Code	Power	supply	Max. Out Current	
	Power	Logic		
SW4A3070	18 ÷ 56 Vac	24÷ 80 Vdc	7.1 Arms (10 Apeak)	

### **OPTOISOLATED CONTROL BUSSES**

Modbus or CANbus

### **ENCODER INTERFACE**

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

#### SCI INTERFACE

service SCI interface for programming and real time debug

### **OPTOISOLATED INPUTS**

4 digital inputs 2-24 Vdc NPN, PNP or Line-Driver 2 MHz

### **OPTOISOLATED OUTPUTS**

2 digital outputs PNP, 24 Vdc - 100 mA

#### ANALOG INPUTS

2 analog inputs for potentiometer or ±10 Vdc

### **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 0°C to 40°C, storage -25°C to 55°C

### HUMIDITY

5% ÷ 85%

OpenLoop

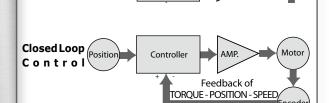
Control

#### PROTECTION CLASS

IP20

# Open-loop//Glosed-Loop

Controller



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**

- Multiform Control Modes
- Equipped with advanced safety features:
  - √ Integrated diagnostic
  - √ separated power supply for logic and power
  - √ fault monitoring and handling
- Drives main features:
  - √ Vectorial control

The sinusoidal phase current with "else" technology keep the motor torque constant allowing smooth and noiseless movements.

- √ Closed loop
- √ Integrated oscilloscope
- $\sqrt{}$  Auto tuning of motor control parameters
- √ High efficiency current set up

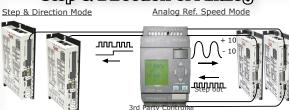
# e-motion solutions

### **EVER Motion Solutions srl**

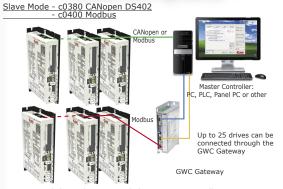
Via del Commercio, 2/4 -9/11 Loc. S. Grato - Z.I. 26900 - LODI (LO) - Italy

Tel. 0039 0371 412318 - Fax 0039 0371 412367 email infoever@everelettronica.it www.everelettronica.it

### -Step-& Direction-or-Analog



### -Multi-Axces-Systems



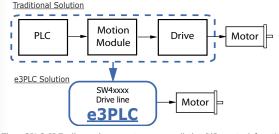
Drive control through commands by Master Controller. Suitable for multi axes systems (up to 127 drives). Built in powerfull Motion Module functionality assures perfect synchronization among axes and reduces Master Controller workload.

### **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.



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

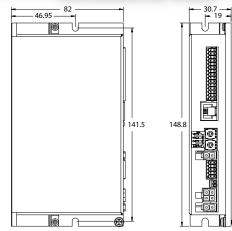
**Electric shaft** with encoder or analogue input with variable tracking ratio (Electric Gear)

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





	Models	Dim H	Weight (g.)		
SW4A3	3070	148.8	82.0	30.7	350

### Ordering Information for SWA Drives

Ordering code Power				System Resouces							Kits d'installazione		
Versions	Config.	Power Supply	Logic Power Supply	Current	Digital Inputs	Digital Outputs	Analog Inputs	Analog Outputs	Interfaces	Encoder Interface	SCI Interface	Contol Mode	Software * <sup>1</sup> Kits
SW4 Drives Line: 3070 Models													
SW4A3070N241-01	S0201	18 ÷ 56 Vac	1 24 ± 80 V/dc 1	0 ÷ 7.1 Arms				2 0			Service serial for pro- ll gramming and debug in real time	Ck&Dir closed loop mode	SW4_SERV10-SL
	c0380					2	2		Canbus Increment			CANopen DS402	SW4_SERV10-SL
SW4A3070C261-01	c0390			(0÷10.0 Apeak)						Incremental		e3PLC CANbus	SW4_SERV10-EE
SW4A3070M261-01	c0490								Modbus			e3PLC Modbus	SW4_SERV10-EE

<sup>\*1</sup> Kits software are intended for the SCI communications for systems configuration or programming and includes converters and cables form serial service to RS485 and from RS485 to USB in the SW4\_SERV00-xx code versions and a CD-Rom.