

# Connections

## Connector Board for SMC30B/C

### Type "CON30"

**Earth :**

⊥ Connection to the copper area on the PCB

**RS232C Interface:**

IG Interface ground  
 RX Receive input  
 TX Transmit output

**Module interface:**

A Terminal A  
 B Terminal B

**User supply:**

U+ + Supply out, 5 to 30V  
 U- Supply ground

**Analogue Inputs:**

AG Analogue input ground  
 A1 Analogue Input 1  
 A2 Analogue Input 2  
 A3 Analogue Input 3  
 A4 Analogue Input 4  
 A5 Analogue Input 5  
 A6 Analogue Input 6

**User Inputs:**

I+ Input Supply +5-30VDC  
 CCW Lower end-of-travel input  
 CW Upper end-of-travel input  
 ST Stop input  
 I3 User input 3  
 I2 User input 2  
 I1 User input 1  
 EB Reserved for future use  
 EA Reserved for future use  
 I- User input ground

**User Outputs:**

O- Output supply ground  
 O1 User output 1  
 O2 User output 2  
 O3 User output 3  
 CK Step-pulse output  
 O+ Output supply +5-30VDC

**Motor Output:**

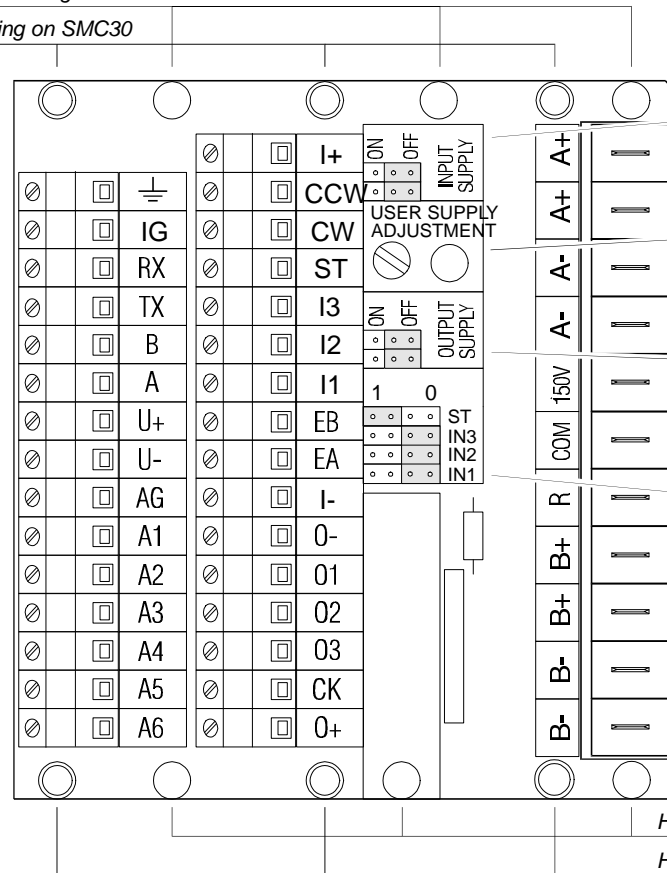
A+ Phase 1 + terminal  
 A- Phase 1 - terminal  
 B+ Phase 2 + terminal  
 B- Phase 2 - terminal  
 COM Ground - connected to motor cable shield

**External Power Supply:**

150V Connection from external power supply +150VDC  
 COM Ground

Holes for rack mounting

Holes for mounting on SMC30



**Selection of input supply:**

If both jumpers are set to the "ON" position, the Controller's own supply (U+/U-) is fed to the input terminals I+ and I-.

If both jumpers are set to the "OFF" position, the input terminals I+ and I- are not connected, and supply of the input circuitry must take place externally.

**Adjustment and indication of user supply:**

The intensity of the green LED indicates the voltage of the user supply. If the switch marked "User supply" on the rear of the SMC30 is set to the "5-30V" position, the user supply can be adjusted from 5 to 30VDC using the trimmer potentiometer

**Selection of output supply:**

If both jumpers are set the "ON" position, the Controller's own supply (U+/U-) is fed to the output terminals O+ and O-. If both jumpers are set to the "OFF" position, the output terminals O+ and O- are not connected, and supply of the output circuitry must take place externally.

**Selection of type of input :**

The four user inputs IN1, IN2, IN3 and ST each have a jumper. If a given input receives a signal from a PNP (Source) output, the jumper for that input must be set to the "0" position. If a given input receives a signal from a NPN (Sink) output, the jumper for that input must be set to the "1" position. Note that input "ST" (stop input) is activated if the input does not receive a logic "1" signal. If the input is not used the jumper must therefore be set to position "1".

**Diagram of Connector Board CON30**  
**JVL Industri Elektronik A/S 1994**

