

Ultraflat Brushless Motor BLDC UF1



Field of application

- Positioning drive
- Mechanical engineering
- Precision and opto mechanics
- Woodworking machines
- Surface processing
- Special applications

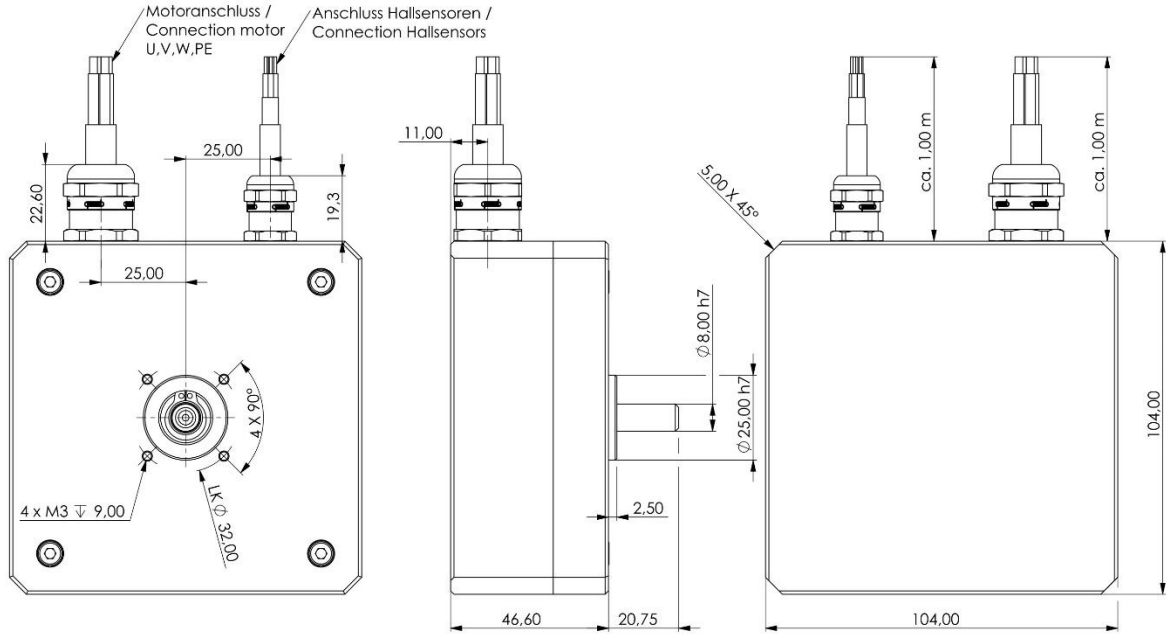
Advantages and properties

- High-pole, thus exact positioning
- 10° angle resolution for hallsensors
- Lowest cogging
- Maintenance free
- Hardwearing and durable
- Extremely compact construction
- Special solutions on request

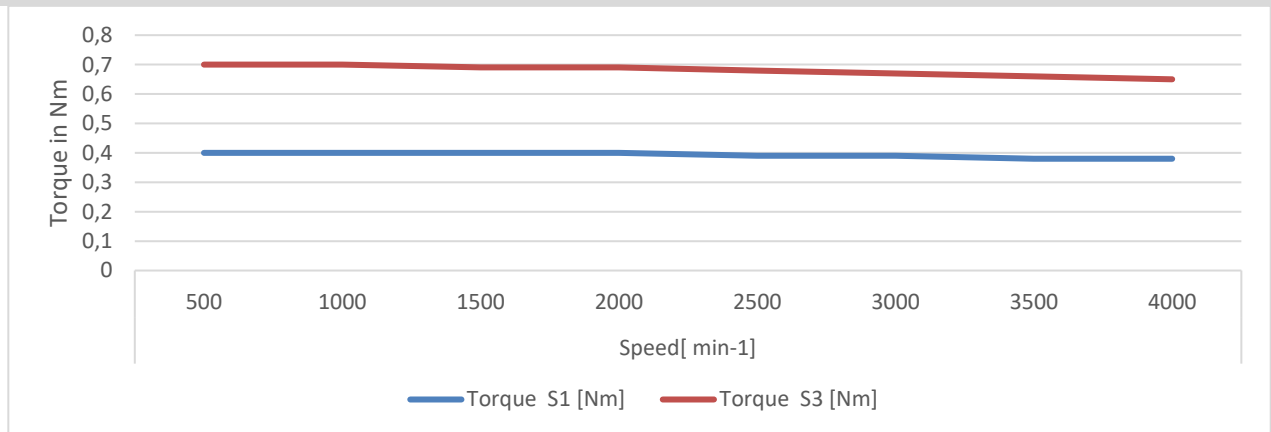
| Standard | Options |
|--|---|
| <ul style="list-style-type: none"> • Black housing • 1m cable • IP 52 | <ul style="list-style-type: none"> • Gear • Integrated hallsensor • Integrated electronics • Div. encoders • Connector • Higher IP protection |

| Data | Unit | BLDC UF1 |
|----------------------|------------------------------------|----------|
| Power rated (S1) | W | 150 |
| Nominal voltage | V | 24 |
| Rated torque (S1) | Nm | 0,4 |
| Peak torque (S3) | Nm | 0,7 |
| Rated speed | min ⁻¹ | 4000 |
| Rated current | A | 6 |
| Peak current | A | 14 |
| Torque constant | Nm/A | 0,066 |
| Rotor inertia moment | kgm ² x10 ⁻³ | 0,095 |
| Rotor inductance | mH | 300 |
| Terminal resistance | Ohm | 0,2 |
| Weight without brake | kg | 1,15 |

Drawing



Torque characteristic



Drawings and data are for customer information only. For specific indications a separate quote is to be required.

Kern Antriebstechnik GmbH is not responsible for possible errors in the data sheets.

Subject to technical modifications.

Depending on the controller and other attachments, the values and mechanical dimensions may differ.