

Gear-Motor-Specifications

HILBA-drive including:

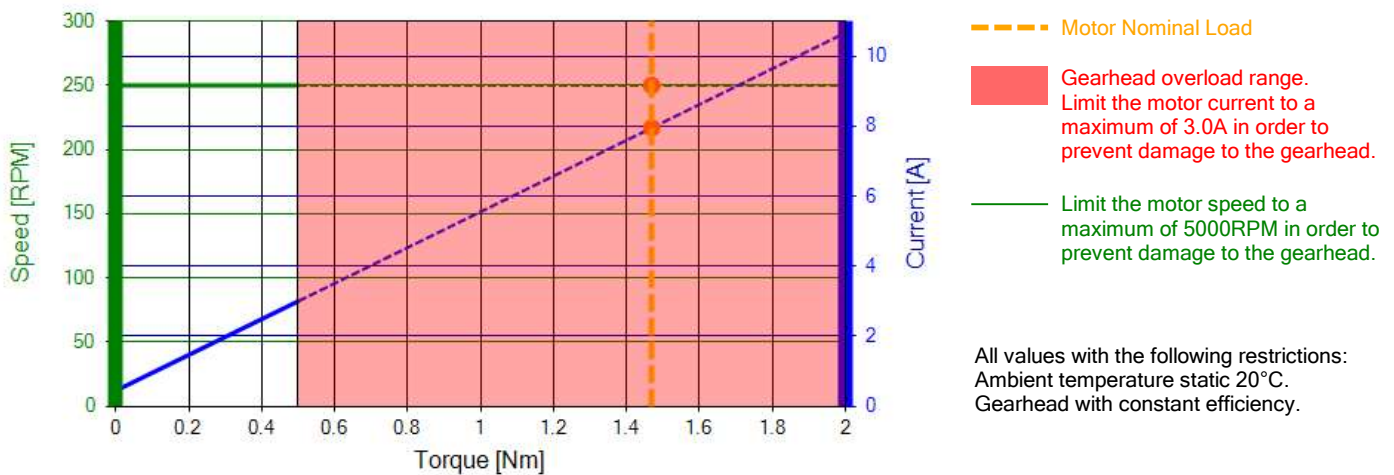
Motor

Name: EC-i 30
 Typ: EC
 Voltage: 12V
 Power: 75W
 IP code: IP40
 Manufacturer: Maxon Motor
 Part number: 539485
 Weight: 0.24kg
 Nominal torque: 0.11Nm
 Nominal speed: 6760RPM
 Nominal current: 8.0A
 Stall current: 102A
 No load speed: 7940RPM
 Torque constant: 0.014 Nm/A
 Speed constant: 0.00018 Nm/RPM

Gearhead

Name: SN12
 Typ: Schneckengetriebe
 IP code: IP54
 Ambient temperature range: -30°C bis +90°C
 Reduction: 20:1
 Efficiency: 0.68
 Weight: 0.11kg
 Nominal torque: 0.50Nm
 Maximal speed: 5000RPM
 Backlash: 0.5°
 Self-locking: No

Drive



No-load Operation

Torque: 0Nm
 Speed: 250RPM
 Current: 0.45A

Limit the motor speed to a maximum of 5000RPM in order to prevent damage to the gearhead.

Motor Nominal Load

Torque: 1.5Nm
 Speed: 250RPM
 Current: 8.0A

Limit the motor current to a maximum of 3.0A in order to prevent damage to the gearhead.

Limit the motor speed to a maximum of 5000RPM in order to prevent damage to the gearhead.

Gearhead Nominal Load

Torque: 0.50Nm
 Speed: 250RPM
 Current: 3.0A

Limit the motor current to a maximum of 3.0A in order to prevent damage to the gearhead.

Limit the motor speed to a maximum of 5000RPM in order to prevent damage to the gearhead.

Stall

Torque: 20Nm
 Speed: 0RPM
 Current: 102A

Limit the motor current to a maximum of 3.0A in order to prevent damage to the gearhead.