

HI-MOD *Series Drives*

GENERAL DESCRIPTION

HI-MOD is the name of a series of stepper motors with integrated ministep bipolar chopper drives.

They are offered in three versions:

- **B:** STEP and DIRECTION
- **E:** CANopen - Incremental Encoder
- **A:** CANopen - Multi-Turn Absolute Encoder.

HI-MOD electronics is housed in a metallic box mounted on motor body, minimizing dimensions and optimizing wiring and mounting easiness.

HI-MOD series requires a single DC supply voltage and does not need external fans: this solution is ideal for distributed electronics applications.

A wide range of available motors and interface modes optimizes the use of **HI-MOD** in a large number of applications.



Motion Control Systems

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R.T.A. STEPPING MOTOR DRIVES catalogue

TECHNICAL FEATURES

- Operation with a single external (DC supply) voltage (supply range from 32 to 75 V_{DC}).
- Operation at 400, 800, 1600, 3200 steps/revolution (and 500, 1000, 2000, 4000 steps/revolution type B only).
- High efficiency CHOPPER with MOSFET final stage output.
- Electronic resonance damping circuit to ensure noise and vibrations reduction at low speed.

B Model

- STEP and DIRECTION command signals - I/O optically insulated.
- Operation mode setting by means of a rotatory DIP SWITCH.

E Model



- 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.
- Possibility to detection motor loss of synchronism or stall and position error by means of Incremental Encoder.

A Model



- All features like model E, with Multi-Turn Absolute Encoder at high resolution.
- Possibility to detection motor loss of synchronism or stall and position error by means of high resolution Multi-Turn Absolute Encoder.
- The system does not need buffer battery to keep the information when shut down.

HI-MOD X - Y₁ - Y₂ - Y₃ - Y₄ - Z

X = Electronic features

Y₁ Y₂ Y₃ Y₄ = Motor type and power

Z = Release number

B: STEP and DIRECTION

E: CANopen - Incremental Encoder

A: CANopen - Multi-Turn Absolute Encoder

Y₁ = Motor flange (2, 3, 4, 6)

Y₂ = Motor type (N, H, F)

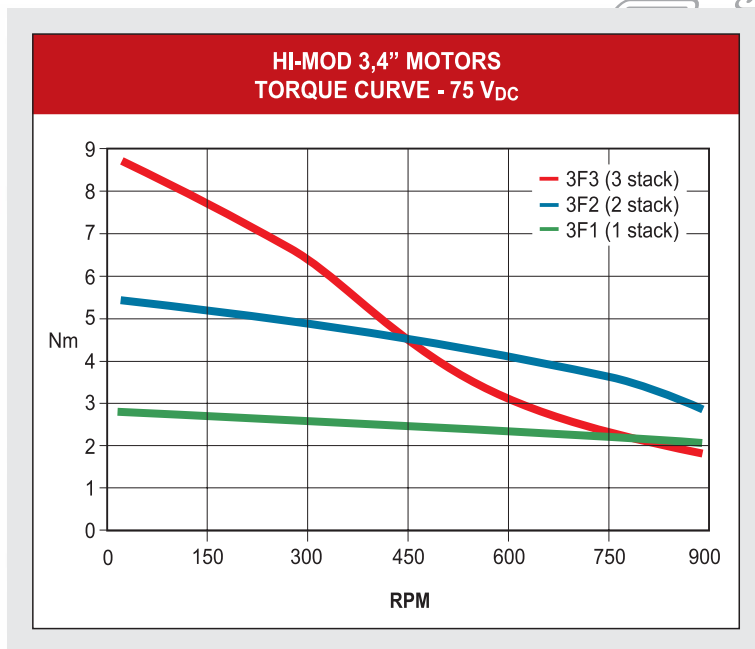
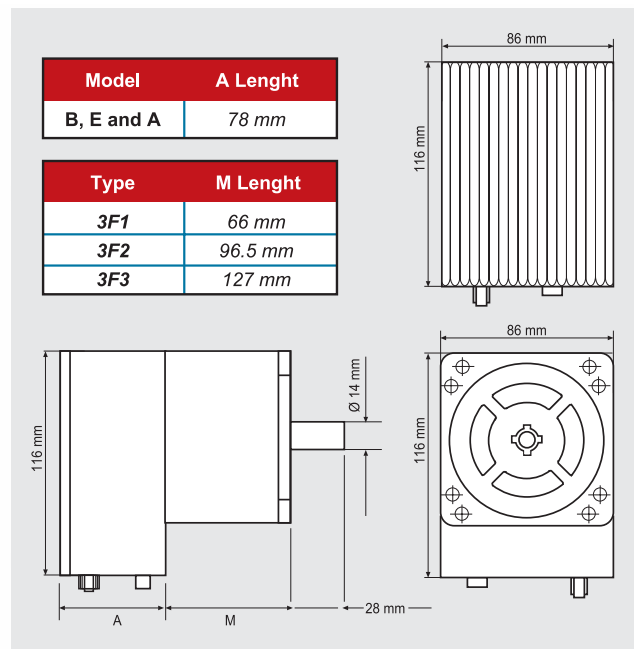
Y₃ = Motor length (STACK 1, 2, 3)

Y₄ = Winding type (L, M, H)

0 ÷ 9

Coding example:

HI-MOD B3F2H0: STEP and DIRECTION interface, motor flange 3,4", motor F series, length 2 stacks, high speed winding, release "0"



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