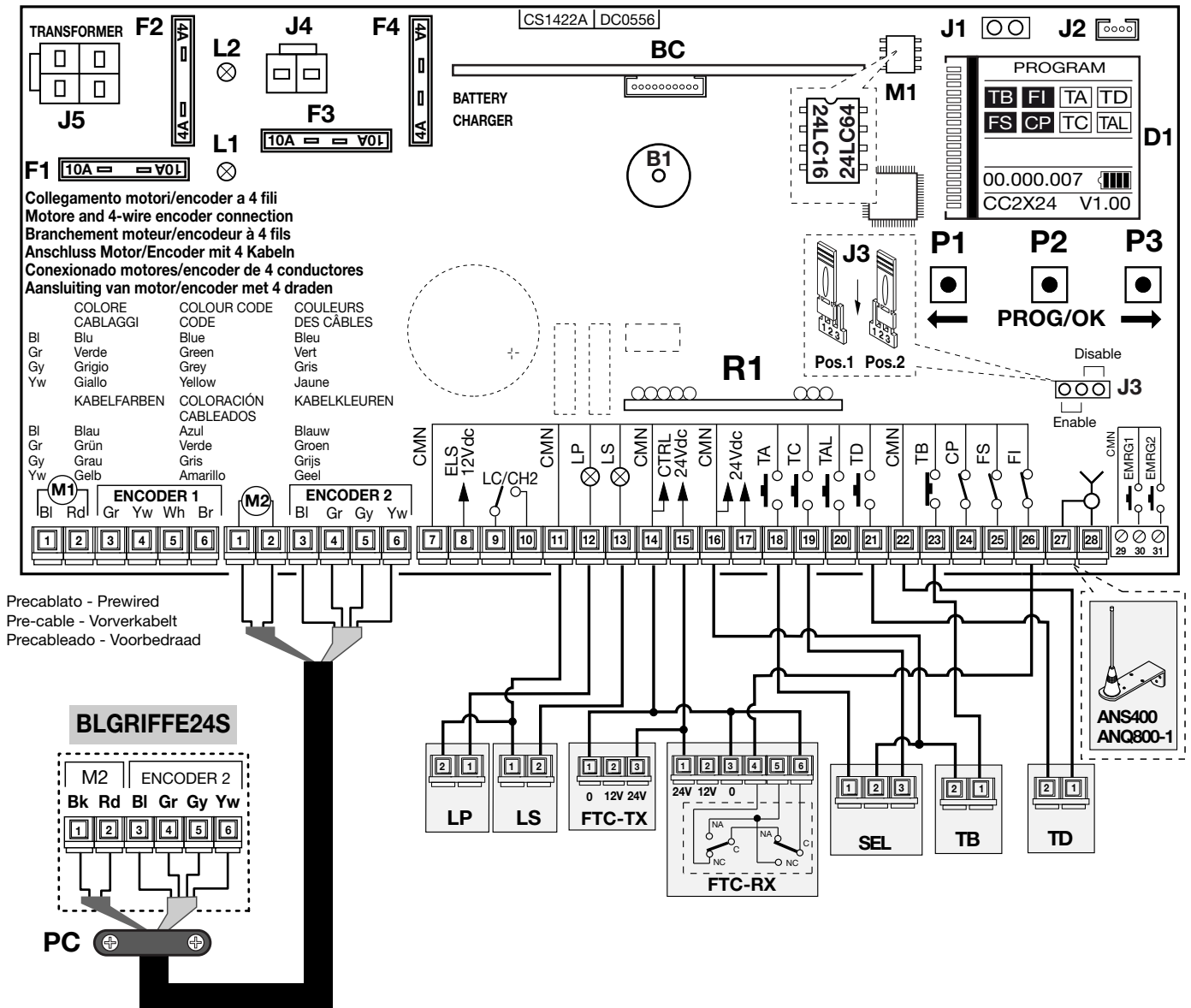
8a



8b



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LEGENDA

LP	Lampeggiante
LS	Lampada spia
FTC-RX	Fotocellula ricevitore
FTC-TX	Fotocellula trasmettitore
SEL	Selettore a chiave
TB	Tasto di blocco
TD	Tasto dinamico
ANS400	Antenna esterna (433 MHz)
ANQ800-1	Antenna esterna (868 MHz)

LEGEND

LP	Flashing warning lights
LS	Indicator light
FTC-RX	Photocell receiver
FTC-TX	Photocell transmitter
SEL	Selector switch
TB	Blocking button
TD	Dynamic button (sequential)
ANS400	External antenna (433 MHz)
ANQ800-1	External antenna (868 MHz)

NOMENCLATURE

LP	Clignoteur
LS	Lampe témoin
FTC-RX	Cellule photoél. récepteur
FTC-TX	Cellule photoél. émetteur
SEL	Contact à clé
TB	Touche de blocage
TD	Commande séquentielle
ANS400	Antenne externe (433 MHz)
ANQ800-1	Antenne externe (868 MHz)

ZEICHENERKLÄRUNG

LP	Blinklicht
LS	Kontroll-Lampe
FTC-RX	Lichtschrank Empfänger
FTC-TX	Lichtschrank Sender
SEL	Schlüsselwahlschalter
TB	Blockiertaste
TD	Taste sequentieller Befehl
ANS400	Außenantenne (433 MHz)
ANQ800-1	Außenantenne (868 MHz)

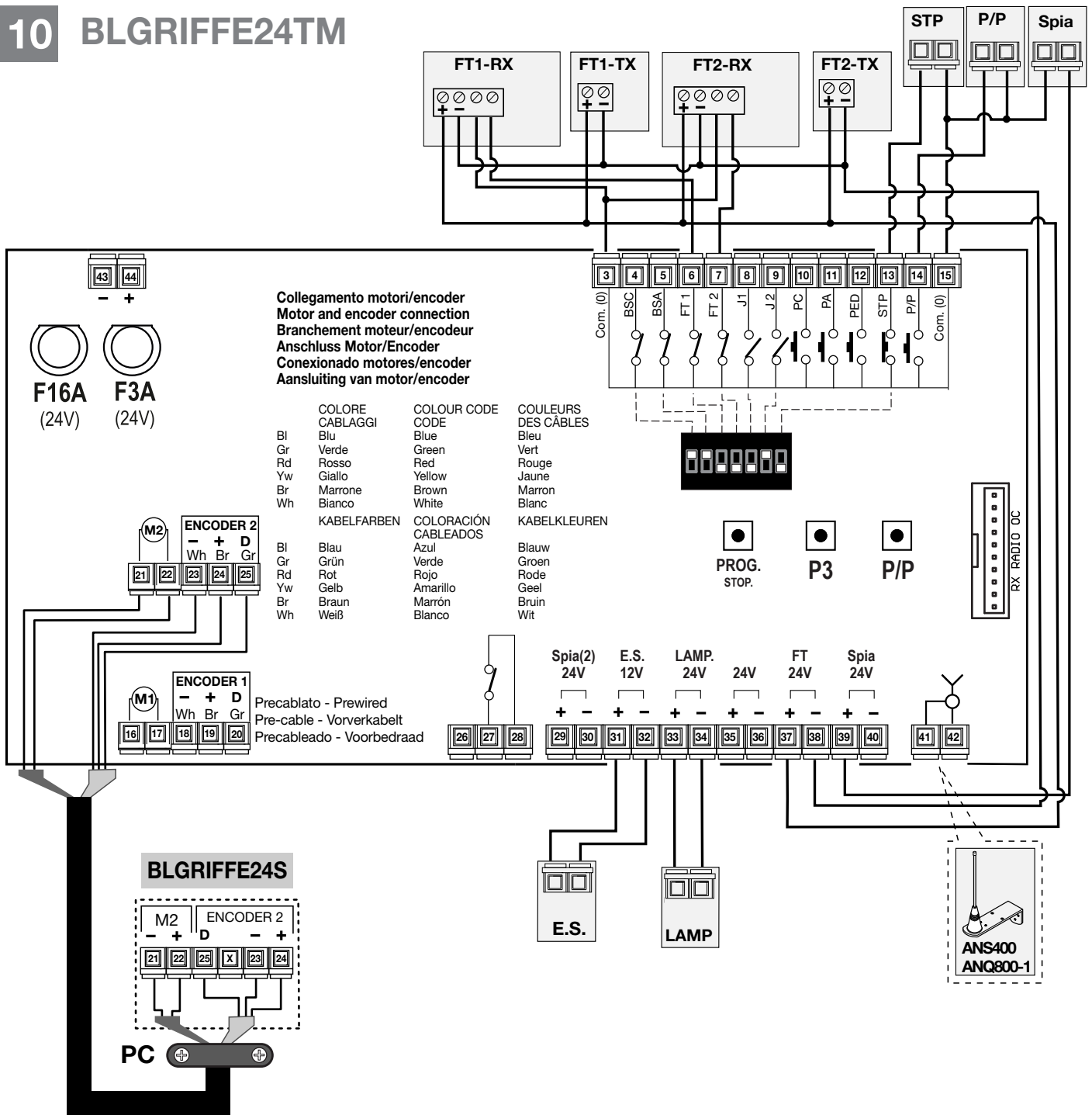
LEYENDA

LP	Relampagueador
LS	Luz testigo
FTC-RX	Fotocélula receptor
FTC-TX	Fotocélula emisor
SEL	Selector de llave
TB	Tecla de bloqueo
TD	Tecla de control secuencial
ANS400	Antena exterior (433 MHz)
ANQ800-1	Antena exterior (868 MHz)

LEGENDE

LP	Waarschuwinglamp
LS	Controlelampje
FTC-RX	Fotocel ontvanger
FTC-TX	Fotocel zender
SEL	Sleutelcontact
TB	Stopknop
TD	Dynamische knop
ANS400	Externe antenne (433 MHz)
ANQ800-1	Externe antenne (868 MHz)

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LEGENDA

LAMP	Lampeggiante
SPIA	Lampada spia
FT-RX	Fotocellula ricevitore
FT-TX	Fotocellula trasmettitore
STP	Tasto di blocco
P/P	Tasto dinamico
E.S.	Elettroserratura
ANS400	Antenna esterna (433 MHz)
ANQ800-1	Antenna esterna (868 MHz)

LEGEND

LAMP	Flashing warning lights
SPIA	Indicator light
FT-RX	Photocell receiver
FT-TX	Photocell transmitter
STP	Blocking button
P/P	Dynamic button (sequential)
E.S.	Electric lock
ANS400	External antenna (433 MHz)
ANQ800-1	External antenna (868 MHz)

NOMENCLATURE

LAMP	Clignoteur
SPIA	Lampe témoin
FT-RX	Cellule photoél. récepteur
FT-TX	Cellule photoél. émetteur
STP	Touche de blocage
P/P	Commande séquentielle
E.S.	Serrure électrique
ANS400	Antenne externe (433 MHz)
ANQ800-1	Antenne externe (868 MHz)

ZEICHENERKLÄRUNG

LAMP	Blinklicht
SPIA	Kontroll-Lampe
FT-RX	Lichtschrank Empfänger
FT-TX	Lichtschrank Sender
STP	Blockiertaste
P/P	Taste sequentieller Befehl
E.S.	Elektroschloss
ANS400	Außenantenne (433 MHz)
ANQ800-1	Außenantenne (868 MHz)

LEGENDA

LAMP	Relampagueador
SPIA	Luz testigo
FT-RX	Fotocélula receptor
FT-TX	Fotocélula emisor
STP	Tecla de bloqueo
P/P	Tecla di control secuencial
E.S.	Cerradura eléctrica
ANS400	Antena exterior (433 MHz)
ANQ800-1	Antena exterior (868 MHz)

LEGENDE

LAMP	Waarschuwinglamp
SPIA	Controlelampje
FT-RX	Fotocel ontvanger
FT-TX	Fotocel zender
STP	Stopknop
P/P	Dynamische knop
E.S.	Elektrische sloten
ANS400	Externe antenne (433 MHz)
ANQ800-1	Externe antenne (868 MHz)

NOTES:

NOTES:

ATTENTION! IMPORTANT SAFETY INSTRUCTIONS

READING THESE INSTRUCTIONS IS IMPORTANT FOR PERSONAL SAFETY. READ THE FOLLOWING REMARKS CAREFULLY BEFORE PROCEEDING WITH THE INSTALLATION. PAY PARTICULAR ATTENTION TO ALL THE PARAGRAPHS MARKED WITH THE SYMBOL  IN THIS ORIGINAL INSTRUCTION MANUAL. NOT READING THESE IMPORTANT INSTRUCTIONS COULD COMPROMISE THE CORRECT WORKING ORDER OF THE SYSTEM AND CREATE DANGER SITUATIONS FOR THE USERS OF THE SYSTEM. SAVE THESE INSTRUCTIONS FOR FUTURE USE. THE ORIGINAL INSTRUCTIONS AND RELATIVE UPDATES ARE AVAILABLE IN DIGITAL FORMAT FROM THE WEBSITE WWW.CARDIN.IT.

- These instructions are aimed at professionally qualified '**INSTALLERS OF ELECTRICAL EQUIPMENT**' and must respect the local standards and regulations in force.

All materials used must be approved and must suit the environment in which the installation is situated and all maintenance operations must be carried out by professionally qualified technicians.

- This appliance must be used exclusively for the purpose for which it has been made. '**i.e. for the automation of hinged gates**' with one or two gate leaves.
 - maximum gate length **2 m (2,5 m)** with an electric lock)
 - maximum gate weight **200 kg**.
 - minimum column width **180 mm**.



CAUTION! Mechanical stop buffers must be installed in both the closing and opening positions.

IMPORTANT SAFETY INSTRUCTIONS

It is the responsibility of the installer to make sure that the following public safety conditions are satisfied:

- 1) Ensure that the gate operating installation is far enough away from the main road to eliminate possible traffic disruptions.
- 2) The motor must be installed on the inside of the property and not on the public side of the gate. The gates must not open onto a public area.
- 3) The gate operator is designed for use on gates through which vehicles are passing. Pedestrians should use a separate entrance.
- 4) The controls must be installed at a height between **1,5 and 1,8 m** and in a location not accessible to children. Controls installed externally must be protected by a safety device inhibiting unauthorised use.
- 5) At least two warning signs (similar to the example on the right) should be placed, where they can be easily seen by the public, in the area of the system of automatic operation. One inside the property and one on the public side of the installation. These signs must be indelible and not hidden by any objects (such as tree branches, decorative fencing etc.).
- 6) Make sure that the end-user is aware that children and/or pets must not be allowed to play within the area of a gate installation. If possible include this in the warning signs.
- 7) Whenever a fully open gate leaf comes within **at 500 mm** of a fixed structure the space must be protected by an anticrush buffer.
- 8) You are advised to protect the system's lateral access points with pairs of (FS) photocells connected to the stop input, see installation example, component 14 on page 2.
- 9) If you have any questions about the safety of the gate operating system, do not install the operator. Contact your dealer for assistance.



TECHNICAL DESCRIPTION

BLGRIFFE24M/BLGRIFFE24TM self-locking **Master** reduction unit with an incorporated encoder, on-board electronics and an aluminium operator arm.

BLGRIFFE24S self-locking **Slave** reduction unit with an incorporated encoder without on-board electronics, complete with aluminium operator arm.

- Direct current drive motor max. **24 Vdc**.
- Permanently lubricated double worm screw reduction unit. Externally activated manual release system (Cardin patent) managing the release of the gears from the gate (emergency manoeuvre).
- A plastic framework is fixed to the reduction unit chassis and houses the electronic programmer, the toroidal transformer and the radio frequency module. The battery charger and special Cardin emergency **NiMH** batteries are optional.
- Motor support base in galvanised steel.

USER INSTRUCTIONS



Attention! Only for EU customers - **WEEE marking**.

This symbol indicates that once the products life-span has expired it must be disposed of separately from other rubbish. The user is therefore obliged to either take the product to a suitable differential collection site for electronic and electrical goods or to send it back to the manufacturer if the intention is to replace it with a new equivalent version of the same product.

Suitable differential collection, environmental friendly treatment and disposal contributes to avoiding negative effects on the ambient and consequently health as well as favouring the recycling of materials. Illicitly disposing of this product by the owner is punishable by law and will be dealt with according to the laws and standards of the individual member nation.

During the opening/closing manoeuvre check for correct operation and activate the emergency stop button in case of danger. During blackouts the gate can be released and manually manoeuvred using the supplied release key (see manual release page 13).

INSTALLATION INSTRUCTIONS

The minimum controls which may be installed are OPEN-STOP-CLOSE, these controls must be installed in a location not accessible to children and outside the opening range of the gate.

Before starting the installation of the system check that the structure which is to be automated is in good working order and respects the local standards and regulations in force.

To this end make sure that the gate is sufficiently rigid (if necessary reinforce the structure) and that it pivots easily.

You are advised to grease all the moving parts using lubricants which maintain unaltered friction characteristics over a period of time and are suitable for temperatures of **-20 to +70°C**.

- Check the safety measures between the fixed and moving parts:
 - a minimum space of **30 mm** must always be left along the entire distance between the gate and the support column measured throughout the entire opening angle of the gate.
 - make sure that the space between the bottom of the gate and the pavement never exceeds **30 mm** throughout the entire opening angle of the gate.
- The surface of the gate must not feature openings which allow a person's hand or foot to pass through.
- Check the exact positioning of the pivots, and their good working order (the upper and lower hinges/pivots must be aligned on the same axis).
- Work out the run of the cables according to the command and control devices fitted and make sure the system conforms to the local standard and regulations in force (see installation example).
- Check that the appliance is suitable for the size, weight and duty cycle of the gate to which it is to be applied (see duty cycle on page 24).

ASSEMBLY PROCEDURE

The unit may be positioned either to the **right** or to the **left** of the passageway:

- Move the gate/s to the closed position.
- Choose the value "**A**" according to the required opening angle (fig. 3) and work out (depending on the structural characteristics of the gate) at what height the front bracket "**Q**" will be fitted to the gate.

Once the position has been established, fasten the galvanised steel base "**D**" (fig. 5) using 4 M8 screws and 4 Ø14 steel rawlplugs (not supplied) making sure that the steel base is perfectly square.
- Fasten the geared motor to the galvanised steel base "**D**" using the screws "**G**" with relative self-locking nuts and washers.

- Assemble the articulated operator arm following the indications shown in figure 6.
- Release the motor (fig. 7).
- After finishing the installation of the appliance and carrying out the electrical connection fit the carter (fig. 5b) using the self-tapping screws and steel washers “N” and making sure that the two lower teeth on the plastic base lock the cover.
- You are advised to always fit an electric locking device on the installation (see standard installation fig. 1).

MANUAL RELEASE MECHANISM (fig. 7)

Releasing the gate should only be carried out when the motor has stopped because of blackouts.

To release the gate use the key supplied with the appliance and turn it anti-clockwise: details “1” and “2”.

Releasing the gate

Open the access door and rotate the lever as shown in detail “3” until it reaches the release position.

This will release the geared motor and free the gate, which can then be opened by pushing lightly on the gate.

Locking the gate

Carry out the previous operations in the reverse order.

Mounting the optional manual release cord (fig 8)

- Slide out the wire cord from its sheath and insert the free end into the hole on the release lever, point 1 fig. 8. Slide the regulating device onto the free end and then the sheath, points 2 and 3 fig. 8.
- Fasten down the sheath by inserting the regulating device into its seat, points 2 and 3 fig. 8. Regulate it by as shown in 1/3 and 2/4 fig. 8a.
- Connect the wire cord and the sheath to the handle and/or external closing device as shown in points 1 and 2 fig. 8b.

Setting the mechanical travel limits (fig. 6)

- Release the geared motor.
- Move the gate to the open position, place the mechanical stop onto the straight arm and fasten down using the supplied screws and washers, see figure 6 details “4” and “5”.
- You may also install a mechanical stop in the closing position by following the previous described instructions and consulting detail “6”.

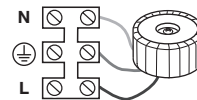
ELECTRICAL CONNECTION

Important remarks

- After having installed the device, **and before powering up the programmer**, release the door (manual release mechanism) and move it manually, checking that it moves smoothly and has no unusual points of resistance.
- The presence of the electrical current sensor does not dispense with the obligation to install photoelectric cells and other safety devices foreseen by the safety standards in force.
- Before connecting the appliance make sure that the voltage and frequency rated on the data plate conform to the mains supply.
- The motor's power cable must be made of polychloroprene in conformity with the international standard **60245 IEC 57** (e.g. **3 x 1.5 mm² H05RN-F**).
- The cable may only be replaced by qualified technicians.
- An all pole trip switch with at least **3 mm** between the contacts must be installed between the unit and the mains supply.
- Don't use cables with aluminium conductors; don't solder the ends of cables which are to be inserted into the binding posts; use cables marked **T min 85°C** and resistant to atmospheric agents.
- The terminal wires must be positioned in such a way that both the wire and the insulating sheath are tightly fastened.

POWER SUPPLY CONNECTION 230 Vac

- Connect the control and security device wires.
- Run the mains power supply to the **separate three-way** terminal board that is already connected to the transformer.
- The master motor “M1” and relative encoder are pre-wired. If you need to disconnect them (for maintenance interventions etc.) you must replace the cable following the colour order of the wires as shown in figure 9-10.



PREPARING THE MOTOR CONNECTION WIRES (fig. 9-10)

- connect the wires of motor “M2” and encoder “2” to the wiring board of the slave motor (second motor);
- you must scrupulously respect the motor connection sequence between the motors and the programmer;
- run the end of the cable to the terminal board on the master motor and connect it to the wiring board;
- follow the fig. 9 diagram (on page 6) to complete the electrical connection of the second motor to the **BLGRIFFE24M**;
- follow the fig. 10 diagram (on page 7) to complete the electrical connection of the second motor to the **BLGRIFFE24TM**.

Note: If you need to choose a longer cable for particular installations (cut from the 100 metres of cable supplied in a reel) you must remember that in order to avoid current dispersion the maximum length of the cable must not exceed **20 metres**.

Electronic programming unit

BLGRIFFE24M

Instructions for programming the ECU and battery powered operation can be found in the **MULTI-ECU SOFTWARE** manual **ZVL608** supplied with the automation.

BLGRIFFE24TM

Instructions for programming the ECU and battery powered operation can be found in the **T624** manual **ZVL609** supplied with the automation.

MAINTENANCE

To use the **36 month** or **50000 manoeuvre** guarantee, read the following notes carefully.

Attention! Before carrying out any cleaning or maintenance operations make sure the power is disconnected at the mains, the motor power cables are disconnected and the batteries have been disconnected.

Eventual repair work must be carried out by specialised personnel using original spare parts.

The motor does not normally require particular maintenance; in any case the **36 month** or **50000 manoeuvre** guarantee is only valid if the following controls have been observed and eventual maintenance has been carried out to the machine ‘**hinged gate**’:

- periodically check the moving parts for wear and tear and grease if required using lubricants which maintain their friction levels unaltered throughout time and are suitable for temperatures of **-20 to +70°C**.
- periodically check the correct operation of all safety devices (photoelectric cells, safety edges etc.);
- check the battery charge level.

These checks must be written down as they are paramount in validating the guarantee.

CODICE	SERIE	MODELLO	DATA
DCE174	BLGRIFFE	24 Vdc	27-04-2023

  **Dichiarazione di Incorporazione**
(Direttiva Macchine 2006/42/EC, All. IIB)  

NOTES:

CARATTERISTICHE TECNICHE

Caratteristiche dell'attuatore

Alimentazione motore	Vdc	24
Corrente nominale assorbita	A	2
Potenza assorbita	W	50
Intermittenza di lavoro	%	70
Tempo di apertura 90°	s	16
Apertura massima	°	120
Coppia massima	Nm	250
Grado di protezione	IP	54

* con l'utilizzo del braccio dritto

TECHNICAL SPECIFICATIONS

Operator arm specifications

Motor power supply	Vdc	24
Nominal electrical input	A	2
Power input	W	50
Duty cycle	%	70
Opening time 90°	s	16
Maximum opening angle	°	120
Maximum torque	Nm	250
Protection grade	IP	54

* using a straight operator arm

CARACTÉRISTIQUES TECHNIQUES

Caractéristiques de l'opérateur

Alimentation du moteur	Vdc	24
Courant nominal absorbé	A	2
Puissance absorbée	W	50
Facteur de marche	%	70
Temps d'ouverture 90°	s	16
Ouverture maximum	°	120
Couple maximum	Nm	250
Indice de protection	IP	54

* avec bras droit

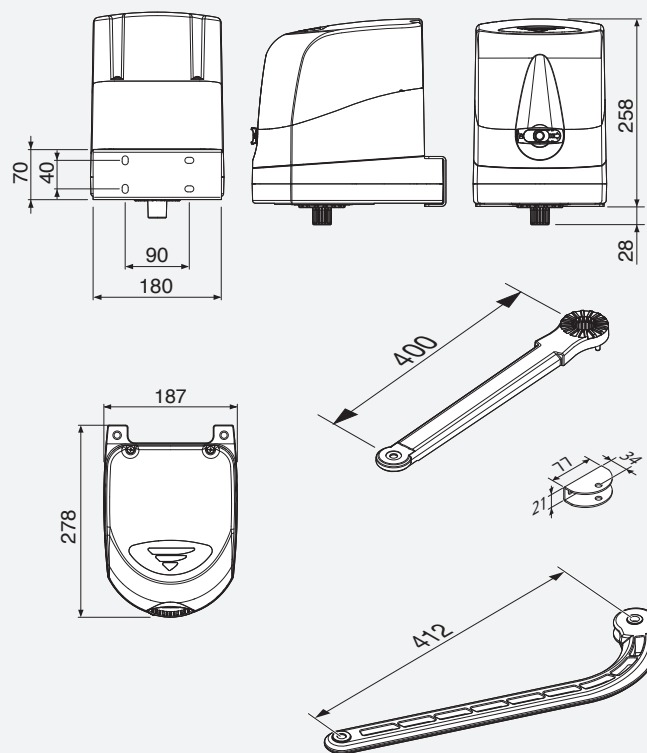
TECHNISCHE DATEN

Daten des Antriebs

Motorstromversorgung	Vdc	24
Stromaufnahme	A	2
Leistungsaufnahme	W	50
Einschaltdauer	%	70
Öffnungszeit 90°	s	16
Max. Öffnungswinkel	°	120
Drehmoment	Nm	250
Schutzgrad	IP	54

* bei Benutzung des geraden Arms

DIMENSIONI D'INGOMBRO - EXTERNAL DIMENSIONS DIMENSIONS D'ENCOMBREMENT - AUSSENABMESSUNGEN DIMENSIONES MAXIMAS - AFMETINGEN



DATOS TÉCNICOS

Datos técnicos del operador

Alimentación motor	Vdc	24
Corriente absorbida	A	2
Potencia absorbida	W	50
Intermitencia de trabajo	%	70
Tiempo de apertura 90°	s	16
Apertura máxima	°	120
Par máxima	Nm	250
Grado de protección	IP	54

* con uso de brazo recto

TECHNISCHE SPECIFICATIES

Kenmerken van de aandrijving

Voeding motor	Vdc	24
Stroomverbruik	A	2
Opgenomen vermogen	W	50
Arbeidscyclus	%	70
Openingstijd tot 90°	s	16
Max. openingshoek	°	120
Max. koppel	Nm	250
Beschermingsgraad	IP	54

* met rechte arm



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