

A NEW VERSION OF THE SMi21 ELECTRONIC CONTROL FOR DCMIND BRUSHLESS MOTORS

Crouzet Motors is proud to announce that the new version of SMi21 electronic control dedicated to positioning for DCmind Brushless motors is now available.

More robust and more universal:

Extended power supply range: now 9 VDC to 75 VDC (formerly 9 to 56 VDC)

- > Better resistance to transient voltages from other motors in applications moving inertial loads.

Stronger USB connector fixing

- > Prevents problems encountered by some customers when plugging in and unplugging repeatedly where the connector might be pulled out..

New USB driver, works regardless of the order in which the cables are connected, previously, the power supply had to be connected only after connecting the USB cable.

Improved performance:

Improved efficiency

- > More powerful Cmos reduces losses due to the electronics

Better precision in torque measurement

- > 8-layer PCB unaffected by the noise of the current reader
- > Better linearity of performance

Quicker to load: This SMi21 has a new USB driver

- > The first time the PC is connected to the motor it searches for the drivers associated with the new board, all subsequent motors will connect to the PC immediately, this saves several minutes when programming each motor.

More options:

Safety option: 2 “hardware” inputs which cut’s the power to the motor coil (these continue to work even if the micro-processor fails).

Dual power supply option: Ensures uninterrupted encoder operation which avoids losing the position reference and allows immediate restarting when the power supply is restored without having to repeat the homing phase.

More possible special customer adaptations:

- > Proprietary CAN option (networking for parameter definition and monitoring, identical to the USB although networked here) if adaptation requested.
- > Industrial connectors on motor body (Twintus ®) instead of output cables if adaptation requested.

To benefit from all these advantages with the new board, you need to **update the DCmind software** with the associated USB drivers.