

Specifications

MODELS

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

OPTOISOLATED CONTROL BUSESSE

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

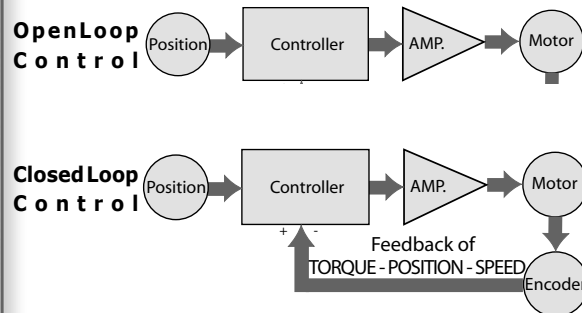
HUMIDITY

5% ÷ 85%

PROTECTION CLASS

IP20

Open-loop / Closed Loop



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

Programmable vectorial drivers for 2 phases stepper motors



TITANIO
VECTOR - STEPPER - DRIVES

CANopen
DS402
Modbus



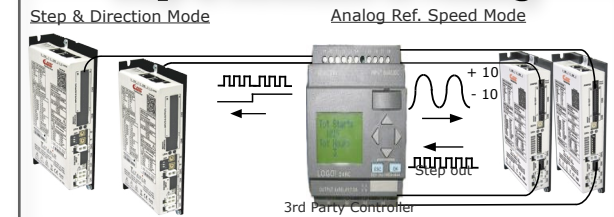
SW4 Titanio drivers

- 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
 - ✓ Auto tuning of motor control parameters
 - ✓ High efficiency current set up

Ever
ELETRONICA
the clever drive

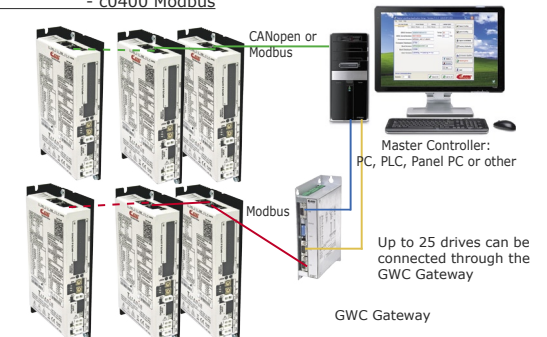
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Step & Direction or Analog



Multi Axes Systems

Slave Mode - c0380 CANopen DS402
- c0400 Modbus



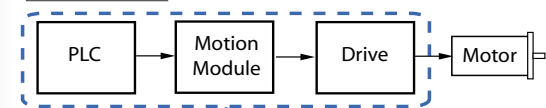
Drive control through commands by Master Controller. Suitable for multi axes systems (up to 127 drives). Built in powerful Motion Module functionality assures perfect synchronization among axes and reduces Master Controller workload.

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



e3PLC Solution



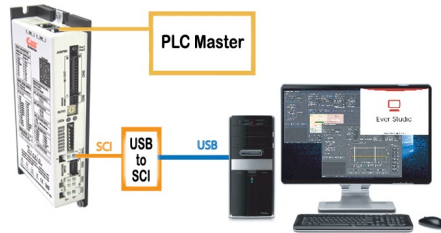
The e3PLC IDE allows the user to access all the I/O control functions and resources, provided by the drive, and to locally program its Motion Control Module, which can also be synchronized with other drives and events of the controlled process. Thanks to the advanced functionalities of the Power Motion 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 ...

Configuration and programming

Ever co. proprietary PC Software Tools for easy and quick development, configuration and supervision of each system.

Fieldbus configuration (slave)



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

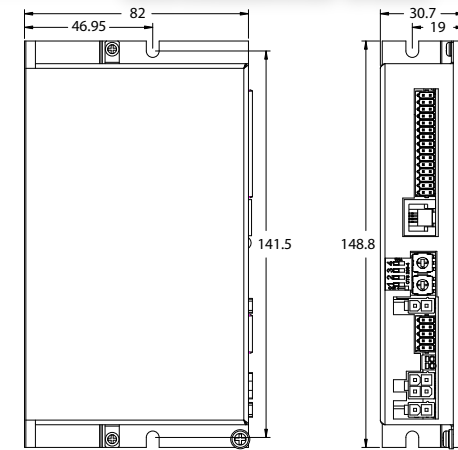
Electric shaft with encoder or analogue input with variable tracking ratio (Electric Gear)

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



Models	Dimensions (mm)			Weight (g.)
	H	L	W	
SW4A3070	148.8	82.0	30.7	350

Ordering Information for SW4 Drives

Ordering code		Power			System Resources							Kits d'installazione	
Versions	Config.	Power Supply	Logic Power Supply	Current	Digital Inputs	Digital Outputs	Analog Inputs	Analog Outputs	Interfaces	Encoder Interface	SCI Interface	Control Mode	Software *1 Kits
SW4 Drives Line: 3070 Models													
SW4A3070N241-01	S0201	18 ÷ 56 Vac	24 ÷ 80 Vdc	0 ÷ 7.1 Arms (0÷10.0 Apeak)	4	2	2	0	Canbus	Incremental	Service serial for programming and debug in real time	Ck&Dir closed loop mode	SW4_SERV10-SL
SW4A3070C261-01	c0380											CANopen DS402	SW4_SERV10-SL
	c0390											e3PLC CANbus	SW4_SERV10-EE
SW4A3070M261-01	c0490							Modbus			e3PLC Modbus	SW4_SERV10-EE	

*1 Kits software are intended for the SCI communications for systems configuration or programming and includes converters and cables from serial service to RS485 and from RS485 to USB in the SW4_SERV00-xx code versions and a CD-Rom.