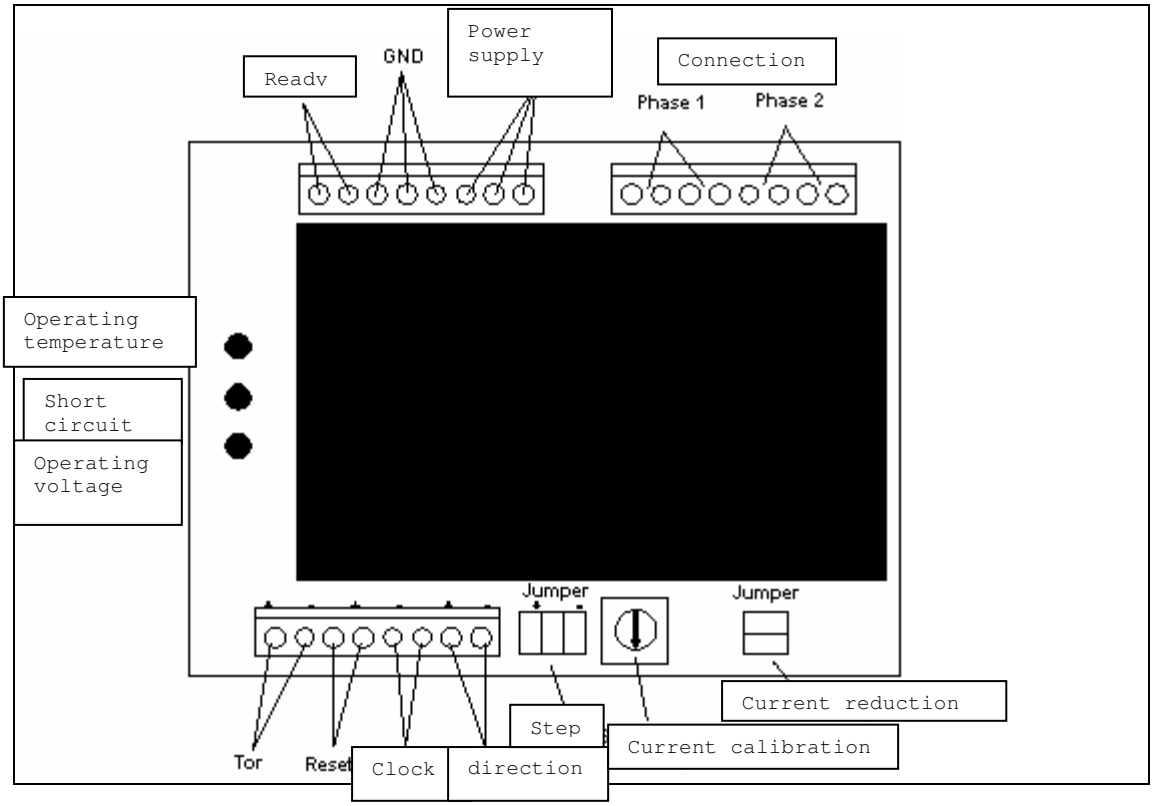
1.1 Connection plan



Starting

2.1 Operation Conditions

- IP 00, open box

- relative Humidity 20% to 80%
  Humidity class F (DIN 40040)

- Storage temperature -15 bis +70 Grad Celsius

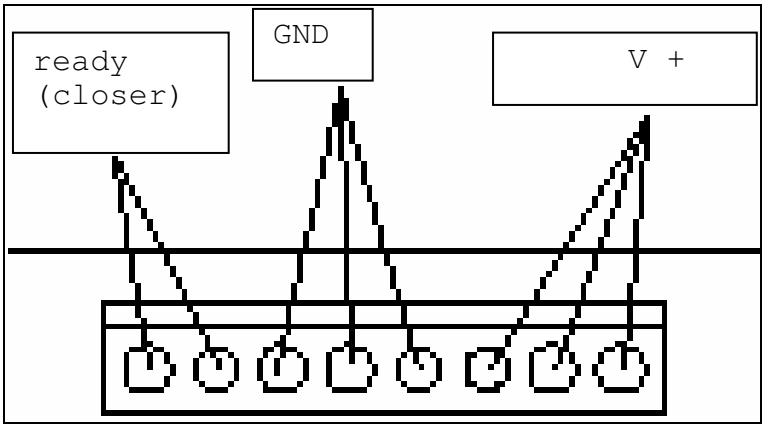
- Operating temperature +5 bis +40 Grad Celsius

! with high motor current linked to high ambient temperature the driver must be forced ventilated

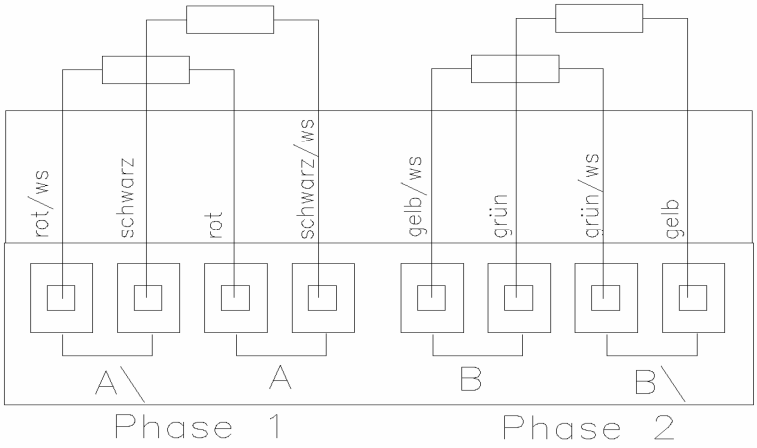
2.2 Power Supply

Operating voltage: 24-80V DC

Note: A charging capacitor of 10 000yF **must** be connected to the supply in order to prevent the permissible voltage from being exceeded during a braking operation.
Reversal of the inputs/outputs can destroy the output module.



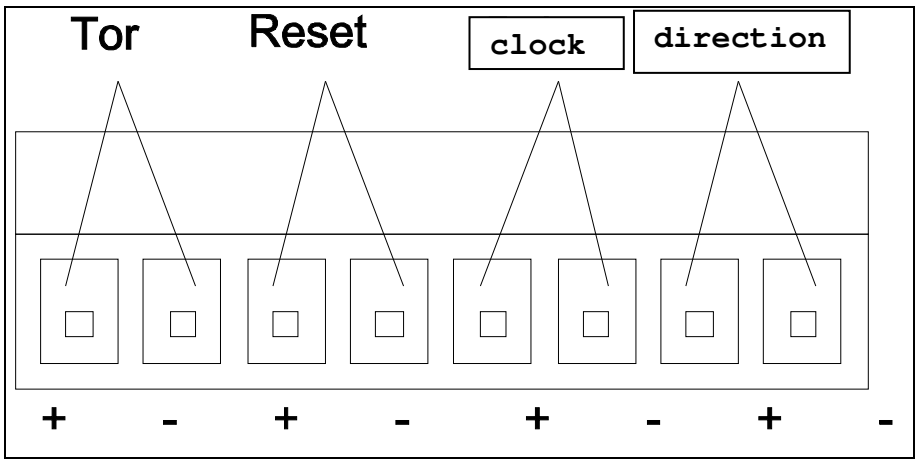
2.3 Motor connection



Motors with 8 leads are connected internal parallel.

! never disconnect leads when driver is operating

2.4 Signal connections



2.4.1 Clock and direction

Clock:

max. Frequency: 100 kHz

Direction:

defines the direction of the motor

2.4.2 Tor and Reset

Tor:

If the input Tor is energized, clock signals to the driver are blocked. So you can drive more drivers with one clock-generator selective.

Reset:

If the driver sets an error output (because of too high phase current or temperature), the reset input must be energized. The motor will be reinitialised and will take in the next full step position. After that the reset signal has to be disconnected for normal operation.

2.4.3 Technical specifications

Signal Clock/Direction

activ: min 4,5 Volt max 10,0 Volt
not activ: min - 5 Volt max. 1,0 Volt

Input current: I:= (Uon - 1,5 Volt) / 200 Ohm

Clock-duration: min 5 ys
Clock-break : min 5 ys

Signal Tor, Reset

activ: min 4,5 Volt max 10,0 Volt
not activ: min - 5 Volt max. 1,0 Volt

Input current: I:= (Uon - 1,5 Volt) / 200 Ohm

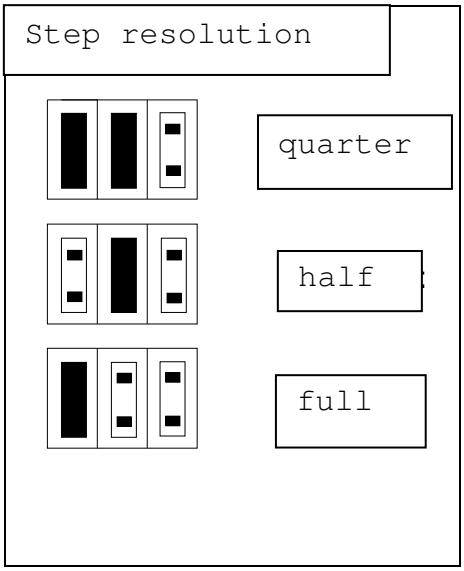
Clock-duration: min 100 ms
Clock-break : min 100 ms

Signal ready Relais contacted with floating output

Circuit Voltage: 125 Volt maximal
Circuit Current: 0,5 Ampere, only resistive load

2.5 Handling

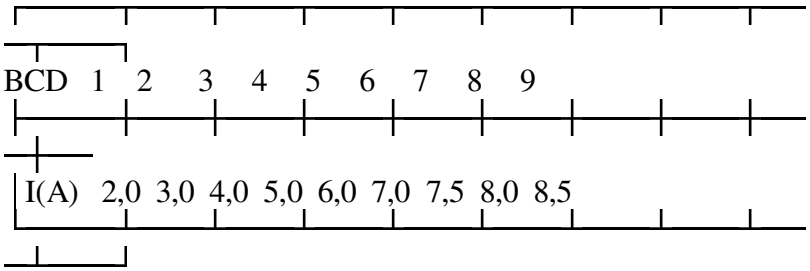
2.5.1 Step resolution



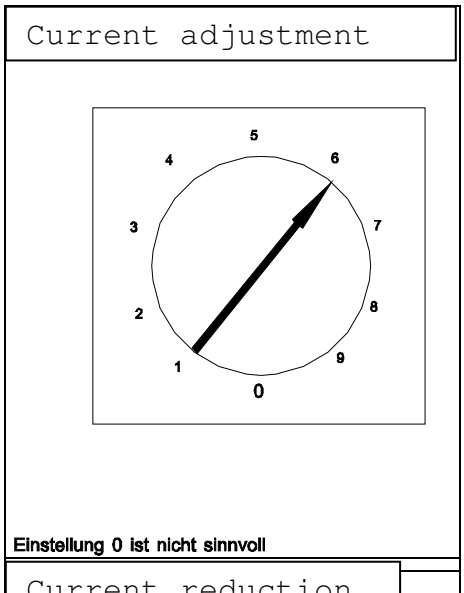
with jumper

! only with driver in off-mode

2.5.2 Current adjustment

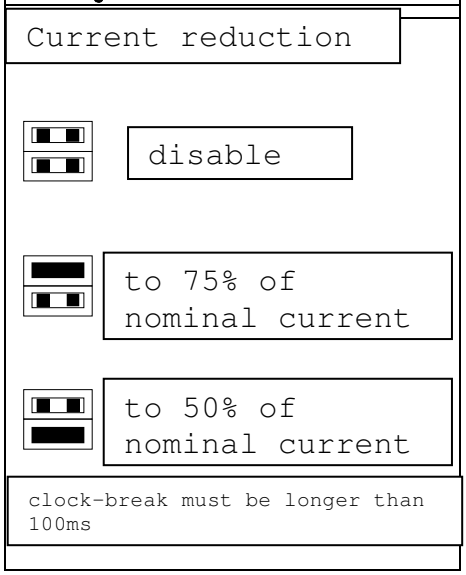


! Step 7,8,9 only in off-mode adjustable



2.5.3 Automatic current reduction

The current reduction is active if the clock input is not under current for min. 100 ms.



3 Dimensions