

THREE PHASE ELECTRIC MOTORS MTN SERIE

INVERTER INDUCTION MOTORS



- ❖ **Size:** IEC50 a IEC 315
- ❖ **Power:** from 0.03KW to 200KW
- ❖ **Polarità:** 2 – 4 – 6 – 8 – 12 -32 Poles
- ❖ **Design:** B3 – B5 – B14 (B3/B5 – B3/B14)
- ❖ **Voltage:** 230/400-50Hz
Multivoltage 400/690-50Hz
Multivoltage
- ❖ **Variants:** Forced cooling – Motors IE2

DESCRIPTION

From a mechanical standpoint, given the grade G6.3 rotary balance per ISO 1940-UNI 4218, at discretion of technical office, in the defluxing area it is possible to achieve approximately 3 times the rated motor speed without rotorstator contacts. A steel insert is provided in the bearing slot that prevents radial movement by the outer ring with a fair degree of security (at discretion of technical office). In this type of motor, the bearing is pre-charged with an appropriate elastic ring that eliminates residual mechanical clearance within the bearing itself. As our row radial ball bearings are still able to turn without problems for the sizes we use at rotation speeds around 10,000 rpm, this is additional insurance of long motor life and low noise levels. From an electrical standpoint, we also wish to point out that many motors are built with special duallayer and shortened-pitch windings for the purpose of eliminating undesired torque harmonics and satisfy the need for variable-speed controls.

ASYNCHRONOUS THREE PHASE DOUBLE SPEED MOTORS WITH WINDING FOR FAN APPLICATION



- ❖ **Size:** from IEC 63 to IEC 200
- ❖ **Power:** from 0.14/0.02 KW to 30/7.5kw
- ❖ **Polarity:** 2/4 – 4/8 – 4/6 – 6/8Poles
- ❖ **Design:** B3 – B5 – B14 (B35-B3/B14)
- ❖ **Voltage:** 230/400-50Hz
Multivoltage400/690-50HzMultivoltage
- ❖ **Variants:** Forced cooling- Self-braking

DESCRIPTION

The motors have several speeds, with the possibility of regulating them through the feeded tension. The electrical and mechanical features are standard or special upon request.

THREE-PHASE INDUCTION BRAKE MOTORS



- ❖ **Size:** IEC56 a IEC 200
- ❖ **Power:** from 0.03KW to 200KW
- ❖ **Polarity:** 2 – 4 – 6 – 8 – 12 -32 Poles
- ❖ **Brake:** Brake DC - AC Brake - Brake DC "S"
- ❖ **Design:** B3 – B5 – B14 (B3/B5 – B3/B14)
- ❖ **Variants:** Nema

DESCRIPTION

These use spring-pressure brakes, firmly spliced onto a cast iron shield at the back of the motor. In the S line, the shield may be aluminum. Powered by direct current or alternating current, with negative action (positive upon request). The braking action appears in the absence of power supply to the brake coil; these are therefore safety brakes except positive brake (tab. 20). The insulation class of these brakes is "Class F". For single-phase, three-phase and dual-polarity motors, these faithfully follow the specifications already illustrated in this catalogue from a mechanical and electrical standpoint, with the exception of axial dimensions which increase due to the presence of the brake. The lining of our brakes is asbestos-free, per the most recent EEC Directives in terms of Workplace Hygiene and Safety. All brake assemblies are protected against atmospheric aggression by painting and/or heat galvanizing. The parts most subject to wear are treated in special atmospheres that provide considerable wear resistance to the parts.

THREE-PHASE INDUCTION MOTORS



- ❖ **Size:** from IEC 50 to IEC 315
- ❖ **Power:** from 0.03 KW to 200 KW
- ❖ **Polarity:** 2 – 4 – 6 – 8 – 12 – 32 Poles
- ❖ **Design:** B3 – B5 – B14 (B3/B5- B3/B14)
- ❖ **Voltage:** 230/400-50Hz
Multivoltage 400/690- 50Hz
Multivoltage
- ❖ **Variants:** Forced cooling- Self-braking- Two-speed

TWO-SPEED THREE-PHASE INDUCTION MOTORS



- ❖ **Size:** to IEC 56 to IEC 200
- ❖ **Power:** from 0.09/0,07 KW to 25/17kw
- ❖ **Polarity:** 2/4 – 4/8 – 4/6 – 2/6 – 2/8 – 6/8 – 2/12 – Poles
- ❖ **Design:** B3 – B5 – B14 (B35- B3/B14)
- ❖ **Voltage:** 230/400-50Hz
Multivoltage 400/690- 50Hz
Multivoltage

HIGH EFFICIENCY MOTORS IE2 – IE3



- ❖ **Size:** from IEC 80 to IEC 355
- ❖ **Power:** from 0.75 KW to 315 KW
- ❖ **Polarity:** 2 – 4 – 6 – Poles
- ❖ **Design:** B3 – B5 – B14(B3/B5-B3/B14)
- ❖ **Voltage:** 230/400-50Hz
Multivoltage400/690-50Hz
Multivoltage
- ❖ **Variants:** Forced cooling – Self-braking

DESCRIPTION

Design with high level of technology with new characteristics of construction, multipurpose applications for save energy.

Efficiency is increased on on range of (5-10)% in function of motor type.

In general high efficiency save energy with high power applications, with a lot of motors or with high power motors.