Specifications

ı	MODELS	_			
I	Code	Powers	Current		
ı	Code	Power	Logic	Current	
	SW5A5080	85 ÷ 120 Vac single phase or 3 phases	24 Vdc (mandatory)	8.00 Arms (11.3 Apk)	

EMULATED STEP RESOLUTION

Stepless Control Technology (65536 position per turn)

COMMUNICATION INTERFACES

EtherCAT, Modbus TCP/IP, CANopen, Modbus

ENCODER INTERFACES

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

SCI INTERFACE

SCI service interface for programming and real time debug

OPTOCOUPLED INPUTS

4 or 16 digital inputs

OPTOCOUPLED OUTPUT

3 or 12 digital outputs

ANALOG INPUTS

up to 2 analog inputs

ANALOG OUTPUT

up to 2 analog 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

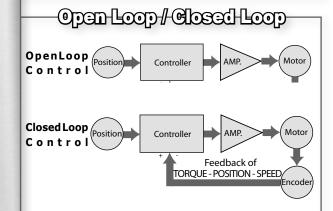
TEMPERATURES

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

HUMIDIT

5% ÷ 85% not condensing

PROTECTION CLASS



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

Programmable vectorial drivers for 2 phases stepper motors











SW5A5080

- Can be powered from the main AC supply (120 Vac)
- Vectorial control
- Safe Torque Off inputs
- Several fieldbus
- Serial Service for real time programming and debugging
- New e3PLC Programming Environment, easy and intuitive

ELETTRONICA the clever drive

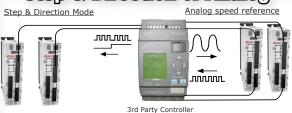
ELETTRONICA PER AUTOMAZIONE INDUSTRIALE

Via del Commercio, 2/4 - 9/11 Loc. S. Grato - Z.I.

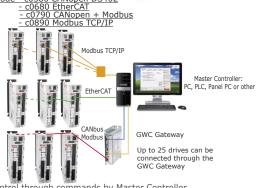
26900 - LODI (LO) - Italy

Tel. +39 0371 412318 - Fax +39 0371 412367 email infoever@everelettronica.it

www.everelettronica.it







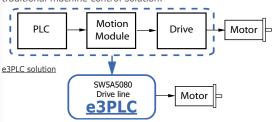
Drive control through commands by Master Controller.
Suitable for multi axes systems (up to 127 drives).
Built in powerfull Motion Module functionality assures perfect
synchronization among axes and reduces Master Controller workload

-Stand-Alone-Mode

User Programmable - e3PLC- c0690 / c0790 / c0890

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



IDE e3PLC configuration (programmable)

 \mathfrak{D}



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

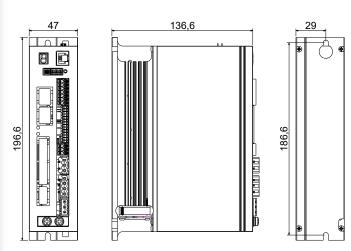
Electric shaft with encoder or analogue input with variable tracking ratio (Electric Gear)

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 multiaxis systems, even without fieldbus

Enabling and on-the-fly changing of the motion control modes $% \left(1\right) =\left(1\right) \left(1\right)$

-Mechanical Data



ı	Models	Dim	Weight (g.)		
	Models	H	L	W	weight (g.)
	SW5A5080xxxx-30	196.6	136.6	47.0	550

extra 0002A2WE rot notion for SWEA5000 Drives

Ordering	l	Power			System Resources							
Versions		Power Supply	Logic Power Supply	Current	Digital Inputs	Digital Outputs	Analog Inputs	Analog Outputs	STO Inputs	Interface	SCI Interface	Control Mode
SW5A5080 Drives Line												
SW5A5080N221-30	c0790-S0200 c0790-S0301			24 Vdc (0÷8.0 Arms (0÷11.3 Apeak)	4	3	0	0	YES] [Clock & Direction Indexer
SW5A5080N2E1-30	c0790-S0302	⊣ :	120 Vac		4	3	1	0	YES			Analog input
SW5A5080L221-30	c0380				4	4 3 1 0 YES		-	e3PLC CANopen + Modbus			
	1	ļ								CANbus		e3PLC CANbus + Modbus
SW5A5080L2E1-30	c0380				4		1 0	VEC	Canopen +		Fieldbus CANbus DS402	
3W3A3000L2L1-30	c0790	85 ÷ 120 Vac								Serial Modbus	programming and real time debug	e3PLC CANbus + Modbus
SW5A5080L2G1-30	c0380	(mandator			16	12	2	2				Fieldbus CANbus DS402
3W3//30002201 30	c0790											e3PLC CANbus + Modbus
SW5A5080E221-30 cC	c0890				4	3	0	0	YES	Ethernet Modbus TCP/IP		e3PLC Modbus TCP/IP
	c0890				16	12	2	2	YES			e3PLC Modbus TCP/IP
SW5A5080H221-30	c0680				4	3	0	0	YES	EtherCAT (CoE)		Fieldbus EtherCAT
3W3A3U8URZZ1-3U	c0690				4	3	U					e3PLC EtherCAT

	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.				