#### CURRENT

 $0 \div 4.2 \text{ Arms } (0 \div 6.0 \text{ Apeak})$ 

#### **CONTROL INTERFACES**

Serial RS485 Modbus RTU or CANbus

#### **ENCODER INTERFACE**

incremental encoder not isolated input 5V Differential (RS422) or 5V Single-Ended (TTL/CMOS)

#### SCI INTERFACE

service SCI interface for programming and real time debug

#### **OPTOISOLATED INPUTS**

4 digital inputs

#### **OPTOISOLATED OUTPUTS**

2 digital outputs

#### **ANALOG INPUTS**

2 analog inputs

#### **EMULATED STEP RESOLUTION**

Stepless Control Technology (65536 positions per turn)

#### **SAFETY PROTECTIONS**

Over/UnderVoltage, OverCurrent, OverTemperature, Phase/Phase and Phase/Ground Short

**TEMPERATURE** operating from 5°C to 40°C, storage -25°C to 55°C

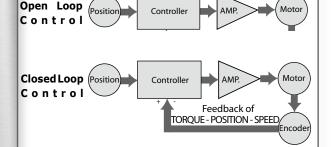
#### HUMIDITY

5% ÷ 85%

#### **PROTECTION CLASS**

IP00 (open frame)

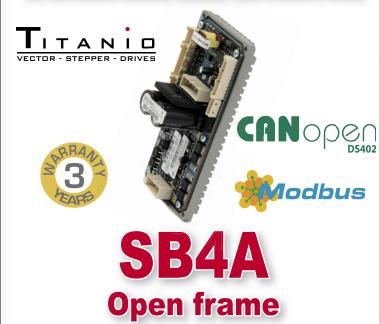
## -Oran-loop-//Glosed-Loop-



Better control compared to both an open loop stepper solution and a servo-controlled brushless solution

## Full Digital Programmable Dative with fieldbus

eteco besuben 41 with reduced Motion Control with reduced costs



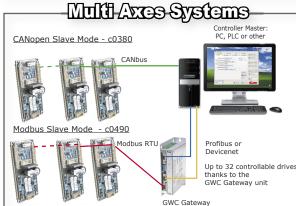
- Vectorial control
- Several fieldbus
- Serial Service for real time programming and debugging
- New e3PLC Programming Environment, easy and intuitive
- Closed loop also with absolute multiturn encoder

# *E-MOTION SOLUTIONS*

#### **EVER Motion Solutions srl**

Via del Commercio, 2/4 -9/11 Loc. S. Grato - Z.I. 26900 - LODI (LO) - Italy Tel. 0039 0371 412318 - Fax 0039 0371 412367 email infoever@everelettronica.it www.everelettronica.it





Drive control through commands by Master Controller. Suitable for multi axes systems (up to 127 drives). Built in Powerfull Motion Module functionality assures Perfect Synchronization among axes and reduces Master Controller workload

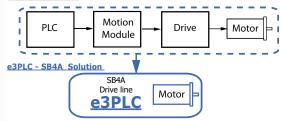
## Stand Alone Mode

User Programmable - e3PLC- c0490

### FIELDBUS DRIVES WITH AUTONOMOUS FUNCTIONING

that, by integrating advanced PLC and motion controller functions in one single device, programmable by the user with the IDE for Windows PC and e3PLC, allows to reduce the traditional machine control solution.

#### Traditional Solution



The e3PLC IDE allows the user to access all the I/O control functions and resources, provided by the drive, and to locally program its Motion Control Module, which can also be synchronized with other drives and events of the controlled process. Thanks to the advanced functionalities of the Power Motion Module, an integrated Real-time Process Module, applications can be easily created for special applications such as:

- Labelling
- Electronic cams
- Control Sequences of cable processing
- Many other user-customized processes ...

### IDE e3PLC configuration (programmable)



Autonomous management of the firmware for the execution of the **homing**, of the target movement with relative or absolute quota and for the generation of the ramp profiles

**Torque mode** for operation with torque limitation

Speed control thanks to digital inputs, analogue inputs or fieldbus

**Electronic CAM** with advanced programming of internal profiles inside the drive

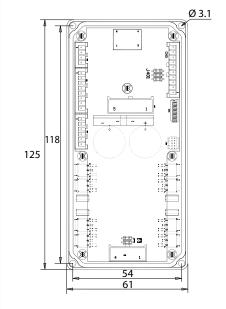
**Electric shaft** with encoder or analogue input with variable tracking ratio (Electric Gear)

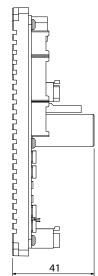
Fast inputs and outputs for motor' start & stop and event synchronization for high speed response applications such as labeling, nick finder, flying saw etc.

Possibility to synchronize the movements in multi-axis systems, even without fieldbus

Enabling and on-the-fly changing of the motion control modes

## -Mechanical-Data





-Ordering-information-of-SE4A-open-frame-drives-and-options-

Order co	Power			System Resources							
Versions	Config. (see table)	Power sup Power	oply Logic	Current	CAN	Serial	SCI	Digital Inputs	Digital Outputs	Analog Inputs	Encoder interface
SB4A3042C261-00	c0380 c0390	18 ÷ 56 Vac	24 Vdc (Optional)	0 ÷ 4,2 Arms	CANbus (Canopen)		for programming				1 FV TTV CMOS
SB4A3042M261-00	c0490	18 ÷ 56 Vac	24 Vdc (Optional)	(0 ÷ 6,0 Apeak)		RS485 (Modbus)	and real time debug	4	2	2	1 5V TTL/CMOS

Configuration, Control Method and Optional Software Starter Kits							
Config.	Control	Software Starter Kits Code					
c0380	Canopen Control Mode (CiA DS402 profile)	SB4A_SERV00-SL					
c0390	Stand-Alone e3PLC Studio IDE Canopen Mode	SB4A_SERV00-EE					
c0490	Modbus Control Mode and Stand Alone e3PLC Studio IDE Modbus Mode	SB4A_SERV00-EE					