

# ProStandard Series Star-Triangle Start Up box CPST type



Star-Triangle Start Up box  
CPST type

## Destination

The Star-triangle start up boxes are designed for 3 phase motors operation with the rotor in short circuit making the following processes:

- the decrease of the start current shocks;
- the reliability increase through the decrease of the start up negative effects;
- in star operation in case that the system is underloaded with a power factor;
- overload and short circuit of the motor protections.

## Components

- double pickeld steel sheet electrostatic painted;
- support frame for terminal strips ;
- terminal strips;
- canopy for external montage ;
- glands ;

## Operating conditions

- |  |                      |
|--|----------------------|
| ■ montage                                | interior or exterior |
| ■ 24 h environmental average temperature | 35 °C                |
| ■ transport and storage temperature      | -33: +50 °C          |
| ■ operating environmental temperature    | -40: +50 °C          |
| ■ climatical fabrication                 | N1-N3                |
| ■ relative humidity                      | 90% at 20 °C         |
| ■ maximal altitude                       | 2000 m               |
| ■ lifetime                               | 20 years             |

## Technical characteristics

- |                       |               |
|-----------------------|---------------|
| ■ nominal voltage     | 400 / 230 Vca |
| ■ command voltage     | 220 Vca       |
| ■ operating frequency | 50 Hz         |
| ■ motor nominal power | 15 - 200 kW   |
| ■ protection degree   | IP 54         |

## Installation

- The **montage** is done on the wall in 2 versions:
  - with 4 screws type M8X30 through the back cover
  - with lugs and dowels.
- The **cable access** is made through the bottom side;
- The **cable connection** is made directly in the terminal strip.

## Constructive versions

The constructive versions are given by :

- the **motor power** : 15 ;18,5 ;...200 kW
- the **motor protection** through:
  - > thermic relay ;
  - > electronic-multifunctional relay ;
- **command module** :
  - > on the box command ;
  - > remote command ;
- **current metering** :
  - > without current metering ;
  - > with current metering ;
- **start up regime** :
  - > easy start  $t_p \leq 15$  s ;
  - > difficult start  $t_p > 15$  s.