

AXXIM 2



BEYOND >

PRODUCT DATA SHEET

Overview

With unmatched continuous power and torque density, our next-generation axial flux technology is the best choice for the automotive, marine, heavy machinery, and aerospace EVs of the future.

Why Beyond Motors?

1

SUPERIOR STRENGTH AND DURABILITY

Engineered to cope with high mechanical loads and work in the most robust applications.

2

UNMATCHABLE CONTINUOUS POWER DENSITY

The best continuous power-to-weight ratio on the market.

3

PATENT PENDING WATER COOLING SYSTEM

High heat extraction from the motor enables high efficiency, high continuous power and torque.

4

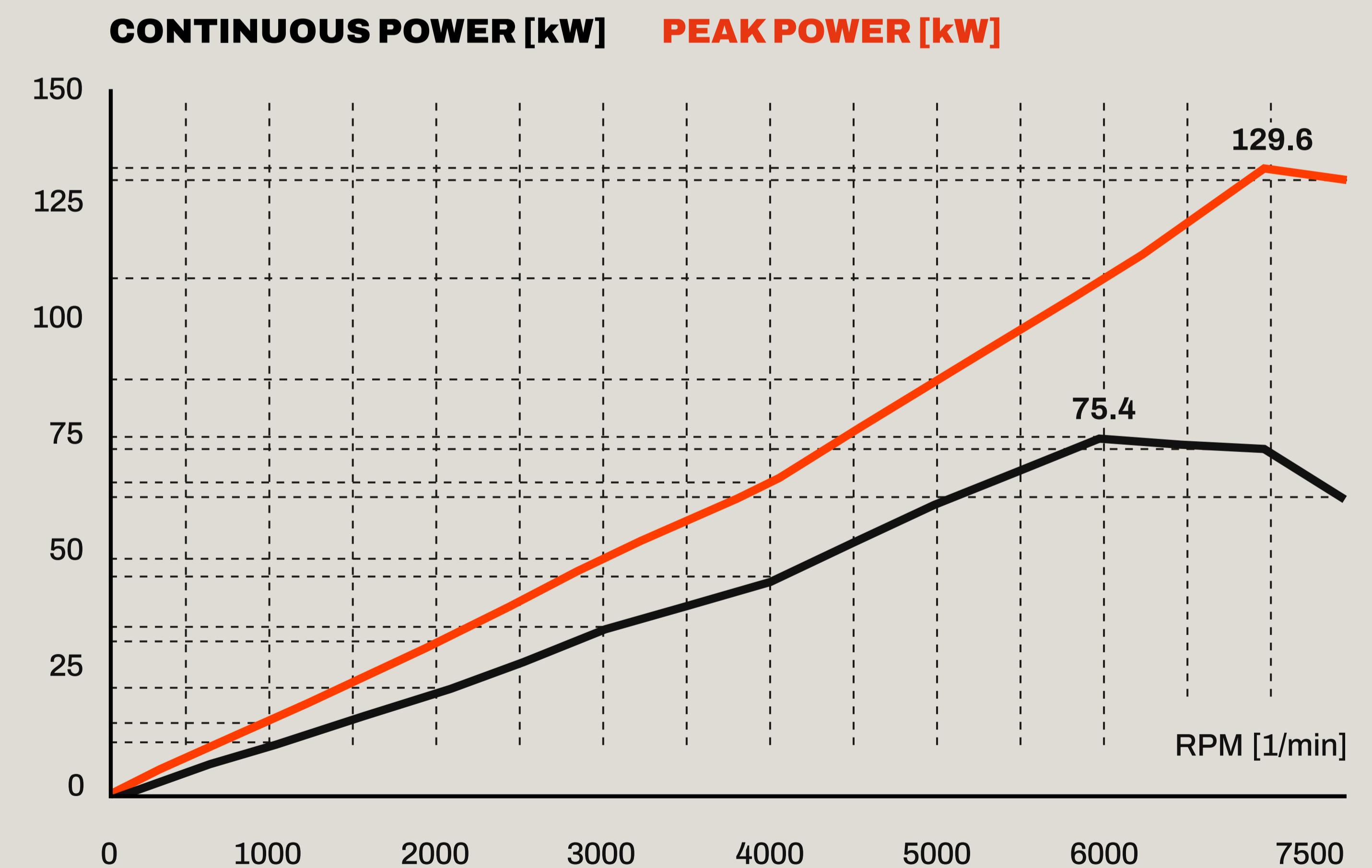
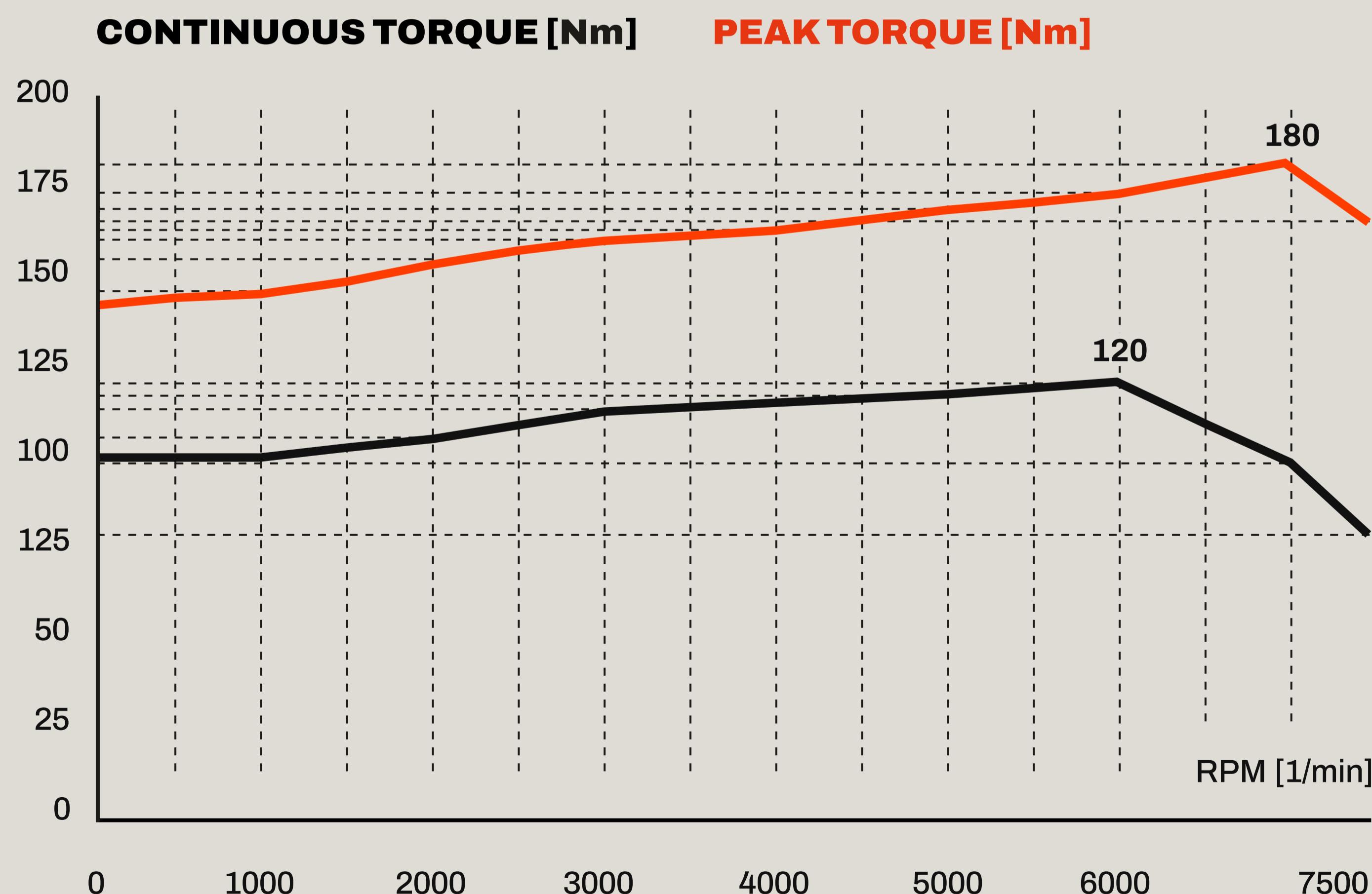
STACKABLE DESIGN FOR UP TO 3 FULL MOTORS

Motor design offers a quick and simple solution to multiply the power up to 3 times with the same diameter.

Key Data Points

AXM2

Peak power	130 kW
Continuous power	75 kW
Peak torque	180 Nm
Continuous torque	120 Nm
Mass	14,5 kg
Stator cooling	Water cooling
Maximum speed	7500 RPM
Stacking option	Up to 3



All motors can be made with redundancy option - 2xUVW phase connectors. Phase connectors can be cable lugs (standard option) or EMI IP67 Amphenol connectors (additional option).

Extended Data Sheet

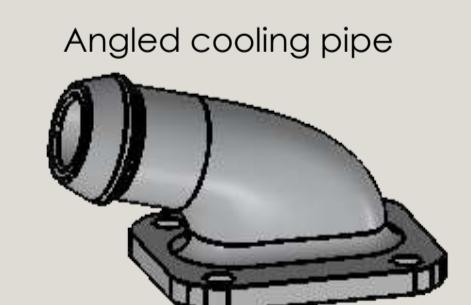
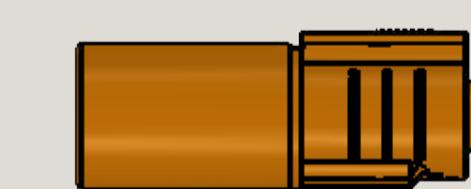
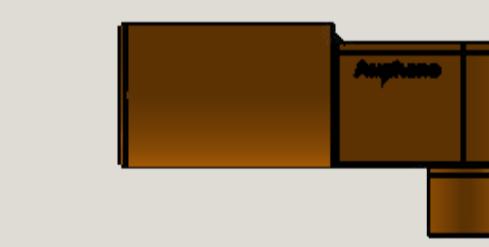
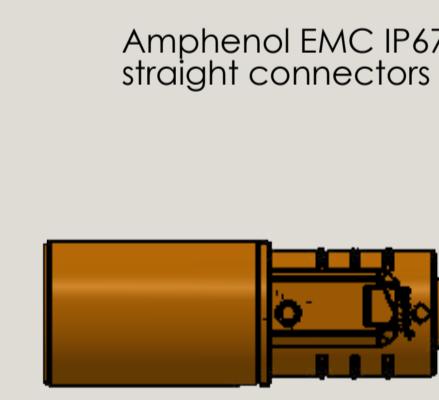
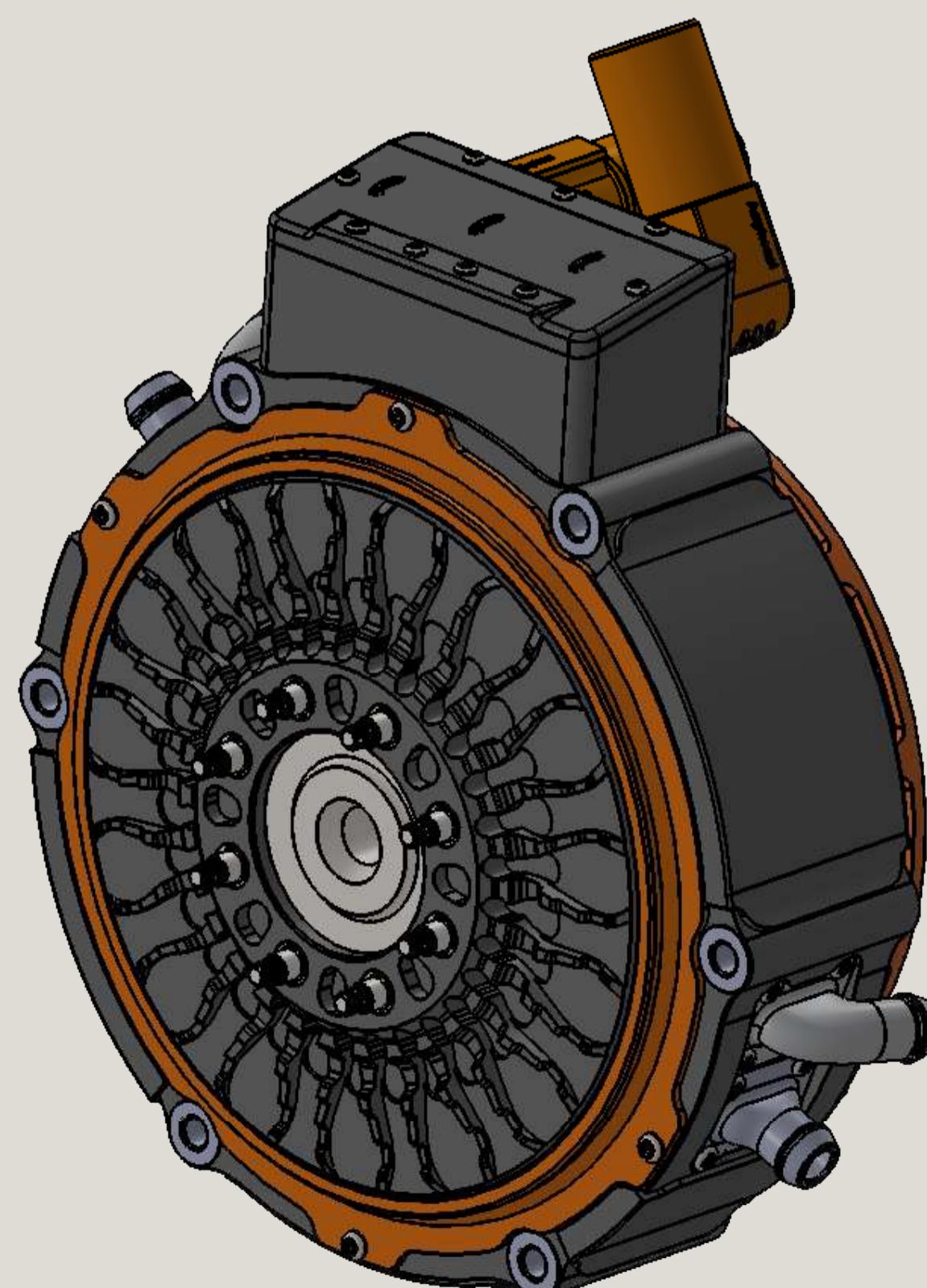
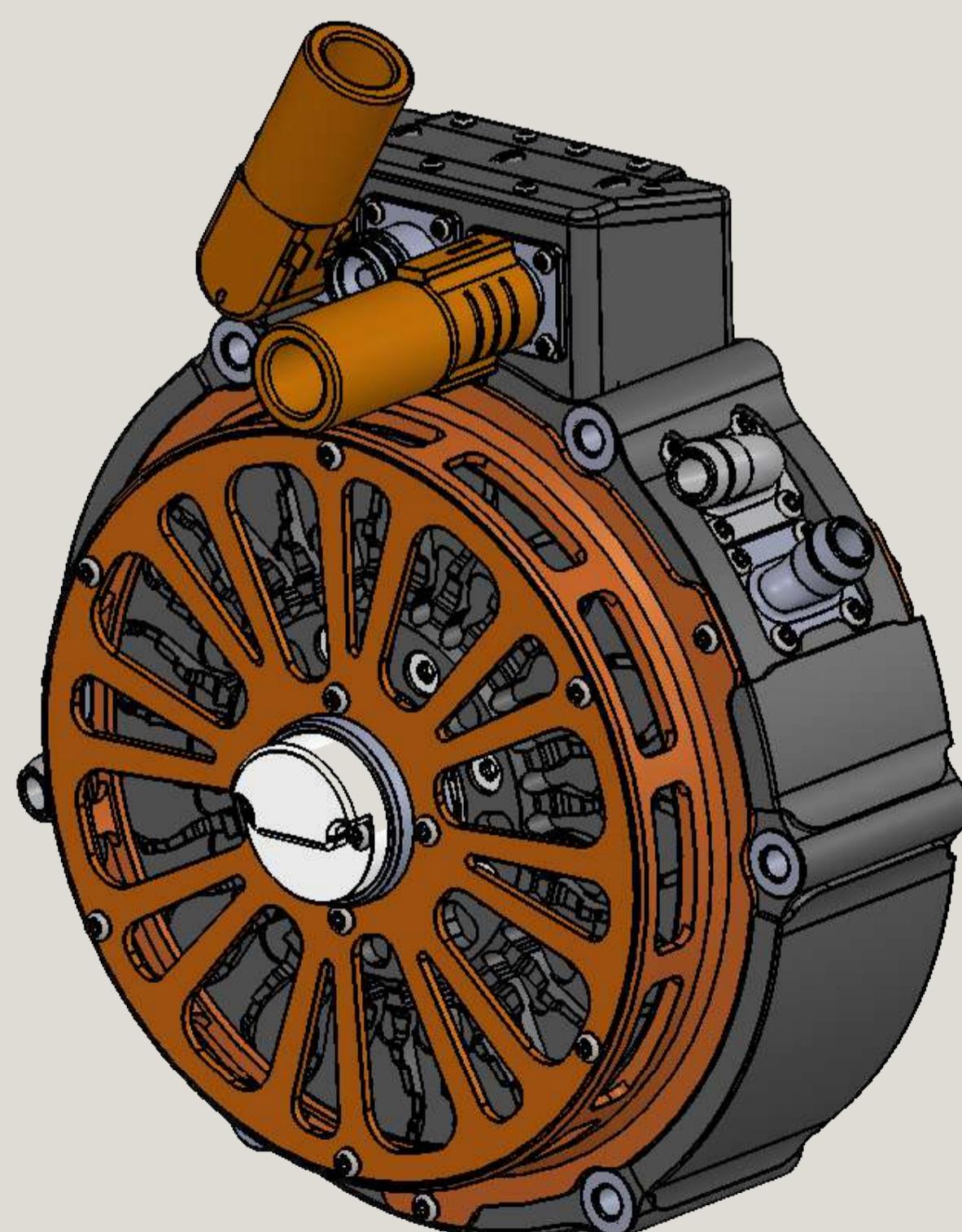
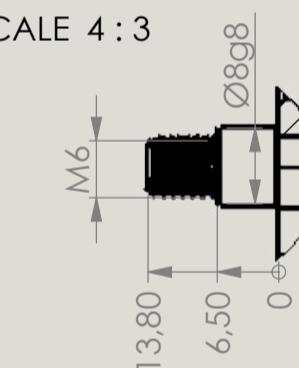
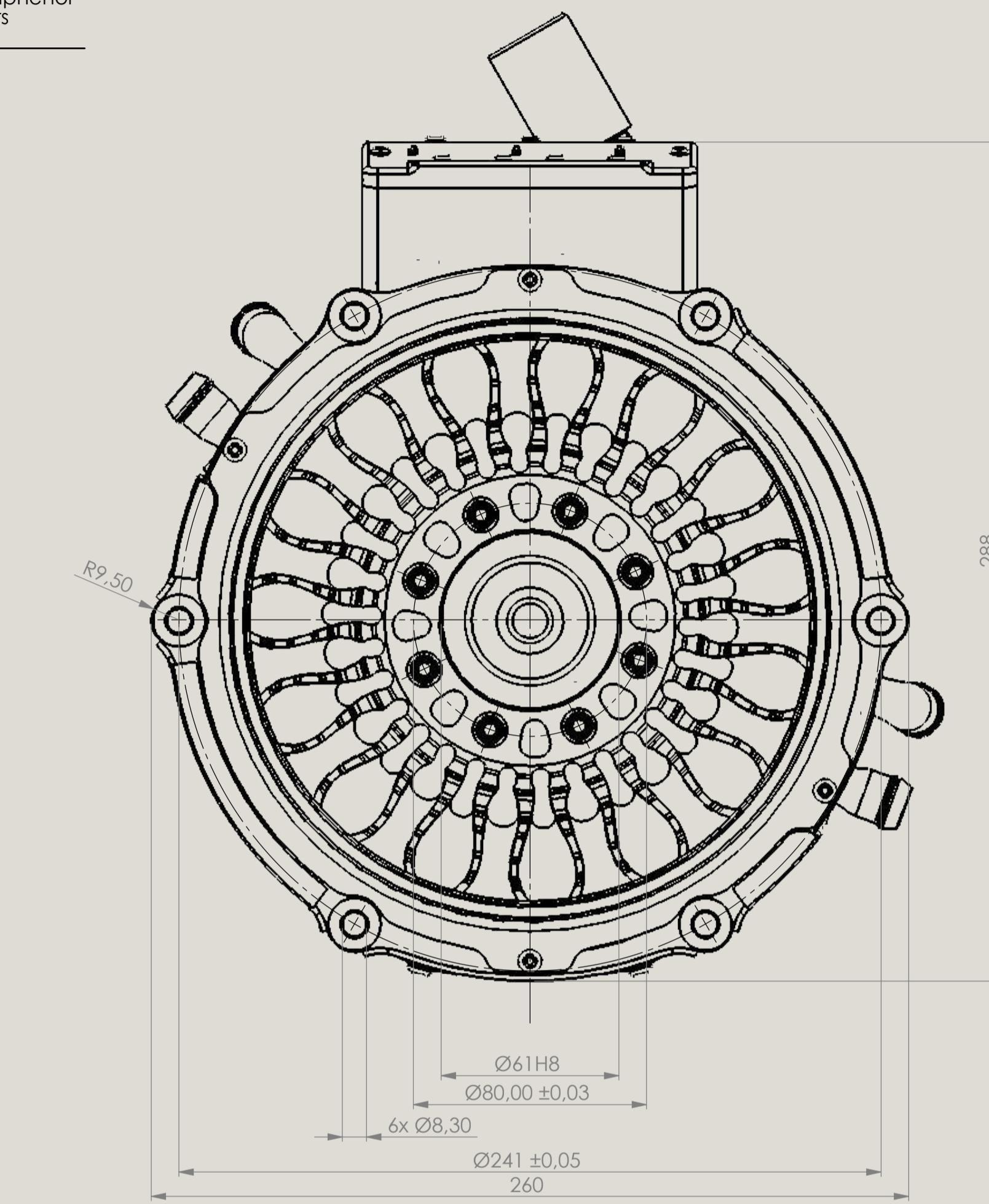
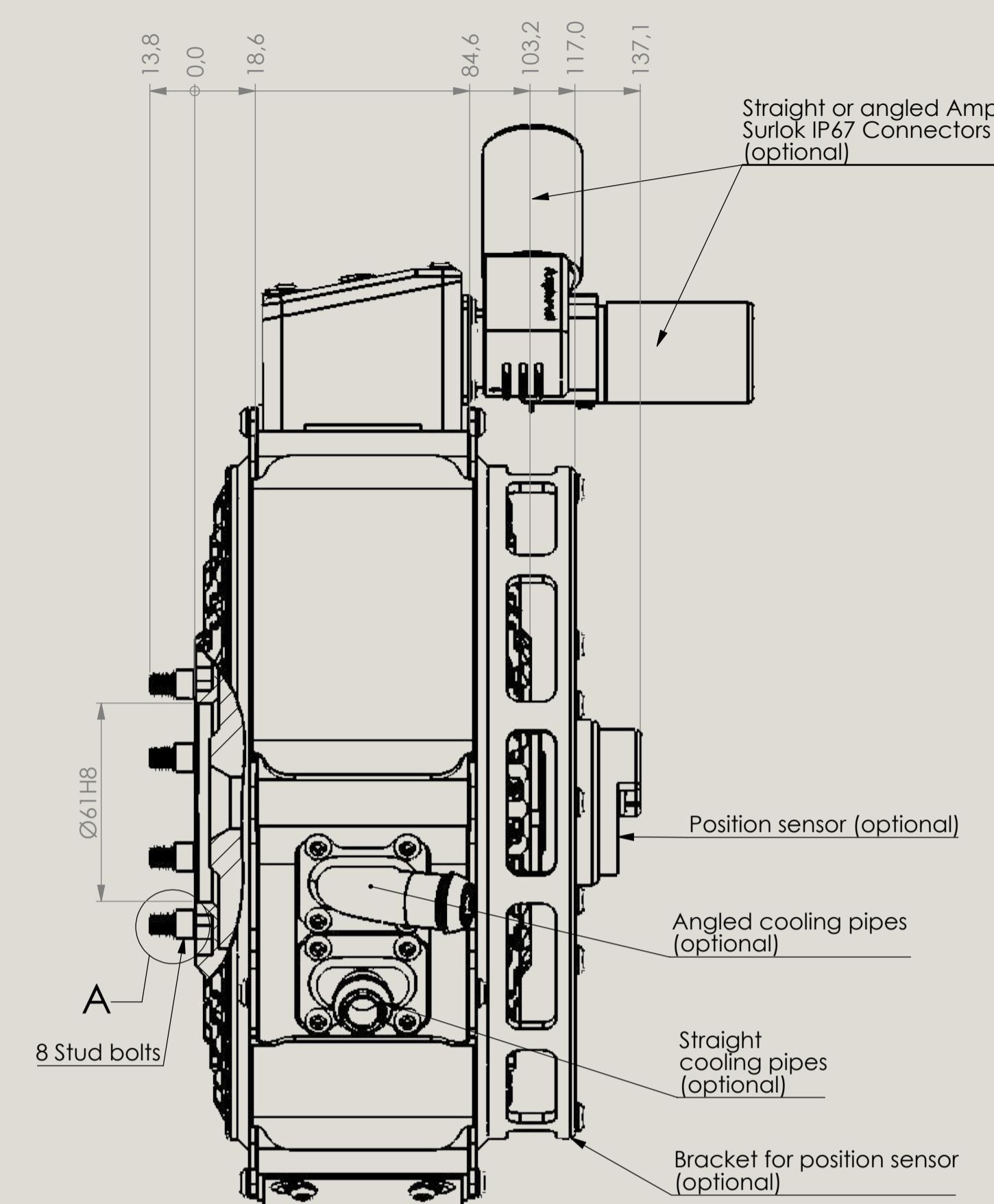
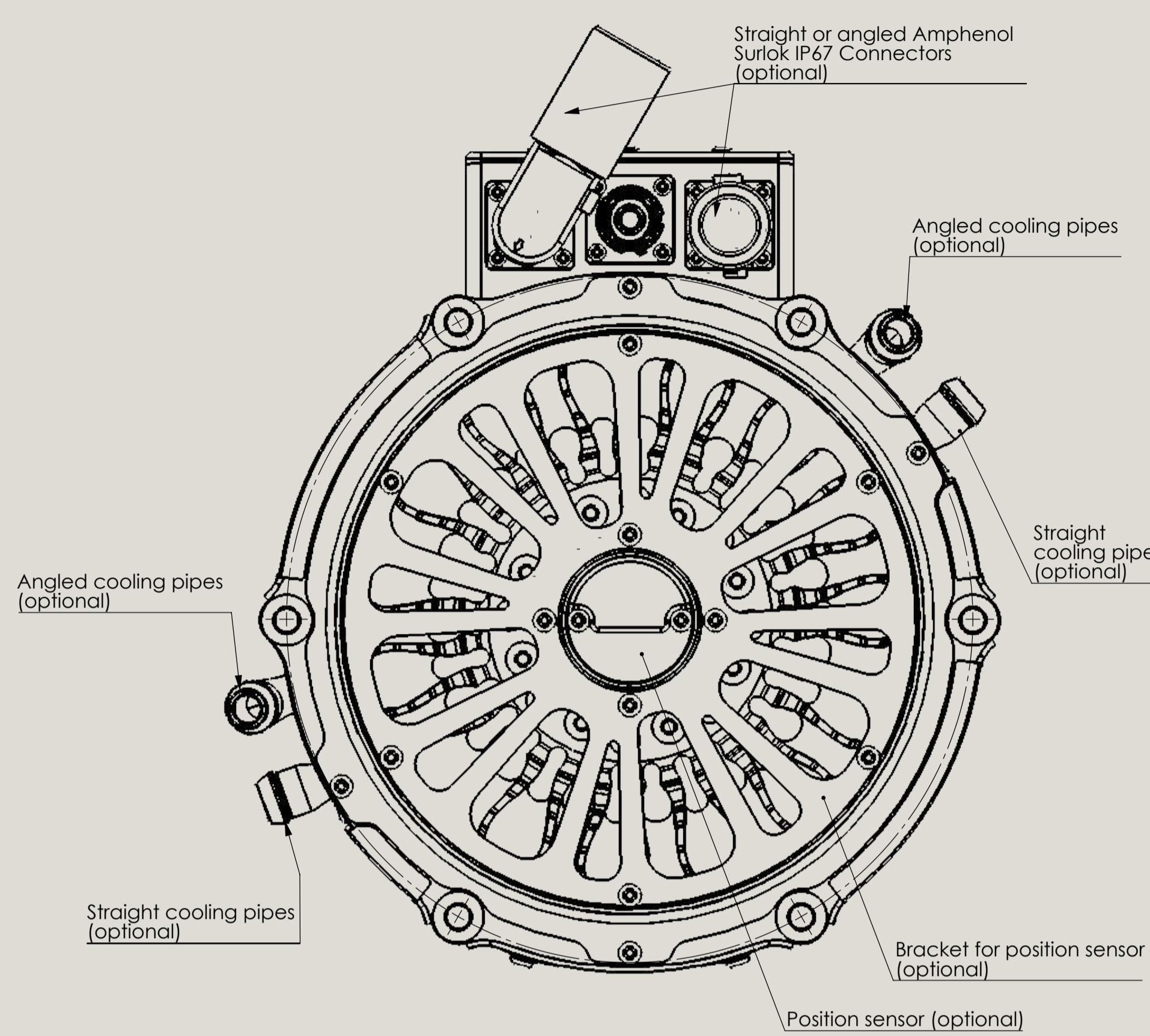
AXM2

Winding type	HIGH Voltage (850Vdc)	MEDIUM Voltage (550Vdc)	LOW Voltage (300Vdc)
Peak power	130 kW	130 kW	130 kW
Continuous power	75 kW	75 kW	75 kW
Peak torque	180 Nm	180 Nm	180 Nm
Continuous torque	120 Nm	120 Nm	120 Nm
Maximum motor speed	7500 RPM	7500 RPM	7500 RPM
Continuous motor speed	6000 RPM	6000 RPM	6000 RPM
Weight	14,5 kg	14,5 kg	14,5 kg
Kv at no load	8.8	17.6	33.6
Kv at continuous torque	7	14	26.7
Kv at peak torque	6.2	12.3	23.5
Torque constant	0,95 Nm/Arms	0,48 Nm/Arms	0,25 Nm/Arms
Motor type	3-phase AC PM Nm/Arms	3-phase AC PM Nm/Arms	3-phase AC PM Nm/Arms



Technical drawings

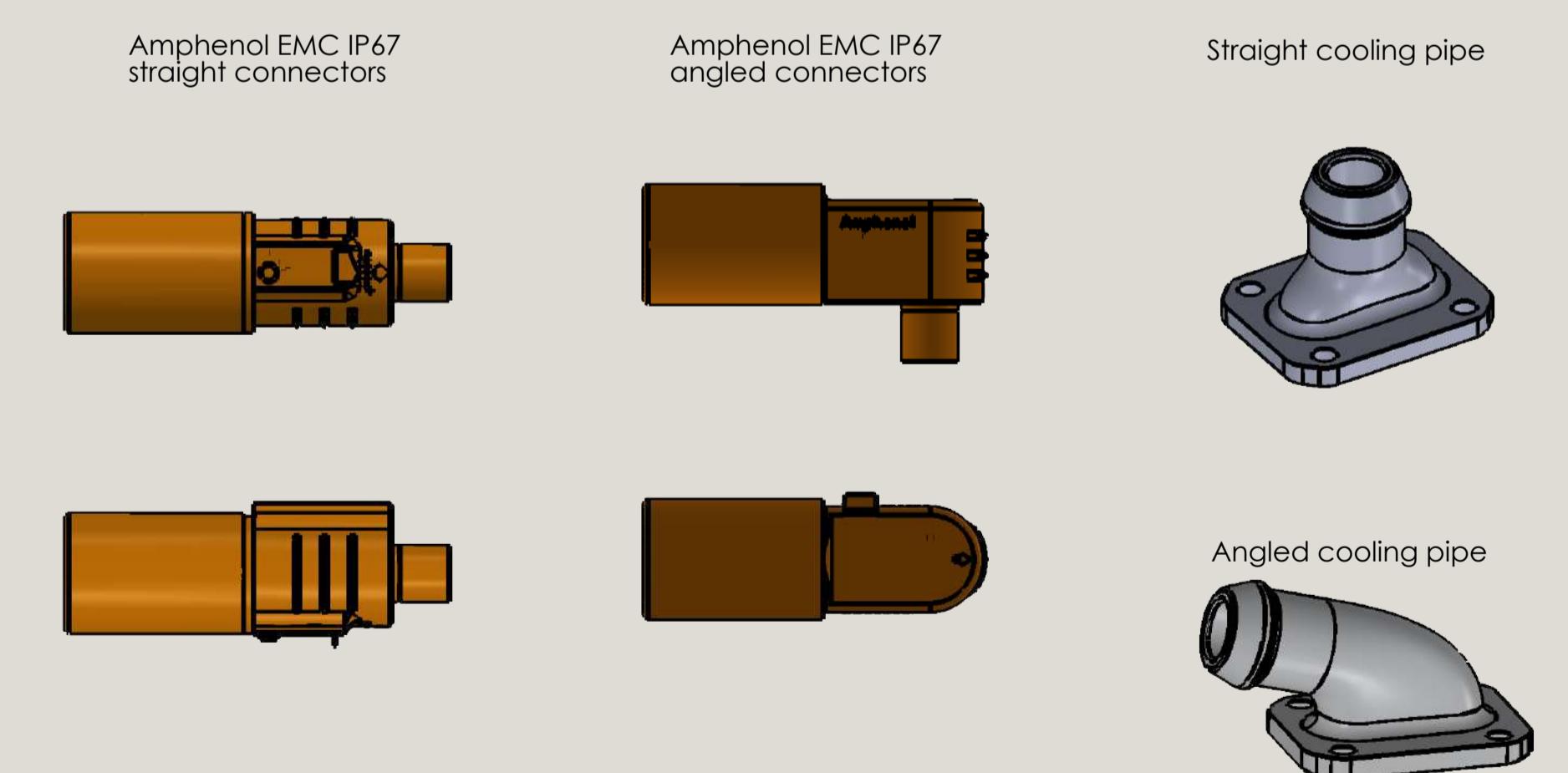
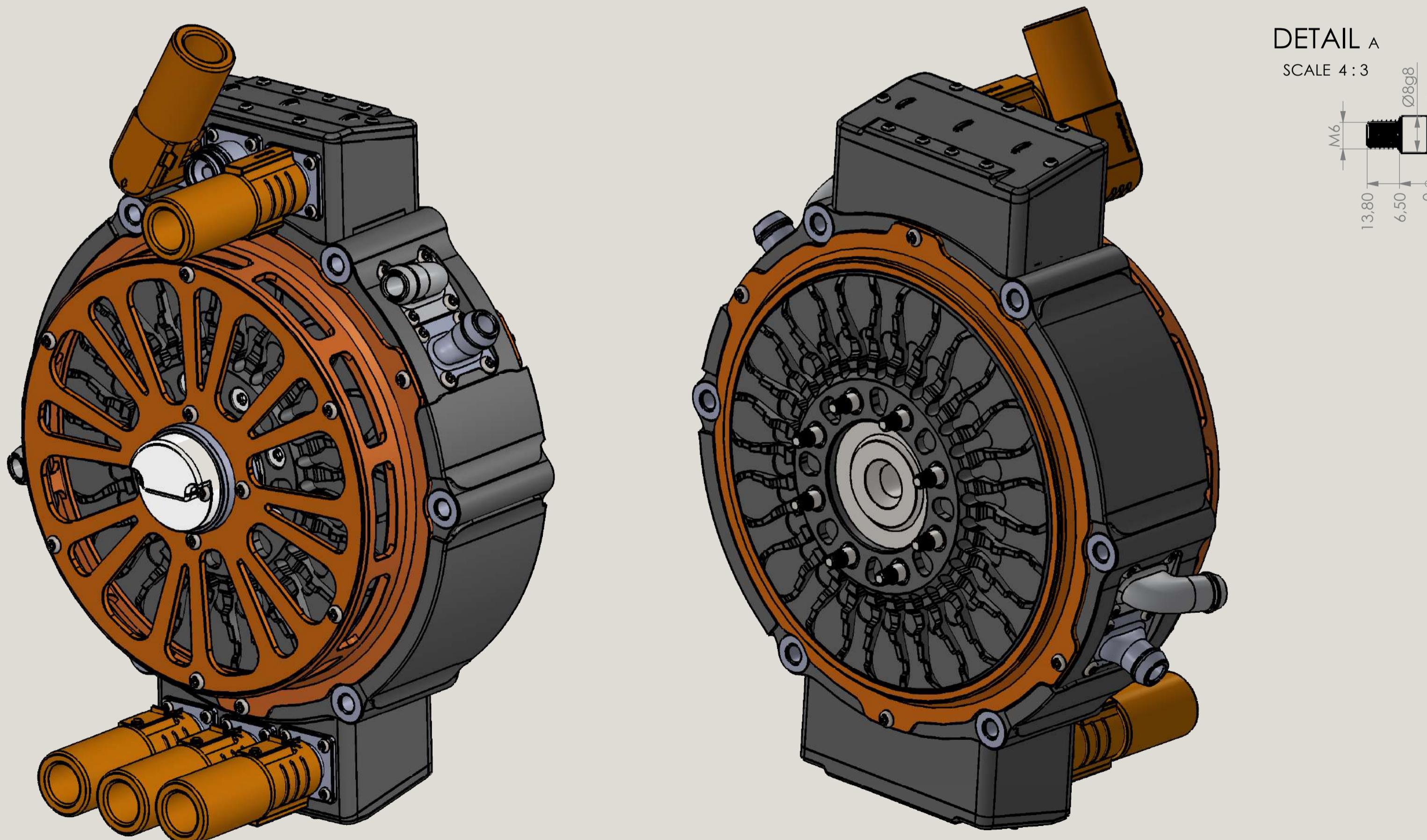
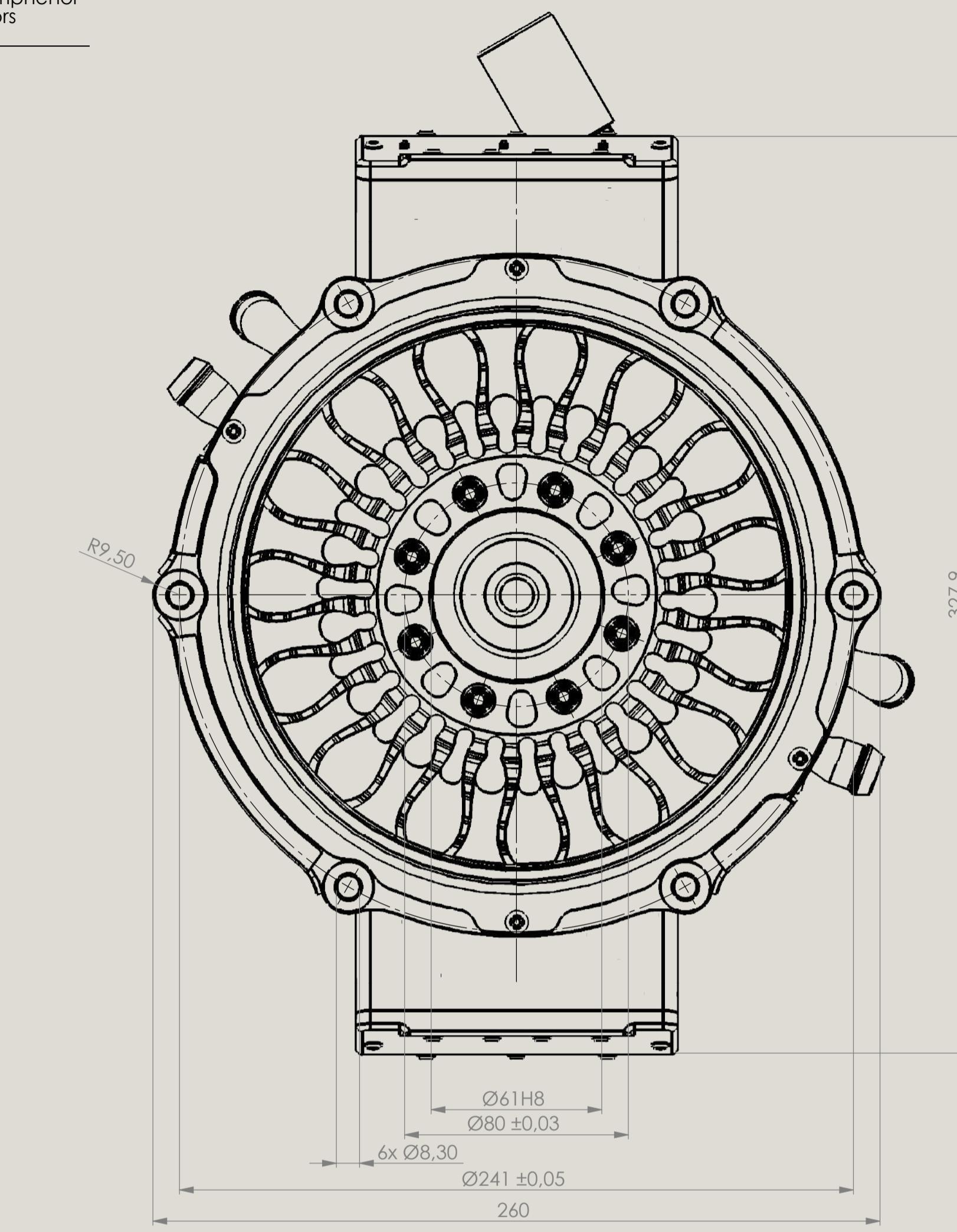
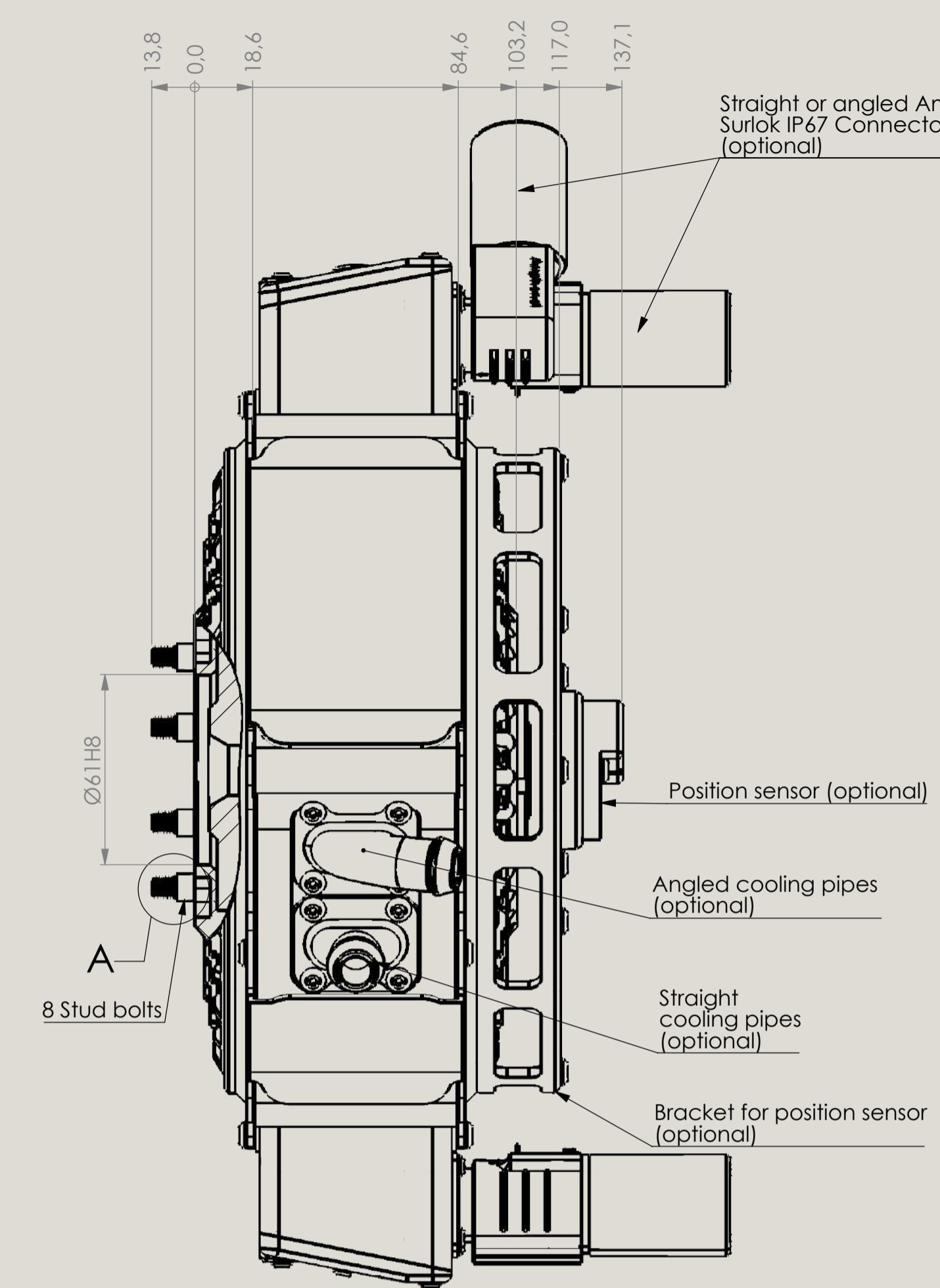
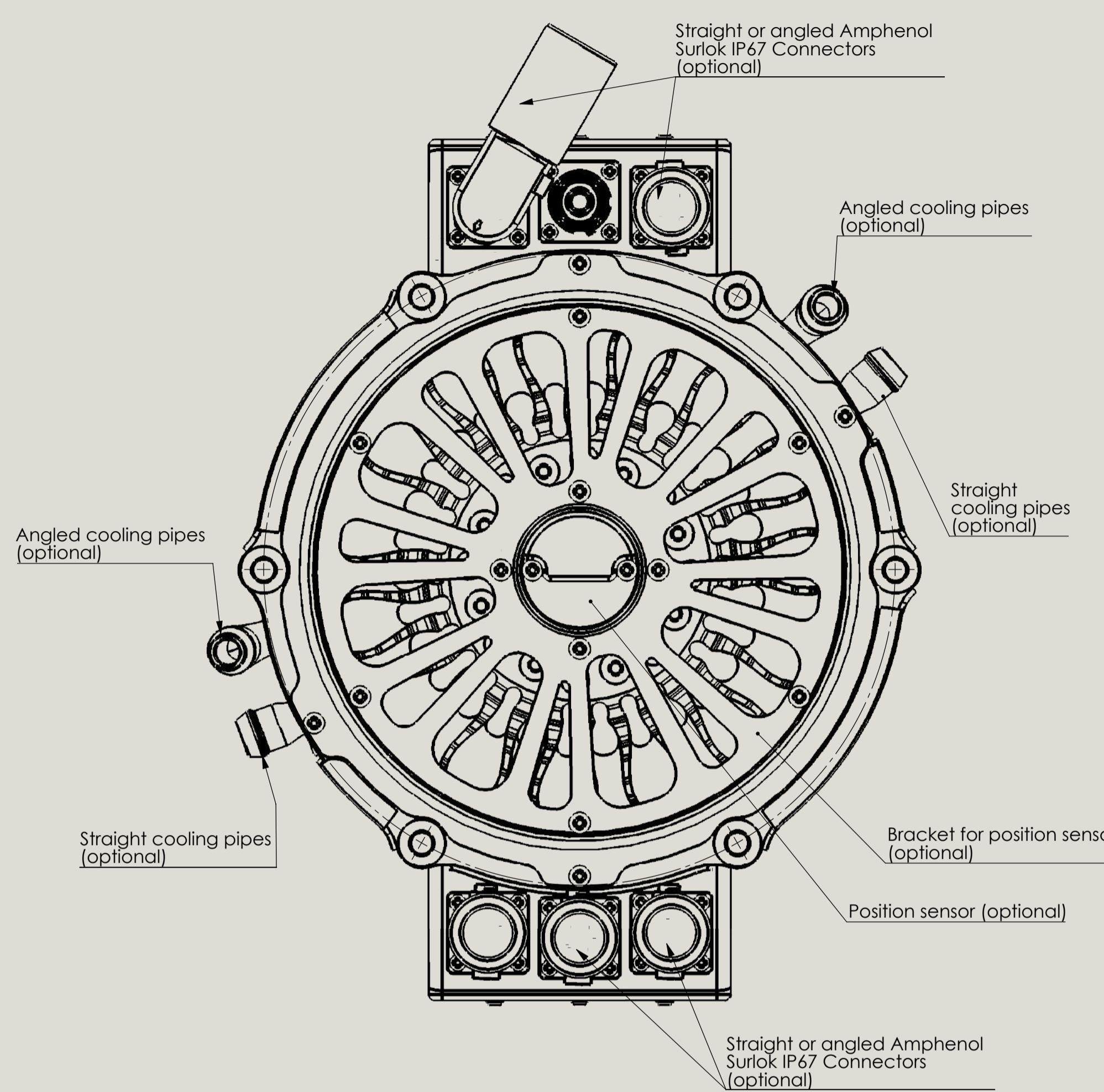
AXM2



BEYOND MOTORS
AXM2

Technical drawings

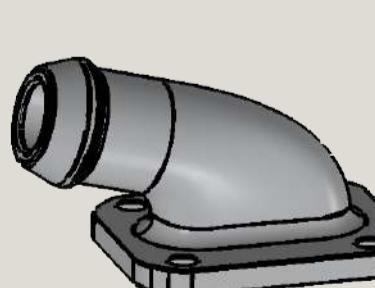
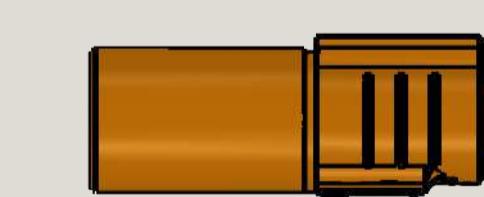
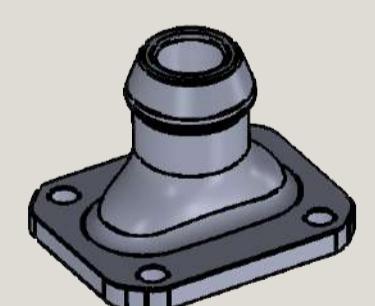
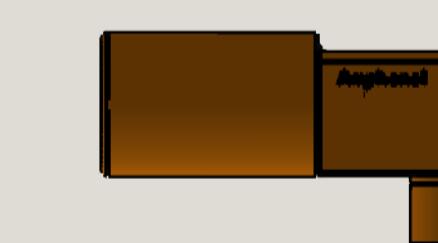
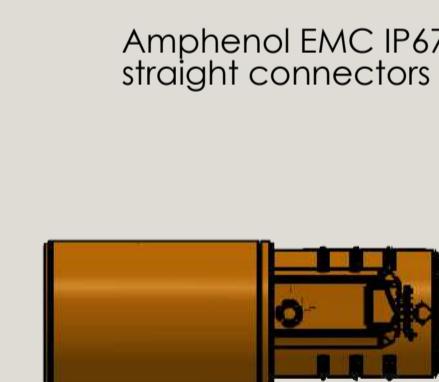
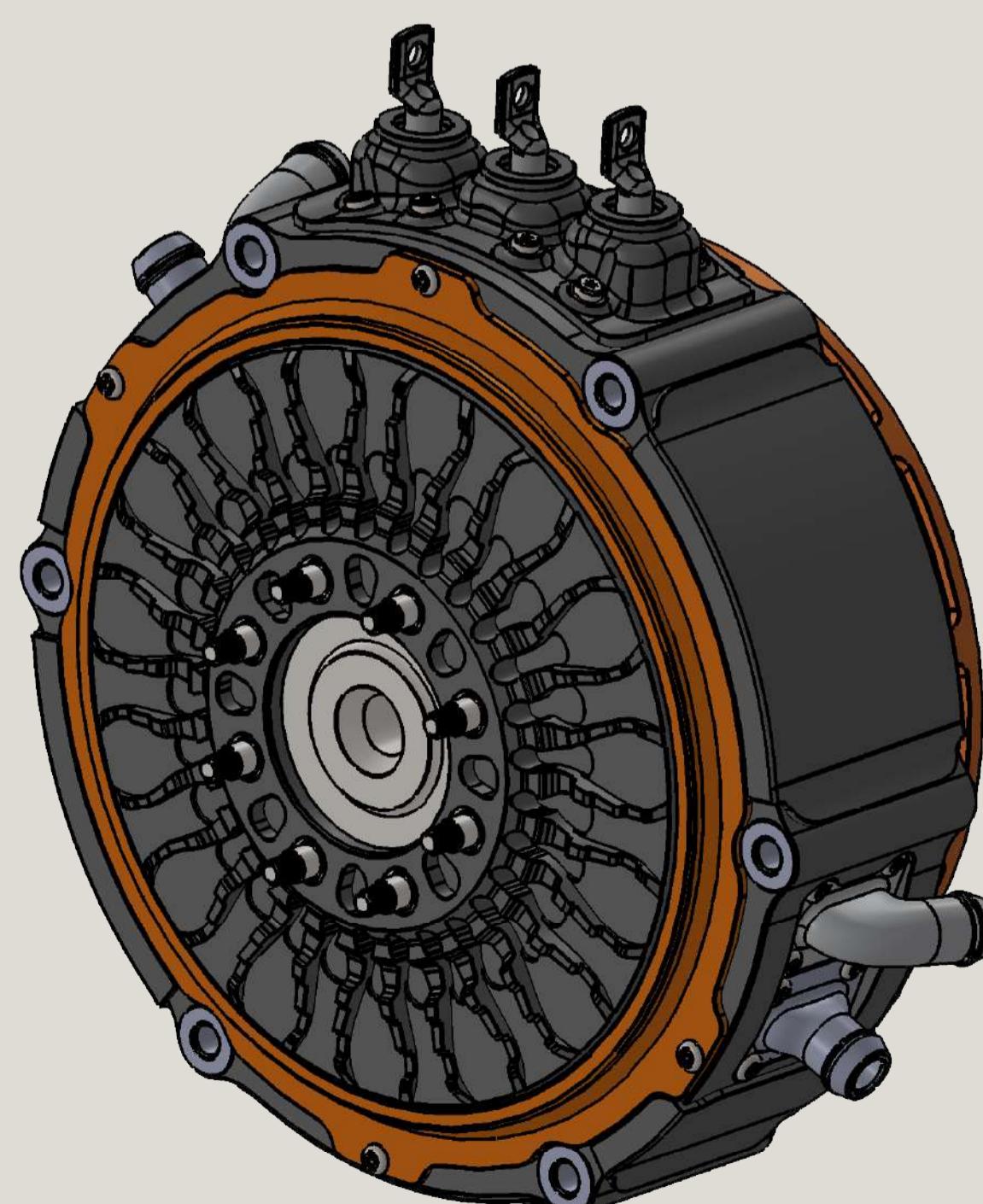
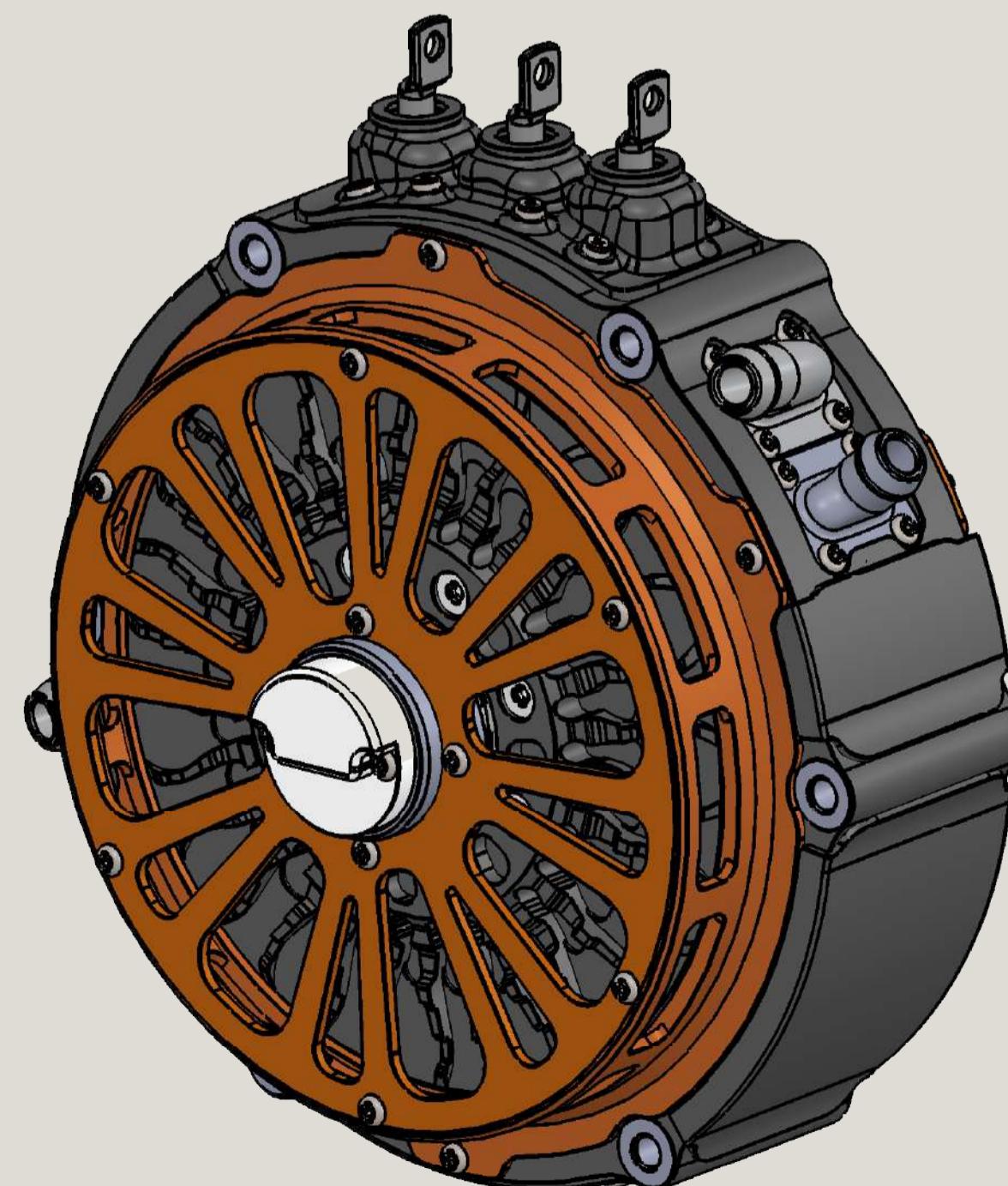
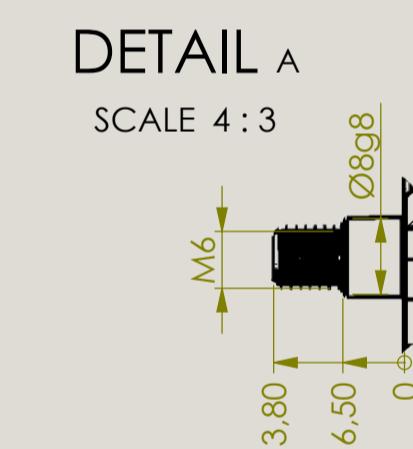
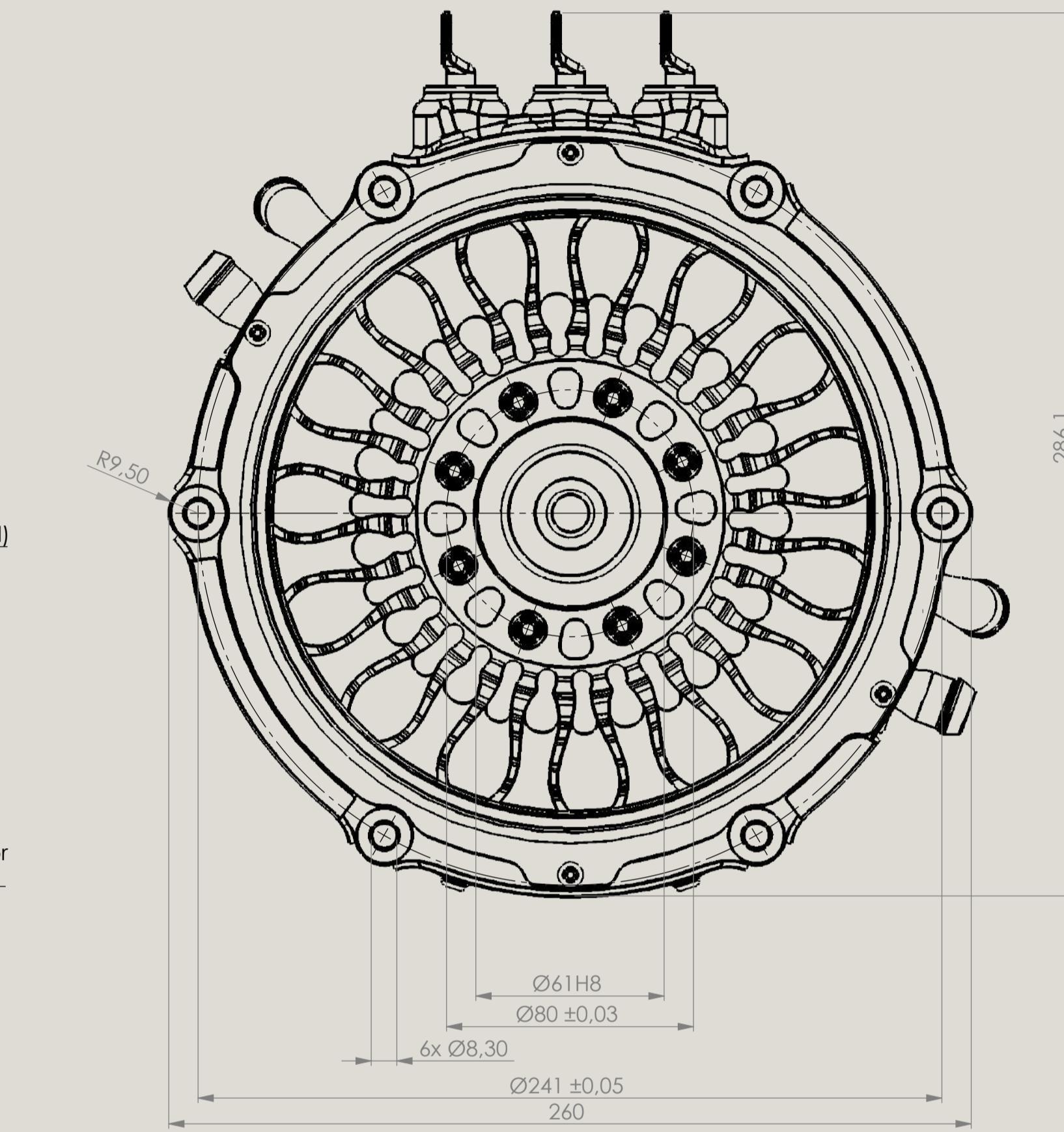
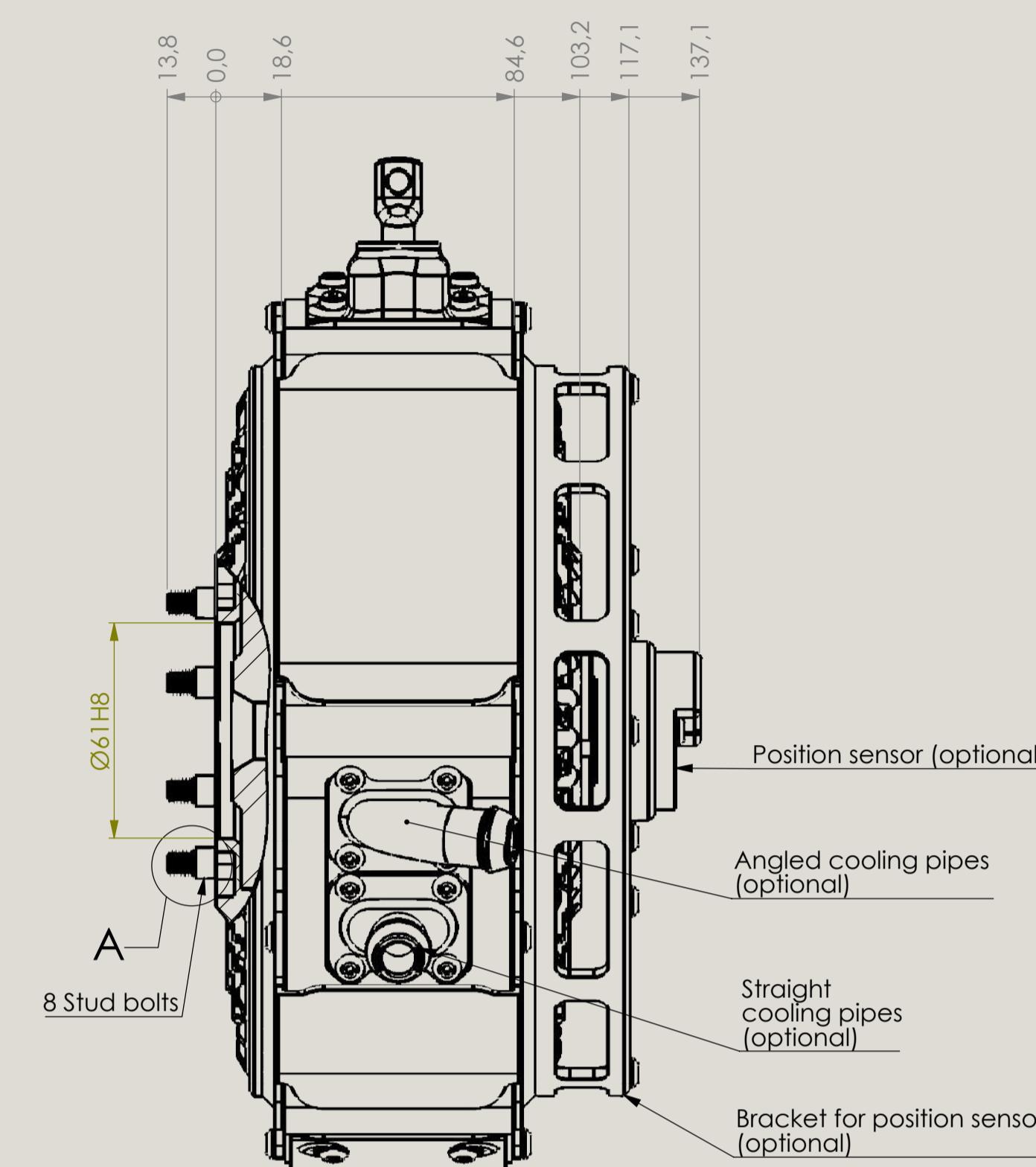
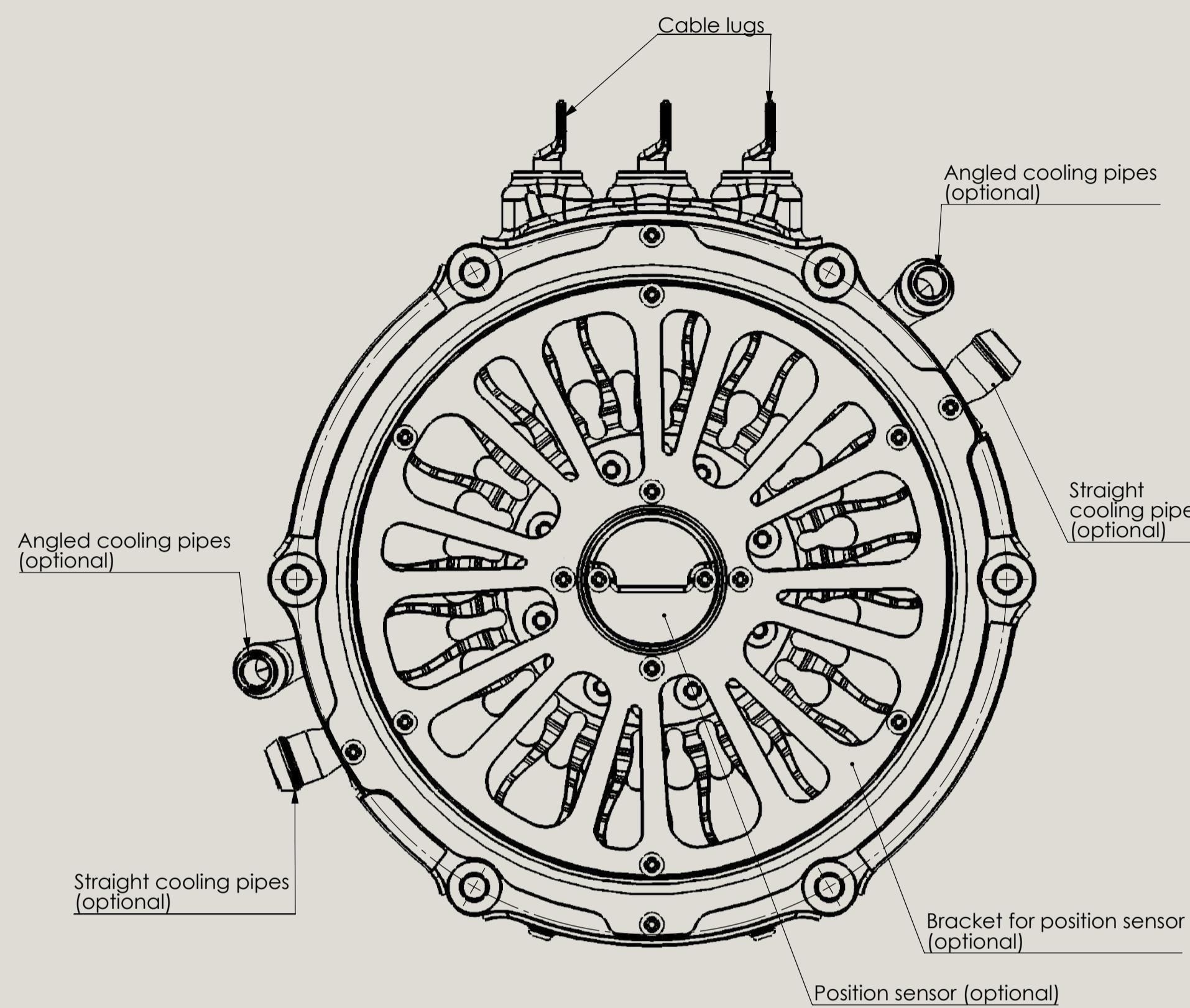
AXM2



BEYOND MOTORS
AXM2
2xUVW

Technical drawings

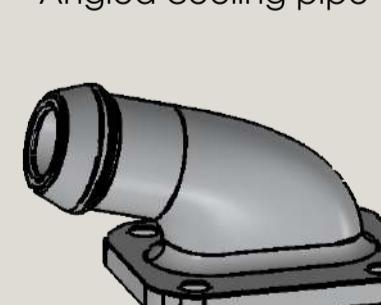
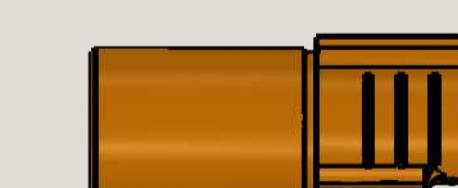
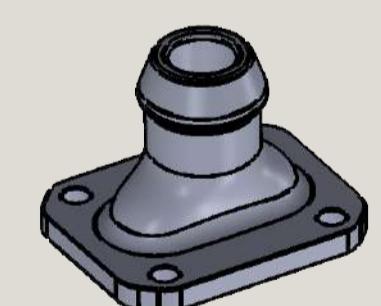
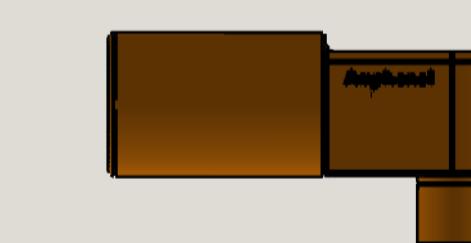
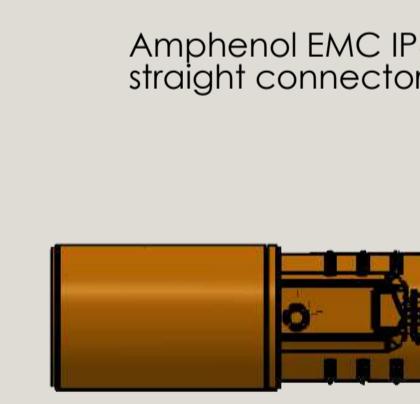
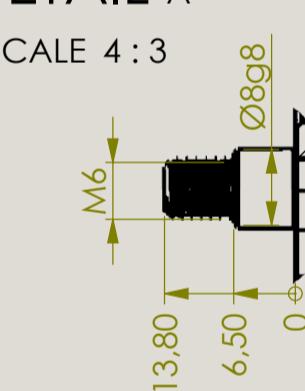
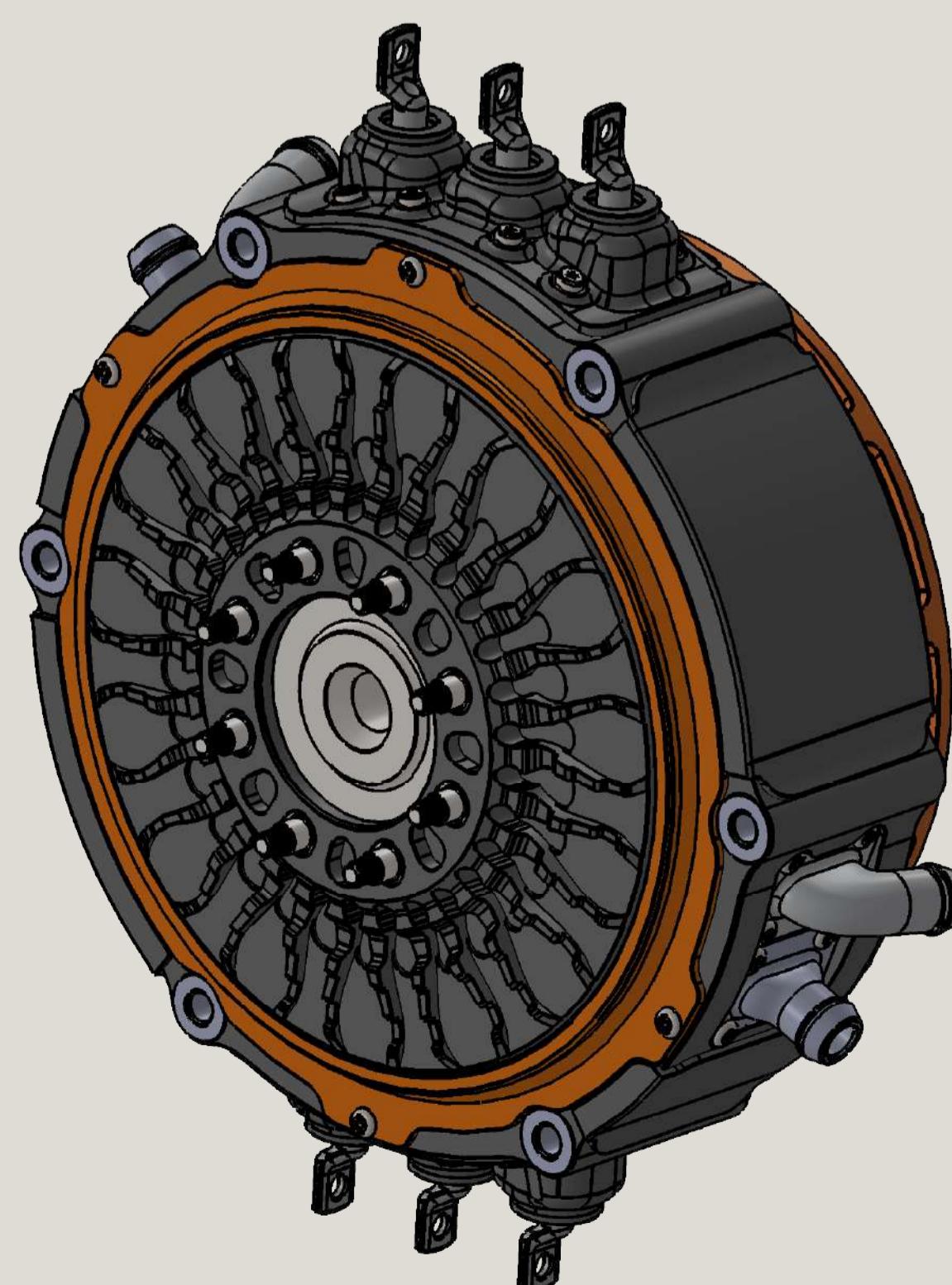
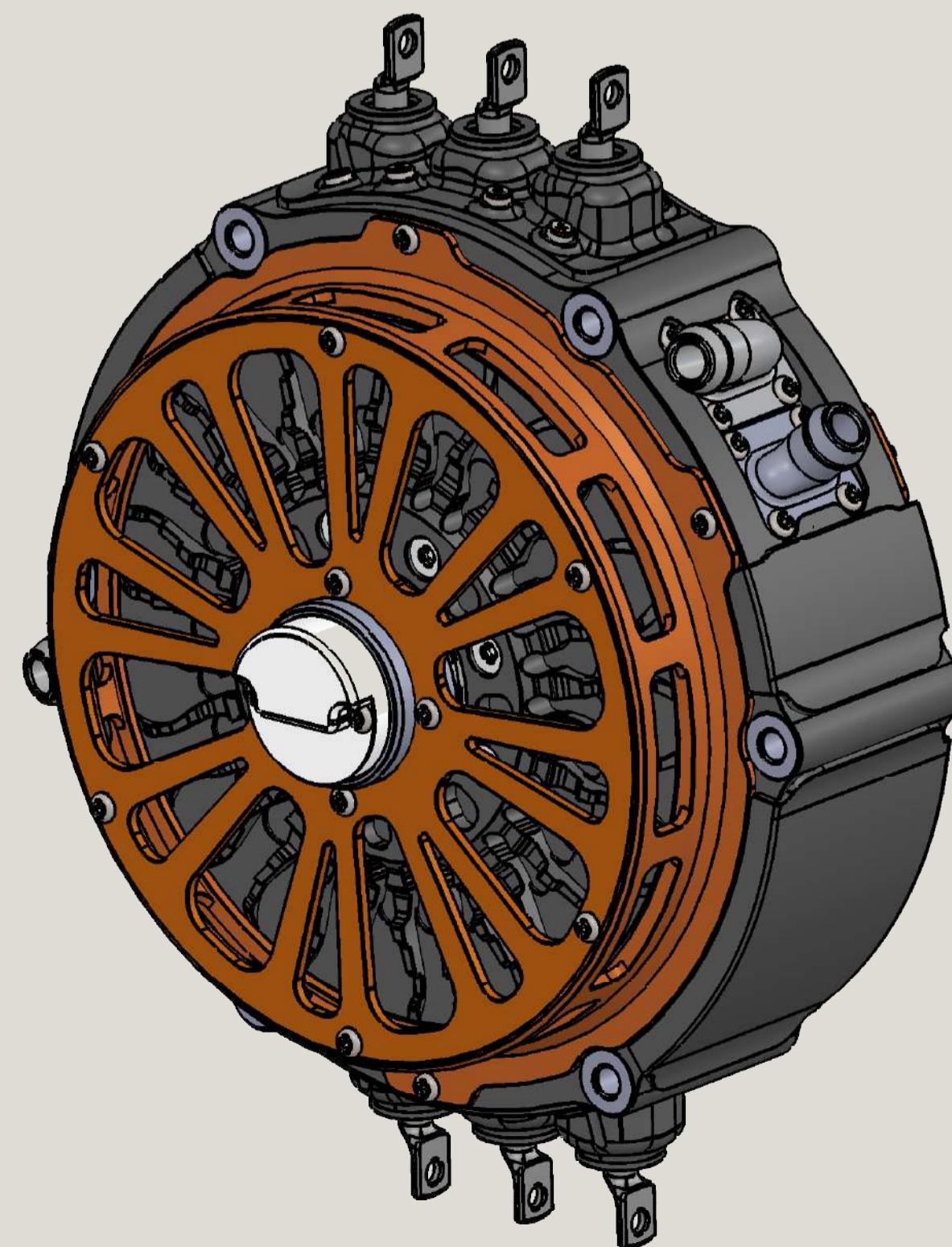
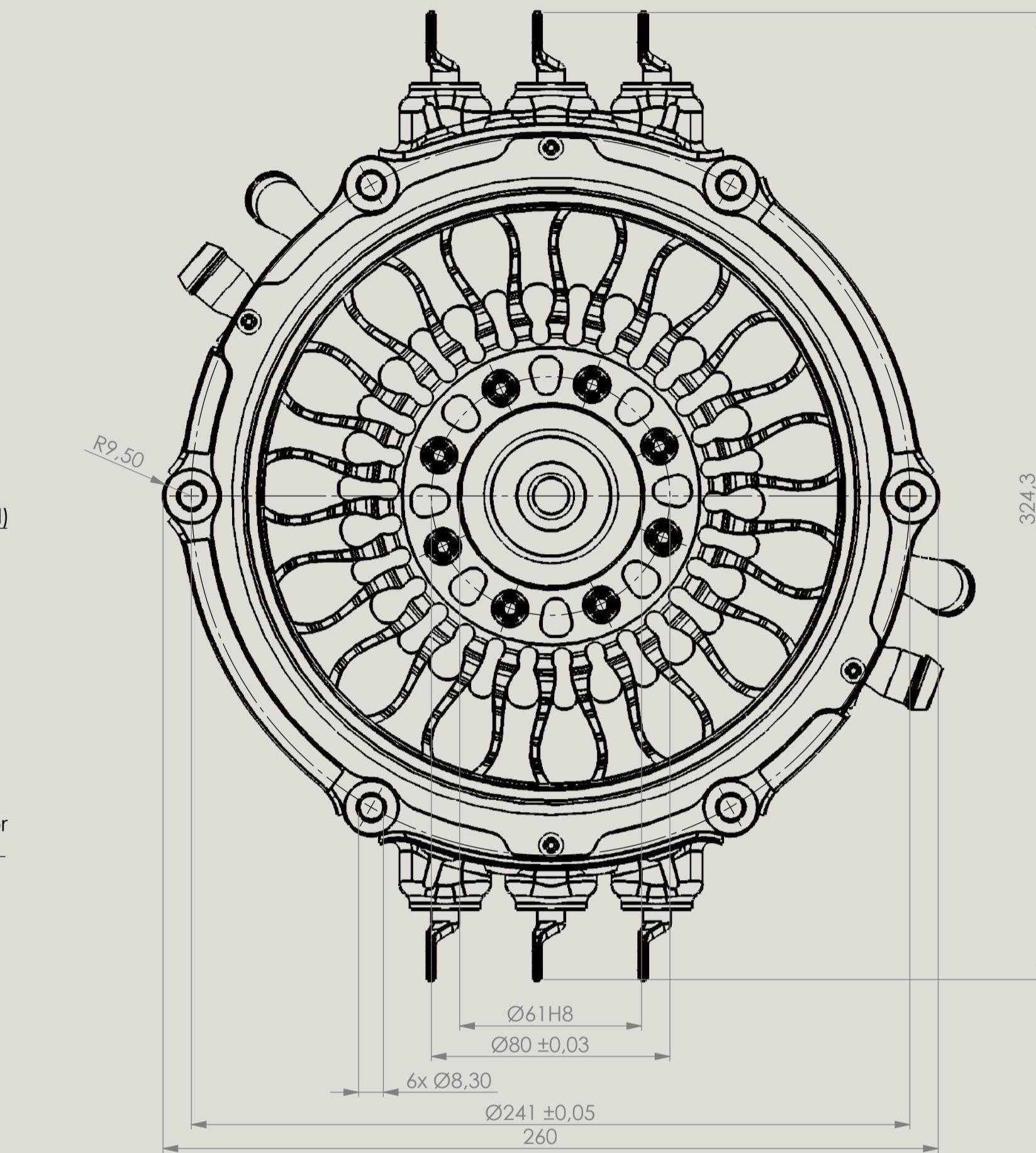
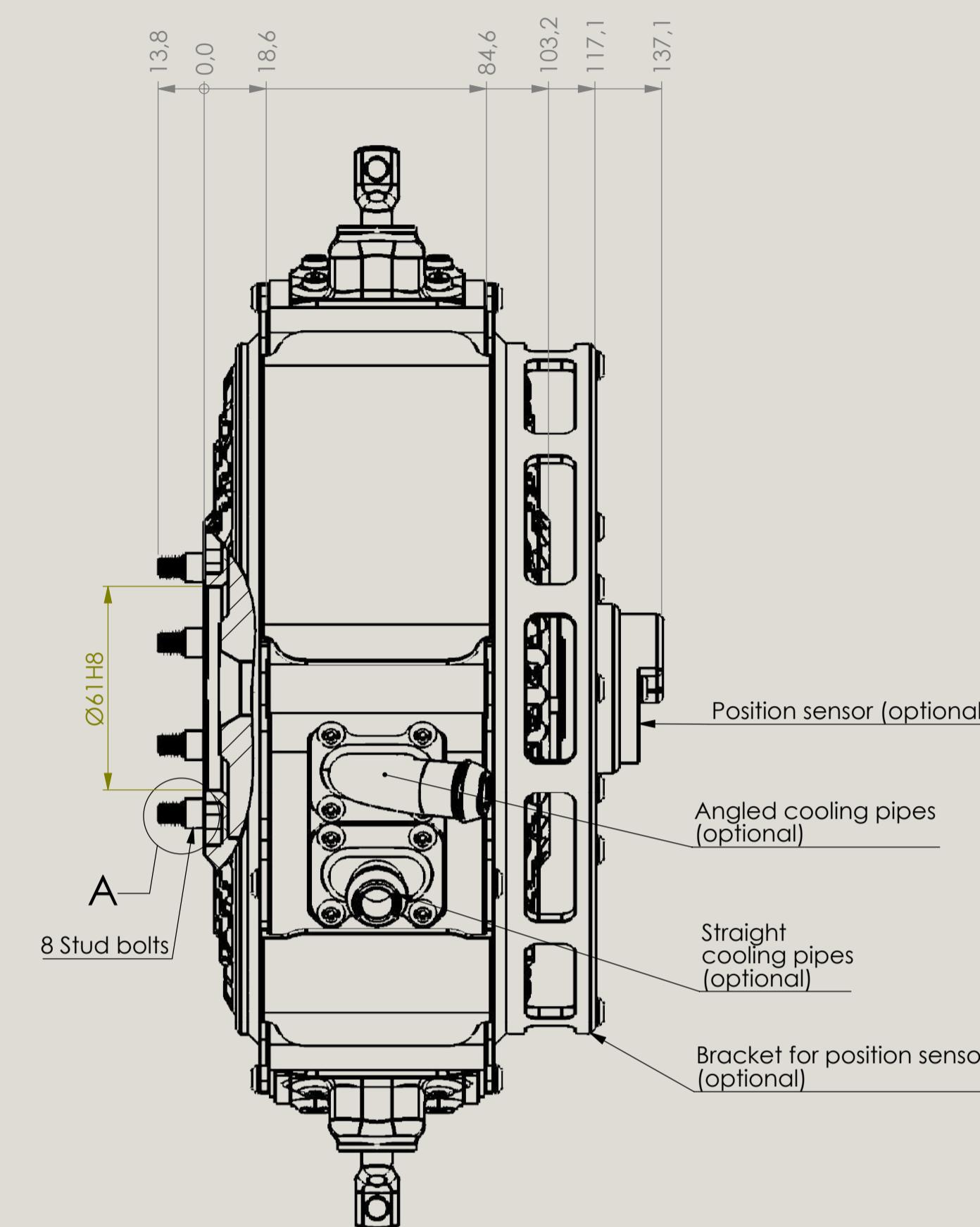
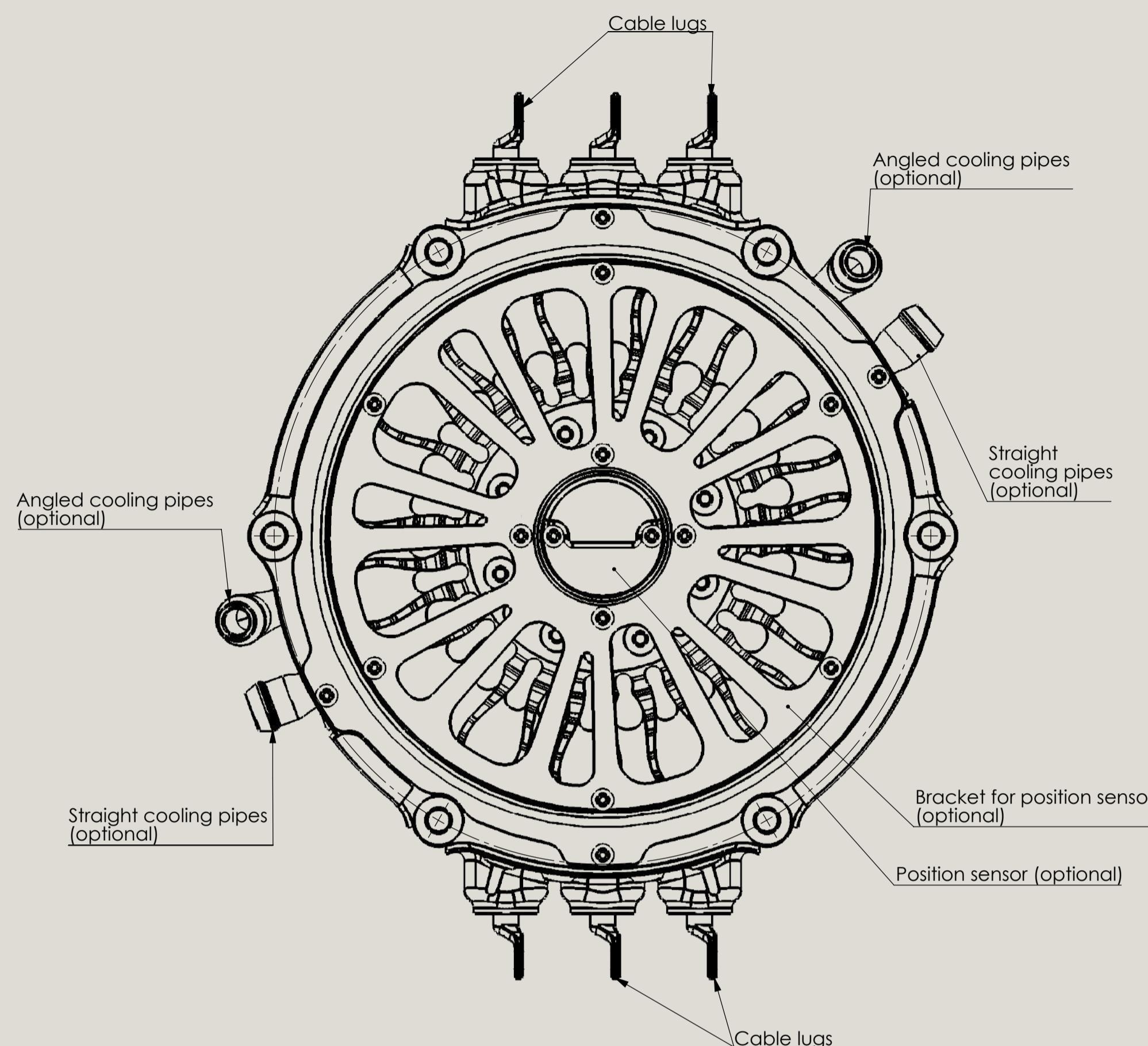
AXM2



BEYOND MOTORS
AXM2
Cable lugs

Technical drawings

AXM2



BEYOND MOTORS
AXM2
Cable lugs 2xUVW

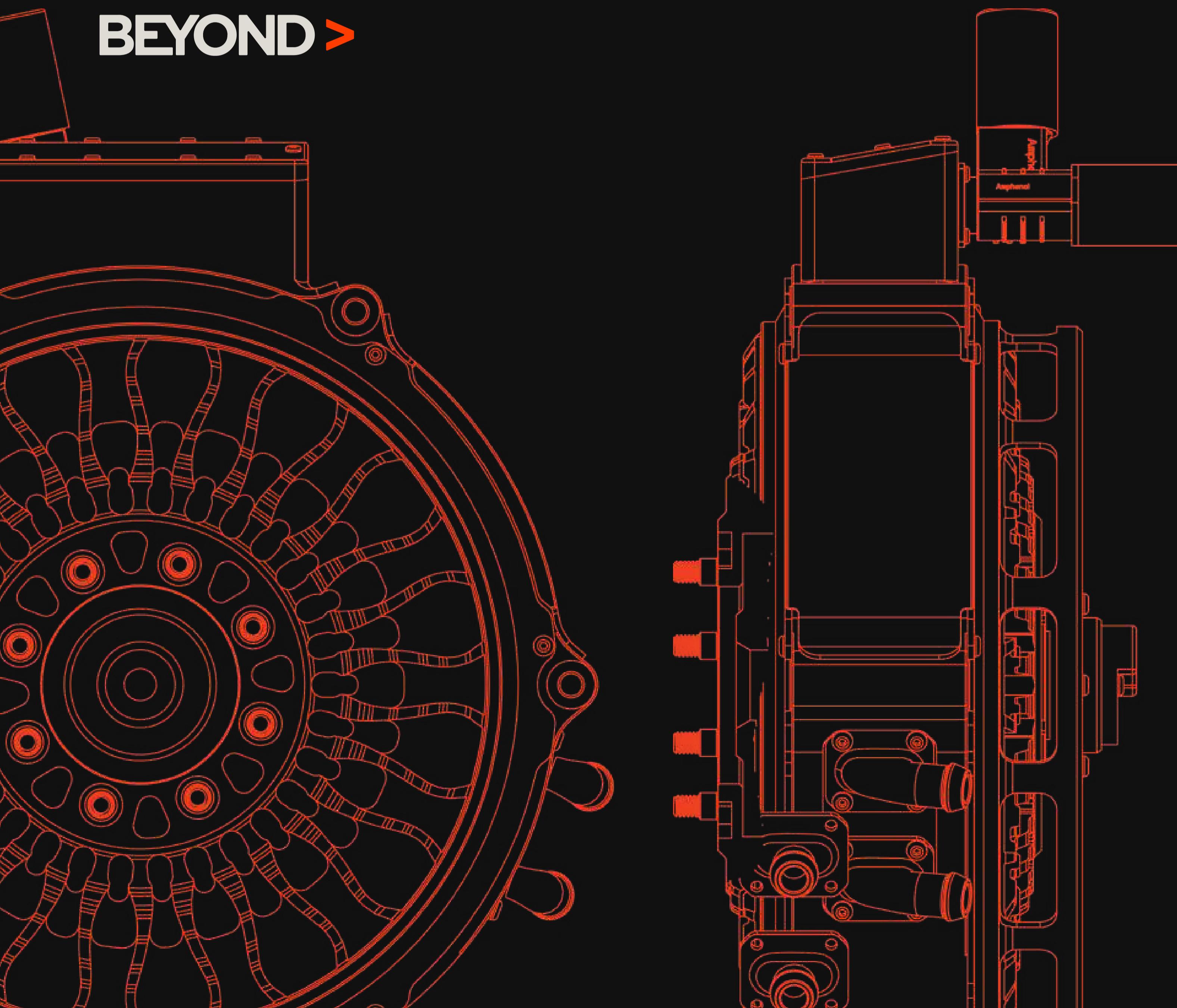
NEED MORE INFORMATION?

For additional product information or other questions, please contact us at info@beyondmotors.io or schedule a call with us through the following link.

BEYONDMOTORS.IO

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Other Models

AXM3

Ppeak **220 kW**

Pcont **130 kW**

Mass **27 kg**

[See full Data Sheet →](#)



AXM4

Ppeak **430 kW**

Pcont **230 kW**

Mass **48 kg**

[See full Data Sheet →](#)



E N E R G I S I N G T H E F U T U R E