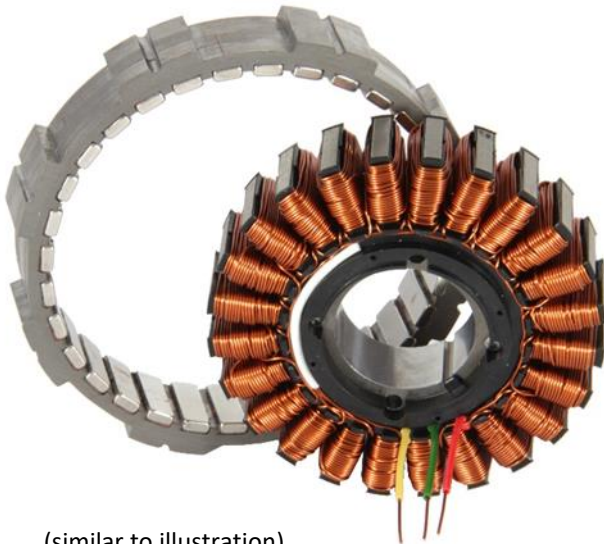


Direct Drive BLDC Outrunner



(similar to illustration)

Field of application

- Direct drive of wheels, roller conveyors, treadmills, turntables, pumps, ventilators, etc.
- High torque at low speed

Advantages and properties

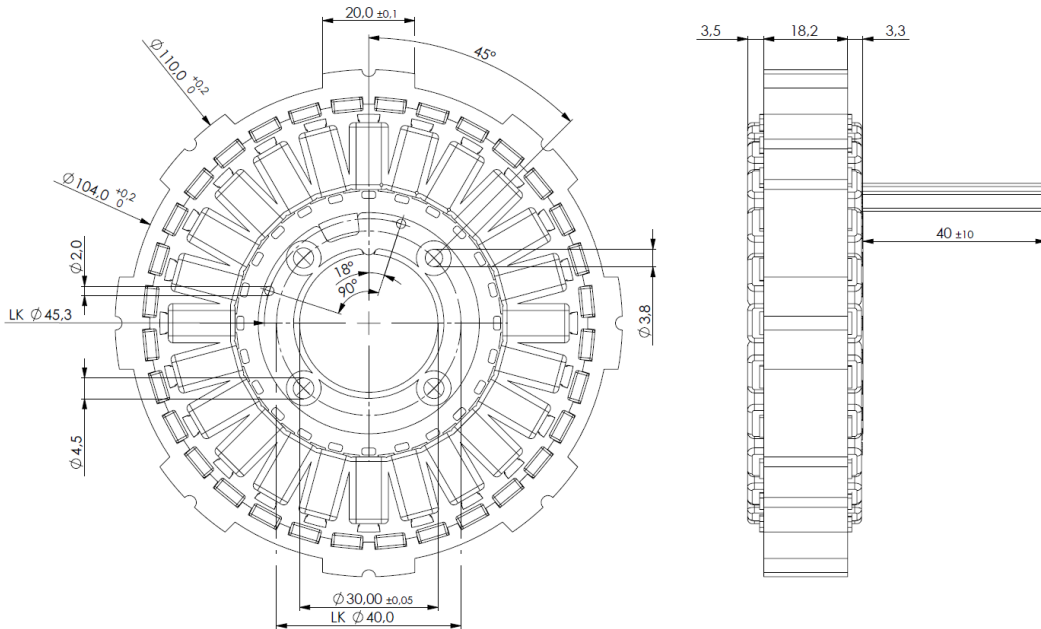
- High-pole, thus exact positioning
- Extremely compact construction
- Special solutions on request
- Low cogging torque

Standard	Options
<ul style="list-style-type: none"> • Rotor and Stator as component 	<ul style="list-style-type: none"> • Customized bearings and housings • Wires or cables for connection • Sensors and feedback systems

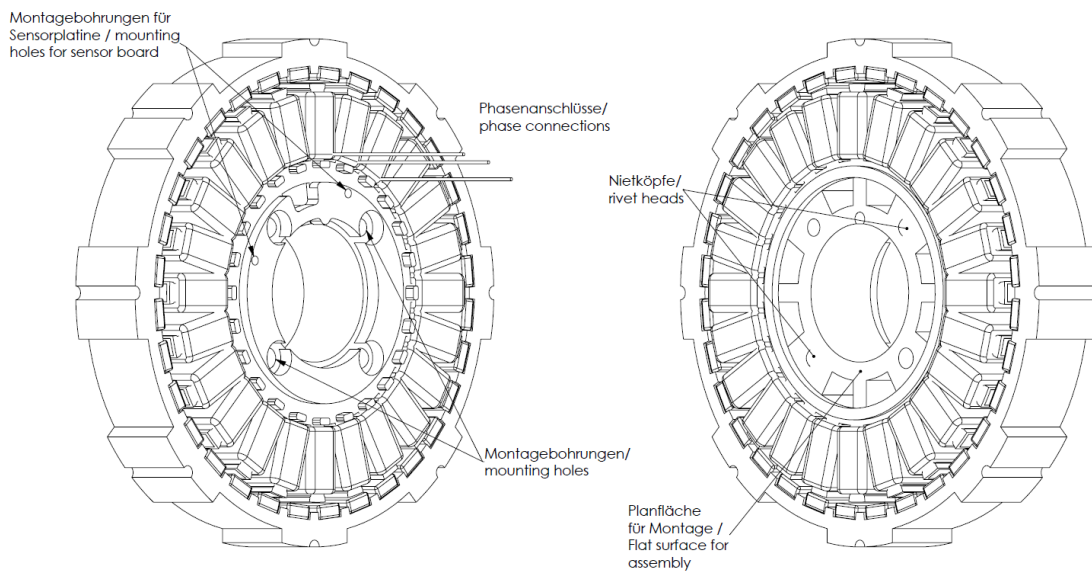
Motor Data	Unit	Direct Drive BLDC	
Nominal voltage	V	24	48
Rated speed	min ⁻¹	200 ^[1]	500 ^[1]
Rated torque (S1-operation)	Nm	2 ^[1]	2 ^[1]
Rated current (S1-operation)	A	4 ^[1]	4 ^[1]
Terminal resistance phase-phase	Ω	2,3	2,3
Terminal inductance phase-phase	mH	4	4
Torque constants	Nm/A	0,5	0,5
Rotor moment of inertia	kgm ² x10 ⁻³	0,718	0,718
Weight (rotor + stator)	kg	0,855	0,855

^[1] Measured with sensors and feedback systems. Performance data can vary with sensorless operation.

Drawing (without feedback systems)



Installation note



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.