

CAN Newsletter Online

HIGH TORQUE MOTORS

Up to 50 % more torque

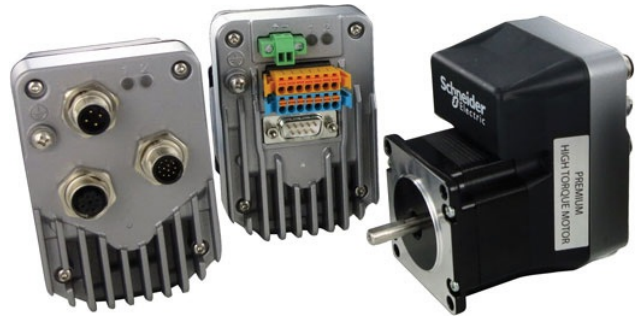
Lexium MDrive NEMA size 23 are now available with high torque stepper motors as an alternative to usually employed motors from Schneider Electric. This motor option delivers up to 50 % more torque. CANopen is supported for communication.

THE MOTOR OPTION BOOSTS THE PERFORMANCE of Lexium MDrive integrated products to a higher performance level while maintaining compact size and format. Various industry standard communication protocols are available, including CANopen, Modbus TCP, serial EIA-422/485, and others with programmable motion control and pulse/direction input.

The CANopen version of the high torque motor supports CiA 301 and CiA 402. Features include Node Guarding, Heartbeat Producer, SDO, and PDO (variable mapping). The bit-rate ranges from 10 kbit/s to 1 Mbit/s and the interface is galvanically isolated. The CANopen motor is available with IP65.

True closed loop performance of Lexium MDrive products, while eliminating possible motor stalling, also delivers continuous torque at low speeds, eliminates tuning, and reduces heat and energy usage with variable current control. Wiring is reduced by up to 40 %, and installation time cut by 25 % by replacing multiple individual components.

“Increasing torque performance without increasing Lexium MDrive product size represents a real advantage for applications where space is a premium – such as medical and life science. These products are also great for industrial applications, especially the IP65 rated version with circular M12 connectors. We are winning business daily, replacing servos, and even some gearboxes, by delivering the required torque in a lower cost, space saving package,” according to Paul Kling, VP Sales, SEM USA. According to Schneider Electric, MDrive is the world’s most complete family of integrated motor products, both rotary and linear.



The NEMA 23 (57 mm) motor versions maintain a compact size (Photo: Schneider Electric)