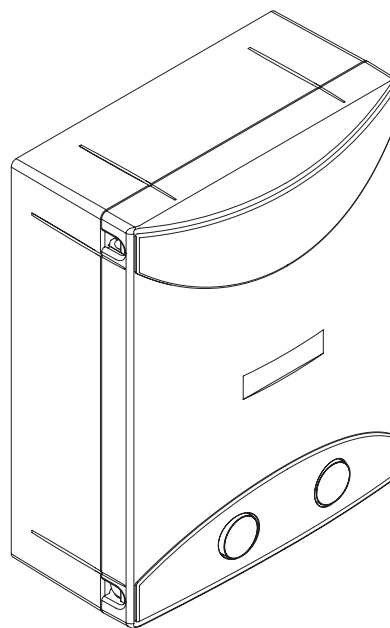


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Rev. 03/07/03

# BENINCA®

CENTRALE DI COMANDO  
**CONTROL UNIT**  
*STEUEREINHEIT*  
**CENTRALE DE COMMANDE**  
CENTRAL DE MANDO  
**CENTRALKA STEROWANIA**

## START



Libro istruzioni  
**Operating instructions**  
*Betriebsanleitung*  
**Livret d'instructions**  
Manual de instrucciones  
**Książeczka z instrukcjami**



UNIONE NAZIONALE COSTRUTTORI  
AUTOMATISMI PER CANCELLI, PORTE,  
SERRANDE ED AFFINI

**Dichiarazione CE di conformità**  
**EC declaration of conformity**  
**EG-Konformitätserklärung**

**Déclaration CE de conformité**  
**Declaracion CE de conformidad**  
**Deklaracja UE o zgodności**

Con la presente dichiariamo che il nostro prodotto  
We hereby declare that our product  
Hiermit erklaren wir, dass unser Produkt  
Nous déclarons par la présente que notre produit  
Por la presente declaramos que nuestro producto  
Niniejszym oświadczamy że nasz produkt

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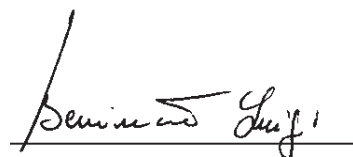
**START**

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è conforme alle seguenti disposizioni pertinenti:  
complies with the following relevant provisions:  
folgenden einschlagigen Bestimmungen entspricht:  
correspond aux dispositions pertinentes suivantes:  
satisface las disposiciones pertinentes siguientes:  
zgodny jest z poniżej wyszczególnionymi rozporządzeniami:

Direttiva sulla compatibilità elettromagnetica  
(89/336/CCE, 93/68/CEE)  
EMC guidelines (89/336/EEC, 93/68/EEC)  
EMV-Richtlinie (89/336/EWG, 93/68/EWG)  
Directive EMV (89/336/CCE, 93/68/CEE)  
(Compatibilité électromagnétique)  
Reglamento de compatibilidad electromagnética  
(89/336/MCE, 93/68/MCE)  
Wytyczna odnośnie zdolności współdziałania elektromagne-  
tycznego (89/336/EWG, 93/68/EWG)

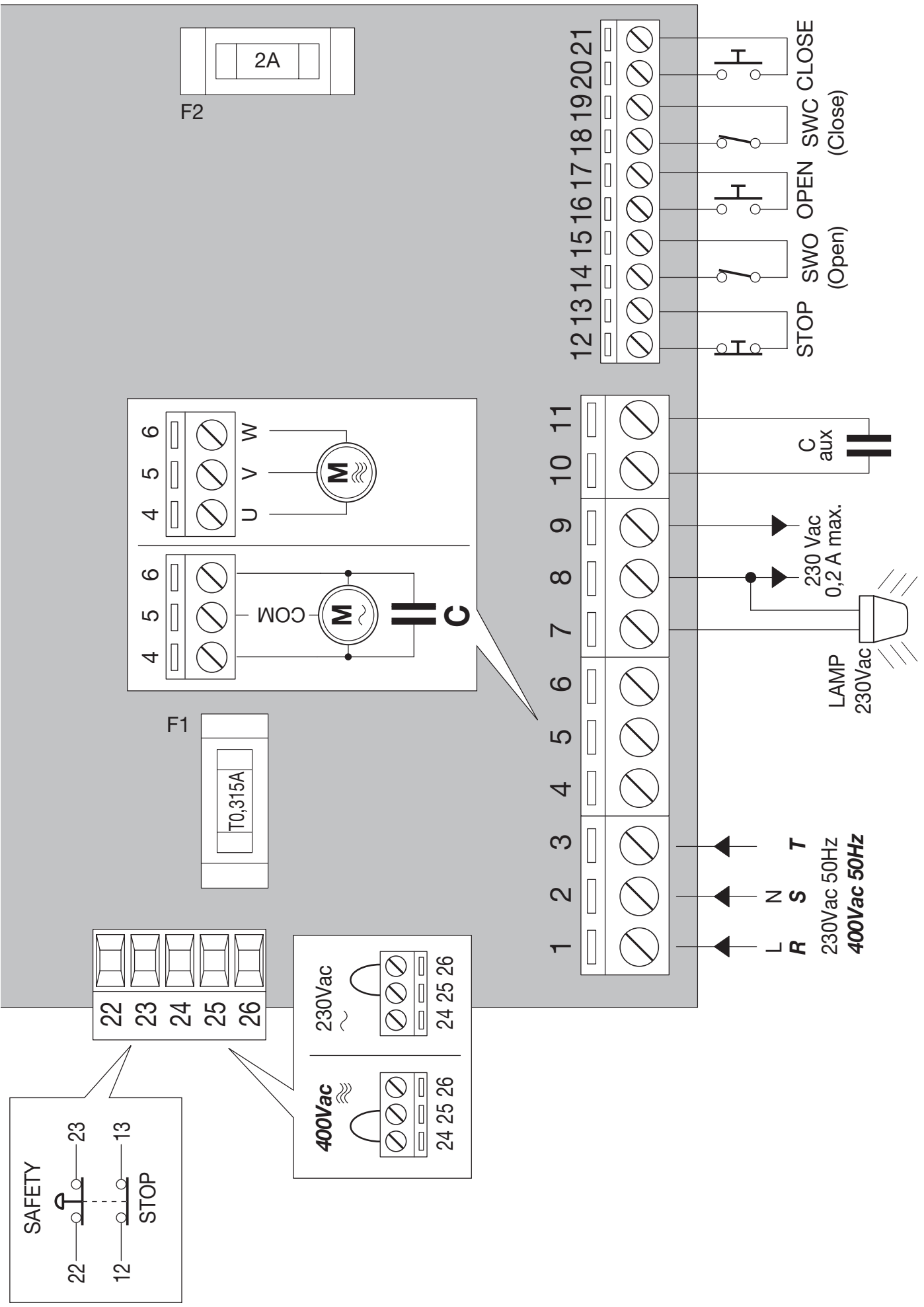
Direttiva sulla bassa tensione (73/23/CEE, 93/68/CEE)  
Low voltage guidelines (73/23/EEC, 93/68/EEC)  
Tiefe Spannung Richtlinie (73/23/EWG, 93/68/EWG)  
Directive bas voltage (73/23/CEE, 93/68/CEE)  
Reglamento de bajo Voltaje (73/23/MCE, 93/68/MCE)  
Wytyczna odnośnie niskiego napięcia (73/23/EWG,  
93/68/EWG)



Benincà Luigi, Responsabile legale.  
Sandrigo, 01/06/2006.

**BENINCA®**

Automatismi Benincà SpA  
Via Capitello, 45  
36066 Sandrigo (VI)  
ITALIA



## START Control Unit

The **START** electronic control unit can be used to control 1 single-phase, 230Vac motor, or a three-phase 400Vac motor with power not exceeding 750W for the single-phase motor and 2200W for the three-phase motor.

### IMPORTANT:

**This control unit operates with "Hold-to-run" mode.**

The OPEN - CLOSED push-buttons must be kept pressed for the entire operation time.

Do not use controls with self-hold contact.

The control devices should be placed near the opening.

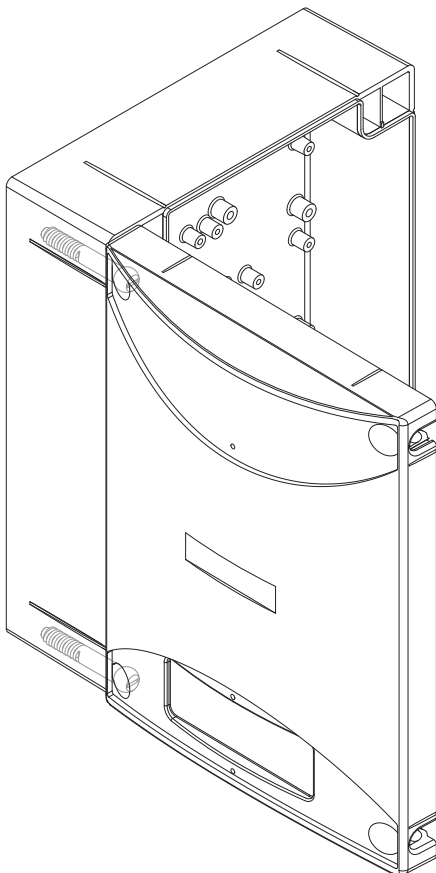
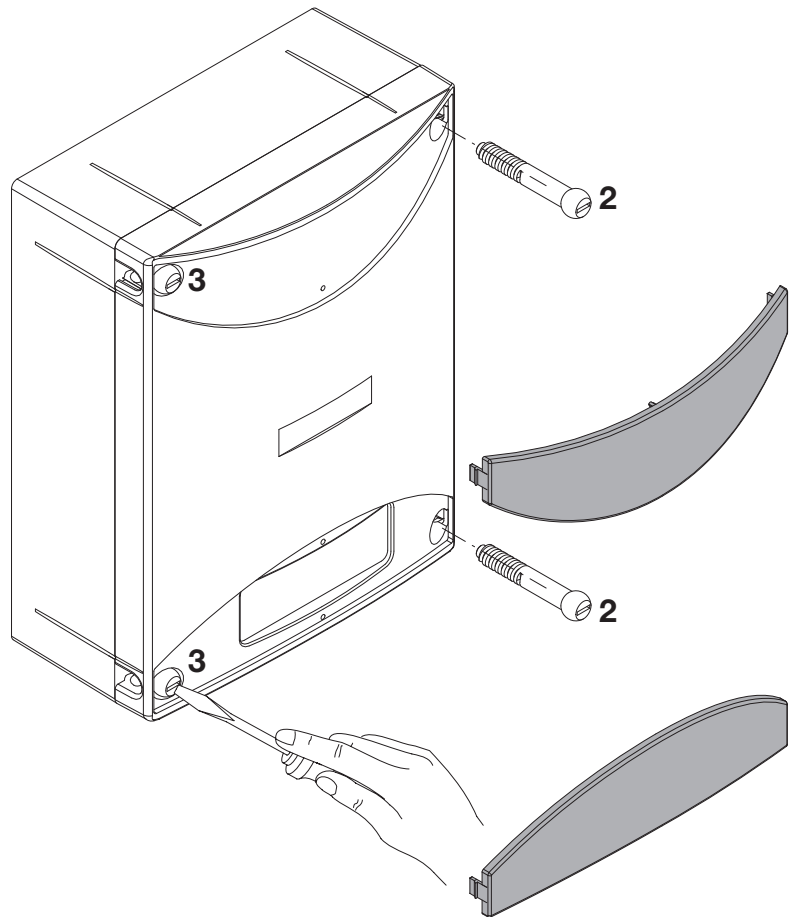
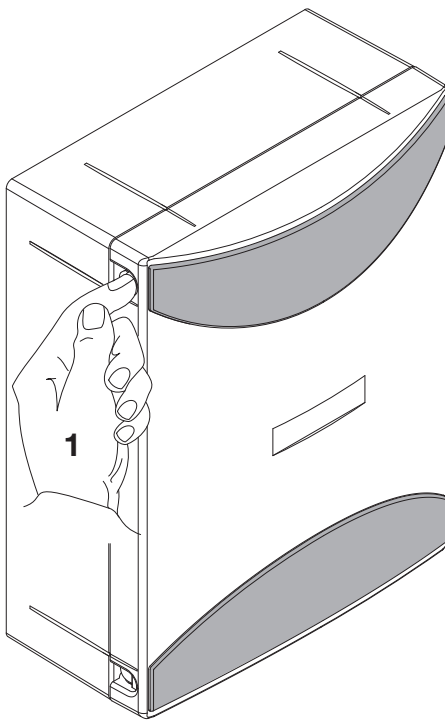
The operator who controls the gate/door must have full sight of the door or gate and must not stand in a dangerous area.

### GENERAL WARNINGS

- a) The wire connections and the operating logic should be in compliance with regulations in force.
- b) The cables featuring different voltage should be physically separated, or adequately insulated by an additional insulation of at least 1 mm.
- c) The cables should be further fastened in proximity to the terminals.
- d) Check all connections before powering the unit.
- e) Normally Closed (N.C.) inputs which are not in use should be short-circuited
- f) On the power supply mains a omnipolar switch must be provided for, with an opening distance of the contact equal or higher than 3 mm. Check that an adequate differential switch and an adequate over-current protection are provided at the beginning of the wire system.

### INPUT/OUTPUT FUNCTIONS

START Control Unit		
Terminal No.	Function	Description
1-2	Single-phase power supply	Input, single-phase, mains power supply, 230Vac/50Hz (1-L / 2-N)
1-2-3	Three-phase power supply	Input, three-phase, mains power supply, 400Vac/50Hz (1-R / 2-S / 3-T).
4-5-6	Motor	230Vac motor connection - single-phase: 4-Phase+capacitor / 5-Common / 6-Phase+capacitor 400Vac - three-phase motor connection: 4-U / 5-V / 6-W <b>Check the correct position of the jumper to select voltage to terminals 24-25-26</b>
7-8	Blinker	Connection of blinker, 230Vac/40W max.
8-9	AUX	<b>WARNING: Output, 230Vac 0,2 A max.</b>
10-11	Auxiliary capacitor	N.O. free contact (10A max) for pickup, auxiliary capacitor. See wire diagram. At every start, the contact closes for 1.5s.
12-13	STOP	Input, STOP push-button (N.C. contact)
14-15	SWO	Input, OPEN limit switch (N.C. contact)
16-17	OPEN	Input, OPEN push-button (N.O. contact)
18-19	SWC	Input, CLOSE limit switch (N.C. contact)
20-21	CLOSE	Input, CLOSE push-button (N.O. contact)
22-23	SAFETY	Connection of emergency stop. <b>WARNING: mains voltage.</b> Remove the jumper and connect a switch suited to the mains power.
24-25-26	Selection of mains power supply	Selection of power supply voltage, to be short-circuited: <b>24 and 25 for three-phase power supply (400Vac)</b> <b>25 and 26 for single-phase power supply (230Vac)</b>



- 1 Premere le alette sui fianchi per sganciare le due maschere copriviti.
- 2 Rimuovere le due viti sul lato di apertura desiderato.
- 3 Allentare le due viti con funzione di cerniera senza rimuoverle, in modo da consentire l'apertura del coperchio.

- 1 Presser les deux ailettes latérales pour décrocher les deux cache-vis.
- 2 Enlever les deux vis sur le côté d'ouverture désiré.
- 3 Desserrer les deux vis faisant fonction de charnière sans les enlever, de manière à permettre l'ouverture du couvercle.

- 1 Press the tabs on the sides to release the two masks that cover the screws.
- 2 Remove the two screws on the desired opening side.
- 3 Slacken the two screws that act as a hinge without removing them, so as to allow opening of the cover.

- 1 Presionar las aletas en los lados para desenganchar las dos tapas cubretornillos.
- 2 Extraer los dos tornillos del lado de apertura deseado.
- 3 Aflojar los dos tornillos con función de bisagra sin extraerlos, a fin de poder abrir la tapa.

- 1 Auf die seitlichen Laschen drücken, so dass die beiden Schraubenblenden befreit werden.
- 2 Die beiden Schrauben an der gewünschten Öffnungsseite ausbauen.
- 3 Zuletzt die beiden als Scharnier dienenden Schrauben lockern, aber nicht ausbauen, damit der Deckel geöffnet werden kann.

- 1 Nacisnąć boczne klapki w celu odhaczenia dwóch masek nakrywających śruby.
- 2 Wyciągnąć dwie śruby po wybranej do otwierania stronie.
- 3 Poluzować dwie śruby blokujące bez wyciągania ich, w sposób umożliwiający otwarcie nakrywki.

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