Gear-Motor-Specifications

HILBA-drive including:

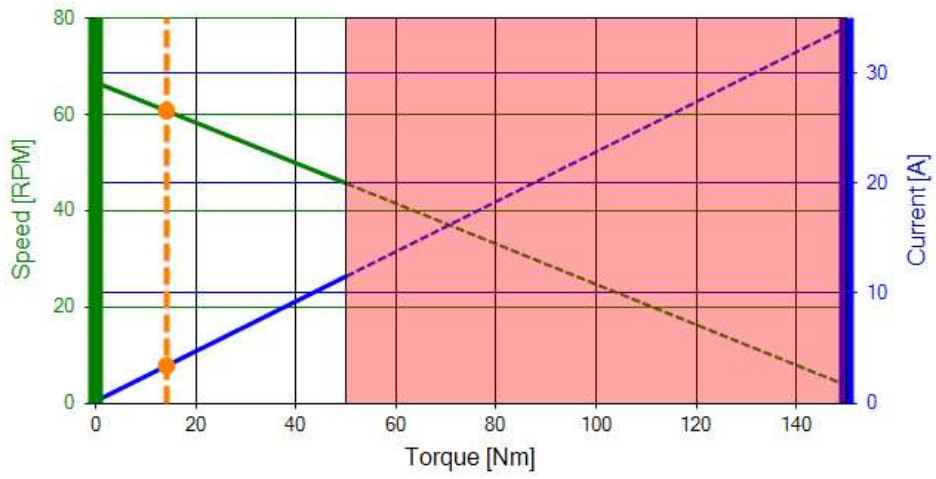
Motor

Name: GR63SX55
Typ: DC
Voltage: 40V
Power: 126W
IP code: IP50
Manufacturer: Dunkermotoren
Part number:
Weight: 1.7kg
Nominal torque: 0.32Nm
Nominal speed: 3575RPM
Nominal current: 3.4A
Stall current: 36A
No load speed: 3900RPM
Torque constant: 0.10 Nm/A
Speed constant: 0.00092 Nm/RPM

Gearhead

Name: PI62
Typ: Planetengetriebe
IP code: IP54
Ambient temperature range: -30°C bis +90°C
Reduction: 58.85:1
Efficiency: 0.75
Weight: 1.7kg
Nominal torque: 50Nm
Maximal speed: 5000RPM
Backlash: 2.1°
Self-locking: No

Drive



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

No-load Operation

Torque: 0.88Nm
Speed: 66RPM
Current: 0.40A

Motor Nominal Load

Torque: 14Nm
Speed: 61RPM
Current: 3.4A

Gearhead Nominal Load

Torque: 50Nm
Speed: 46RPM
Current: 12A

Limit the motor current to a maximum of 12A in order to prevent damage to the gearhead.

Stall

Torque: 159Nm
Speed: 0RPM
Current: 36A

Limit the motor current to a maximum of 12A in order to prevent damage to the gearhead.