

Gear-Motor-Specifications

HILBA-drive including:

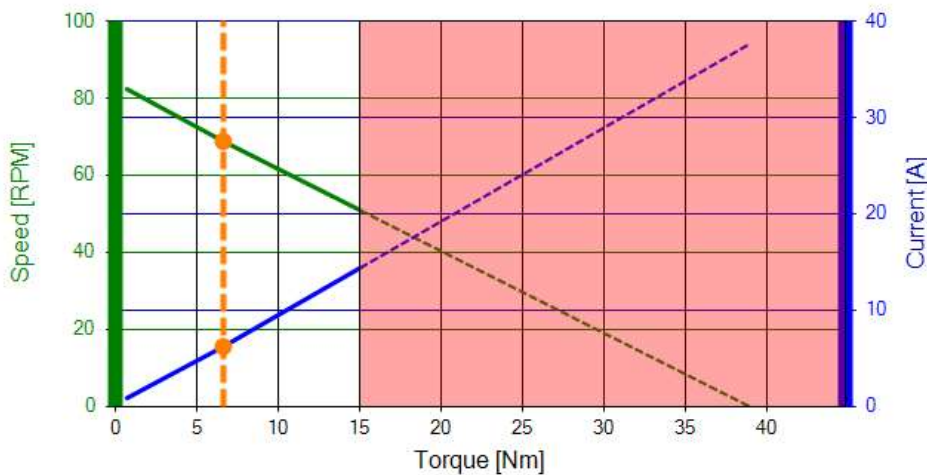
Motor

Name: BG42X30
 Typ: EC
 Voltage: 12V
 Power: 156W
 IP code: IP40
 Manufacturer: Dunkermotoren
 Part number: 88542.02001
 Weight: 0.47kg
 Nominal torque: 0.17Nm
 Nominal speed: 3501RPM
 Nominal current: 6.2A
 Stall current: 38A
 No load speed: 4190RPM
 Torque constant: 0.029 Nm/A
 Speed constant: 0.00023 Nm/RPM

Gearhead

Name: PI42
 Typ: Planetengetriebe
 IP code: IP54
 Ambient temperature range: -30°C bis +90°C
 Reduction: 50.89:1
 Efficiency: 0.75
 Weight: 0.6kg
 Nominal torque: 15Nm
 Maximal speed: 5000RPM
 Backlash: 2.1°
 Self-locking: No

Drive



--- Motor Nominal Load
 Gearhead overload range.
 Limit the motor current to a maximum of 14A 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: 0.69Nm
 Speed: 82RPM
 Current: 0.85A

Motor Nominal Load

Torque: 6.6Nm
 Speed: 69RPM
 Current: 6.2A

Gearhead Nominal Load

Torque: 15Nm
 Speed: 51RPM
 Current: 14A

Limit the motor current to a maximum of 14A in order to prevent damage to the gearhead.

Stall

Torque: 39Nm
 Speed: 0RPM
 Current: 38A

Limit the motor current to a maximum of 14A in order to prevent damage to the gearhead.