



# Electric Motors

They are the most effective and economical answer to needs of alternating current transmission. The three-phase motors are available, in accordance with the IEC international standards, from size 063 to 280 in the versions with flange B5, B14 and with feet B3. they can be supplied with single polarity (2, 4, 6) with continuous or alternating current brake, in a power range from 0.09 kW to 90 kW.

## THREE-PHASE ELECTRIC MOTORS TS/TH/TP



- Energy Efficiency according to IEC 60034-30:2008 Standard
- Unified dimensions and shaft height from 63 to 280
- Polarity: 2,4,6
- Nominal power and dimensions complying with standard IEC 72-1 from 0,09 to 90 kW
- Motors designed in accordance with the requirements of the family IEC 34 and with the harmonized EEC standards that derived from them
- External surface ventilation
- Cage rotor made of aluminium or aluminium cast alloy
- Aluminium casing up to size 160, cast iron from size 180
- Insulation class F
- Degree of protection standard IP55
- Available with feet B3 or with flange B5 or B14
- Over-temperature compatible with class B
- PTC thermistors and bimetallic temperature probes from size 160 as standard

## THREE-PHASE BRAKE ELECTRIC MOTORS TBS/TBH/TBP



- Unified dimensions and shaft height from 63 to 250
- Polarity: 2,4,6
- Nominal power and dimensions complying with standard IEC 72-1 from 0,09 to 55 kW
- Direct current FM brake and Alternating current MS brake
- Space-saving direct current ML brake
- Direct current FM-FM double brake
- Motors designed in accordance with the requirements of the family IEC 34 and with the harmonized EEC standards that derived from them
- External surface ventilation
- Cage rotor made of aluminium or aluminium cast alloy
- Aluminium casing up to size 160, cast iron from size 180
- Insulation class F
- Degree of protection standard IP54
- Available with feet B3 or with flange B5 or B14
- Over-temperature compatible with class B
- PTC thermistors and bimetallic temperature probes from size 160 as standard

## RANGE



### DOUBLE POLARITY AND DOUBLE POLARITY BRAKE MOTORS D/DB

Double polarity (D and DB) available in accordance with the IEC international standards, from size 063 to 160 in the versions with flange B5, B14 and with feet B3. They can be supplied with double polarity (2-4, 2-8, 4-8 poles), and also with a direct current brake or alternate current brake.

- Available with feet B3 or with flange B5 or B14
- Insulation class F
- Polarity: 2/4, 2/8, 4/8
- Alternating current MS brake and direct current FM brake
- Over-temperature compatible with class B
- Ambient temperature + 40 °C
- Altitude < 1.000 m above sea level

### HIGH STARTING TORQUE SINGLE-PHASE MOTOR S/HSE

Single-phase and high starting torque single-phase motor (S and HSE), available in accordance with IEC international standards from size 063 to 100 in the versions with flange B5, B14 and with feet B3, with a power range from 0.12 kW to 2.2 kW.

- Unified dimensions and shaft height from 63 to 100
- Insulation class F
- Nominal power and dimensions complying with standard IEC 72-1 from 0,12 to 2,2 kW
- Polarity: 4
- Over-temperature compatible with class B
- Ambient temperature + 40 °C
- Altitude < 1.000 m above sea level

## OPTIONS ACCESSORIES

- **Single-phase and three-phase forced ventilation IC416**
- Insulation class **H**
- **IP56, IP65, IP66** protection degrees
- Thermal protections with standard temperature in class F and available also for class H:
  - **3 PTC** thermistors with temperature class suitable for the insulation class
  - **3 bimetallic** temperature probes with temperature class suitable for the insulation class
- **Optional voltages**
- **Design B34, B35**
- **Fast connection**
- **Second shaft extension**
- **Rear hexagon**
- **Anti-condensation heaters 110V or 230V**
- **Incremental encoder and low resolution incremental encoder**
- **Rain cover**
- **Textile cover**
- Aluminium fan
- Optional painting
- Certifications: **ATEX, UL/CSA, EAC** (ex GOST)

## OPTIONS ACCESSORIES BRAKEMOTORS

- **Fly-wheel**
- **Release lever**
- **Micro switch to open/close brake or for brake wear**
- Anti-lock braking system stainless steel ring
- Optional **rectifiers**:
  - for quick detachment **SBR**
  - for rapid braking **RSD**
  - for quick detachment and braking **RRSD**

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