AN203 servo-amplifier

The AN203 servo-amplifier has been designed for pressure control circuits with position-controlled pressure valves.

Card types:	AN 203 - 10 - 08	800 mA
	AN 203 - 10 - 16	1600 mA
	AN 203 - 10 - 25	2500 mA

Performance features:

- Reverse-polarity-proof
- Short-circuit protected
- Ramp can be externally deactivated
- External Stop
- Measuring sockets for target value ("setpoint") and valve current
- Minus potential of power supply is identical to the zero potential of the inputs and the zero potential of the reference voltage. Multiple servo-amplifiers can therefore be operated from a common power supply.
- Good dynamics, thanks to the use of high-speed end stages
- Broad ramp setting range
- Five different inputs for the most common input voltages and input currents, therefore extremely flexible input circuit configuration
- Pulse-width modulation
- Path-encoder monitoring on the valve
- Servo-amplifier can be operated with an I-min jump by resoldering a jumper

PEES
COMPONENTS

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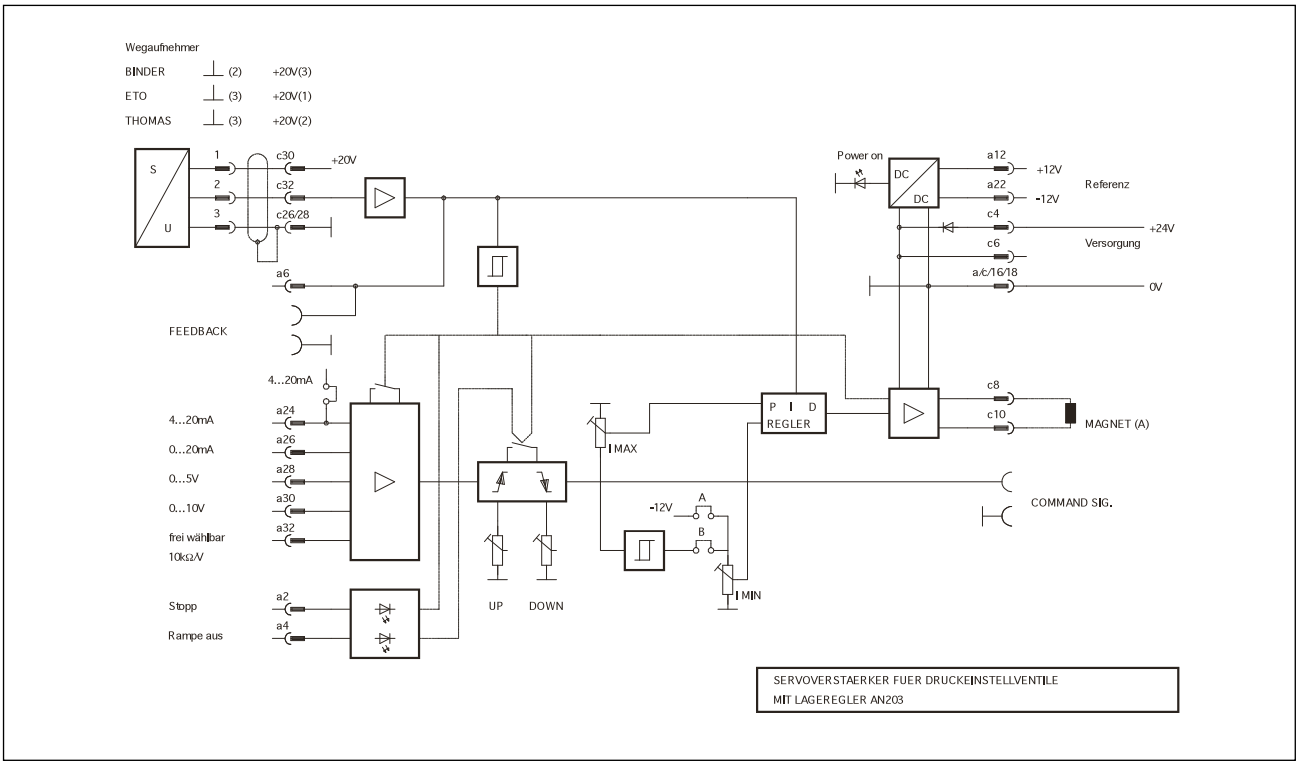

Technical data

Dimensions	160 x 100 x 40mm
Weight	250 gram
Connector strip	DIN 41612 D 32
Supply voltage	24 V = nominal Ripple-free battery voltage 23-35 V DC Rectified AC voltage Ueff = 20-26 V (single-phase, full-wave rectified.)
Reference voltage	± 12 V 50 mA ± 2 %
Output current, depending on card type with current limitation	I max. 800 mA, 1600 mA, 2500 mA
Short-circuit protection	for the magnet and the reference voltage
Function monitoring	for the position sensor
Inputs	4-20 mA 150 Ω, 0-20 mA 240 Ω, 0-10 V 10 kΩ / Volt, 0-5 V 10 kΩ / Volt, selectable 10 kΩ / Volt
Input potential for setpoints	positive
External Stop	Display via fail safe, in form of break circuit Input voltage approx. 2.5-24 V 3.3 kΩ
Ramp off	Input voltage approx. 2.5-24 V 3.3 kΩ
Spindle resistors	1.) P max. 2.) Zero point approx. 25 % P max. 3.) Ramp up 80 ms-5 sec. ± 20 % 4.) Ramp down80 ms-5 sec. ± 20 %
Test sockets Valve current (feedback)	Setpoint (command signal) 0-10 V typically 0-5 V (depending on valve type)