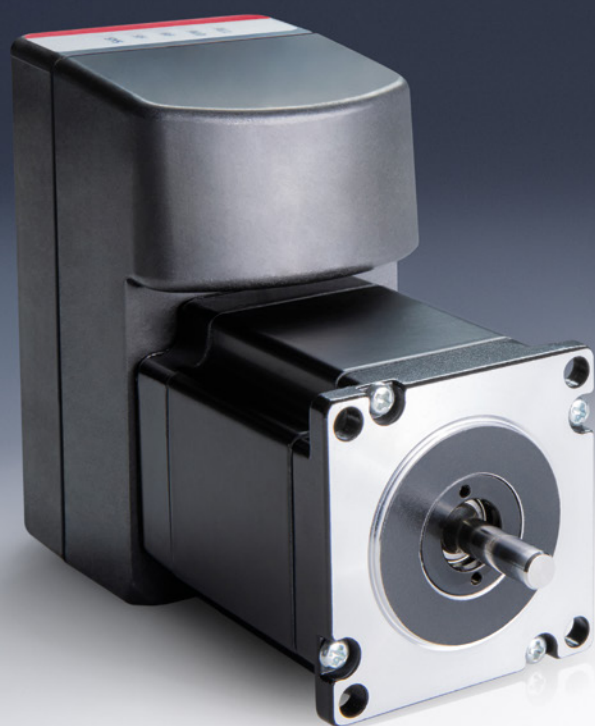
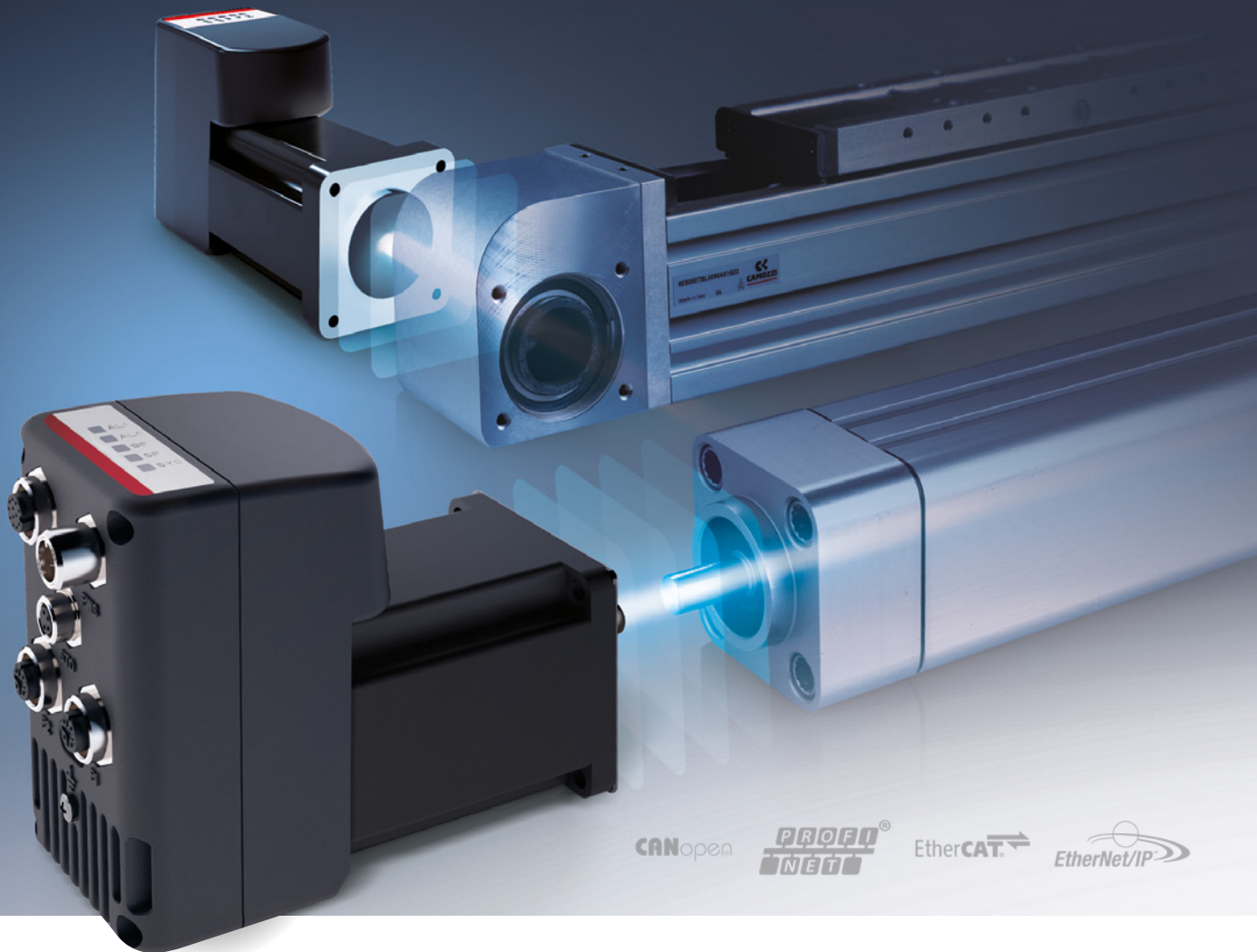


**INTEGRATED FIELD-ORIENTED
CONTROL DRIVE**
SERIES DRVI



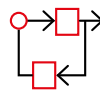
SERIES DRVI

A PRECISE, FAST AND VERSATILE DRIVE



The Series DRVI integrated motor drive is designed **to control various types of motors**, both stepper and brushless, using a closed-loop control (FOC) algorithm. This algorithm, also known as vector control (FOC), offers **better performance than traditional stepper motor control systems**, which allows the stepper motor to operate over the entire speed range, ensuring fast acceleration and deceleration, assuring more accurate motion control with no loss of steps.

It is also more energy efficient than traditional control methods, as it uses precise rotor position feedback and controls the phase current, optimising motor operation. Its **compact design** and integration with the main communication protocols make the Series DRVI the **ideal solution for various industrial applications** that require accurate control and fast response to load variations.



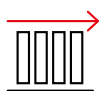
Integrated solution
Encoder, motor, and drive all in one



Flexibility
Different operating modes:
position, speed and torque



Energy efficient
Compared to traditional stepper motors



Precise Positioning
With no loss of steps achieved
through Field-Oriented Control



Different communication protocols
CANopen - Profinet - EtherCAT - Ethernet IP

Ideal for any application



ASSEMBLY & ROBOTICS



PACKAGING



FOOD & BEVERAGE

LIFE SCIENCE



General Data

	DRVI-23ST012	DRVI-24ST022	DRVI-24EC125
Motor type	Stepper	Stepper	Brushless DC
Flange size	NEMA 23	NEMA 24	NEMA 24
Max speed [rpm]	3000 rpm	3000 rpm	3000 rpm
Torque [Nm]	1.2 Nm (holding torque)	2.2 Nm (holding torque)	0.5 Nm (nominal) - 1.5 Nm (peak)
Rated power [W]	-	-	125 W
Power supply	24 - 48 VDC	24 - 48 VDC	24 - 48 VDC (nominal 48 V)
GPIO	2 Digital inputs for sensors (homing and limit switches) 2 Configurable digital inputs 1 Configurable digital output	2 Digital inputs for sensors (homing and limit switches) 2 Configurable digital inputs 1 Configurable digital output	2 Digital inputs for sensors (homing and limit switches) 2 Configurable digital inputs 1 Configurable digital output
IP protection	IP65 (except motor shaft)	IP65 (except motor shaft)	IP65 (except motor shaft)
Control loop	Closed loop by field-oriented control	Closed loop by field-oriented control	Closed loop by field-oriented control
Operation mode	Position - Speed - Torque	Position - Speed - Torque	Position - Speed - Torque
Communication protocol	CANopen - Profinet - Ethercat - Ethernet/IP	CANopen - Profinet - Ethercat - Ethernet/IP	CANopen - Profinet - Ethercat - Ethernet/IP
Additional Function	STO (Safe Torque Off)*	STO (Safe Torque Off)*	STO (Safe Torque Off)*

* non-certified function

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Automation

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