

STARTING BOX FOR SUBMERSIBLE ELECTROPUMP Type CB



Owner's manual



This booklet describes the instructions for the use and maintenance of the **CB** series control panels.

This booklet must be carefully conserved for future reference after reading.

Before installing and connecting the panel, **read** the following instructions carefully.

The Manufacturer declines all responsibility for accidents or damages caused by negligence or failure to observe the instructions provided in this booklet. Installation must be performed in compliance with the directives issued by the local authorities and the regulations in force, as well as with rules of good workmanship and in relation to the particular installation in question.

Symbols

	This symbol indicates a potential risk of electrical nature
	This symbol indicates a subject of particular importance

Description

The CB series control panels are produced per single phase rated loads up to a maximum of 13A nominal (230V).

CB in the standard version comes supplied with the following functions :

- Connection and disconnection directly in line (DOL),
- Overload protection

Caractéristique des différents modèles de CB				
Type de coffret	Protection	Puissance	Capacité	Protection surcharge
CB 16/5	IP55	0,37 kW	16 µf	5 A
CB 20/6	IP44	0,55 kW	20 µf	6 A
CB 25/9	IP44	0,75 kW	25 µf	9 A
CB 35/12	IP44	1,10 kW	35 µf	12 A
CB 40/15	IP44	1,50 kW	40 µf	15 A
CB 60/20	IP44	2,20 kW	60 µf	20 A

Operations

CB has been designed to operate connected to submerged and surface electric pumps, but may be used with any asynchronous electric motor.

The overload protection is done by a manual switch with the maximum operating current written on the CB cover.

Handling and storage

Make sure that the unit has not undergone any damage during shipment and that is still in its original packaging without penetration of water or humidity. Store the unit in a dry and aerated place.

Installation

Check to make sure that the rating place data (power/size and voltage) are correct as ordered and that they are compatible with the load/motor that the CB must control.



Plug off the CB@ control box in order to guarantee the maximum safety of the operator that will have to work on it.



Before the CB has to be installed a Short-circuit protection.
CB should be installed, if possible, in the shade, as Hoar as possible to the motor, in an upright position and making sure that the cable clamps are in the bottom position.
The container is rated IP44, but protection is guaranteed only if installation is correct.

Electrical connection

Caution : The electrical connection must be made exclusively by specialised technical personnel.

Caution : In the event of an existing system, make sure that the load connection is compatible with the CB connection.



In particular, make sure that the cable is of a suitable cross section for the motor breakaway starting current and in single-phase installations, that the capacitor is suitable for the motor to be installed. A reduced cable section could cause dangerous overheating and, apart from dangerous voltage drops, damage to the actual system.

Caution: Make sure to make the ground connection carefully using a yellow-green cable of the same section as the cable used for the connection of the phases.

The failure to perform a **correct ground connection** can create serious **risk to** the operator. The control box connection has to be made as per the diagram stuck inside the CB and verifying that the right capacitor is fitted for the motor.

