

# Gear-Motor-Specifications

HILBA-drive including:

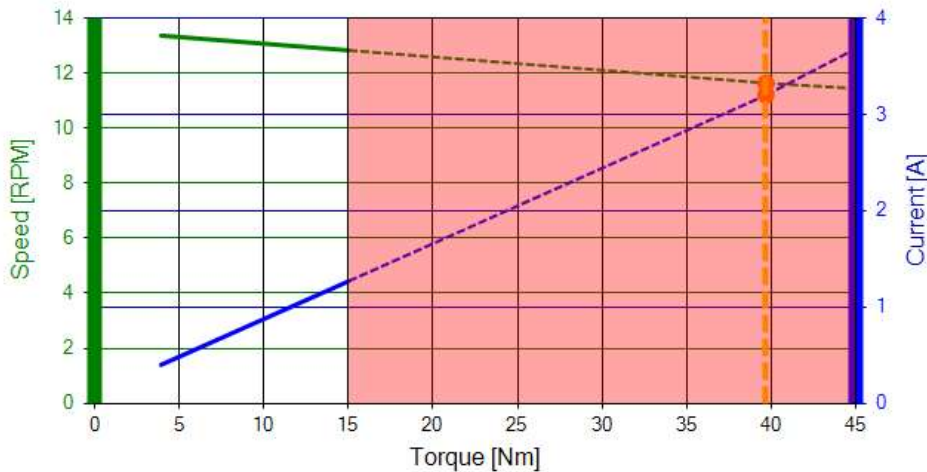
## Motor

Name: BG42X30  
 Typ: EC  
 Voltage: 24V  
 Power: 156W  
 IP code: IP40  
 Manufacturer: Dunkermotoren  
 Part number: 88542.02000  
 Weight: 0.47kg  
 Nominal torque: 0.17Nm  
 Nominal speed: 3580RPM  
 Nominal current: 3.2A  
 Stall current: 31A  
 No load speed: 4110RPM  
 Torque constant: 0.059 Nm/A  
 Speed constant: 0.00035 Nm/RPM

## Gearhead

Name: PI42  
 Typ: Planetengetriebe  
 IP code: IP54  
 Ambient temperature range: -30°C bis +90°C  
 Reduction: 307.54:1  
 Efficiency: 0.75  
 Weight: 0.6kg  
 Nominal torque: 15Nm  
 Maximal speed: 5000RPM  
 Backlash: 2.1°  
 Self-locking: No

## Drive



--- Motor Nominal Load  
 Gearhead overload range. Limit the motor current to a maximum of 1.3A 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: 3.9Nm  
 Speed: 13RPM  
 Current: 0.40A

### Motor Nominal Load

Torque: 40Nm  
 Speed: 12RPM  
 Current: 3.2A

Limit the motor current to a maximum of 1.3A in order to prevent damage to the gearhead.

### Gearhead Nominal Load

Torque: 15Nm  
 Speed: 13RPM  
 Current: 1.3A

Limit the motor current to a maximum of 1.3A in order to prevent damage to the gearhead.

### Stall

Torque: 351Nm  
 Speed: 0RPM  
 Current: 31A

Limit the motor current to a maximum of 1.3A in order to prevent damage to the gearhead.