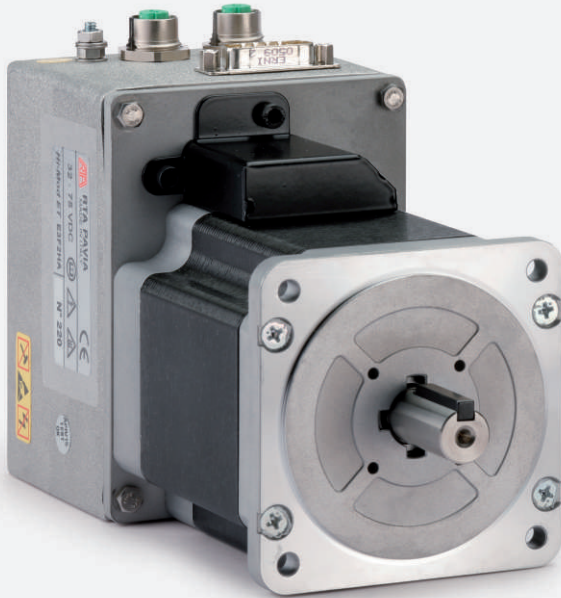


**NEW!**

# Combo Unit: **HI-MOD ETS**

**EtherCAT**

**SIL3**  
SAFE TORQUE  
OFF (STO)



## INTRODUCTION

- New series of stepper motors with integrated ministep bipolar chopper drives; setting by means of EtherCAT interface and STO function, based on incremental encoder or 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 setting by means of EtherCAT interface.
- UL/CSA certified.

## HIGHLIGHTS EtherCAT INTERFACE

- STO [SIL3] function.
- Error Detection Monitor.
- Communication by means of EtherCAT (CoE) interface.
- Modes of operation: PROFILE POSITION and CSP.
- Different variety of HOMING operation modes.
- PROXIMITY hardware input.



**EtherCAT**

## STO FUNCTION FEATURES

- Safe Torque Off (STO) function - **SIL3**
- Error Detection Monitor

**SIL3**  
SAFE TORQUE  
OFF (STO)

### HI-MOD ET 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: EtherCAT - Incremental Encoder

X<sub>2</sub> = Maximum power

Alphanumeric character

A: EtherCAT - Multi-Turn Absolute Encoder

X<sub>3</sub> = Mechanical hardware identification

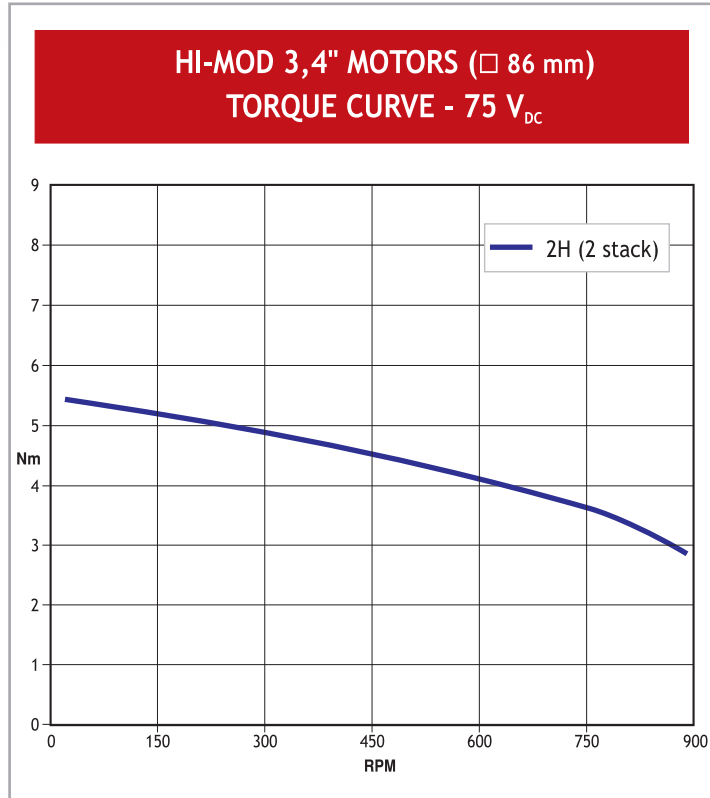
X<sub>4</sub> = Motor type

X<sub>5</sub> = Motor current

Available versions: HI-MOD ETS E4F2HC - HI-MOD ETS A4F2HC

## TECHNICAL FEATURES

- Range of operating voltage: 32-75 V<sub>DC</sub>.
- Protections:
  - Protection against under-voltage and over-voltage.
  - Protection against a short-circuit at motor outputs.
  - Overtemperature protection.
- Electronic damping facility for further 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 or Multi-Turn Absolute Encoder.
- UL/CSA certified.

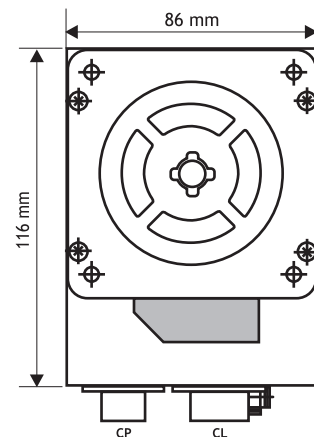
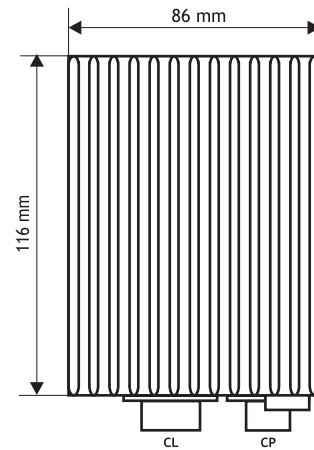
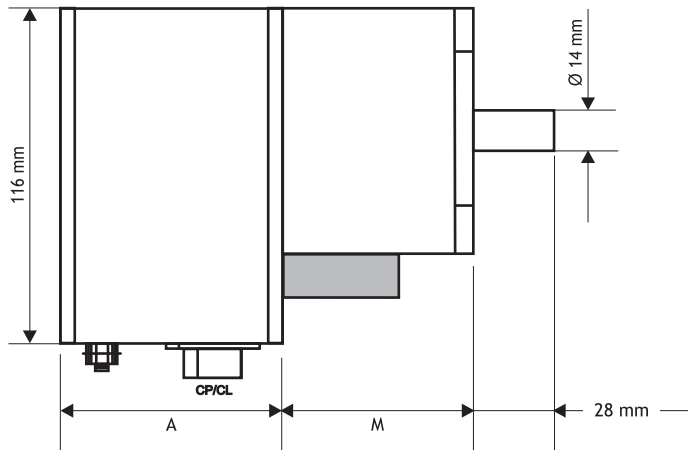


## MECHANICAL DIMENSIONS

Model	A Length (mm)
HI-MOD ET	78.0

Type	M Length (mm)
2H	96.5



© R.T.A. s.r.l. PAVIA (Italy) Allegato cat. CAE 06-14 Ed.02 03-2017



R.T.A. s.r.l.  
Via E. Mattei - Fraz. Divisa  
27020 MARCIGNAGO (PV) ITALY  
Tel. +39.0382.929.855 - Fax +39.0382.929.150  
www.rta.it

R.T.A. Deutschland GmbH  
Bublitzer Straße 34  
40599 DÜSSELDORF (Germany)  
Tel. +49.211.749.668.60 - Fax +49.211.749.668.66  
www.rta-deutschland.de

R.T.A. IBERICA-Motion Control Systems S.L.  
C/Generalitat 22, 1° 3°  
08850 GAVA - BARCELONA (Spain)  
Tel. +34.936.388.805 - Fax +34.936.334.595  
www.rta-iberica.es