

Gear-Motor-Specifications

HILBA-drive including:

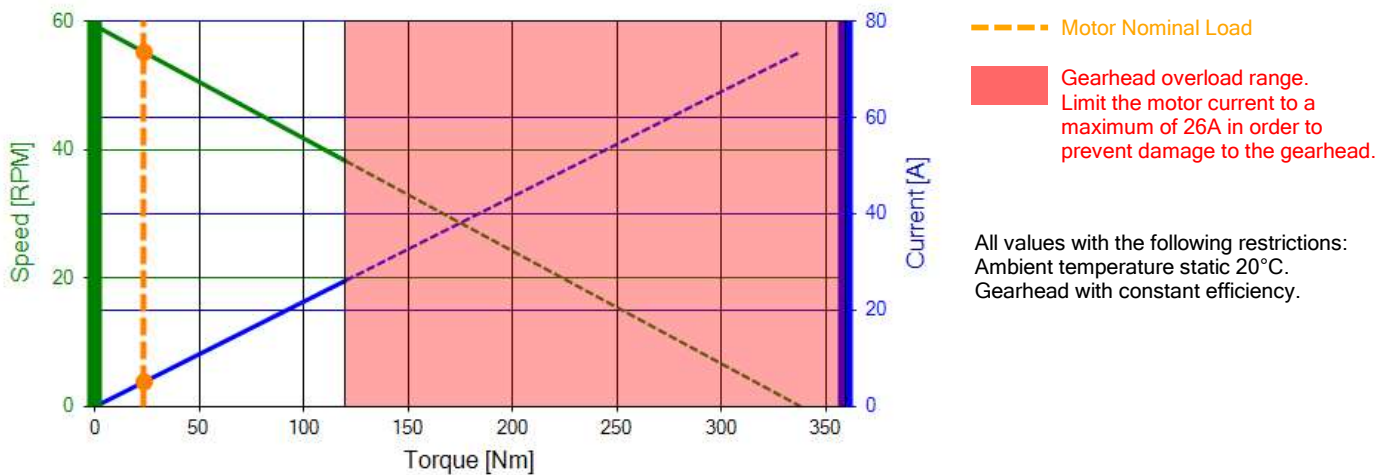
Motor

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: PI81
 Typ: Planetengetriebe
 IP code: IP54
 Ambient temperature range: -30°C bis +90°C
 Reduction: 50.89:1
 Efficiency: 0.75
 Weight: 3.2kg
 Nominal torque: 120Nm
 Maximal speed: 5000RPM
 Backlash: 2.1°
 Self-locking: No

Drive



No-load Operation

Torque: 2.1Nm
 Speed: 59RPM
 Current: 0.37A

Motor Nominal Load

Torque: 24Nm
 Speed: 55RPM
 Current: 5.1A

Gearhead Nominal Load

Torque: 120Nm
 Speed: 38RPM
 Current: 26A

Limit the motor current to a maximum of 26A in order to prevent damage to the gearhead.

Stall

Torque: 338Nm
 Speed: 0RPM
 Current: 74A

Limit the motor current to a maximum of 26A in order to prevent damage to the gearhead.