Who we are



ESTAN GmbH is your innovative and reliable partner when it is about the application of demanding driving technologies with electric motors - flexible, precise and robust. Due to the great experience with special voltages and special customizations, our enterprise acquired an excellent reputation. The many years of knowhow of our employees and the innovative solutions of our R&D department allow us to offer you special benefits:

- innovative und reliable products with robust design
- motors with high efficiency and large control range
- competent consultance for realisation of customer specific drive system
- efficient after-sales service
- favourable price-to-performance ratio

Quality

Quality is of top priority. For this reason our quality management system is certified according to DIN EN ISO 9001.







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Your flexible partner for robust and sophisticated drive systems



DC permanent-magnet motors

DC motors with excitation winding

EC motors with electronic controller

Three-phase motors and single-phase capacitor motors

Liquid-cooled asynchronous motors

Gear motors

DC permanent-magnet motors

The robust ESTAN DC motors are manufactured with steel shell and stabilized permanent magnets. The design is according to EN 60034 and VDE 0530. Performance of 5 to 3.500 W.

Voltages of 12 to 180 V - other voltages on request.

ESTAN permanent-magnet motors have a shuntwound-motor characteristic, i.e. almost constant rotation speed when the load changes. Steep current curves and low moment of inertia result in an especially good control behaviour as well as a dynamic behaviour.

APPLICATION

- especially suitable for electronic speed control in the 1Q- to 4Q-operation in the automation and for CNC controlled machines
- mobile applications in the railway sector, in agricultural machinery, heavy-duty vehicles and special vehicles
- hydraulics and industry

DC motors with excitation winding

In the case of electrically excited DC motors the magnetic field of the stator field is generated using an electromagnet.

Wattage of 5 to 2.000 W.

Voltages of 12 to 180 V - other voltages on request.

For ESTAN shunt motors the excitation winding is located parallely to the armature winding. With this kind of excitation, the rotation speed remains almost the same.

APPLICATION

• wherever a constant rotation speed is required, for example for tractive units, starters for vehicles, etc.

BENEFITS

- high efficiency
- wide regulating range
- no loss of excitation compact type for example
- B3. B4. B14 • various possibilities of
- mounting, for example fan, brakes, etc.
- isolation class possible up to H • protection class up to IP65



Three-phase motors and single-phase capacitor motors

Three-phase asynchronous motors and single-phase capacitor motors run at an almost constant rotation speed. The design is according to EN 60034. Both motor versions are especially robust in case of electrical and mechanical overload. Wattage from 50 to 3.000 W.

The motors are protected as standard by an integrated temperature switch in the winding. Optionally the temperature switch can also be driven via an external tripping unit.

APPLICATION

- drive of compressors and vacuum pumps
- drive of machine tools
- gear motors with flange-mounted speed reducer

Liquid-cooled asynchronous motors

These motors are motor-casing cooled, i.e. they have a double-jacket. As a cooling medium, water or oil can be used. The cooling medium flows around the inner stator jacket. Due to such optimal cooling the motors achieve a significantly higher efficiency compared to motors with a surface ventilation.

The motors can be designed individually for various voltages and frequencies as well as for reverse operation. Standard version with integrated temperature switch.

APPLICATION

- laboratory units
- office machines
- labelling machines
- pumps

Gear motors

Worm-gear motors with mounted-on DC permanentmagnet motors are available in six different types with driving power up to 3.500 W.

APPLICATION

- conveyor technology
- agricultural machines
- water technology
- apparatus construction

• maintenance-free operation • any installation position possible isolation class possible up to H protection class up to IP 65

EC motors with electronic controller

Brushless motors are like a synchronous motor assembled with constant magnet excited rotor and combine all the advantages of the DC motors. By reason of the electronic commutation, you need neither carbon brushes nor a collector.

APPLICATION

- railway industry
- automotive industry
- medicine technology
- industrial applications

BENEFITS

BENEFITS

• high efficiency

behaviour

B3. B4. B14

• strong tightening torque at

linear rotation speed torque

compact type for example

protection class up to IP65

isolation class possible up to H

rotation speed zero

simple speed variable

- almost constant continuous torque
- overload carrying capacity up to 5-fold nominal current
- precise positioning
- maintenance-free

See technical details under: www.estan.de

- long service life
- high operation safety, as
- protection class possible up to IP 65





BENEFITS

- energy efficient design
 - according to IEC 60034-30
 - long service life
- maintenance-free
- version practicable for
 - operation with frequency
 - converter
- isolation class possible up to F protection class up to IP 65



BENEFITS

- low noise
- extremely low heat dissipation
 - to the environment
- easy install via plug
 - connection
- compact type B14
- isolation class possible up to H
- protection class up to IP 54



BENEFITS

