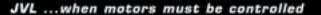# Step Motor Controllers SMC3OB and SMC3OC

Controllers SMC30B and SMC30C are programmable step motor controllers with a high (150V) motor voltage for use where excellent performance even at high speeds is required. The two Controllers provide adjustable setting of motor currents of 0-6A and 0-12A respectively. They both offer 8Kb memory and a RS485 module interface. They are delivered in a HF cabinet with built-in 230V AC mains power supply.

The built-in RS485 module interface allows connection of expansion modules such as: Keyboard/Display Module KDM10, Input/Output Module IOM11, Multi Counter Module CMO10 and Display Modules DIS10, 11 and 12.
This gives the possibility for building complete control

systems which in many cases can replace a PLC.

The Controllers have 3 digital inputs and 3 digital outputs as well as 6 analogue/digital inputs. This gives a very flexible adaption for most controller applications.

• Simple programming with JVL´s windovs-based "MotoWare" software

• RS232 Interface with RS232C/V24 communication

• Up to 7 Controllers can be connected to the same interface bus
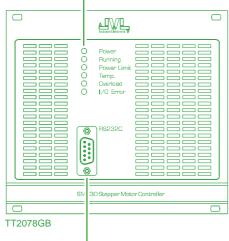
• Baud rate 110 - 9600

• Max. operating frequency 15kHz

• Driver stages of 6 and 12A/150 Volt

• 3 Digital User Inputs

• 3 Digital User Outputs

• 6 Analogue/digital Inputs

• Stop- and end-of-travel inputs stop motor operation instantaneously

• 200, 400, steps per revolution (full- or half-step operation)

• All in/outputs optically iso lated

• Protected against voltage overload and motor output short circuit

• Mounting either in 19" rack or on a surface via T-flanges

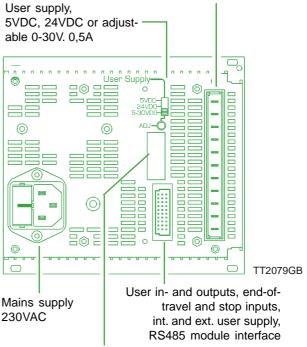# Step Motor Controllers SMC3OB and SMC3OC

Front Panel Indicators

- "Power" Indicator
- Indication of running or standby
- Indication of power
- Indication of temperature
- Indication of short circuit in motor connection
- Indication of short circuit on user output

TT2078GB

RS232C/V24 serial communication. Via this connector the Controller can be connected to a computer or terminal. Here programs are read into the Controller´s memory.

Rear Panel Connections

Motor connections and possibility for connection of external 150VDC

User supply, 5VDC, 24VDC or adjustable 0-30V. 0,5A

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Mains supply 230VAC

Dip-switch for setting address, communication speed, etc.

User in- and outputs, end-of-travel and stop inputs, int. and ext. user supply, RS485 module interface

Specifications

Type	Phase current (A)		Driver Voltage typ. (VDC)	Supply Voltage (VAC)		Program (Kb)	Registers	Module interface
	Min.	Max.		Min.	Max.		Number*	
SMC3OB	0	6	150	207	242	8	510	RS485
SMC3OC	0	12	150	207	242	8	510	RS485

Both have an output with adjustable output voltage, 0 - 30 VDC/500mA

Dimensions: (HxWxD) 111.4x141.5x171. * Each register can store a number from 0 to 65535

General

Digital inputs	Min.	Max.	Units
Allowable voltage (Stop, IN1,2 and 3)	0	30	VDC
End-of-travel inputs	0	30	VDC
Module Interface			
Communication length	0	100	m
Communication rate	-	50	kbit/sec.
Analogue Inputs			
Allowable voltage	0	5.1	VDC
Resolution	-	8	bit
Logic "0"		2.5	VDC
Logic "1"	2.6		VDC
Chopper frequency	-	22	kHz
Ambient temperature	0	40	℃

Accessories

Software	MotoWare
Con. Board w. Phoenix plug	CON30
RS232 Interface cable	RS232-9-1
Power Supp. 150V/200W	PSU40-2
Base plate	Base1
Mains cable	NETKABEL1

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