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DCMIND BRUSHLESS SMI21 MOTORS WITH CANOPEN

Network capabilities for greater control and safety



DCmind BRUSHLESS MOTORS, 57 mm SQUARE with CANopen communication protocol

In addition to the intrinsic advantages of Crouzet Motors brushless motors and geared motors, as is a complete package (including driver, control electronics and a 4096-point encoder) we also offer high power rating (up to 170W in a very compact volume 57x57x140) & now our **DCmind Brushless motors with CANopen communication** integrate functions that are unique on the market, such as:

- › The **widest supply voltage range** on the market (9 to 75 VDC – 90 VDC peak) allows for versatile installation. It protects motor **from possible damage** against other motor voltages in the machine (regenerative energy issues). In the event of a power failure, the motor can run on a single backup battery.
- › **A parallel operation of CANopen and USB connections.** This function is particularly interesting as shown in the 3 points below:
 - 1- **It is possible to control the operating mode of the motor in the machine via a PC**, which gives the possibility to plot torque, speed and position curves, to know the motor temperature & to monitor and analyse the motor performance during the development or field phases.
 - 2- **It is possible to set the motor either by CANopen** (directly on the machine) **or by the USB connection from PC** (either on the machine or by a desktop).
 - 3- **The address and the communication speed can be achieved either by LSS (CANopen) or the PC.** Small motors cannot integrate the address switches, they use a LSS function for these settings and this causes difficulties for product replacement in the field.

Also the cables, necessary for CAN or USB connection, are standard commercial ones, which simplifies the motor installation in the factory and in the field. Indeed, a M12-5 pin connector (CANopen) and a micro-USB B connector are used on the motor, you do not need any special adapters to communicate with the motor a single USB cable from your mobile phone is enough.

Usually connections made via a USB require a few minutes to be established as Windows needs time to find the drivers necessary for communication and every new motor to be connected will require this connection time. This is not the case with our brushless motors with CANopen communication, the computer searches for the communication drivers only once for the first motor and it is not necessary for any additional motors therefore in the case of high-volume production this can result in hours saved on installation.

- › A high level of application security with integration of safety functions via the **“Safety” option**, which can cut off the motor winding power supply by means of **two STO inputs**.
- › The choice of either a single power supply or a separate logic power supply which allows users to have a product with **simplified wiring** or with extra functionality such as **holding of position information** and **backup battery**.
- › Our brushless motors with CANopen have two M16 connectors, the first connector is used for the power and the second one is for logic (up to 8 inputs and 4 outputs). It allows for high power to circulate without disturbing the control signals.

All of the above described product benefits contribute to resolving the majority of problems which the user may experience during the design, production or in the field and make our brushless motors with CANopen communication the perfect products for demanding applications ranging from access control systems, pumps and valves, railway applications, electrical equipment, medical equipment and the industry, medical and industrial equipments.

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