

R-MOD ET Combo Unit

NEW! Flange size Nema 23

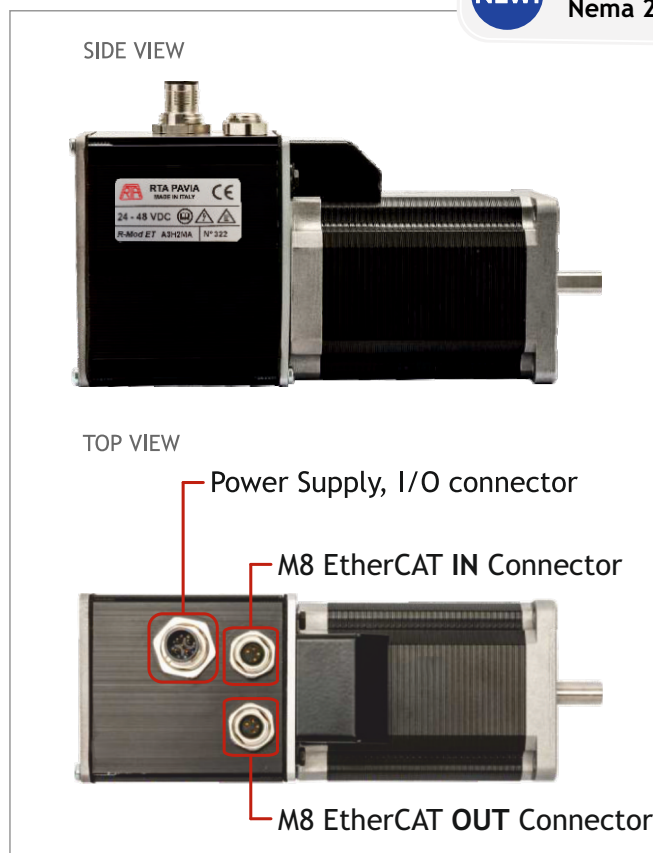
EtherCAT[®]

INTRODUCTION

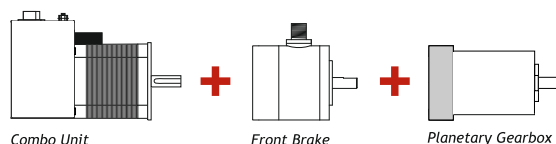
R-MOD ET is a series of combo-units in two sizes with integrated microstep bipolar chopper EtherCAT drives, based on battery-less multi-turn absolute encoder.

HIGHLIGHTS

- New generation Full Closed Loop Absolute Encoder version available
- Holding Torque up to 300 Ncm
- Communication by means of EtherCAT interface
- Different Operation Modes
- Different flange sizes (NEMA 23 / NEMA 24)
- Different HOMING operation modes
- PROXIMITY hardware input
- AUTO-SYNC function
- Battery-less Multi-turn ABSOLUTE ENCODER versions



Front Brake and/or Gearbox versions available



Please refer to download.rta.it for technical specifications

Starter kit and cable set available.



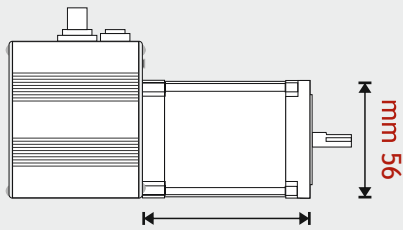
SCAN THE QR CODE TO WATCH A VIDEO ON THE AUTO-SYNC FUNCTION



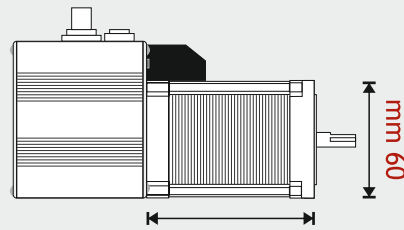
Models	Lenght (mm)	Flange size (mm)	Holding Torque (Ncm)	Encoder Type	Certifications
R-MOD ET A2H1MK <i>Full Closed Loop</i>	123.2	56	110	Battery-less Multi-turn Absolute	CE
R-MOD ET A2H2MK <i>Full Closed Loop</i>	145.2	56	165	Battery-less Multi-turn Absolute	CE
R-MOD ET A3H1MK <i>Full Closed Loop</i>	123.2	60	170	Battery-less Multi-turn Absolute	CE
R-MOD ET A3H2MK <i>Full Closed Loop</i>	155.2	60	300	Battery-less Multi-turn Absolute	CE

Incremental encoder version also available.

SIZES AND PERFORMANCES



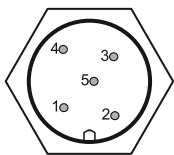
mm 78 (2H) Holding Torque: 165 Ncm
mm 54.5 (1H) Holding Torque: 110 Ncm



mm 85.8 (2H) Holding Torque: 300 Ncm
mm 53.8 (1H) Holding Torque: 170 Ncm

CONNECTION SCHEME

CN1



- 1: Input (PX / Touch probe)
- 2: Power supply
- 3: Input (PX / Touch probe)
- 4: GND
- 5: Logic power supply

CN2



EtherCAT
OUT
(Female)

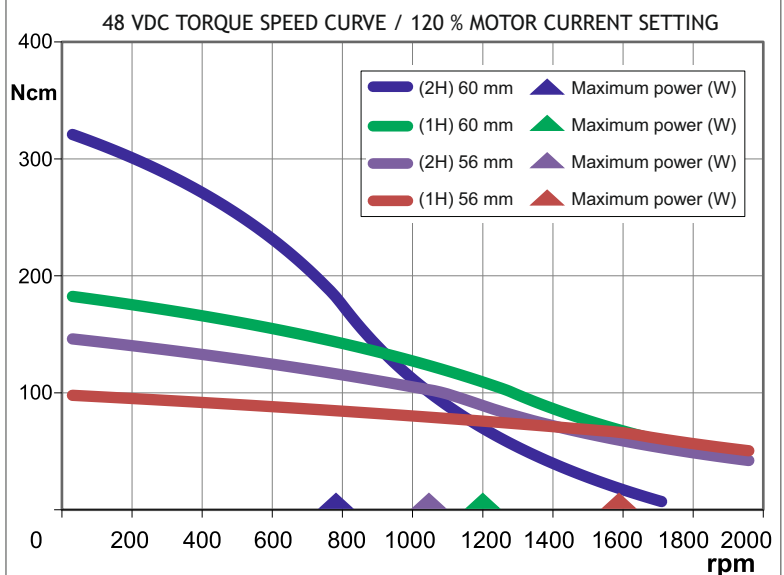
CN3



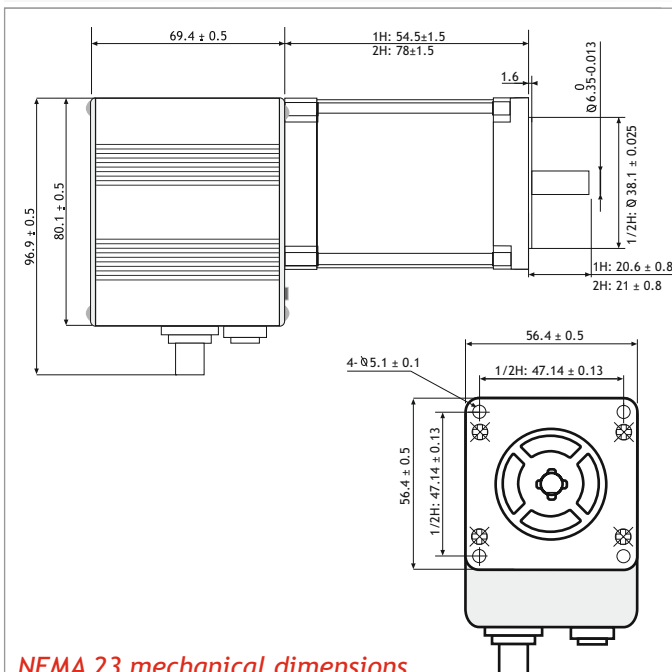
EtherCAT
IN
(Female)

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

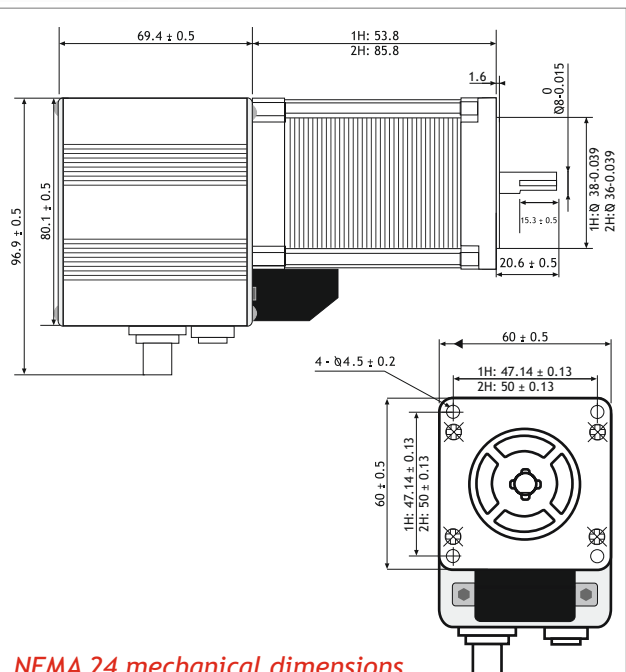
TORQUE/SPEED CURVE



MECHANICAL DIMENSIONS (mm)



NEMA 23 mechanical dimensions



NEMA 24 mechanical dimensions



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HI MOD ET/ETS Combo Unit

EtherCAT[®]

INTRODUCTION

HI-MOD ETS is a series of stepping motors in three sizes with integrated ministep bipolar chopper EtherCAT drives and STO Function, based on 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
- Touch probe hardware input
- AUTO-SYNC function
- Battery-less Multi-turn ABSOLUTE ENCODER versions
- STO Function - SIL3 with Error Detection Monitor



Please refer to download.rta.it for technical specifications

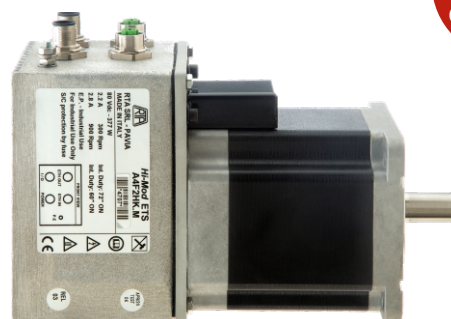
Models	Motor Length (mm)	Holding Torque (Ncm)	Encoder Type	Digital In/Out	STO	Rated Voltage (VDC)
HI-MOD ETS A4K2HK.M <i>Full Closed Loop</i>	96.5	700	Battery-less Multi-turn Absolute	2/2	✓	48-80
HI-MOD ET A5K2HK.M <i>Full Closed Loop</i>	96.5	700	Battery-less Multi-turn Absolute	2/2	X	48-80
HI-MOD ETS A4K2RK.M <i>Full Closed Loop</i>	96.5	700	Battery-less Multi-turn Absolute	2/2	✓	80-140
HI-MOD ET A5K2RK.M <i>Full Closed Loop</i>	96.5	700	Battery-less Multi-turn Absolute	2/2	X	80-140

Other models upon request

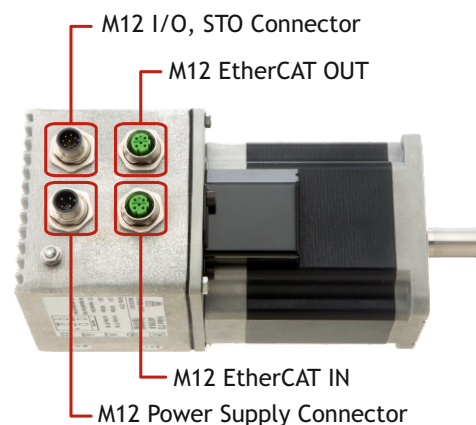
3rd

FIRMWARE GENERATION

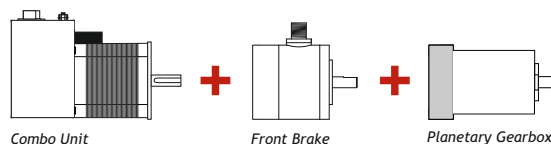
SIDE VIEW



TOP VIEW



Front Brake and/or Gearbox versions available



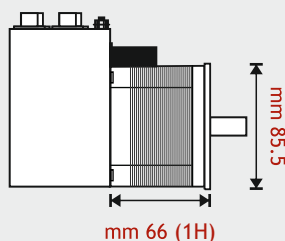
SCAN THE QR CODE TO WATCH A VIDEO ON THE AUTO-SYNC FUNCTION



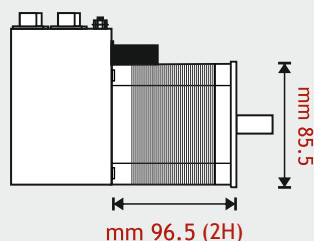
140 VDC

140 VDC

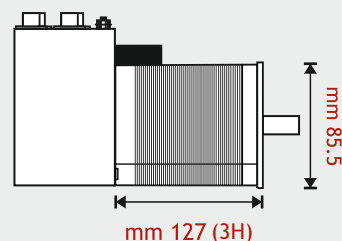
SIZES AND PERFORMANCES



Holding Torque: 360 Ncm



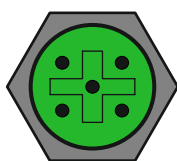
Holding Torque: 700 Ncm



Holding Torque: 920 Ncm

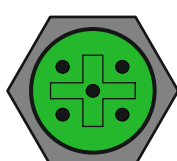
CONNECTION SCHEME

CN2



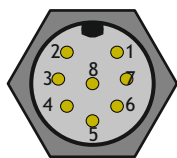
EtherCAT
OUT

CN3



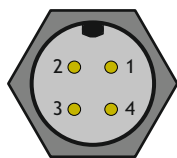
EtherCAT
IN

CN1



I/O

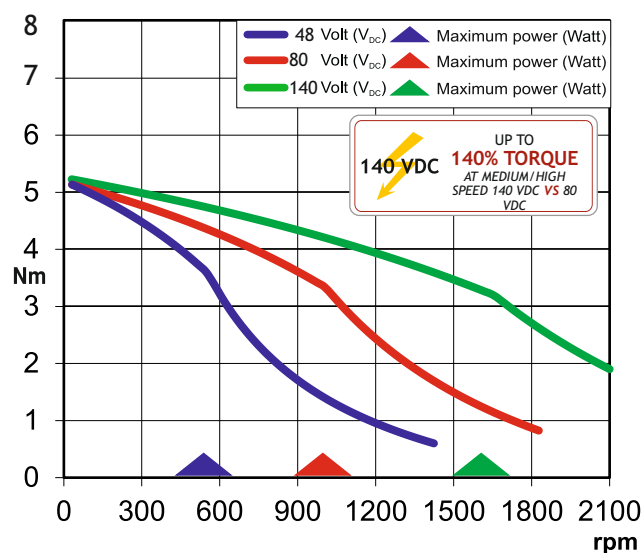
CN4



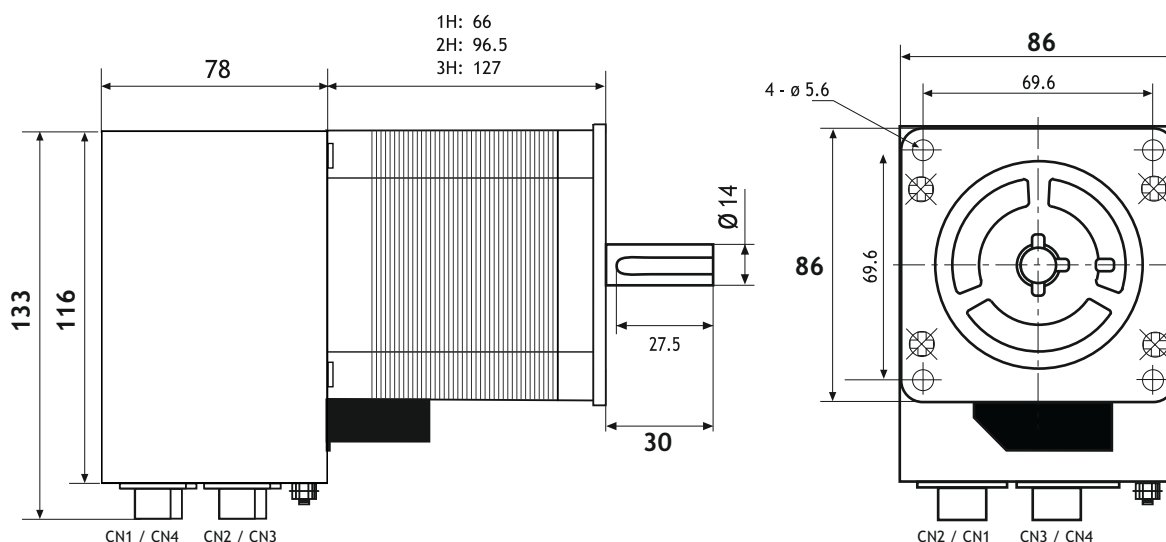
POWER

TORQUE/SPEED CURVE

48/80/140 VDC TORQUE/SPEED CURVE - REF. 700 Ncm MODELS



MECHANICAL DIMENSIONS (mm)



Starter kit and cable set available.



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