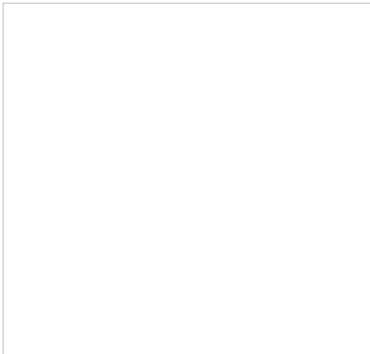


## CANopen drive family

Applied Motion Products (USA) providing since 2007 CANopen drives has completed its portfolio by the STM24 drive plus motor. The 24-step motor is compliant with Nema (National Electrical Manufacturers Association) 23. The CANopen interface supports the CiA 402 profile.



AS ALL OTHER CANopen PRODUCTS by the company, the STM24 is able to handle data-rates up to 1 Mbit/s. It supports the Profile Position, Profile Velocity, Profile Torque (servo only), and Homing modes as specified by CiA 402. The devices feature also manufacturer-specific object dictionary entries such as parameters for executing stored Q-programs and accessing internal data registers.

The "S" models accept step and direction, analog input, joystick control, and streaming host commands using the SCL language. "Q" models add stand-alone programmable operation using the Q-programming language. This language includes high-level features such as complex motion, multi-tasking, conditional programming, math functions, register access, and more. Both models offer EIA-232 or EIA-485 communication.

An optional 1000-line encoder, integrated into the motor housing, provides stall detection and/or stall prevention. The provider's stall prevention algorithm monitors rotor lag and automatically reduces speed or acceleration to avoid motor stalls, allowing 100% torque utilization. All models include four optically isolated "flex I/O" points, which can be individually configured for digital input or output. A 12-bit analog input is also included. Besides AC and DC stepper motors, the company offers also the SV7 servos with CANopen connectivity.