Gear-Motor-Specifications

HILBA-drive including:

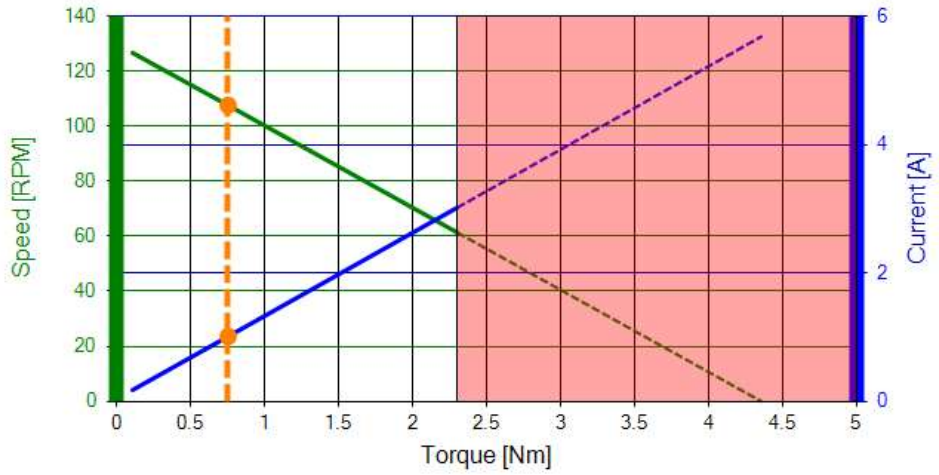
Motor

Name: GR42X40
Typ: DC
Voltage: 24V
Power: 18.5W
IP code: IP50
Manufacturer: Dunkermotoren
Part number: 88427.02010
Weight: 0.49kg
Nominal torque: 0.057Nm
Nominal speed: 3227RPM
Nominal current: 1.0A
Stall current: 5.7A
No load speed: 3800RPM
Torque constant: 0.058 Nm/A
Speed constant: 0.00009 Nm/RPM

Gearhead

Name: SN17
Typ: Schneckengetriebe
IP code: IP54
Ambient temperature range: -30°C bis +90°C
Reduction: 30:1
Efficiency: 0.44
Weight: 0.22kg
Nominal torque: 2.3Nm
Maximal speed: 5000RPM
Backlash: 0.5°
Self-locking: Yes

Drive



Motor Nominal Load

Gearhead overload range. Limit the motor current to a maximum of 3.0A in order to prevent damage to the gearhead.

All values with the following restrictions:
Ambient temperature static 20°C.
Gearhead with constant efficiency.

No-load Operation

Torque: 0.11Nm
Speed: 127RPM
Current: 0.18A

Motor Nominal Load

Torque: 0.75Nm
Speed: 108RPM
Current: 1.0A

Gearhead Nominal Load

Torque: 2.3Nm
Speed: 61RPM
Current: 3.0A

Limit the motor current to a maximum of 3.0A in order to prevent damage to the gearhead.

Stall

Torque: 4.4Nm
Speed: 0RPM
Current: 5.7A

Limit the motor current to a maximum of 3.0A in order to prevent damage to the gearhead.