Specifications

MODELS

Code	Holding Torque	Code	Holding Torque		
SM4D260P_ 5A	0.5 Nm min.	SM4D260P_ 2A	T.B.D.		
SM4D260P_ 5B	1.20 Nm min.	SM4D260P_ 2B	T.B.D.		
SM4D260P_ 5C	T.B.D.	SM4D260P_ 2C	T.B.D.		
SM4D260P_ 5D	2.00 Nm min.	SM4D260P_2D	3.00 Nm min.		
SM4D260P_ 5E	T.B.D.	SM4D260P_ 2E	T.B.D.		

POWER SUPPLY

12÷48 VDc for power and 24 VDc for logic (mandatory and not isolated)

POWER STAGE 40 kHz bipolar chopper ultrasonic frequency

CURRENT up to 6.0 Arms (8.5 Apk)

CONTROL INTERFACES EtherCAT, Modbus TCP/IP, Profinet, Modbus RTU or CANbus

SCI SERIAL SERVICE INTERFACE SCI for configuration or programming and debug in real time

INPUTS AND OUTPUTS 4 digital not isolated inputs / 2 digiral not isolated outputs and 1 analog not isolated input

INTEGRATED FEEDBACK (OPTIONAL) incremental encoder or incremental and absolute single turn encoder or absolute multiturn BiSS-C encoder

STEP RESOLUTION stepless control technology (65536 positions per turn)

SAFETY PROTECTIONS

(f

Over/Under-voltage, Over Current, Over Temperature, Open Windings, Closed Windings Phase/Phase Phase/Ground

TEMPERATURES working: 5°C ÷ 40°C; storage -25°C ÷ 55°C

PROTECTION CLASS

HUMIDITY 5% ÷ 85% not condensing



Full Digital Programmable drives with fieldbus and integrating stepper motor for Advanced Motion Control with reduced costs



Step & Direction or Amelor າທາການ Uscita Pass пппппп Controllore di altri costruttor Multi-Avres Systems Master Controller: CANopen Slave mode - c0380 PC, PLC or other Modbus RTU Slave mode - c0490 Modbus TCP/IP Slave mode - c0890 EtherCAT Slave mode - c0680 Profinet Slave mode - c0981 CANoper EtherCA Profinet EtherCAT Ethernet TCP/IP IMP Gateway Up to 25 controllable drives thanks to the IMP Gateway unit Drive control through commands by Master Controller. Suitable for multi axes systems (up to 25 drives). Built in Powerfull Motion Module functionality assures Perfect Synchronization between axes and reduces Master Controller workload STELL 1010-575 0) User Programmable - e3PLC-FIELDBUS DRIVES WITH AUTONOMOUS FUNCTIONING that, by integrating advanced PLC and motion controller functions in one single device, programmable by the user B with the IDE for Windows PC and e3PLC, allows to reduce the traditional machine control solution. Traditional solution

Integrated Servomotors

 $\sqrt{Vectorial control}$

 $\sqrt{\text{Several fieldbus}}$

 $\sqrt{1}$ Integrated incremental and absolute single turn encoder

or incremental encoder or absolute multiturn encoder for

- a closed loop control
- \checkmark Protection class IP65

 \checkmark New e3PLC Programming Environment, easy and intuitive



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



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 ...



Ordering-Information-for-SMAD-servomotors and options

Ordering code		Power			System Resources						
Versions	Config.	Connectors with cable (1 mt) kit	Power Power	supply Logic	Current	Integrated motor data (kz = 5A / 5B / 5D / 2D)	Interface	Digitals Inputs	Digitals Outputs	Analog Input	Encoder for Closed Loop ($w = N / 7 / M / B$)
SM4D260PC27kzw0	c0380 c0390	SM4D2KIT-100	12 ÷ 48 Vdc (N	24 Vdc (Mandatory and not isolated)	up to 6.0 Arms (8.5 Apeak)	 5A=Holding Torque 0.50 Nm min. Phase resistance 0.25 ohm ±0.1 Phase inductance 0.65 mH ±20% Rotor inertia 170 g.cm² 5B=Holding Torque 1,20 Nm min. Phase resistance 0.40 ohm ±0.1 Phase inductance 1.20 mH ±20% Rotor inertia 280 g.cm² 5D=Holding Torque 2,00 Nm min. Phase resistance 0.50 ohm ±0.1 Phase inductance 1.80 mH ±20% Rotor inertia 520 g.cm² 2D=Holding Torque 3,00 Nm min. Phase resistance 0.64 ohm ±0.15 Phase inductance 3.00 mH ±20% Rotor inertia 920 g.cm² 	CANbus (Canopen DS402)	4 2			N = No encoder
SM4D260PM27kzw0	c0490	SM4D2KIT-100					RS485 (Modbus-RTU)				7 = Incremental encoder
SM4D260PH27kzw0	c0680 c0690	SM4D2KIT-H1M					EtherCAT (CoE)		2	1	M = Incemental encoder + absolute single turn
SM4D260PE27kzw0	c0890	SM4D2KIT-E1M					Ethernet (Modbus TCP/IP)				B = Multiturn_absolute
SM4D260PT27kzw0	c0981 c0990	SM4D2KIT-H1M					Profinet				encoder BISS-C
Software kit											
Config											
c0380 CANbus	(Canopen I	CONCION S402) fieldbus mode				SULWAIE KIL UBSCHIPLION SULWAIE KIL SULWAIE KIL UBSCHIPLION SULWAIE KILUBE SULVEN SULVAIE SULVAIE KILUBE SULVEN SULVAIE KILUBE SULVAIE SULVAIE SULVEN SULVAIE SU					
c0390 e3PLC S	Studio with	CANbus	SM4D_SERV00-SE			SCI service kit with cables, service serial to RS485 and RS485 to USB converters and e3PLC programming software.					
c0490 e3PLC 5	c0490 e3PLC Studio with RS485 (Modbus-RTU) SM4D_SERV00-EE SCI se			CI service kit with cables, service serial to RS485 and RS485 to USB converters and e3PLC programming software.							
c0680 EtherCA	c0680 EtherCAT (CoE) fieldbus mode SM4D_SERV00-SL S			SCI service kit with cables, service serial to RS485 and RS485 to USB converters and Ever Studio configuration software.							
c0690 e3PLC Studio with EtherCAT SM4D_SERV00-EE			SCI service kit with cables, service serial to RS485 and RS485 to USB converters and e3PLC programming software.								
c0890 e3PLC Studio with Ethernet (Modbus TCP/IP)			P)	SM4D_SERV00-EE		SCI service kit with cables, service serial to RS485 and RS485 to USB converters and e3PLC programming software.					

SM4D SERV00-E

e3PLC Studio with Profine

SCI service kit with cables, service serial to RS485 and RS485 to USB converters and Ever Studio configuration software.

SCI service kit with cables, service serial to RS485 and RS485 to USB converters and e3PLC programming software