Gear-Motor-Specifications

HILBA-drive including:

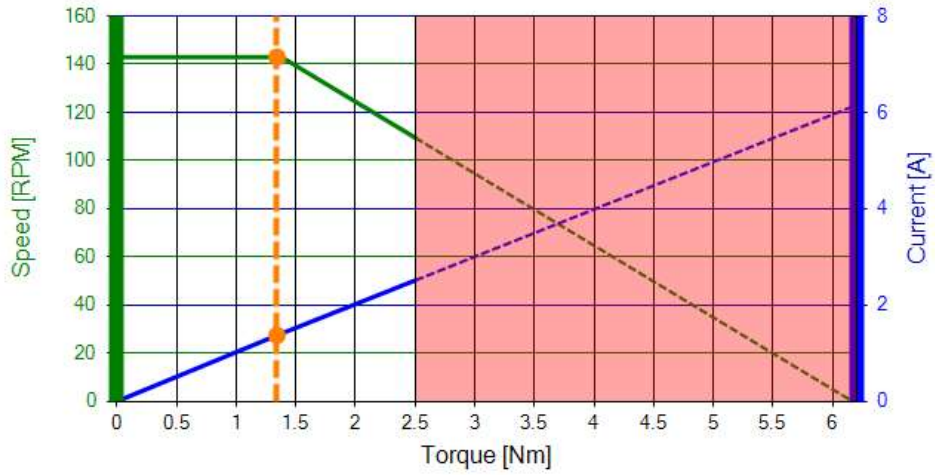
Motor

Name: A-max 32
Typ: DC
Voltage: 24V
Power: 20W
IP code: IP24
Manufacturer: Maxon Motor
Part number: 236662
Weight: 0.24kg
Nominal torque: 0.047Nm
Nominal speed: 5040RPM
Nominal current: 1.4A
Stall current: 6.1A
No load speed: 6460RPM
Torque constant: 0.035 Nm/A
Speed constant: 0.00003 Nm/RPM

Gearhead

Name: PI32
Typ: Planetengetriebe
IP code: IP54
Ambient temperature range: -30°C bis +90°C
Reduction: 34.97:1
Efficiency: 0.82
Weight: 0.38kg
Nominal torque: 2.5Nm
Maximal speed: 5000RPM
Backlash: 1.4°
Self-locking: No

Drive



Motor Nominal Load

Gearhead overload range. Limit the motor current to a maximum of 2.5A 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.

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

No-load Operation

Torque: 0.044Nm
Speed: 143RPM
Current: 0.043A

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

Motor Nominal Load

Torque: 1.3Nm
Speed: 143RPM
Current: 1.4A

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

Gearhead Nominal Load

Torque: 2.5Nm
Speed: 110RPM
Current: 2.5A

Limit the motor current to a maximum of 2.5A in order to prevent damage to the gearhead.

Stall

Torque: 6.2Nm
Speed: 0RPM
Current: 6.1A

Limit the motor current to a maximum of 2.5A in order to prevent damage to the gearhead.