

Gear-Motor-Specifications

HILBA-drive including:

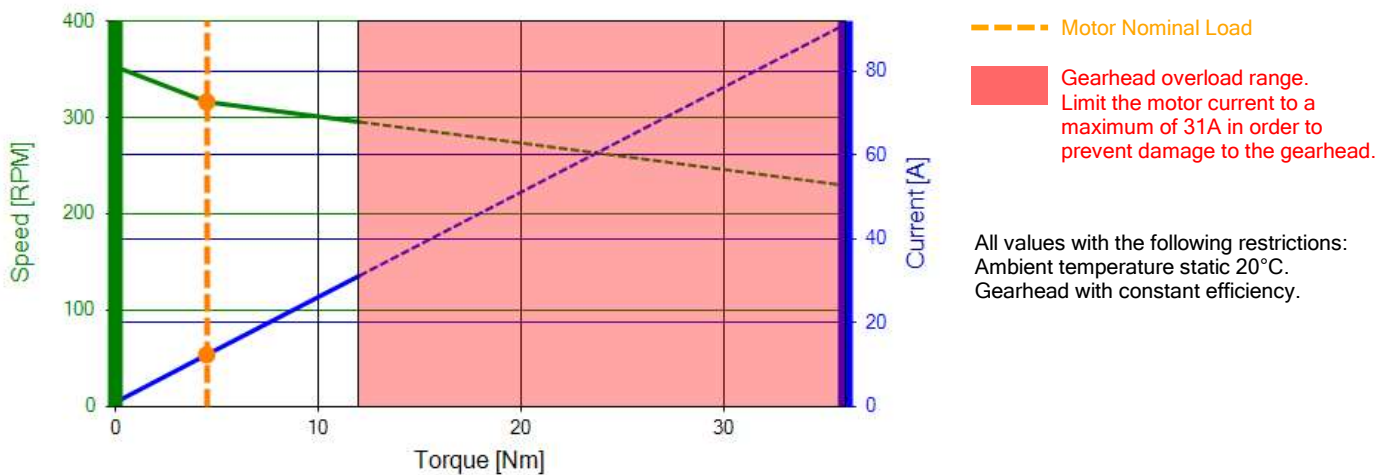
Motor

Name: EC-i 52
 Typ: EC
 Voltage: 18V
 Power: 180W
 IP code: IP40
 Manufacturer: Maxon Motor
 Part number: 574740
 Weight: 0.82kg
 Nominal torque: 0.40Nm
 Nominal speed: 4340RPM
 Nominal current: 12A
 Stall current: 300A
 No load speed: 4840RPM
 Torque constant: 0.035 Nm/A
 Speed constant: 0.0021 Nm/RPM

Gearhead

Name: PI52
 Typ: Planetengetriebe
 IP code: IP54
 Ambient temperature range: -30°C bis +90°C
 Reduction: 13.73:1
 Efficiency: 0.82
 Weight: 0.4kg
 Nominal torque: 12Nm
 Maximal speed: 5000RPM
 Backlash: 1.4°
 Self-locking: No

Drive



No-load Operation

Torque: 0Nm
 Speed: 353RPM
 Current: 0.99A

Motor Nominal Load

Torque: 4.5Nm
 Speed: 316RPM
 Current: 12A

Gearhead Nominal Load

Torque: 12Nm
 Speed: 295RPM
 Current: 31A

Limit the motor current to a maximum of 31A in order to prevent damage to the gearhead.

Stall

Torque: 119Nm
 Speed: 0RPM
 Current: 300A

Limit the motor current to a maximum of 31A in order to prevent damage to the gearhead.