Gear-Motor-Specifications

HILBA-drive including:

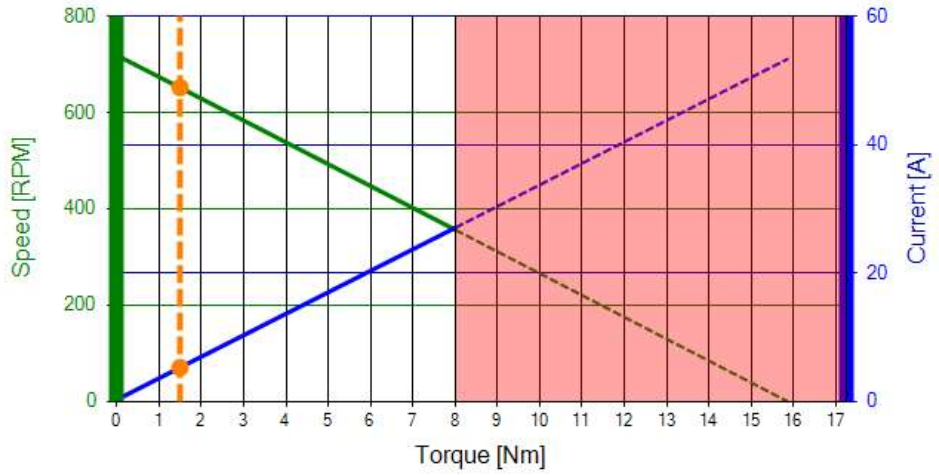
Motor

Name: GR63SX55
Typ: DC
Voltage: 24V
Power: 117W
IP code: IP50
Manufacturer: Dunkermotoren
Part number: 88441.05190
Weight: 1.7kg
Nominal torque: 0.32Nm
Nominal speed: 3375RPM
Nominal current: 5.3A
Stall current: 53A
No load speed: 3700RPM
Torque constant: 0.064 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: 5.18:1
Efficiency: 0.9
Weight: 1.1kg
Nominal torque: 8.0Nm
Maximal speed: 5000RPM
Backlash: 0.7°
Self-locking: No

Drive



Motor Nominal Load

Gearhead overload range. Limit the motor current to a maximum of 27A 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: 0.093Nm
Speed: 714RPM
Current: 0.56A

Motor Nominal Load

Torque: 1.5Nm
Speed: 652RPM
Current: 5.3A

Gearhead Nominal Load

Torque: 8.0Nm
Speed: 356RPM
Current: 27A

Limit the motor current to a maximum of 27A in order to prevent damage to the gearhead.

Stall

Torque: 16Nm
Speed: 0RPM
Current: 53A

Limit the motor current to a maximum of 27A in order to prevent damage to the gearhead.