

Base circuit BLDC-B1.3-24VDC

General

The BLDC-B1.3-24VDC base circuit is used to control a 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:

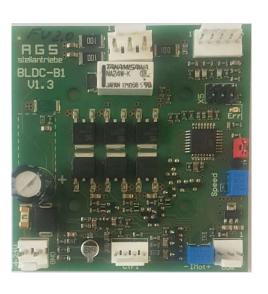
Interfaces für Base circuit BLDC-B1:

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

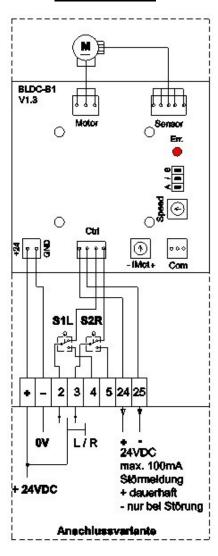
BLDC-R1 - Positioner 4-20mA

BLDC-N1 - Fail-Safe-Function by Capacitor

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



Circuit diagram



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