- (Siemens V4.6 PN Stack inside)
- GSDML v2.35 file
- supporto RT (Real Time) protocol for Profinet IO, for applications with
- supporto IRT (Isochronous Real Time) protocol for Profinet IO, for 64 bytes bytes O IRT
- 64 bytes (Input) and 64 bytes (Output) to transfer IO data between the IO controller and the IO devices
- 8 bytes (I/O) are used to R/W drive objects according to CANOpen SDO service.
- Digital IO (24Vdc) and analog inputs of the drive are available as distributed I/O points over Profinet.



# -Multi-Axee Systems

Slave Mode - c0990 Profinet

Profinet is used for data exchange between master controllers (PLC) and devices in the application and uses the proven communication model of Profibus DP extended with Ethernet as communication medium.

- Developed with the Enhanced Real-Time Ethernet Controller 200P
- IRT switch for dual Ethernet ports
- Drives can be controlled over Profinet as an IO device
- up to 10 ms cycle time: module 64 bytes I, 64 bytes O
- applications with less than 1 ms cycle time; module 64 bytes I IRT.
- · 16 bytes (I/O) are fixed mapped
- 40 bytes (I/O) may be variably mapped to desidered functions using e3PLC

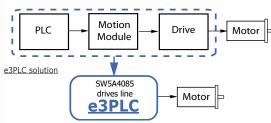
Drives control through commnd by master controller.

# aboMenol/longt2

User Programmabile - e3PLC- 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 ...

## മനിിക്കിിക്കൾ

#### MODELS

#### Power supply Code Current Power Logic 18 ÷ 100 Vac 18 ÷ 100 Vac single phase (optional and not isolated) 8.50 Arms SW5A4085 single phase (12.00 Apeak) or 3 phases

#### **EMULATED STEP RESOLUTION**

Stepless Control Technology (65536 position per turn)

#### **COMMUNICATION INTERFACES**

Profinet (dual ethernet ports with an IRT switch)

#### **ENCODER INTERFACES**

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

#### **SCI INTERFACE**

SCI service interface for programming and real time debug

#### **OPTOCOUPLED INPUTS**

6 digital inputs

#### **OPTOCOUPLED OUTPUT**

4 digital outputs

#### **ANALOG INPUTS**

2 analog inputs

### **SAFETY PROTECTIONS**

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

working from 5°C to 40°C, storage from -25°C to 55°C

#### HUMIDITY

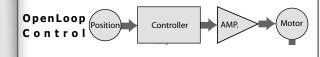
5% ÷ 85% not condensing

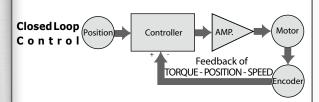
## **PROTECTION DEGREE**

### **STANDARD**

Category C3 following standard EN 61800-3

# Open-loop-//Closed-Loop





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

stations on the network

Vectorial control

#### **EVER Motion Solutions srl**

Programmable vectorial drivers for 2 phases stepper motors

III TANIO

SW5A4085

• Fieldbus Profinet for a greater bandwidth and for more

Serial service for real time programming and debugging

• New e3PLC Programming Environment, easy and intuitive

Closed loop of torque, speed and position

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

# Configuration software

Fieldbus configuration or

IDE e3PLC configuration (programmable)

**PLC Master** 

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

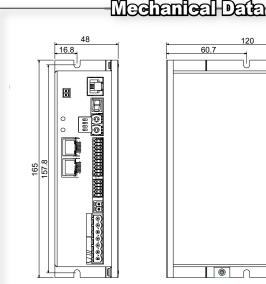
**Electronic CAM** with advanced programming of internal profiles inside the drive

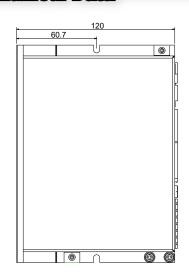
**Electric shaft** with encoder or analogue input with variable tracking ratio (Electric Gear)

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





Models	Dim H	nensions (m L	nm)   W	Weight (g.)
SW5A4085T2N1-00	165.0	120.0	48.0	390

# Ordering Information for SWEAA035 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											
SW5A4085T2N1-00 c0990	00 18 ÷ 100 Vac (article)	0.0 ÷ 8.5 Arms	6	4	2	0	Profinet	For programming	Fieldbus Profinet		
	0990	10 + 100 vac	(optional) (12 Apeak)	6	4	2		Profillet	and real time debug	e3PLC Profinet	

Configuration and Programming Kits						
Kit code	Description					
SW5_SERV00-SL	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.					