

# Gear-Motor-Specifications

HILBA-drive including:

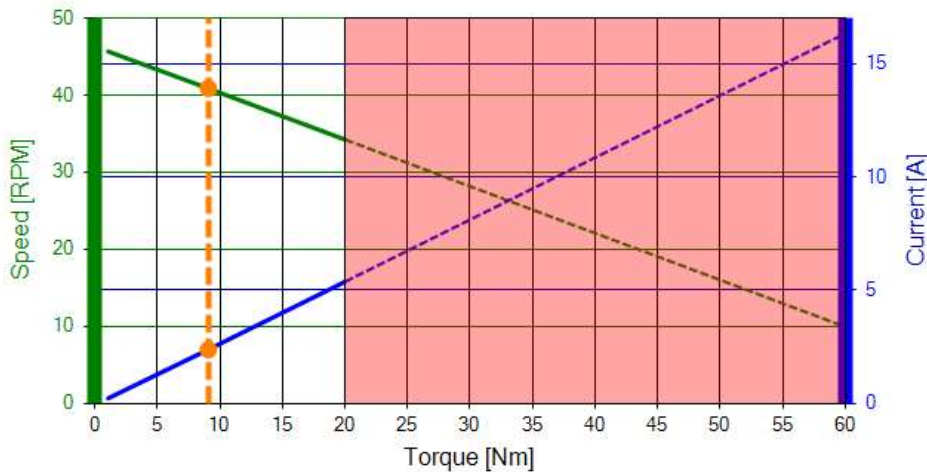
## Motor

Name: GR53X58  
 Typ: DC  
 Voltage: 24V  
 Power: 53.4W  
 IP code: IP50  
 Manufacturer: Dunkermotoren  
 Part number: 88437.02004  
 Weight: 1.16kg  
 Nominal torque: 0.17Nm  
 Nominal speed: 2909RPM  
 Nominal current: 2.4A  
 Stall current: 21A  
 No load speed: 3250RPM  
 Torque constant: 0.070 Nm/A  
 Speed constant: 0.00044 Nm/RPM

## Gearhead

Name: PI52  
 Typ: Planetengetriebe  
 IP code: IP54  
 Ambient temperature range: -30°C bis +90°C  
 Reduction: 71.16:1  
 Efficiency: 0.75  
 Weight: 0.45kg  
 Nominal torque: 20Nm  
 Maximal speed: 5000RPM  
 Backlash: 2.1°  
 Self-locking: No

## Drive



--- Motor Nominal Load

**Gearhead overload range.**  
 Limit the motor current to a maximum of 5.4A 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: 1.1Nm  
 Speed: 46RPM  
 Current: 0.22A

### Motor Nominal Load

Torque: 9.1Nm  
 Speed: 41RPM  
 Current: 2.4A

### Gearhead Nominal Load

Torque: 20Nm  
 Speed: 34RPM  
 Current: 5.4A

### Stall

Torque: 76Nm  
 Speed: 0RPM  
 Current: 21A

Limit the motor current to a maximum of 5.4A in order to prevent damage to the gearhead.

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