

Specifications

MODELS

Code	Power supply	Current
SW5A9030	100 ÷ 240 Vac (monophase)	3.0 Arms (4.2 Apk)

EMULATED STEP RESOLUTION
Stepless Control Technology (65536 position per turn)

COMMUNICATION INTERFACES
EtherCAT or Ethernet (Modbus TCP/IP) or Profinet or CANopen + Serial (Modbus RTU)

ENCODER INTERFACES
incremental encoder input 5V differential RS422 or single-ended TTL/CMOS (isolated)
absolute encoder input 5V SSI or BISS-C (isolated)

SCI INTERFACE
SCI service interface for programming and real time debug

OPTOCOUPLED INPUTS
up to 16 digital inputs

OPTOCOUPLED OUTPUT
up to 12 digital outputs

ANALOG INPUTS
up to 2 isolated inputs

ANALOG OUTPUT
up to 2 isolated outputs

OPTOCOUPLED STO INPUTS
Safe Torque Off inputs

SAFETY PROTECTIONS
over/under-voltage, over current, overheating, short circuit between motor phase to phase and phase to ground

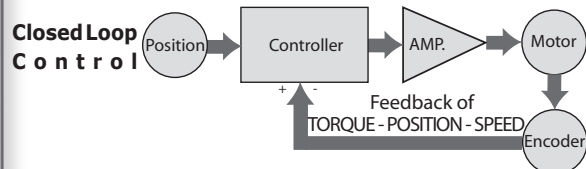
TEMPERATURES
working from 5°C to 50°C, storage from -25°C to 55°C

HUMIDITY
5% ÷ 85% not condensing

PROTECTION DEGREE
IP20

PROTECTION CLASS
Class I Equipment

Open-Loop / Closed-Loop



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

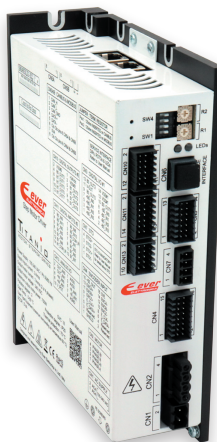
Programmable vectorial drivers for 2 phases stepper motors

TITANIO
VECTOR - STEPPER - DRIVES

UL US

STO
Safe Torque Off
SIL3
PLE

WARRANTY
3
YEARS



EtherCAT

Modbus TCP/IP

PROFINET

CANopen DS402

Modbus

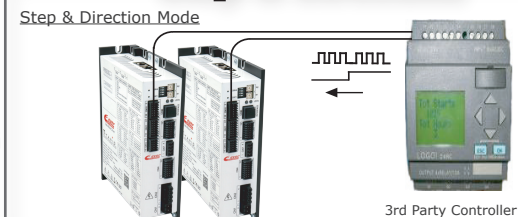
SW5A9030

- Powered from the main AC supply
- Vectorial control
- Absolute or incremental encoder inputs
- Safe Torque Off inputs (STO) SIL3/PLE
- Closed loop
- Serial Service for real time programming and debugging
- New e3PLC Programming Environment, easy and intuitive
- UL recognized certified

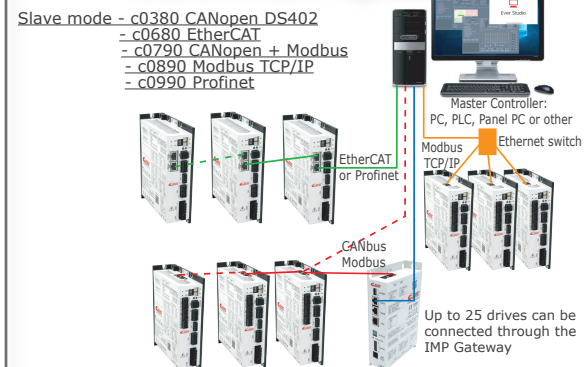
Ever
ELETRONICA
the clever drive

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Step & Direction



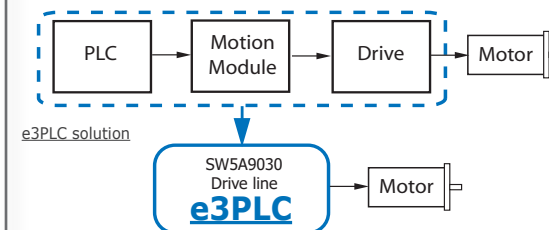
Multi Axes Systems



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

User Programmable - e3PLC- c0790 / c0690 / c0890 / c0990
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.

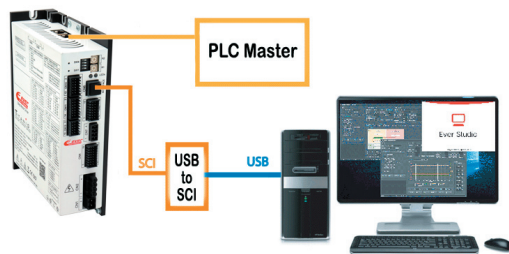


The e3PLC IDE allows the user to access all the I/O control functions and resources, provided by the drive, and to locally program its Motion Control Module, which can also be synchronized with other drives and events of the controlled process. Thanks to the advanced functionalities of the Power Motion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

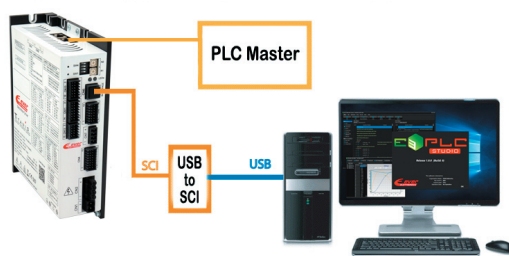
- Labelling
- Electronic cams
- Control Sequences of cable processing
- Many other user-customized processes ...

Configuration software

Fieldbus configuration (slave)



IDE e3PLC configuration (programmable)



Ever co. proprietary PC Software Tools for easy and quick configuration or programming, real time debug and supervision of each system

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

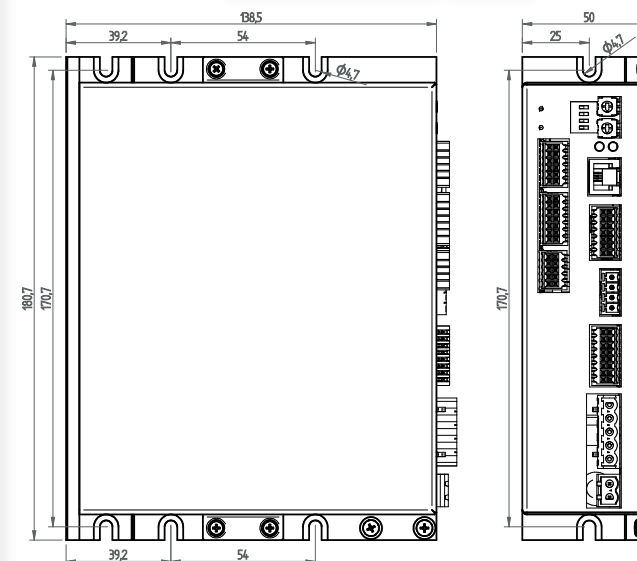
Electric shaft with encoder or analogue input with variable tracking ratio (Electric Gear)

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	
SW5A9030x2x1-20	180.7	50.0	138.5	800 g. approx

Ordering Information for SW5A9030 Drives

Ordering code		Power		System Resources												
Versions	Config.	Power Supply	Current	Digital Inputs	Digital Outputs	Analog Inputs	Analog Outputs	STO Inputs	Interface	SCI Interface	Control Mode					
SW5A9030 Drives Line																
SW5A9030L221-20	c0380	100 ÷ 240 Vac (monophase)	3.0 Arms (4.2 Apeak)	4	3	---	---	Safe Torque Off	CANbus Canopen + Serial Modbus	For configuration or programming and real time debug.	Fieldbus CANbus DS402					
	c0790										e3PLC CANbus + Modbus					
SW5A9030L2G1-20	c0380										16	12	2	2	Fieldbus CANbus DS402	
	c0790										e3PLC CANbus + Modbus					
SW5A9030E2G1-20	c0890										16	12	2	2	Ethernet (Modbus TCP/IP)	e3PLC CANbus + Modbus TCP/IP
SW5A9030H221-20	c0680										4	3	---	---	EtherCAT	Fieldbus EtherCAT
	c0690	e3PLC EtherCAT														
SW5A9030T221-20	c0990	4	3	---	---	Profinet	e3PLC CANbus + Profinet									

Configuration and Programming Kits

Kit code	Description
SW5_SERV00-SL	SCI service kit with cables, service serial to RS485 and RS485 to USB converters and Ever Studio configuration software.
SW5_SERV00-EE	SCI service kit with cables, service serial to RS485 and RS485 to USB converters and e3PLC programming software.