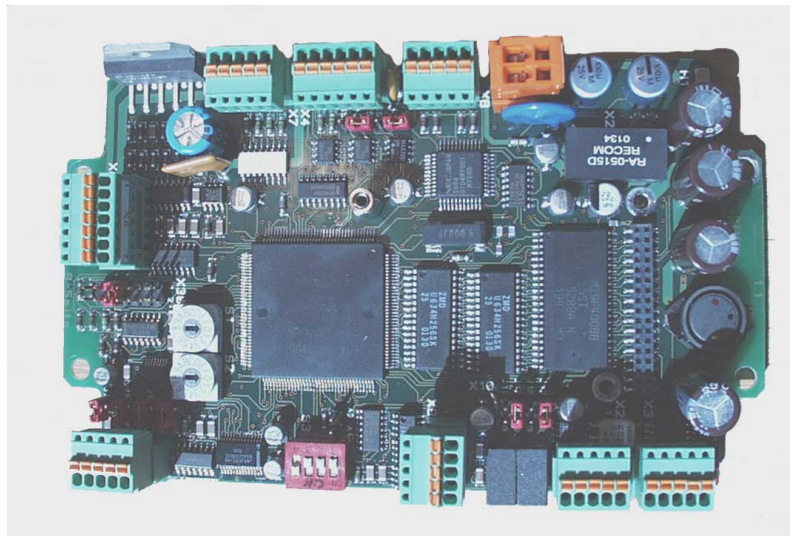


Digitaler Axis Controller Type HE 303

Application:

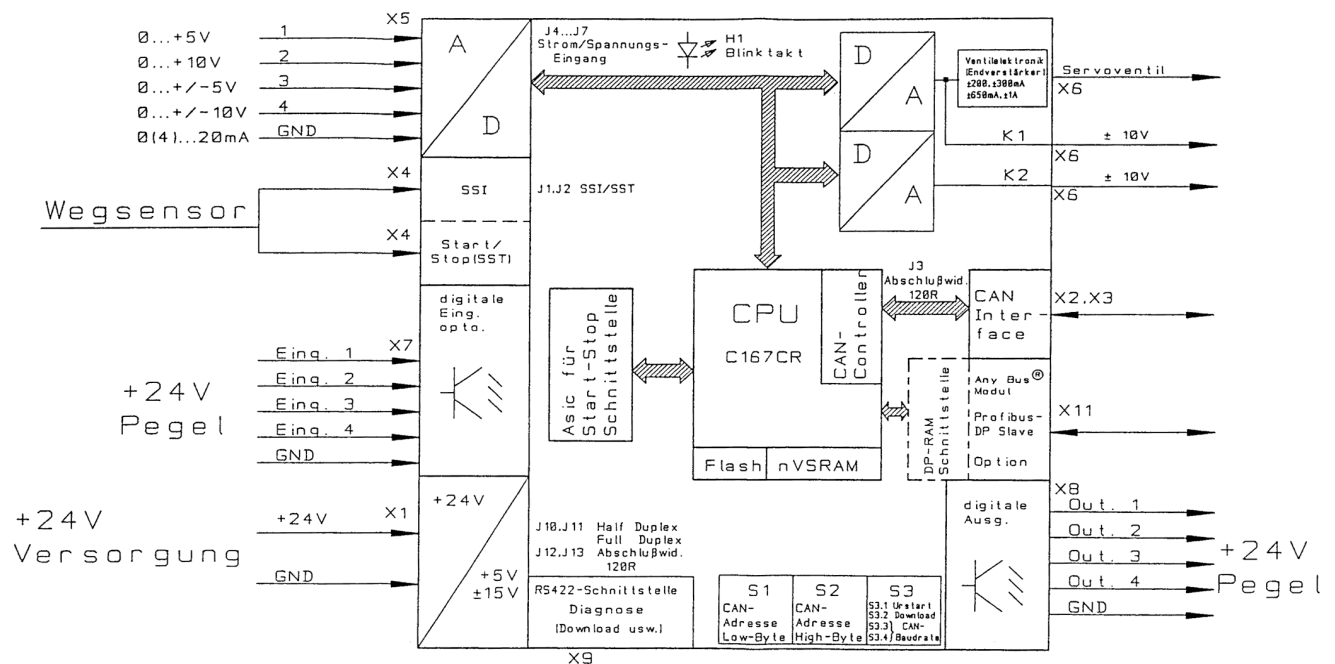
The digital axis controller HE303 is a μC -based regulator with analogous, digital, sensors and bus in and outputs. An analogous power current output has been suitable directly for the driving of Schneider servo valves. A digital sensor input is useable for SSI and start/Stop-interface position sensors. On standard the controller have a CAN-bus, optional one or more further bus-connection existing. With the HE303 one or two hydraulic axis could be regulated. With the Windows-program --HyperTerminal-- (integrated in each Windows system) the regulator parameter can be set. The regulator have special software for the most common hydraulic regulation systems on board. On inquiry the software could be adapted customer-specific. (for example special reference curve, switching point or to drive external devices)



Structure:

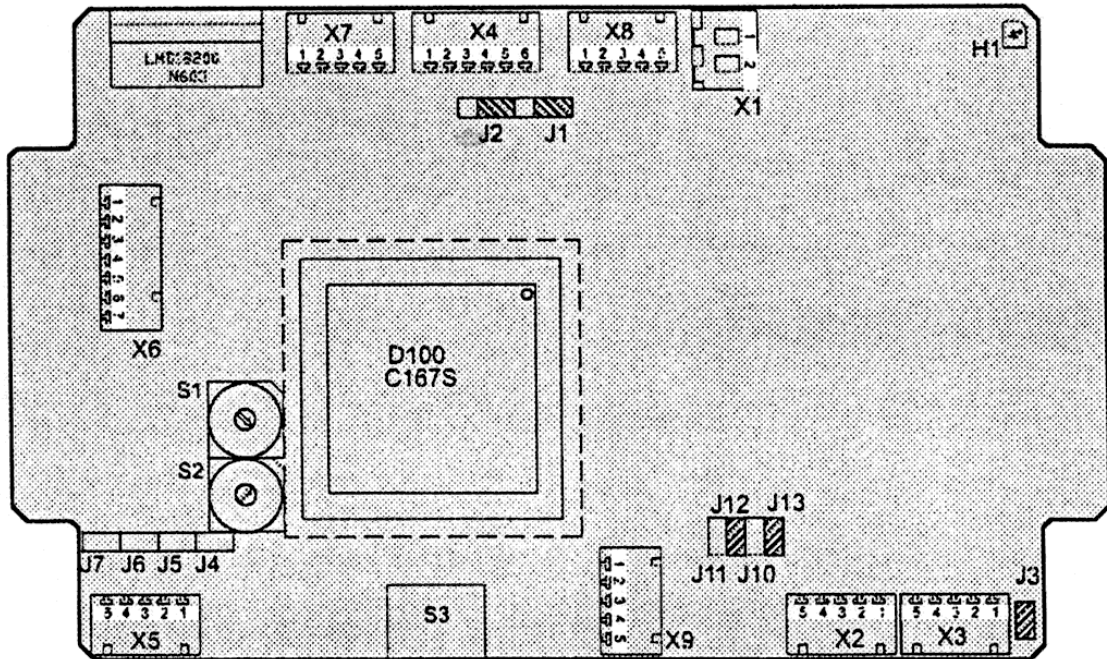
A multilayer basic-board carries all electronic components and has accommodated in an aluminium-casing. The internal terminal strips for the in- and outputs, power-supply, bus-connections and interfaces become over cable glands and/ or sensor round connectors series M12 to outside leads. According to execution of the connection-elements (plugs/ cable-glands) is a protection-type up to IP67 possible. The metal-casing can be mounted with four screws M4 x 15mm at each underground or directly at the cylinder.

Bloc diagram:



Jumper and DIP switch on board:

J1...J2	SSI / Start-Stop	S1 / S2	CAN address
J3	CAN terminal resistance 120 Ω	S3.1/2	reset/Download
	CAN-Bus (X2/X3)	S3.3/4	Off / Off baud rate 125 KB
J4...J7	current / voltage input		On / Off baud rate 250 KB
J10...J11	RS422 Full Duplex		Off / On baud rate 500 KB
	RS485 Half Duplex		Off / On baud rate 1000 KB
J12...J13	RS422 terminal resistance 120 Ω		



Terminal strips:

X1	power supply:	24 VDC ±15% / 0,2A plus external loads
X2/X3	CAN Bus in-out	
X4	1 x Sensor input:	SSI or Start/Stop (RS422)
X5	4 x analogue input:	0...+5V, 0...+10V, ±5V ; ±10V ; 0(4)..20 mA (12 bit)
X6	1(2) analogue output:	±10V / 5mA (12 bit)
	1 x analogue current output:	± 0,2 / ±0,3 / ±0,66 / ±1A (12 bit)
X7	4 x digital input :	+24V (12...30V)/10mA(isolated)
X8	4 x digital output :	+24V/max. 1,5A /output (max. 3A)
X9	diagnose programming :	RS 422
Option:		
X11	2.Bus (add-on board) :	Profibus DP (Ethernet, CANopen, Interbus-S in development)

Additional technical data:

environment temperature	:	-20°C.....+70°C
IP protection level	:	IP65 standard (up to IP67 with M12 connectors)
dimensions Aluminium case	:	160mm x 100mm x 80mm
weight	:	ca. 1,1 kg