PEES
COMPONENTS

AN209 Servo Amplifier

The AN209 servo amplifier has been designed to control single-magnet proportional valves and throttle-valves.
The module is provided with various setpoint inputs:
4-20mA, 0-20mA, 0-5V, 0-10V, user selectable 10kΩ/V
An external enable input allows to lock the amplifier.
The ramp gradients can be set separately for rise and fall.

Features:

- protection against wrong polarity
- short-circuit proof
- external ramp switch-off
- external stop
- measurement sockets for setpoint and valve current
- the negative of the power supply is at the same potential as the input zero voltages. This allows several servo amplifiers to be operated from a common power supply.
- excellent dynamics due to use of fast output stage
- wide range of adjustment for ramps
- 5 different setpoint inputs giving great flexibility of input circuit
- pulse width modulation
- plug-selectable dither frequency

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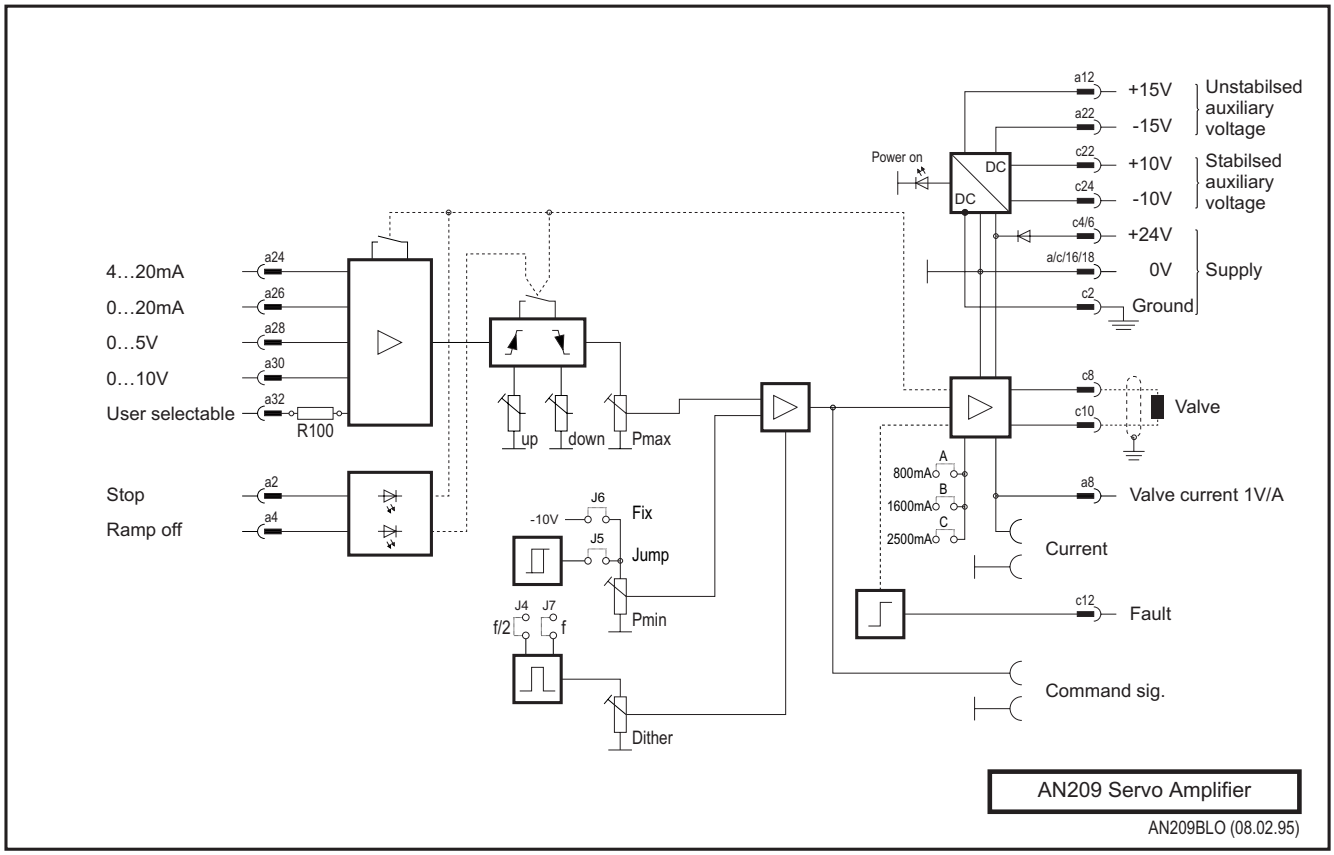

Technical data:

Dimensions (Overall dim.)	Eurocard format (100x160)mm (40 x 128.4 x 186.5)mm (WxHxD) Front plate 3HU x 8SU
Connection	32 pin connector DIN 41612 D32
Supply voltage	24V DC (22…35V DC) 16…24V DC rectified AC
Auxiliary voltage	±10V, approx. 20mA, stabilised ±15V, approx. 100mA, non-stabilised
Output current	I_{MAX} = 2500mA, 3 plug-selectable ranges: 800mA, 1600mA, 2500mA
Short-circuit protection	for output stage and auxiliary voltages
Setpoint inputs	1x 4…20mA, 100Ω 1x 0…20mA, 100Ω 1x 0…5V, 50kΩ 1x 0…10V, 100kΩ 1x user selectable 10kΩ/V
Control Inputs	Stop: normaly closed circuit input voltage 24V, 10kΩ Indication via 'Fail safe' LED Ramp off: 24V, 10kΩ Indication via 'Ramp off' LED
Outputs	Fault output 24V to a computer or PLC in the case of FAIL SAFE or STOP
Dither	2 plug-selectable ranges approx. 60Hz and 130Hz Amplitude can be set using the DITHER potentiometer, approx. 0…15% of rated current
Multi-turn resistors	Pmax Pmin: approx. 0…30% of Pmax Ramp up: approx. 1.25…140V/s (70ms…8s) Ramp down: approx. 1.25…140V/s (70ms…8s)
Measurement sockets (2mm)	COMMAND SIG.: setpoint 0…10V CURRENT: valve current 1V/A