



## Controller M301

Constant current controller for magnetic powder clutches / brakes

Magnetic powder clutches / brakes, which are fed by the controller M301, do not show a change of the torque by heating.

### Application:

- tension brake / wind up
- torque control
- torque limiting
- speed control
- coupling operation
- starting control

### Option PID-regulator Z2:

- tension control
- breaking force control
- torque measuring
- dancer position control

### Construction of the device:

plug in card / Europe card with front panel for 19 inch rack (3U / 14HP)

- net potential-free
- current output max. **1A**
- output voltage max. **24V DC**
- voltage supply 24V DC or 24V AC, 50/60 Hz
- via isolation transformer 230/24V AC, 50/60Hz, 63VA (option)
- control inhibit
- set point voltage 0-10V DC
- set point integrator +/- adjustable
- add-on set point input 0-10V DC
- min/max current limit adjustable
- quick-stop-function
- remanence compensation
- thermal link via external sensor
- potential free thermal relay contact (NC/NO)
- display for control inhibit, thermal link, On/Off and quick-stop

### Alternative design:

1. plug in card (Europe card, 160x100 mm) IP00
2. EMC-case IP 20 for wall mounting on DIN mounting rail
3. plastic wall housing with transparent cover IP 54, isolation transformer, connection via terminal strip
4. steel housing IP 54, isolation transformer, connection via terminal strip
5. desktop case IP20, isolation transformer

### More options:

1. plug board bracket DIN 41612
2. isolation transformer 230/24V AC, 50/60Hz with primary fuse
3. digital amperemeter (LC-Display) in front panel
4. operating panel (3U / 14HP) with potentiometer/ switch/ indicator lamp
5. PID-regulator **Z2** with amperemeter for tension-/ pressure-/ dancer regulation
6. data logger via parallel port
7. thermal sensor



Picture: Controller M301 with optional LC-Display and PID-Regulator Z2