

## Step Motor Controller SMC20



Step Motor Controller type SMC20 is a low-cost controller for step motors.

SMC20 has ½Kb of memory and can either be used as a stationary unit or connected to a terminal or a personal computer via an RS232C/V24 interface. Programming is very simple using JVL's programming software, MotoWare.

The Controller includes a built-in driver which can supply up to 2.5 Amp. per motor phase. It has 3 digital inputs and 3 digital outputs as well as 6 analogue inputs. This gives the user the possibility for very flexible adaptation to applications such as control of smaller milling/drilling systems, handling machinery etc., where fast and precise movements are required, and the solution must not take

up too much space or be too costly.

The motor driver is short-circuit protected. Motor current is disconnected in the event of a short-circuit.

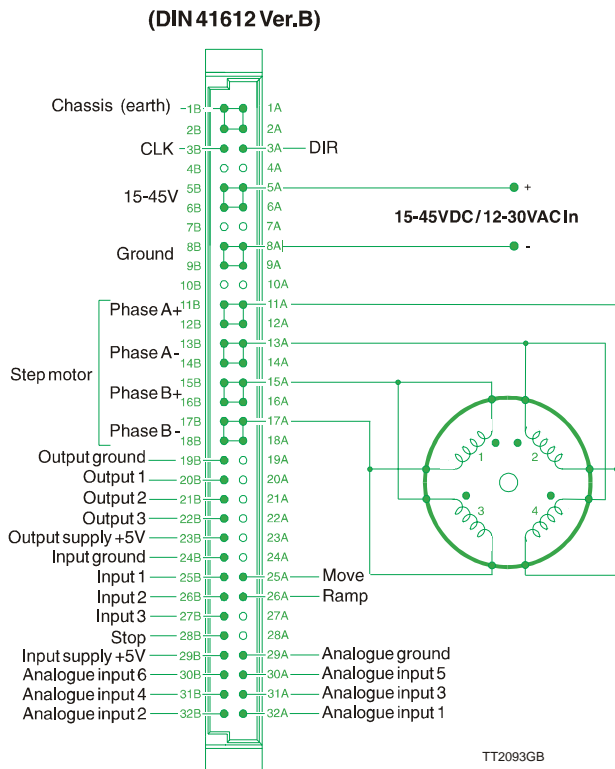
- Power supply 15-45VDC
- RS232C/V24 communication.
- Simple programming.
- Max. operating frequency 15kHz.
- RS232 interface bus.
- Connection of up to 7 controllers on the same RS232 interface bus
- Baud rate of 110 - 9600.

• Small physical dimensions: h34 x w100 x l160 mm

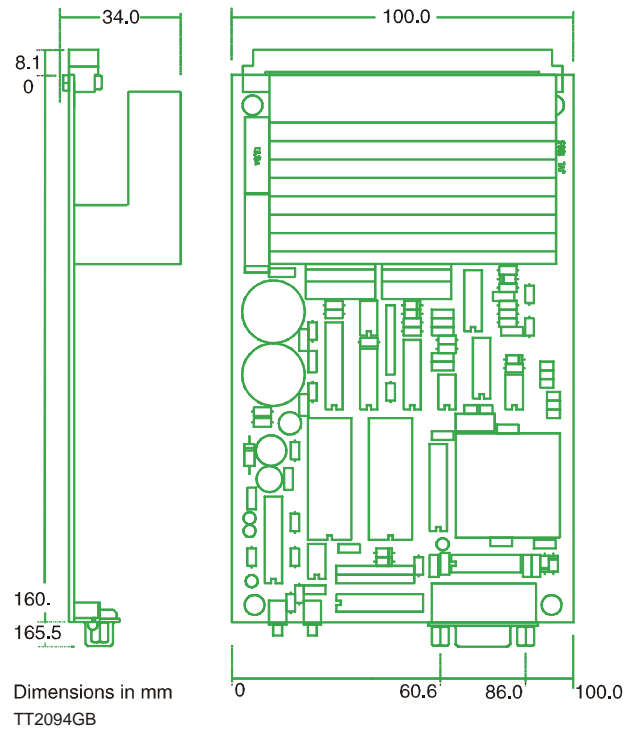
- Thermal protection.
- 3 User inputs.
- 6 Analogue inputs.
- 1 Stop input.
- 3 User outputs.
- Connection via DIN41612 connector

# Step Motor Controller SMC20

## Connector Pin Designations



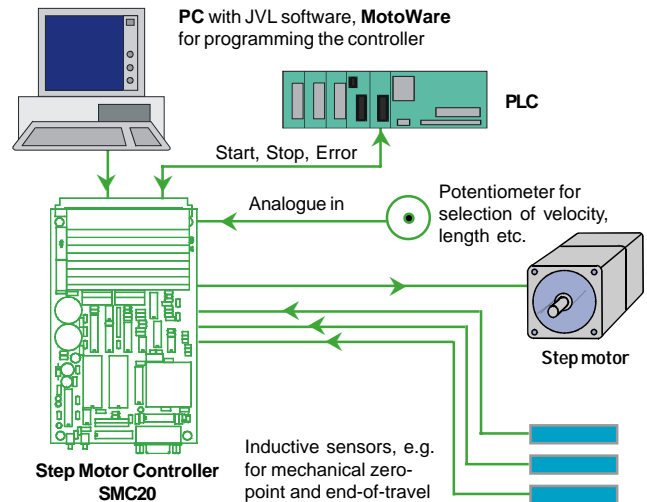
## Physical Dimensions



## Specifications

Description	Min.	Typ.	Max.	Units
<b>Power Supply</b>				
Supply Voltage. (DC):	15		45	VDC
Supply Voltage. (AC):	12		30	VAC
<b>Motor Driver</b>				
Output current/phase	0.2		2.5	ADC
Output voltage	15		45	VDC
Chopper frequency		22		kHz
<b>Interface</b>				
Communication speed.	110		9600	Baud
<b>User Inputs + Stop Input</b>				
Logic "0"	<1.35			VDC
Logic "1"			>3.5	VDC
<b>Analogue Inputs</b>				
Resolution			8	Bit
Input voltage nom.	0.00		5.1	VDC
Offset Error		±½	±1	LSB
Input impedance		10		kOhm
<b>User Outputs</b>				
Logic "0"			0.8	VDC
Logic "1"		3.85		VDC
Current per output			10	mA
<b>General</b>				
Ambient temperature	0		50	°C
Weight	325	gram	s	

## System Configuration



## Accessories

Programming Software	Motoware
Connector Board w. Phoenix plug	CON10P
RS232 Interface cable	RS232-9-1
Power Supply 40V/200W	PSU40-2



JVL Industri Elektronik A/S  
 Blokken 42  
 DK-3460 Birkerød, Denmark  
 Tel: +45 4582 4440  
 Fax: +45 4582 5550  
 E-mail: jvl@jvl.dk www.jvl.dk