

Gear-Motor-Specifications

HILBA-drive including:

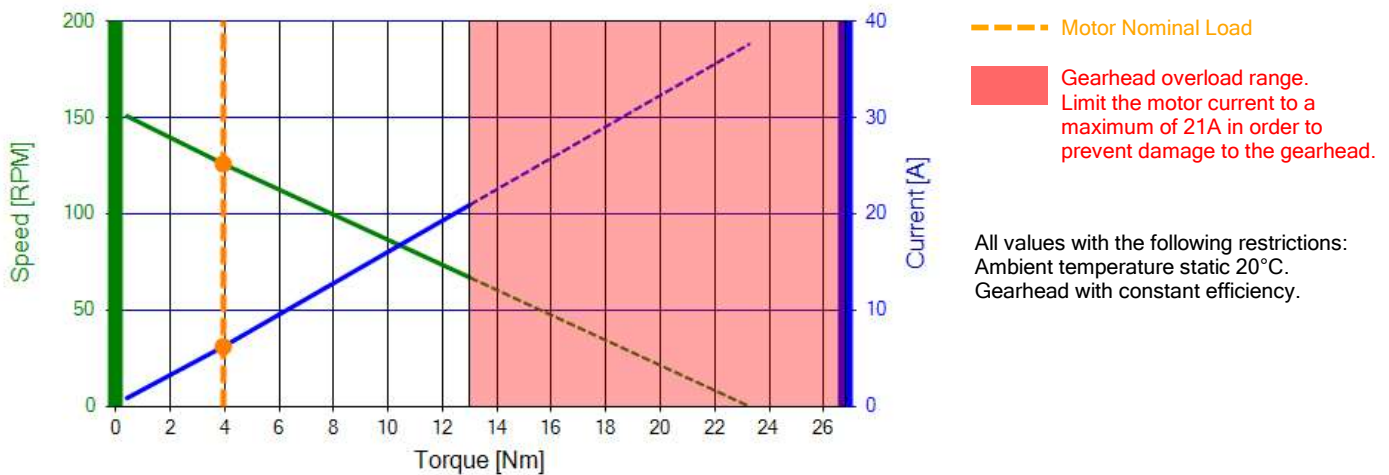
Motor

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: PH42
 Typ: Planetengetriebe
 IP code: IP54
 Ambient temperature range: -30°C bis +90°C
 Reduction: 27.81:1
 Efficiency: 0.82
 Weight: 0.92kg
 Nominal torque: 13Nm
 Maximal speed: 5000RPM
 Backlash: 1.4°
 Self-locking: No

Drive



No-load Operation

Torque: 0.41Nm
 Speed: 151RPM
 Current: 0.85A

Motor Nominal Load

Torque: 3.9Nm
 Speed: 126RPM
 Current: 6.2A

Gearhead Nominal Load

Torque: 13Nm
 Speed: 67RPM
 Current: 21A

Limit the motor current to a maximum of 21A in order to prevent damage to the gearhead.

Stall

Torque: 23Nm
 Speed: 0RPM
 Current: 38A

Limit the motor current to a maximum of 21A in order to prevent damage to the gearhead.