

Gear-Motor-Specifications

HILBA-drive including:

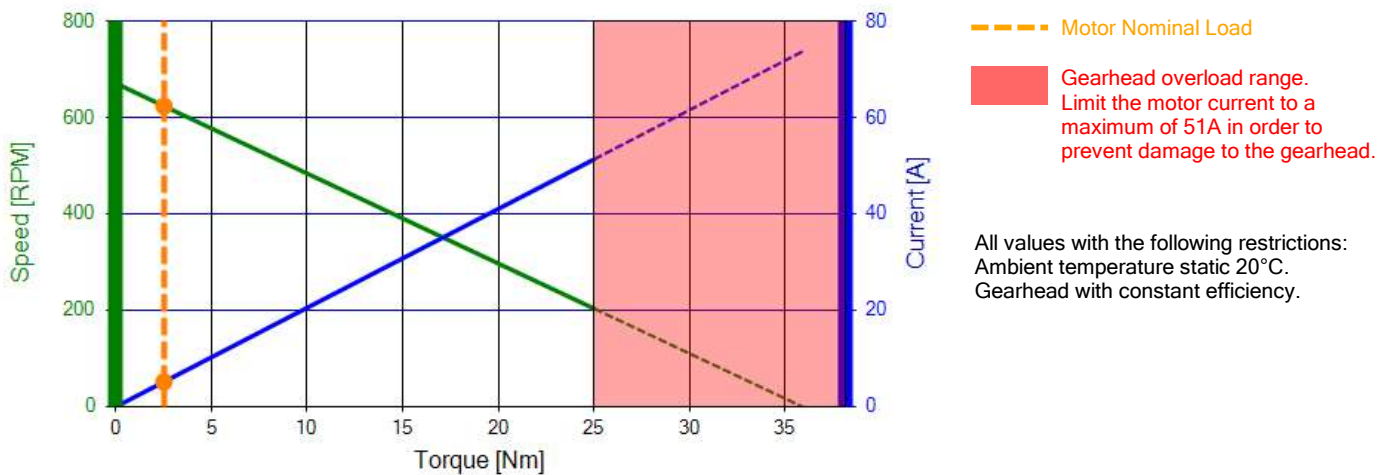
Motor

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: 4.5:1
 Efficiency: 0.9
 Weight: 2.8kg
 Nominal torque: 25Nm
 Maximal speed: 5000RPM
 Backlash: 0.7°
 Self-locking: No

Drive



No-load Operation

Torque: 0.22Nm
 Speed: 667RPM
 Current: 0.37A

Motor Nominal Load

Torque: 2.5Nm
 Speed: 624RPM
 Current: 5.1A

Gearhead Nominal Load

Torque: 25Nm
 Speed: 203RPM
 Current: 51A

Limit the motor current to a maximum of 51A in order to prevent damage to the gearhead.

Stall

Torque: 36Nm
 Speed: 0RPM
 Current: 74A

Limit the motor current to a maximum of 51A in order to prevent damage to the gearhead.