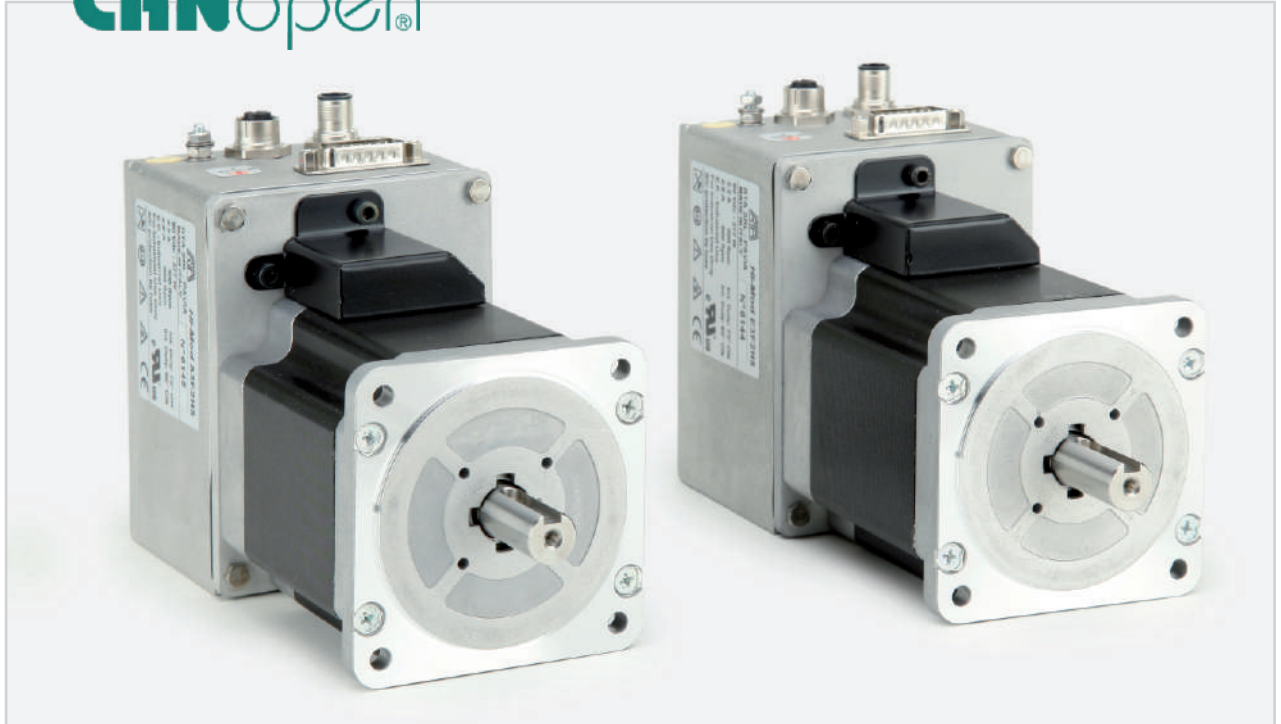


# Combo Unit: **HI-MOD A/E**

**CANopen**



## INTRODUCTION

- Series of stepper motors with integrated ministepped bipolar chopper drives equipped with programmable motion controller. Setting by means of CANopen interface. It is based on the following versions:
  - **HI-MODE** with Incremental Encoder
  - **HI-MODA** with Multi-Turn Absolute Encoder
- Compact system housed in a metallic box mounted on motor body, minimizing dimensions and optimizing wiring and mounting easiness.
- Target: advanced applications requiring the detection of motor loss of synchronism or stall by means of encoder and programmable motion controller setting by means of CANopen interface.
- UL/CSA certified.

FILE NUMBER: E355001



## HIGHLIGHTS

- Microstepping function up to 3.200 step/rev.
- Communication by means of CANopen interface.
- Command to execute runs with position control to set: distance, direction, speed and acceleration.
- Command to execute zero research (HOMING).
- Possibility to detect motor loss of synchronism or stall and position error by means of Incremental Encoder (HI-MODE) or high resolution Multi-Turn Absolute Encoder (HI-MODA).
- The system does not need back-up battery to keep the information when shut down (HI-MODA).

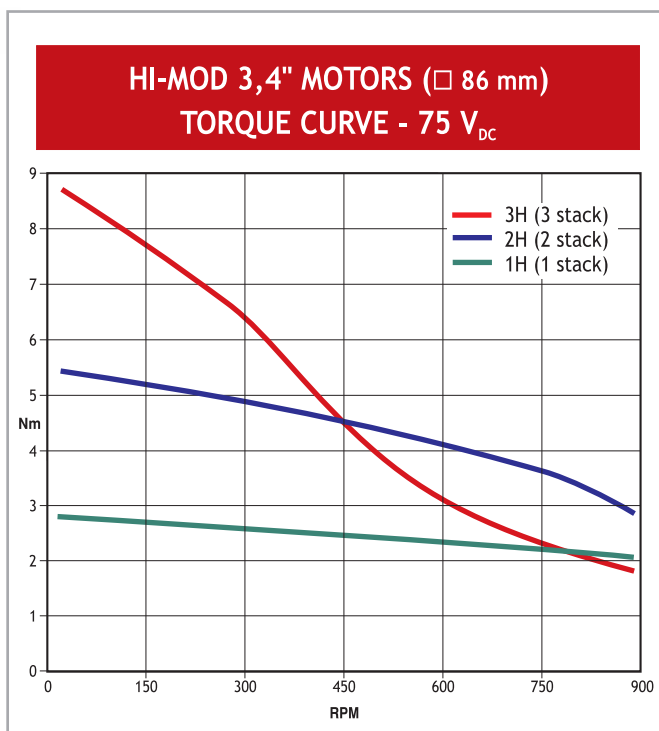
**CANopen**

### HI-MOD X<sub>1</sub> - X<sub>2</sub> - X<sub>3</sub> - X<sub>4</sub> - X<sub>5</sub> - n

X <sub>1</sub> = Electronic features	X <sub>2</sub> X <sub>3</sub> X <sub>4</sub> X <sub>5</sub> = Motor type and power	n = Release software
E: CANopen - Incremental Encoder A: CANopen - Multi-Turn Absolute Encoder	X <sub>2</sub> = Maximum power X <sub>3</sub> = Hardware meccanico di base X <sub>4</sub> = Motor type X <sub>5</sub> = Motor current	0 ÷ 9

## TECHNICAL FEATURES

- Range of operating voltages: 32-75 V<sub>DC</sub>.
- Microstepping: 400, 800, 1.600 and 3.200 steps /rev. Setting by means of CANopen interface.
- Automatic current reduction at motor standstill.
- Protections:
  - Protection against under-voltage and over-voltage.
  - Protection against a short-circuit at motor outputs.
  - Overtemperature protection.
- Electronic resonance damping circuit to ensure acoustic noise and mechanic vibrations reduction.
- Command to execute runs with position control to set: distance, direction, speed and acceleration.
- Command to execute zero research (HOMING).
- Possibility to detect motor loss of synchronism or stall and position error by means of Incremental Encoder (HI-MOD E) or high resolution Multi-Turn Absolute Encoder (HI-MODA).
- The system does not need back-up battery to keep the information when shut down (HI-MODA).
- UL/CSA certified.



**CAUS**

## MECHANICAL DIMENSIONS

Model	A Length (mm)
HI-MOD E, HI-MOD A	78.0

Type	M Length (mm)
1H	66.0
2H	96.5
3H	127.0

