

BRUSHLESS MOTOR PROVIDED WITH SERVO DRIVE

Mod. P-17/EV

INTRODUCTION

Brushless motors are synchronous machines whose rotor consists of a permanent magnet; then they have not any brushes. Mechanical and electrical characteristics of these motors are higher than those of traditional direct-current and alternating-current motors. Brushless motors are normally used in applications with power of some kW for heat pumps, fans and compressors. They are managed by specific drives.



This system mainly consists of:

- a bidirectional industrial drive for AC brushless motor
- an AC brushless motor whose form of construction is compatible with the machines of POWER line.

TECHNICAL SPECIFICATIONS:

The drive is available in a tabletop metallic box with controls and signalling indicators on the fore panel of schematic diagram.

The motor includes a position transducer of resolver type. The drive is connected with the motor via a cable equipped with connectors.

- Rated power: 1000 W
- RPM control range: ± 2000 r.p.m.
- IGBT power stage
- Resolver feedback
- Control: bidirectional, 4 quadrants with double RPM-current loop

Dimensions of drive: 400 x 400 x 240 mm

Net weight of drive: 17 kg

Dimensions of motor: 400 x 260 x 300 mm

Net weight of drive: 25 kg

POWER SUPPLY:

Three-phase 400 V / PE 50-60 Hz
Max. absorption.: 2 kVA

THEORETICAL-EXPERIMENTAL HANDBOOKS

Application handbook.