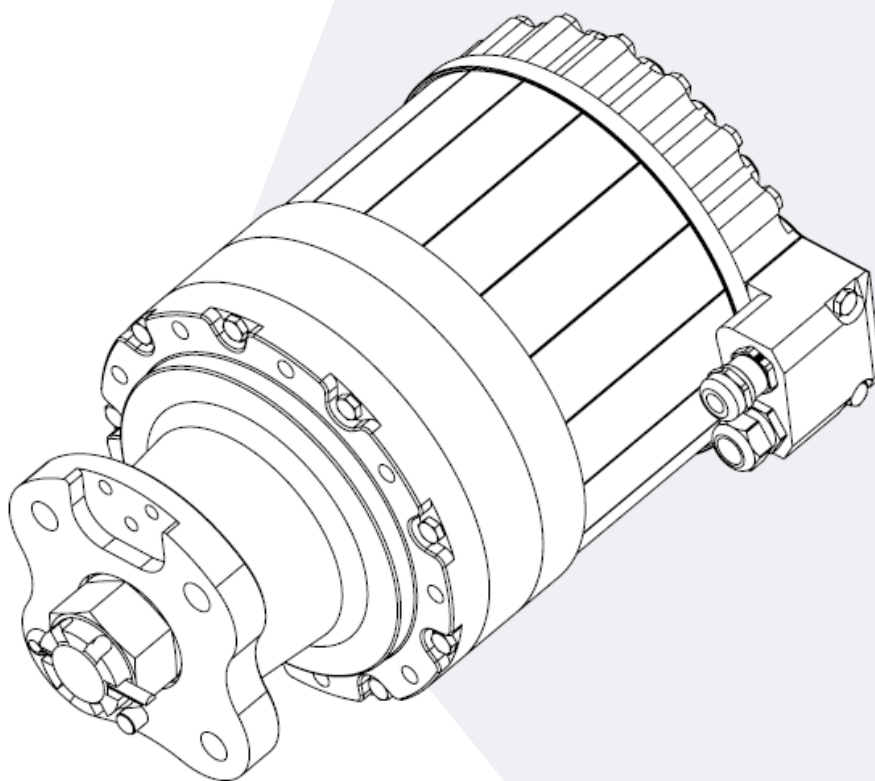


Electric Drive TDD-200



Datasheet v2019.09_00

Performance Characteristics

General Information

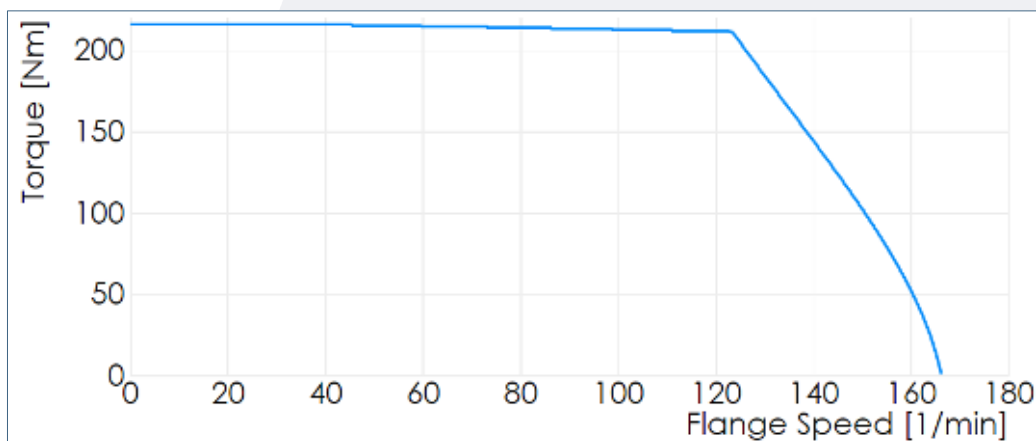
Ambient Temperature	-20°C to 25°C*
Insulation Class EN 60034-1	F(155°C)
Enclosure Type DIN EN 60529	IP67 (Connector Mated) IP69k optional

*Derating for higher Temperatures

Drive

Engine Type	Permanentmagnet-Synchronous
Number of Poles	6
Reducer Ratio	5.7
Weight	50kg
Peak Torque(flange)	385 Nm
Peak Current (rms)	60 Arms
Continuous Torque @ 60 1/min (flange)	215 Nm
Continuous Current @ 60 1/min (rms, flange)	31.8 Arms
Maximum Speed @ 96 V	1661/min
Torque Constant @ Flange	6.55 Nm / Arms
Torque Constant @ motor shaft	1.19 Nm / Arms
Back EMF Constant (Line to Line, peak, rpm @ motor shaft)	101.3 V / 1000 min ⁻¹
Electrical Resistance (Rs) @ 25°C	8 mΩ
Electrical Inductance @ 1kHz (L _q /L _d)	1.6 mH/1.3 mH

Performance @96VDC, Continuous



Feedback

Temperature Sensor

Sensor-Type	PT 1000
-------------	---------

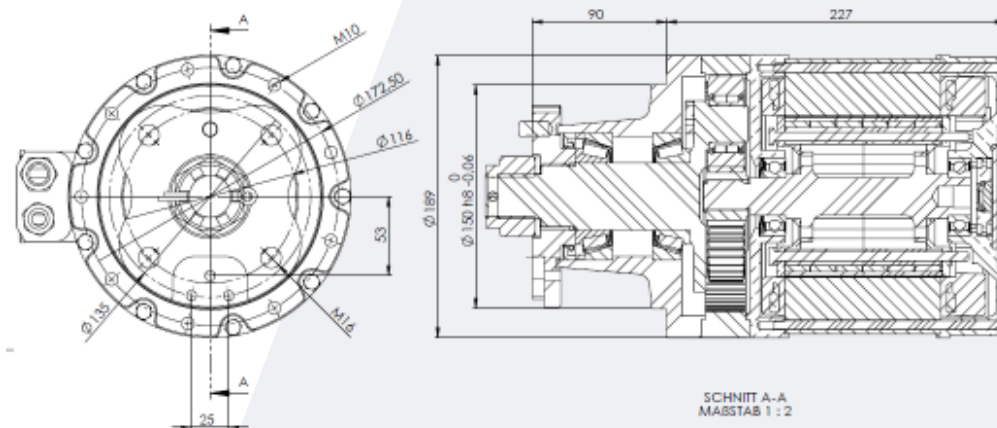
Angle Sensor

-SIN/COS (standard)

Sensor-Type	SIN/COS-Encoder
Power Supply (V_{dd})	5V +/-5%
Power Consumption	20mA
Output Amplitude	1.1 +/-0.2V _{pp}
Output Offset	$V_{dd}/2$ +/- 5mV
Internal serial Impedance	720Ω

Dimensions and Load

Dimensions



Bearing

F _{DYN}	2x98700N
F _{STAT}	2x98000N
Type	32209

Connections

Power connections

Cable-size	3x6mm ²		
Cable Dia.			
Included			

Signal Connections (SIN/COS)

Cable-size			
Cable Dia.			
Included			