Gear-Motor-Specifications

HILBA-drive including:

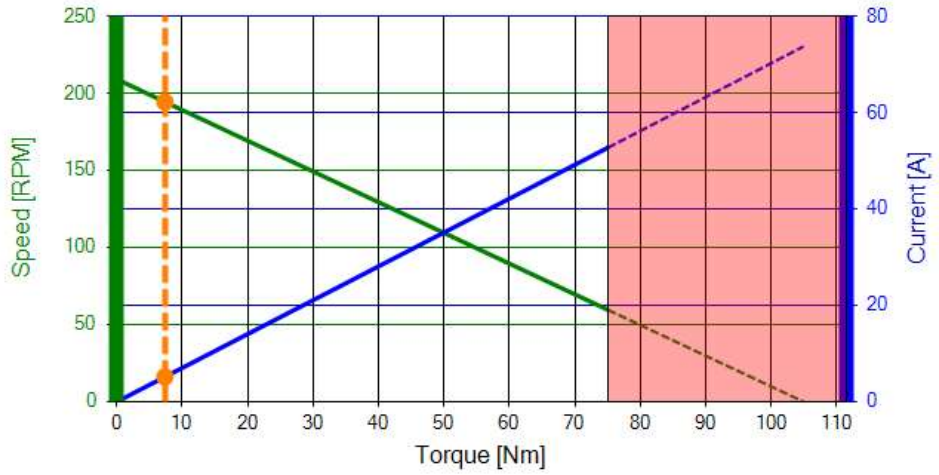
Motor

Name: GR80X80
Typ: DC
Voltage: 40V
Power: 201W
IP code: IP50
Manufacturer: Dunkermotoren
Part number: 88445.01501
Weight: 4kg
Nominal torque: 0.62Nm
Nominal speed: 2806RPM
Nominal current: 5.1A
Stall current: 74A
No load speed: 3000RPM
Torque constant: 0.12 Nm/A
Speed constant: 0.0029 Nm/RPM

Gearhead

Name: PH85
Typ: Planetengetriebe
IP code: IP54
Ambient temperature range: -30°C bis +90°C
Reduction: 14.44:1
Efficiency: 0.82
Weight: 3.2kg
Nominal torque: 75Nm
Maximal speed: 5000RPM
Backlash: 1.4°
Self-locking: No

Drive



Motor Nominal Load

Gearhead overload range. Limit the motor current to a maximum of 53A 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: 0.65Nm
Speed: 208RPM
Current: 0.37A

Motor Nominal Load

Torque: 7.3Nm
Speed: 194RPM
Current: 5.1A

Gearhead Nominal Load

Torque: 75Nm
Speed: 59RPM
Current: 53A

Limit the motor current to a maximum of 53A in order to prevent damage to the gearhead.

Stall

Torque: 105Nm
Speed: 0RPM
Current: 74A

Limit the motor current to a maximum of 53A in order to prevent damage to the gearhead.