

Base circuit BLDC-B1.3-24VDC

General

The BLDC-B1.3-24VDC base circuit is used to control an actuator with a BLDC DC current motor.

Properties:

- Adjustable, wear-free BLDC-Motor
- continuously adjustable actuating times
- Power cut-off continuously adjustable with fault indication
- Single-pole reversion
- Speed monitoring
- High holding torque, even current-less

Actuating times:

The actuating time can be adjusted continuously in a ratio of 1:10 with the potentiometer "Speed".

Power cut-off:

The nominal current and thus the torque can be adjusted with the potentiometer "IMot". The specified maximum nominal current must not be exceeded.

When exceeding the pre-set nominal current, the engine is switched off and a 24VDC fault message is available at clamps 24 and 25. The red "Err." -LED displays the fault message.

The shutdown of the engine and the 24VDC fault message remain until the supply voltage is interrupted for about 1s.

Technical data:

Voltage: 24VDC, stabilized

Current: at least nominal current multiplied with 1,2

Add-ons / Interfaces:

Interfaces für Base circuit BLDC-B1:

BLDC-IO – Actuating time adjustment by 0/4-20mA or 0/2-10V

BLDC-R1 - Positioner 4-20mA

BLDC-N1 – Fail-Safe-Function by Capacitor

BLDC-NR1 – Fail-Safe-Function by Capacitor with Positioner



Circuit diagram

