Gear-Motor-Specifications

HILBA-drive including:

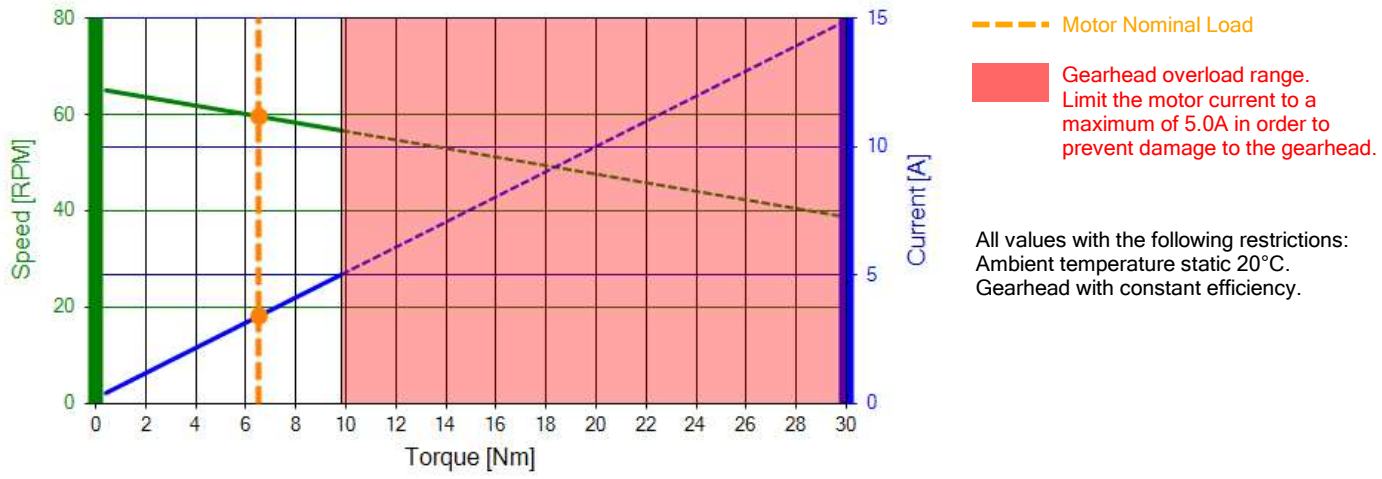
Motor

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: SN31
Typ: Schneckengetriebe
IP code: IP54
Ambient temperature range: -30°C bis +90°C
Reduction: 60:1
Efficiency: 0.34
Weight: 0.95kg
Nominal torque: 9.8Nm
Maximal speed: 5000RPM
Backlash: 0.7°
Self-locking: Yes

Drive



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

No-load Operation

Torque: 0.41Nm
Speed: 65RPM
Current: 0.40A

Motor Nominal Load

Torque: 6.5Nm
Speed: 60RPM
Current: 3.4A

Gearhead Nominal Load

Torque: 9.8Nm
Speed: 57RPM
Current: 5.0A

Limit the motor current to a maximum of 5.0A in order to prevent damage to the gearhead.

Stall

Torque: 73Nm
Speed: 0RPM
Current: 36A

Limit the motor current to a maximum of 5.0A in order to prevent damage to the gearhead.