NEW

D SERIES

Inverter motor

drivon®

MOTOVARIO®
HEART OF MOTION
a TECO Group company

D SERIES

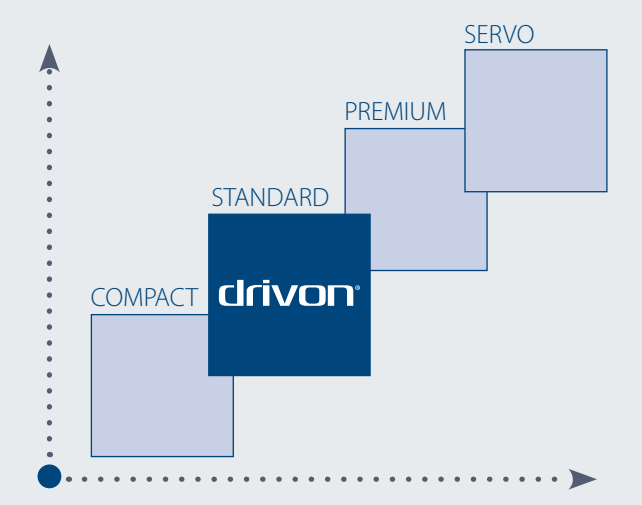
Range

Drivon, designed to be used in different types of applications (especially pumps, fans and conveyor belts) consists of extremely reliable components and is controlled by our software that provides excellent performance with special attention to the system energy efficiency. Its Vectorial Check, besides ensuring a constant motor torque throughout a wide range of frequencies without requiring the use of the servo-ventilation at low rpm, provides fast and precise output according to the application dynamic conditions allowing high torque overload of the motor.
Conceived for extremely different and variable supply conditions, Drivon is available both in single-phase/three-phase version (200 ÷ 260 V / 47 ÷ 63 Hz) with a motor power between 0.25 and 1.5 kW, and in three-phase version (360 ÷ 480 V / 47 ÷ 63 Hz) with a motor power between 0.25 and 5.5 kW. The different functions of this software provide a wide range of standard and optional interfaces for a simple and flexible use. The electronic part, available in 10 power sizes, is located in two different chassis sizes, one for power up to 1.5 kW and the other for power up to 5.5 kW.

The product has been designed considering the following aspects:

- power efficiency
- modular configuration and expansion possibility
- potential target markets
- user-friendliness
- future design development flexibility

Following these guidelines, Motovario has developed DRIVON, which belongs to the STANDARD segment along with all products of the reference competitors in the AC Induction market.



Inverter motor with single-phase supply

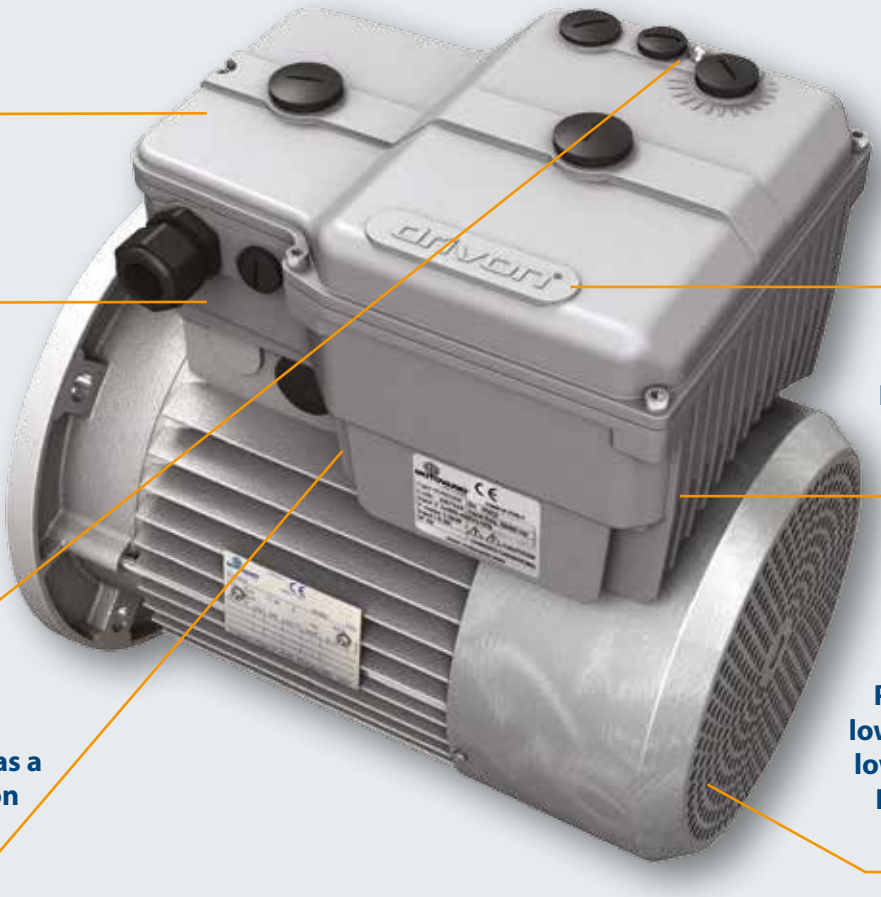
Inverter motor with three-phase supply

Inverter functional characteristics

- FOC open-loop control of asynchronous motors
- Input for incremental encoder as speed feedback
- Available according to UL/CSA standards
- Possibility to set parameters through field Bus
- Different functions that can be assigned to digital inputs especially UP/DOWN function
- Possibility to set the reference frequency

D SERIES

Characteristics



Parameter setting through USB port

Integrated field BUS CANopen DSP402 and Modbus RTU

Multi-colour LED on the logic board indicating the inverter operating status

Reference frequency as a result of a combination of several sources

Dedicated input STO for safety stop according to ISO 13489-1 and IEC 61508 SIL2 standards

Enable auto search for idling motor speed at starting

Possibility of use at low rpm / low speed / low frequencies with IE2 motors without servo-ventilation

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Smart **keypad**

Fast parameter setting and copy

- 7-segment 4-digit display
- UP/DOWN/ENTER/MODE/MOVEMENT DIRECTION buttons
- Completely integrated potentiometer
- Parameter Copy function
- Quick connection through RJ11
- Possible remote control

Accessories

- Available protection class: IP56 - IP65 - IP66
- Potentiometer + movement direction control module
- Communication module: Profibus - EtherCAT
- Electro-mechanic braking module
- Dynamic braking module
- Motor accessories and options

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Services for the Customer

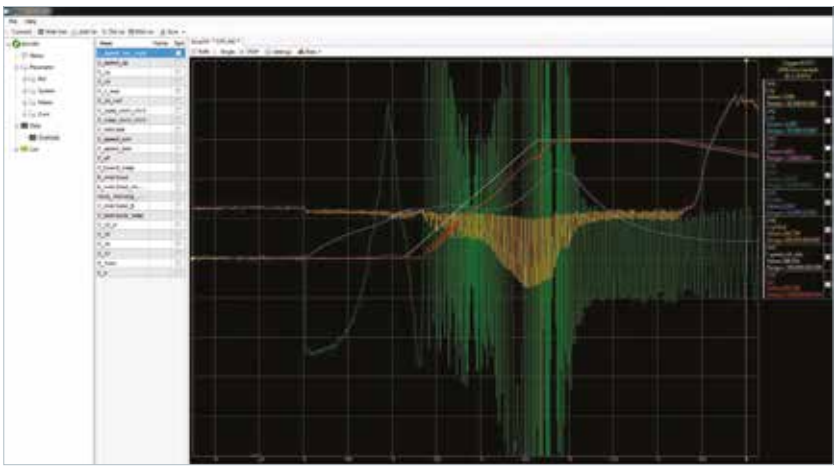
Tailoring the product to the customer's requirements is one of the Motovario key activities. Thanks to our check list, customers have the possibility to describe in details the application data necessary to develop the required product. Data are entered in our proprietary selection software that ensures product configuration. Motovario is therefore able to provide a correctly set inverter to meet any application requirements.

Selection software

Thanks to its know-how, Motovario has developed simple and user-friendly software to select the product. Once the characteristics and technical data of the application for which you need to dimension the inverter motor are set, by entering the data in the software and answering a few specific questions on the application, the software automatically selects the inverter motor (or inverter motor reducer, if the complete unit is required) in the available product range.

Configuration and monitoring software

Drivon is supplied with configuration software that can be used to set the inverter motor parameters through the USB port which is a standard feature of the product. During the product use, this software can be used to monitor the product reference values that can be displayed by means of the integrated oscilloscope function.



Applications

Industrial pumps

Industrial fans

Conveyor belts

WORLDWIDE

DP-D EN/2016/REV.2

Subsidiaries

Germany

France

Spain

United Kingdom

USA

China

India

MAC™
MOTOVARIO ASSEMBLY CENTRE

Italy
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Benelux
Bulgaria
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