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MODELS

Code	Interface					
SB4D2030C2E1-3x	CANbus - CANopen					
SB4D2030M2E1-3x	Serial - Modbus					

POWER SUPPLY

Separated 24 Vpc for logic (mandatory) and 12÷36 Vpc for power

POWER STAGE H-bridge bipolar chopper of 40 KHz

CURRENT 0 ÷ 3.0 Arms (0 ÷ 4.2 Apeak)

STEPLESS CONTROL TECHNOLOGY 65536 position per turn

CONTROL INTERFACES Serial RS485 or CANbus and SCI interface for programming and real time debugging (not isolated)

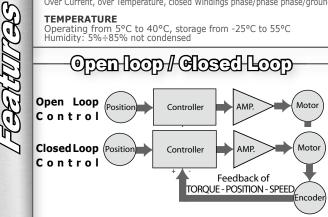
INPUTS / OUTPUTS 4 digital inputs (not isolated) 3 digital outputs (not isolated) 1 analog input (potentiometer)

DIRECT FEEDBACK INTERFACE 5V TTL/CMOS or 24Vpc push-pull for incremental encoder (not isolated)

SAFETY PROTECTIONS Over Current, over Temperature, closed Windings phase/phase phase/ground

TEMPERATURE

Operating from 5°C to 40°C, storage from -25°C to 55°C Humidity: 5% +85% not condensed



- with regard to an Open Loop Stepper Solution: - reliable positioning without synchronism loss;
- keeps the original position stable and recovers it automatically in case of positioning errors caused by external factors such as mechanical vibrations:
- 100% use of the motor torque;
- capacity to operate at high velocity related to the current control, which is adjusted depending on the load variations, where the normal systems in open loop use a constant current control at all velocities without considering the load variations.
- compared with a brushless servo controlled solution: - no need to adjust the power (automatic current regulation depending on the load changes);
 - keeping the position stable without fluctuations after completing the positioning;
 - guick positioning favoured by the independent control of the integrated DSP;
 - continuous and fast execution of short stroke movements thanks to the short positioning time.

Full Digital Programmable Endbleft fight evita

for Advanced Moffon Control with reduced costs



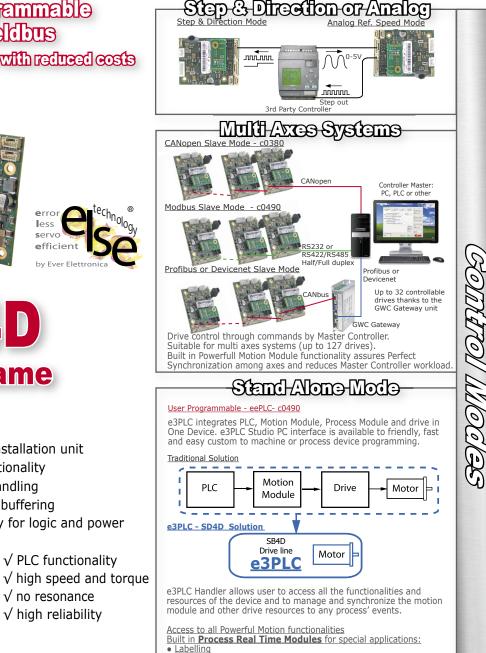


- Multiform Control Modes
- On Board Safety provisions:
 - $\sqrt{1}$ fully tested for direct installation unit
 - $\sqrt{}$ built in watch dog functionality
 - \sqrt{fault} monitoring and handling
 - $\sqrt{}$ on field working errors buffering
 - $\sqrt{}$ separated power supply for logic and power
- Servomotors main features:
- $\sqrt{}$ Stepless control technology $\sqrt{}$ PLC functionality
- $\sqrt{1000}$ low motor vibration
- $\sqrt{\text{closed loop}}$

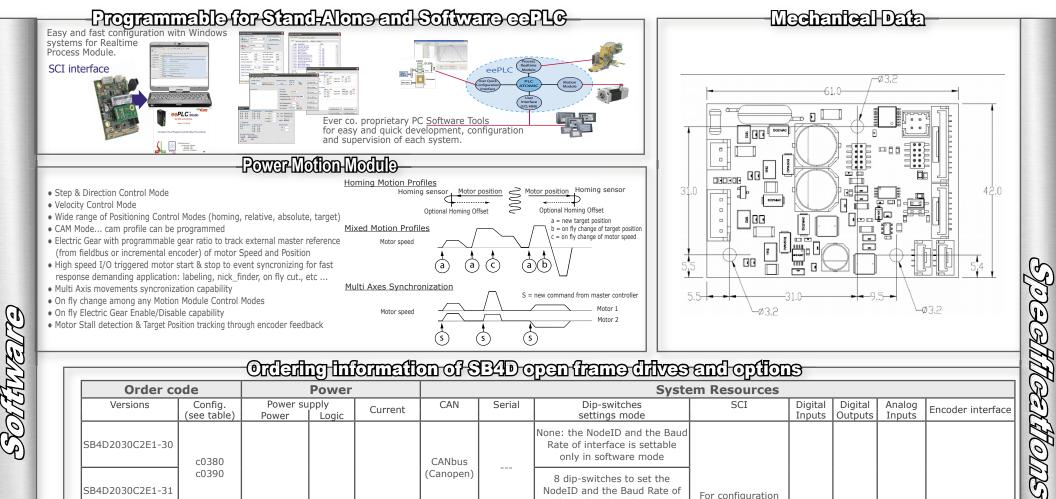
e-motion solutions

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√ high reliability



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Urder code		Power			System Resources								
Versions	Config. (see table)	Power su Power	ipply Logic	Current	CAN	Serial	Dip-switches settings mode	SCI	Digital Inputs	Digital Outputs	Analog Inputs	Encoder interface	
SB4D2030C2E	1-30 c0380	- 12 ÷ 36 Vdc 24		0 ÷ 3,0 Arms (0 ÷ 4,2 Ареак)	CANbus (Canopen)		None: the NodeID and the Baud Rate of interface is settable only in software mode	For configuration and/or programming and real time debug	4	3	1	1 5V TTL/CMOS o 24 Vcc Push-Pull	
SB4D2030C2E	c0390 1-31						8 dip-switches to set the NodeID and the Baud Rate of interface also in hardware mode						
SB4D2030M2E	c0490					RS485 (Modbus)	None: the NodeID and the Baud Rate of interface is settable only in software mode						
SB4D2030M2E							8 dip-switches to set the NodeID and the Baud Rate of interface also in hardware mode						
			Con	figuration	, Control	Method a	and Optional Software	Starter Kits					
Config.		Control			Software Starter Kits Code			Description of the Software Starter Kits					
c0380 Ca	Canopen Control Mode (CiA DS402 profile)					SW4_SERV00-SL Communication kit for SCI service interface to configure the drive with Ever Stu			[.] Studio.				

Communication kit for SCI service interface to program the drive with e3PLC Studio IDE.

Communication kit for SCI service interface to program the drive with e3PLC Studio IDE.

SW4 SERV00-EE

SW4 SERV00-EE

c0390

c0490

Stand-Alone e3PLC Studio IDE Canopen Mode

Stand Alone e3PLC Studio IDE Modbus RTU Mode

Release 12.0.0