

Specifications

MODELS

Code	Power supply		Current
	Power	Logic	
SW5A4085	18 ÷ 100 Vca single phase or 3 phases	18 ÷ 100 Vac (mandatory)	8.50 Arms (12.00 Apeak)

EMULATED STEP RESOLUTION

Stepless Control Technology (65536 position per turn)

COMMUNICATION INTERFACES

EtherCAT, Modbus TCP/IP, CANopen e Modbus

ENCODER INTERFACES

incremental encoder input 5V differential RS422 or single-ended TTL/CMOS (not 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 analog inputs

ANALOG OUTPUT

up to 2 analog outputs

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 40°C, storage from -25°C to 55°C

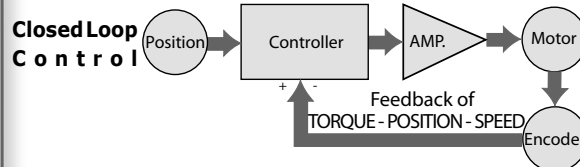
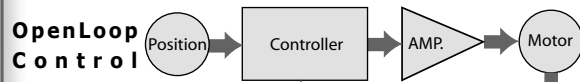
HUMIDITY

5% ÷ 85% not condensing

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



EtherCAT

Modbus TCP/IP

CANopen DS402

Modbus



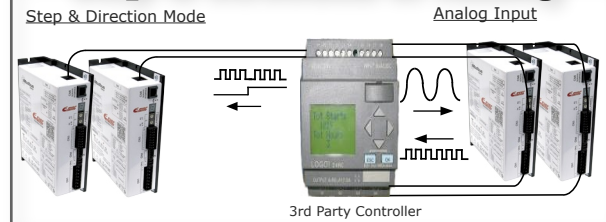
SW5A4085 Titanio drivers

- Vectorial control
- Several fieldbus
- Serial service for real time programming and debugging
- New e3PLC Programming Environment, easy and intuitive

Ever
ELETRONICA
the clever drive

ELETRONICA PER AUTOMAZIONE INDUSTRIALE
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Tel. +39 0371 412318 - Fax +39 0371 412367
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Step & Direction or Analog

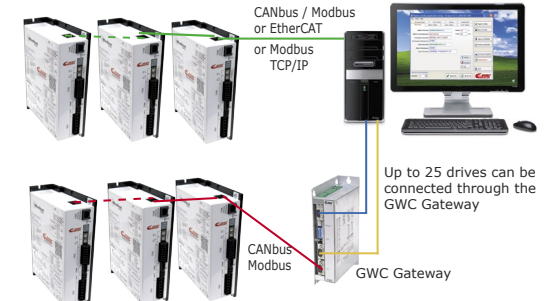


Multi Axes Systems

Slave Mode - c0380 CANopen DS402

- c0490 Modbus RTU
- c0680 EtherCAT CoE
- c0890 Modbus TCP/IP

Controller Master:
PC, PLC, Panel PC o altro

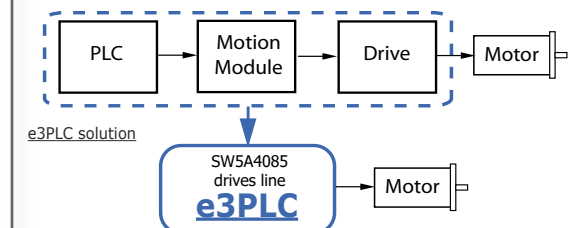


Drive control through commands by Master Controller. Suitable for multi axes systems (up to 127 drives). Built in powerful Motion Module functionality assures perfect synchronization among axes and reduces Master Controller workload.

Stand Alone Mode

User Programmable - e3PLC- c0390 / c0490 / c0690 / c0890

FIELD BUS 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:

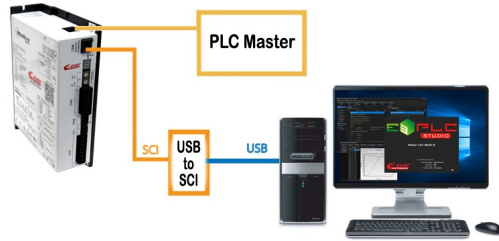
- Labelling
- Electronic cams
- Control Sequences of cable processing
- Many other user-customized processes ...

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

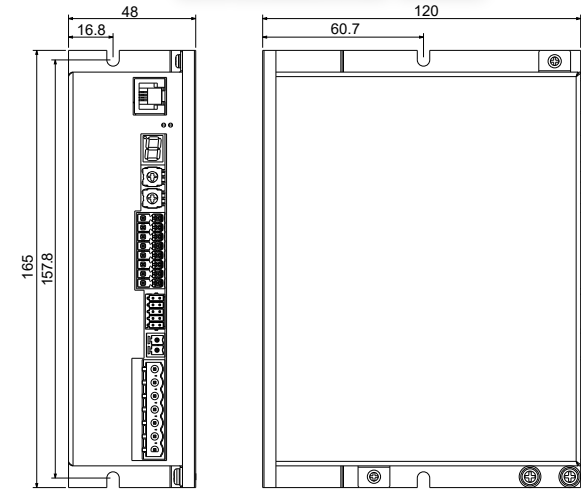
Electric shaft with encoder or analogue input with variable tracking ratio (Electric Gear)

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	
SW5A4085xxxx-x0	165.0	120.0	48.0	390

Ordering Information for SW5A4085 Drives

Ordering code		Power			System Resources													
Versions	Config.	Power Supply	Logic Power Supply	Current	Digital Inputs	Digital Outputs	Analog Inputs	Analog Outputs	Interface	SCI Interface	Control Mode							
SW5A4085 Drives Line																		
SW5A4085C2N1-00	c0380 c0390	18 ÷ 100 Vac	18 ÷ 100 Vac (optional)	0.0 ÷ 8.5 Arms (12 Apeak)	6	4	2	0	CANbus Canopen	For programming and real time debug	Fieldbus CANbus DS402							
SW5A4085C2G1-00	c0380 c0390				16	12	2	2			e3PLC CANbus							
	SW5A4085M2N1-00				c0490	6	4	2			0	Modbus	e3PLC Modbus RTU					
SW5A4085M2G1-00					c0490	16	12	2			2		e3PLC Modbus RTU					
SW5A4085E241-00	c0890				4	2	0	0	0		Ethernet Modbus TCP/IP	e3PLC Modbus TCP/IP						
SW5A4085E2J1-00	c0890											12	10	0	0	e3PLC Modbus TCP/IP		
SW5A4085H241-00	c0680											4	2	0	0	0	EtherCAT CoE	Fieldbus EtherCAT CoE
	c0690																	e3PLC EtherCAT CoE

Configuration and Programming Kits

Kit code	Description
SW5_SERV00-SL	SCI configuration communication kit with cables, service serial to RS485 and RS485 to USB converters and CD-Rom.
SW5_SERV00-EE	SCI service e3PLC programming with cables, service serial to RS485 and RS485 to USB converters and CD-Rom.