

# HI-MOD ETS Combo Unit

3rd  
FIRMWARE  
GENERATION

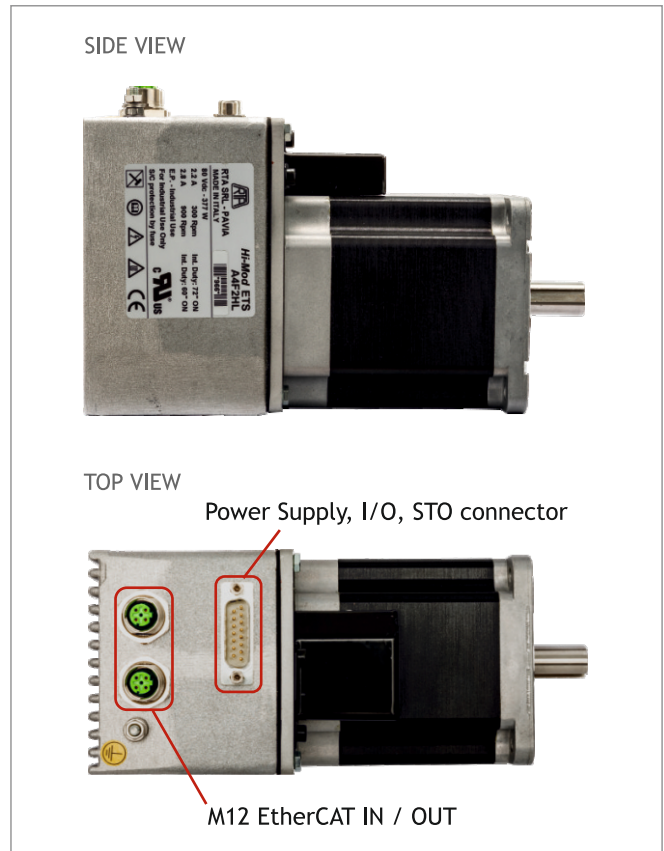
## EtherCAT®

### INTRODUCTION

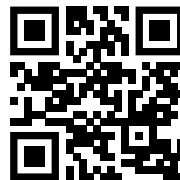
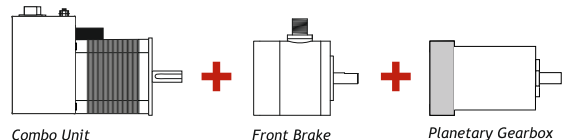
HI-MOD ETS is a series of stepping motors in three sizes with integrated ministepp bipolar chopper EtherCAT drives and STO Function, based on incremental or battery-less multi-turn absolute encoder.

### HIGHLIGHTS

- New generation Full Closed Loop Absolute Encoder versions available
- Holding Torque up to 920 Ncm
- Communication by means of EtherCAT interface
- Different Operation Modes
- Available Inputs / Outputs
- Different HOMING operation modes
- PROXIMITY hardware input
- AUTO-SYNC function
- Battery-less Multi-turn ABSOLUTE ENCODER versions
- STO Function - SIL3 with Error Detection Monitor



Front Brake and/or Gearbox versions available



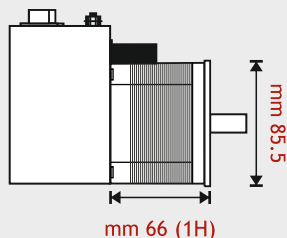
SCAN THE QR CODE TO  
WATCH A VIDEO ON THE  
AUTO-SYNC FUNCTION



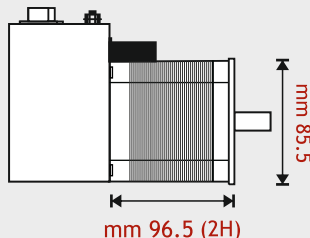
Please refer to [download.rta.it](http://download.rta.it) for technical specifications

Models	Motor Length (mm)	Holding Torque (Ncm)	Encoder Type	Digital In/Out	STO In	Certifications
HI-MOD ETS A4F2HK <i>Full Closed Loop</i>	96.5	700	Battery-less Multi-turn Absolute	2/2	2	CE, UL, CSA + STO SIL3
HI-MOD ET A5F2HK <i>Full Closed Loop</i>	96.5	700	Battery-less Multi-turn Absolute	2/2	/	CE, UL, CSA
HI-MOD ETS E4F2HC	96.5	700	Incremental	2/2	2	CE, UL, CSA + STO SIL3
HI-MOD ET E3F2HA	96.5	700	Incremental	1/0	/	CE

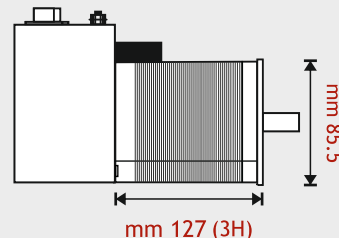
## SIZES AND PERFORMANCES



mm 66 (1H)  
Holding Torque: 360 Ncm

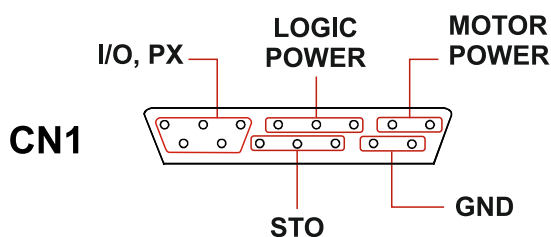


mm 96.5 (2H)  
Holding Torque: 700 Ncm



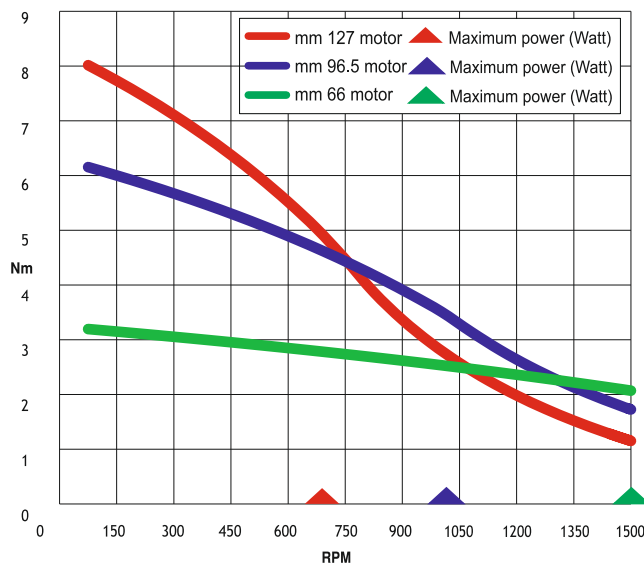
mm 127 (3H)  
Holding Torque: 920 Ncm

## CONNECTION SCHEME

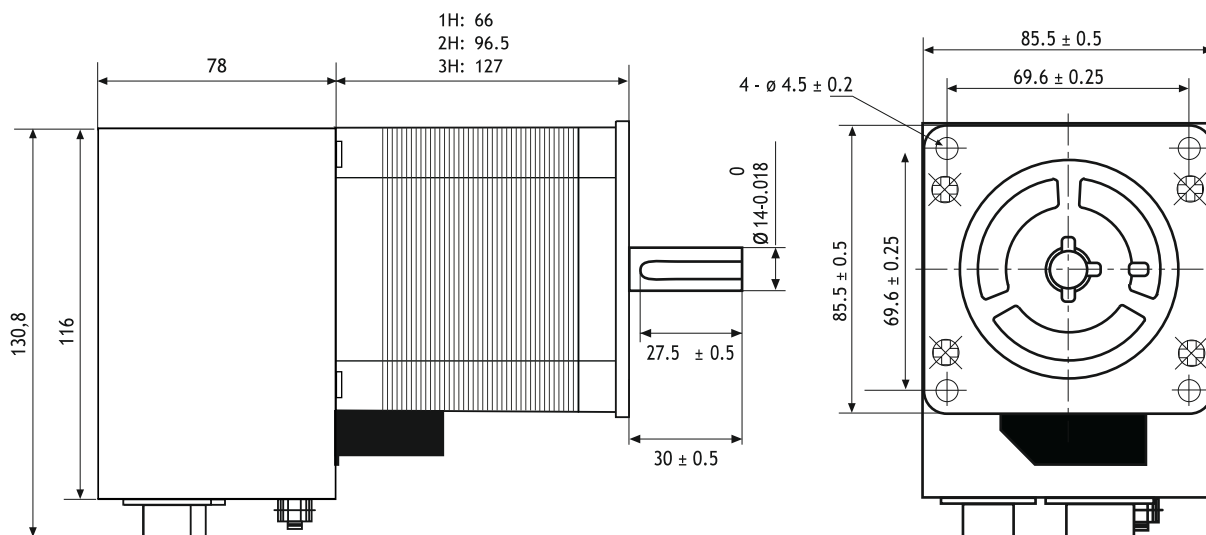


- 1: Trasmit Data +
- 2: Receive Data +
- 3: Trasmit Data -
- 4: Receive data -

## TORQUE/SPEED CURVE



## MECHANICAL DIMENSIONS (mm)



*Starter kit and cable set available.*



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