

# Gear-Motor-Specifications

HILBA-drive including:

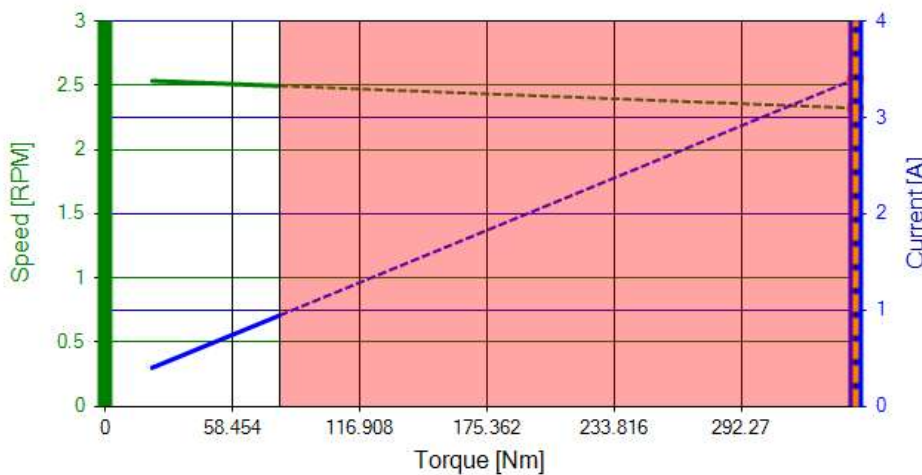
## Motor

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: PH62  
 Typ: Planetengetriebe  
 IP code: IP54  
 Ambient temperature range: -30°C bis +90°C  
 Reduction: 1539:1  
 Efficiency: 0.7  
 Weight: 2.1kg  
 Nominal torque: 80Nm  
 Maximal speed: 5000RPM  
 Backlash: 2.8°  
 Self-locking: No

## Drive



--- Motor Nominal Load  
 Gearhead overload range.  
 Limit the motor current to a maximum of 0.94A 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: 22Nm  
 Speed: 2.5RPM  
 Current: 0.40A

### Motor Nominal Load

Torque: 345Nm  
 Speed: 2.3RPM  
 Current: 3.4A

Limit the motor current to a maximum of 0.94A in order to prevent damage to the gearhead.

### Gearhead Nominal Load

Torque: 80Nm  
 Speed: 2.5RPM  
 Current: 0.94A

Limit the motor current to a maximum of 0.94A in order to prevent damage to the gearhead.

### Stall

Torque: 3878Nm  
 Speed: 0RPM  
 Current: 36A

Limit the motor current to a maximum of 0.94A in order to prevent damage to the gearhead.