A130 Hoist Amplifier

The A130 hoist amplifier has a high gain characteristic to effect a tight relationship between reference input, and drive speed. This is a basic requirement for hoist drives. It has a dedicated pole number: this is endorsed on the front handle. The A130 card has a single trim-pot adjustment, for torque during retardation in quadrant 4.

In the AC10 system, the average torque for acceleration is Mn×1,5. That is, acceleration torque Ma = Mn×1,5. To determine acceleration time ta, system inertia J must be known. The equation is:

$$Mn = J.\frac{\Delta\omega}{\Delta t}$$

with Mn in Nm
J in kgm^2
$\Delta\omega$ motor speed in rad/sec
Δt acceleration time in sec

Function in hoist and lower mode is displayed by two high-density LED's. The A130 card occupies position 4 in the A2 eurorack assembly.