

Gear-Motor-Specifications

HILBA-drive including:

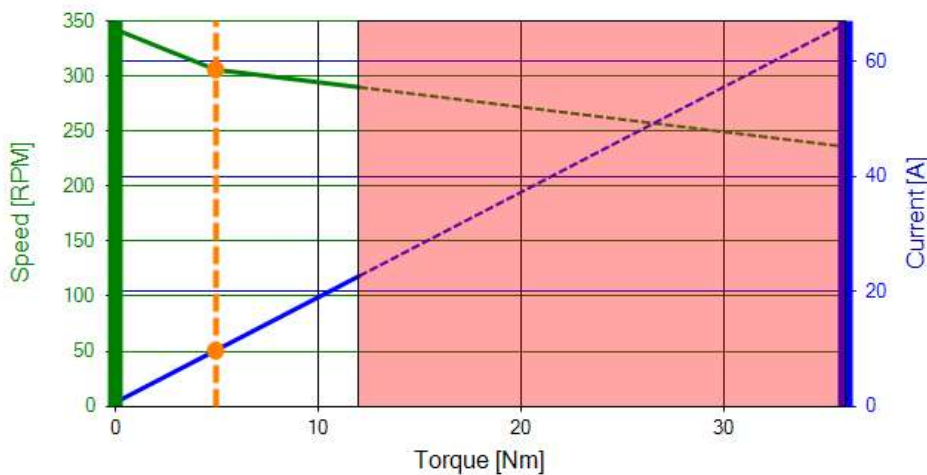
Motor

Name: EC-i 52
 Typ: EC
 Voltage: 24V
 Power: 180W
 IP code: IP40
 Manufacturer: Maxon Motor
 Part number: 574741
 Weight: 0.82kg
 Nominal torque: 0.44Nm
 Nominal speed: 4200RPM
 Nominal current: 9.7A
 Stall current: 258A
 No load speed: 4700RPM
 Torque constant: 0.048 Nm/A
 Speed constant: 0.0026 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



--- Motor Nominal Load
 Gearhead overload range.
 Limit the motor current to a maximum of 23A in order to prevent damage to the gearhead.

All values with the following restrictions:
 Ambient temperature static 20°C.
 Gearhead with constant efficiency.

No-load Operation

Torque: 0Nm
 Speed: 342RPM
 Current: 0.71A

Motor Nominal Load

Torque: 4.9Nm
 Speed: 306RPM
 Current: 9.7A

Gearhead Nominal Load

Torque: 12Nm
 Speed: 290RPM
 Current: 23A

Limit the motor current to a maximum of 23A in order to prevent damage to the gearhead.

Stall

Torque: 141Nm
 Speed: 0RPM
 Current: 258A

Limit the motor current to a maximum of 23A in order to prevent damage to the gearhead.