Code	Power	supply	Max. Out		
	Power	Logic	Current		
SW4D2070	12 ÷ 48 Vdc	12 ÷ 48 Vdc	7.1 Arms (10 Apeak)		
SW4A3070	18 ÷ 56 Vac	24÷ 80 Vdc	7.1 Arms (10 Apeak)		
SW4A4085	18 ÷100 Vac		8.5 Arms (12 Apeak)		

#### **COMMUNICATION INTERFACE**

Modbus or CANbus

#### **ENCODER INTERFACE**

 incremental encoder not isolated input 5V Differential (RS422) or 5V Single-Ended (TTL/CMOS) (SW4D2070 and SW4A3070) or absolute encoder input 5V BISS-C or SSI (SW4A3070x261-02 only)
 encoder output not isolated 5V Differential (RS422) (SW4A3070 only)

#### **SCI INTERFACE**

service SCI interface for programming and real time debug

#### **OPTOISOLATED INPUTS**

4 digital inputs

#### **OPTOISOLATED OUTPUTS**

2 digital outputs (SW4A3070 and SW4A4085) or 3 digital outputs (SW4D2070)

#### **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**

IP20

# OpenLoop Controller AMP. Motor Closed Loop Controller AMP. Motor Controller AMP. Motor Controller Feedback of TORQUE-POSITION-SPEED Encoder

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

# Programmable vectorial drivers for 2 phases stepper motors



# **SW4**

# **Titanio drivers**

- 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 for driver's versions equipped with encoder input



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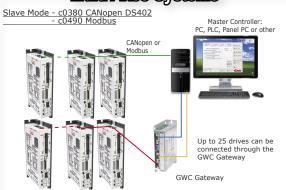
email infoever@everelettronica.it

www.everelettronica.it

## -Step-& Direction or Analog



# Multi Axes Systems



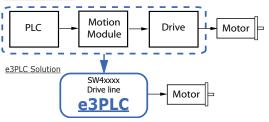
Drive control through commands by Master Controller. Suitable for multi axes systems (up to 127 drives). Built in powerfull Motion Module functionality assures perfect synchronization among axes and reduces Master Controller workload

### Stand Alone Mode

PUser Programmable - e3PLC- c0390 - 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

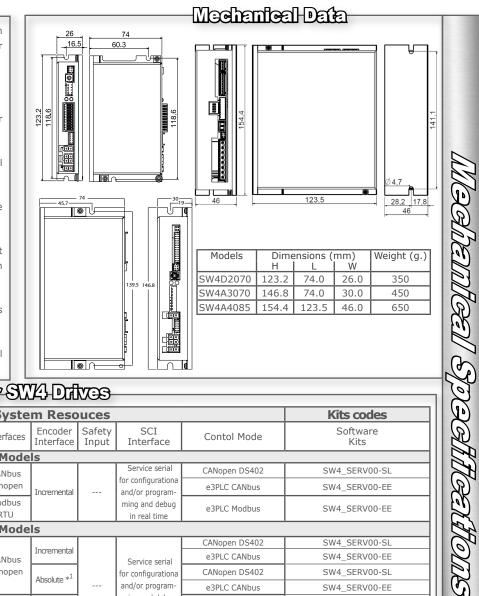
**Electronic CAM** with advanced programming of internal profiles inside the drive

**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



Ordering Information for SW4 Drives

Ordering	g code		Power						Syste	m Reso	uces			Kits codes
Versions	Config.	Power Supply	Logic Power Supply	Current	Digital Inputs	Digital Outputs	Analog Inputs	Analog Outputs	Interfaces	Encoder Interface	Safety Input	SCI Interface	Contol Mode	Software Kits
SW4 Drives Line: 2070 Models														
SW4D2070C231-00	c0380	12 ÷ 48 Vdc	12 ÷ 48 Vdc	0 ÷ 7.1 Arms (0÷10.0 Apeak)	4	3	2	0 .	CANbus		tal	Service serial for configurationa and/or program- ming and debug in real time	CANopen DS402	SW4_SERV00-SL
	c0390								Canopen	Incremental			e3PLC CANbus	SW4_SERV00-EE
SW4D2070M231-00	c0490								Modbus RTU				e3PLC Modbus	SW4_SERV00-EE
SW4 Drives Line: 3070 Models														
SW4A3070C261-00	c0380								CANbus			Service serial	CANopen DS402	SW4_SERV00-SL
	c0390									Incremental			e3PLC CANbus	SW4_SERV00-EE
	]		0 ÷ 7.1 Arms					Canopen	Absolute *1	] '	for configurationa	CANopen DS402	SW4_SERV00-SL	
	c0390	18 ÷ 56 Vac	24 ÷ 80 Vdc	4 ÷ 80 Vdc (0÷10.0 Apeak)	4	2	2	0		Absolute		and/or program- ming and debug in real time	e3PLC CANbus	SW4_SERV00-EE
SW4A3070M261-00	c0490								Modbus I	Incremental			e3PLC Modbus	SW4_SERV00-EE
SW4A3070M261-02	c0490								RTU	Absolute *1			e3PLC Modbus	SW4_SERV00-EE
SW4 Drives Line: 4085 Models														
SW4A4085C261-00	c0380	18 ÷ 100 Vac		0 ÷ 8.5 Arms (0÷12.0 Apeak)	4	2	2	0	CANbus Canopen			Service serial for configurationa	CANopen DS402	SW4_SERV00-SL
	c0390											and/or program-	e3PLC CANbus	SW4_SERV00-EE
SW4A4085M261-00	c0490								Modbus RTU			ming and debug in real time	e3PLC Modbus	SW4_SERV00-EE

\*1 Available for closed loop of position only.