

**EtherCAT<sup>®</sup>**

## INTRODUCTION

- New series of stepping motor drives with EtherCAT interface, now available with a 3<sup>rd</sup> generation firmware release (2021).
- Drives optimized for coupling with SANYO DENKI stepping motors, fitted with encoder, but also able to manage third parts motors.
- Compact system, developed to offer a wide variety of integrated functions and optimized for the most demanding motion control applications.

## MAIN EtherCAT® FEATURES

- Modes of operation: PP, PV, Homing, CSP and CSV.
- Wide range of motor phase current setting and motor current overboost (120%).
- Different variety of HOMING operation modes.
- Encoder feedback and support of different resolution.
- Touch Probe function available.
- Limit switches management.
- Auto-sync function available featuring a closed loop positioning.
- 4 + 3 I/Os.

The image shows the RTA PLUS EtherCAT interface unit, a red and black device. The front panel features several green terminal blocks for wiring. The top block has terminals 31-38, labeled L/A-IN, L/A-OUT, RUN, and ERR. The middle block has terminals 21-27, labeled HV, TER, and FAU. The bottom block has terminals 1-10, labeled V+, V-, SHIELD, B, B-, A-, A, MOTOR, and HV IN. A silver screw terminal is also present. The unit has a black side panel with a white label containing the RTA logo, CE mark, and text: RTA PAVIA, PLUS ET B3, N° 219, MADE IN ITALY. The bottom of the unit is labeled PLUS EtherCAT.

Series	Model	V <sub>AC</sub> range	V <sub>DC</sub> range	I nom.	Digital In/Out	Dimensions
		(Volt)	(Volt)	(Amp)		(mm)
PLUS ET	A3	/	39 to 85	6.0	4/3	152x129x46
PLUS ET	B3	28 to 62	/	6.0	4/3	152x129x46



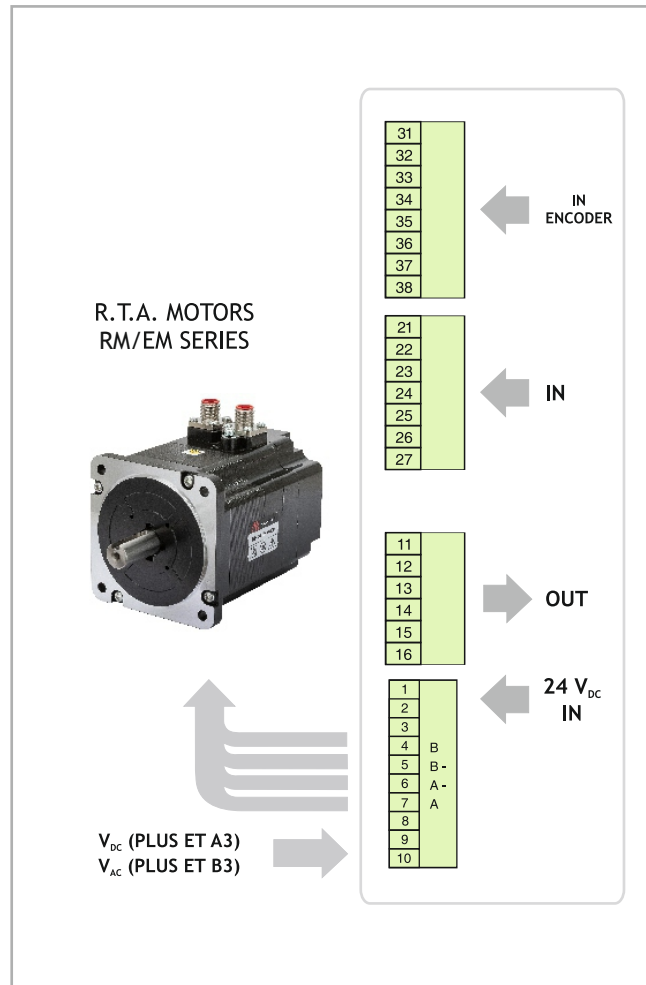
## TECHNICAL FEATURES

- Range of operating voltage: 39-85 VDC (**PLUS ET A3**) and 28-62 VAC (**PLUS ET B3**).
- 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.
- Available in plastic boxed version with plug-in connectors.
- Maximum compactness.
- Optoinsulated auxiliary and programmable inputs and outputs.
- External fans not needed.
- Warranty: 24 months.

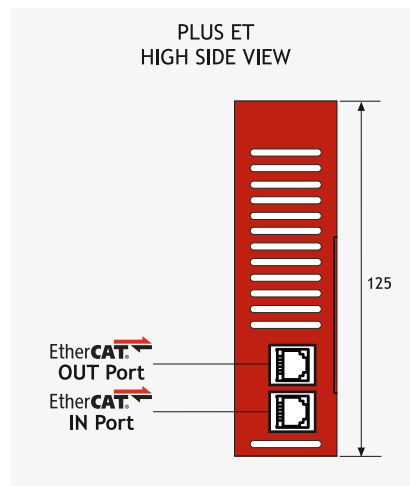
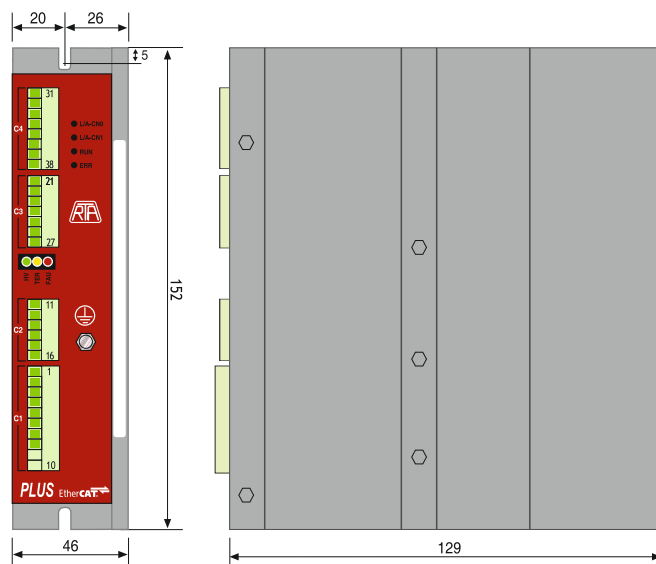
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## POWER AND LOGIC CONNECTIONS



## MECHANICAL DIMENSIONS



Dimensions in millimeters - Not in scale.