

## AN220 Servo amplifier

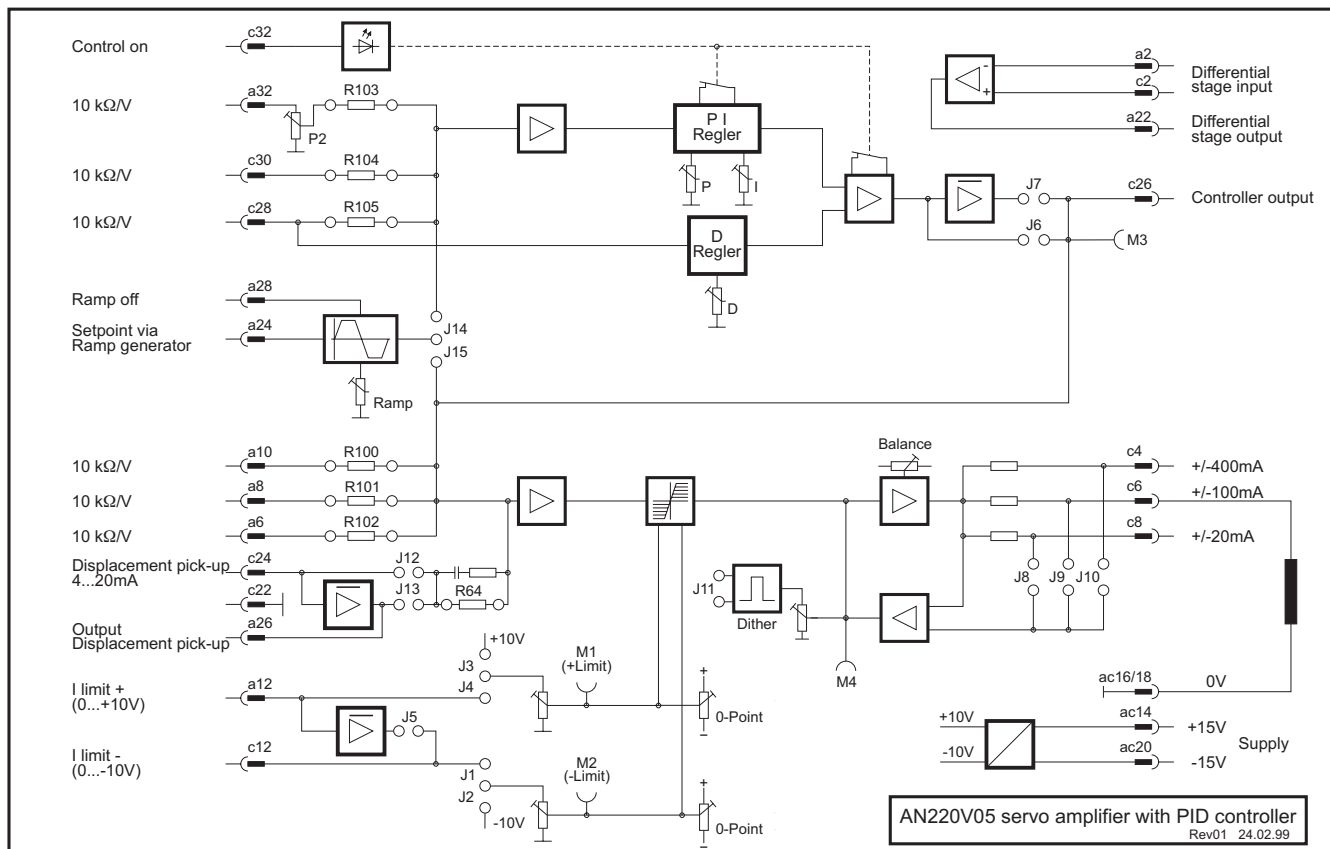


**The AN220 servo amplifier is suitable for controlling the most popular servo valves. The module provides current ranges of  $\pm 20\text{mA}$ ,  $\pm 100\text{mA}$ , and  $\pm 400\text{mA}$  for this purpose. The valve modulation can be adjusted by an internal/external limiter. In addition, the module is equipped with a PID controller, allowing a control system with a servo valve to be set up.**

### Features:

- linear output stage with three current ranges ( $\pm 20\text{mA}$ ,  $\pm 100\text{mA}$ , and  $\pm 400\text{mA}$ )
- one side of load at zero voltage, allows use as current driver
- protected against wrong polarity
- 6 user-selectable voltage inputs ( $10\text{ k}\Omega/\text{V}$ ), one  $\pm 10\text{V}$  input via ramp generator, one  $4\dots 20\text{mA}$  input, one differential input
- internal/external modulation limiting for positive and negative valve modulation, adjustment selectable as separate or symmetrical
- PID controller with external disable
- control parameters adjustable on the front plate
- ramp has wide range of adjustment ( $0.1\dots 10\text{sec}$ ) and can be disabled externally

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## Technical data:

Dimensions (overall dim.)	Eurocard format (160x100)mm (20x128.7x186.5)mm (WxHxD) Front plate 3HUx4SU	Dither	2 plug-selectable ranges: J11 open: approx. 200Hz J11 inserted: approx. 150Hz Adjustable amplitude, approx. 0...20% of rated current
Connection	32 pin connector DIN 41612 D32	Control parameters	P, I and D components adjustable via potentiometers
Supply voltage	±15V DC	Controller enable	Input voltage 24V, 10kΩ Indication via 'Ctrl. on' LED
Output current	I <sub>max</sub> = 400mA, 3 plug-selectable ranges: ±20mA ±100mA ±400mA	Ramp times	Adjustable from 0.1...10sec ±20%
Inputs	6x user selectable 10kΩ/V 1x ±10V, 100kΩ, via ramp generator 1x 4...20mA, 100Ω 1x differential input  1x pos. limit 0...+10V 1x neg. limit 0...-10V	Ramp disable	Input voltage 24V, 10kΩ
		Measurement sockets	'M1': + limit 'M2': -limit 'M3': controller output 'M4': valve current