

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?

SUPERIOR STRENGTH AND DURABILITY

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

PATENT PENDING WATER COOLING SYSTEM

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

UNMATCHABLE CONTINUOUS POWER DENSITY

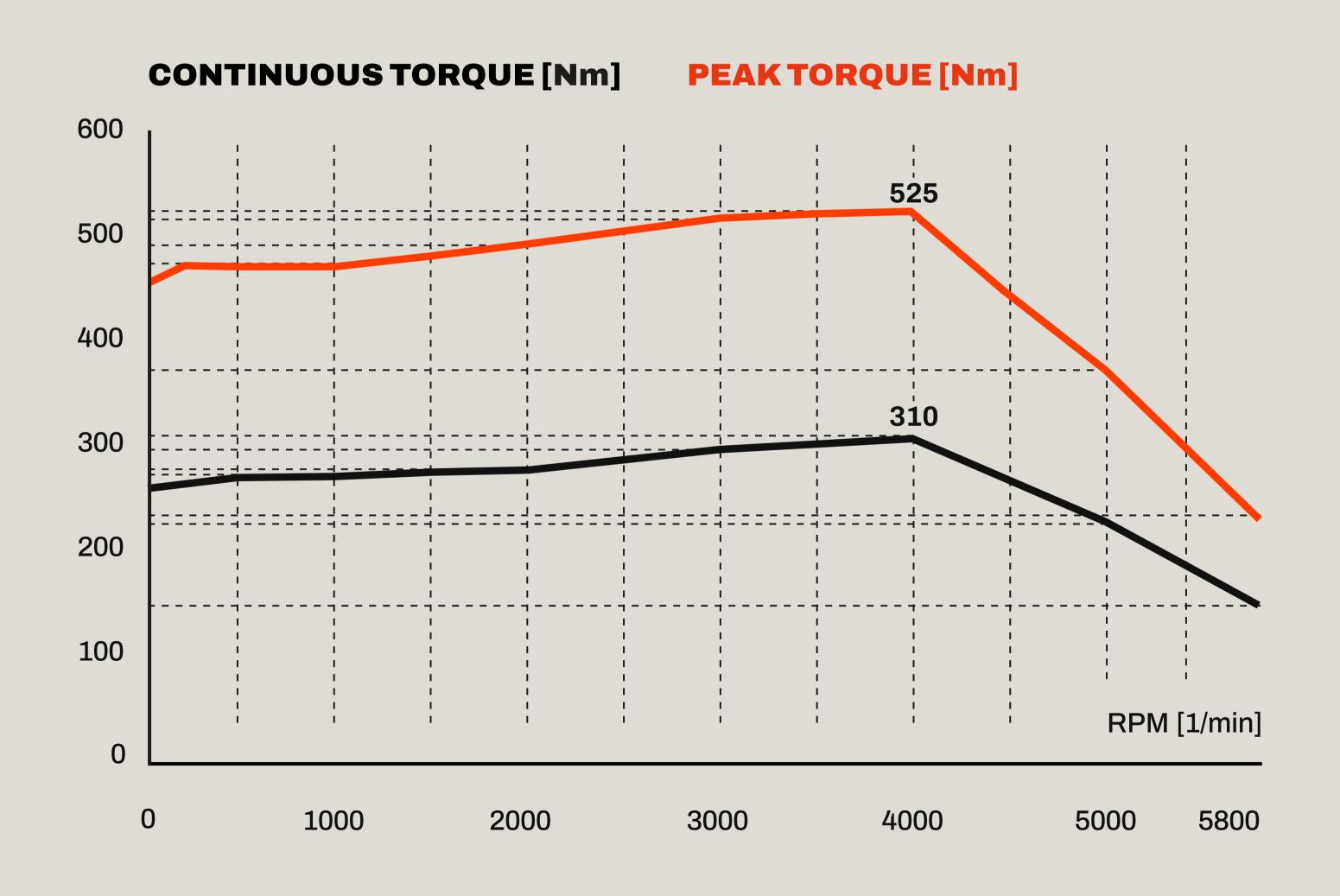
The best continuous power-to-weight ratio on the market.

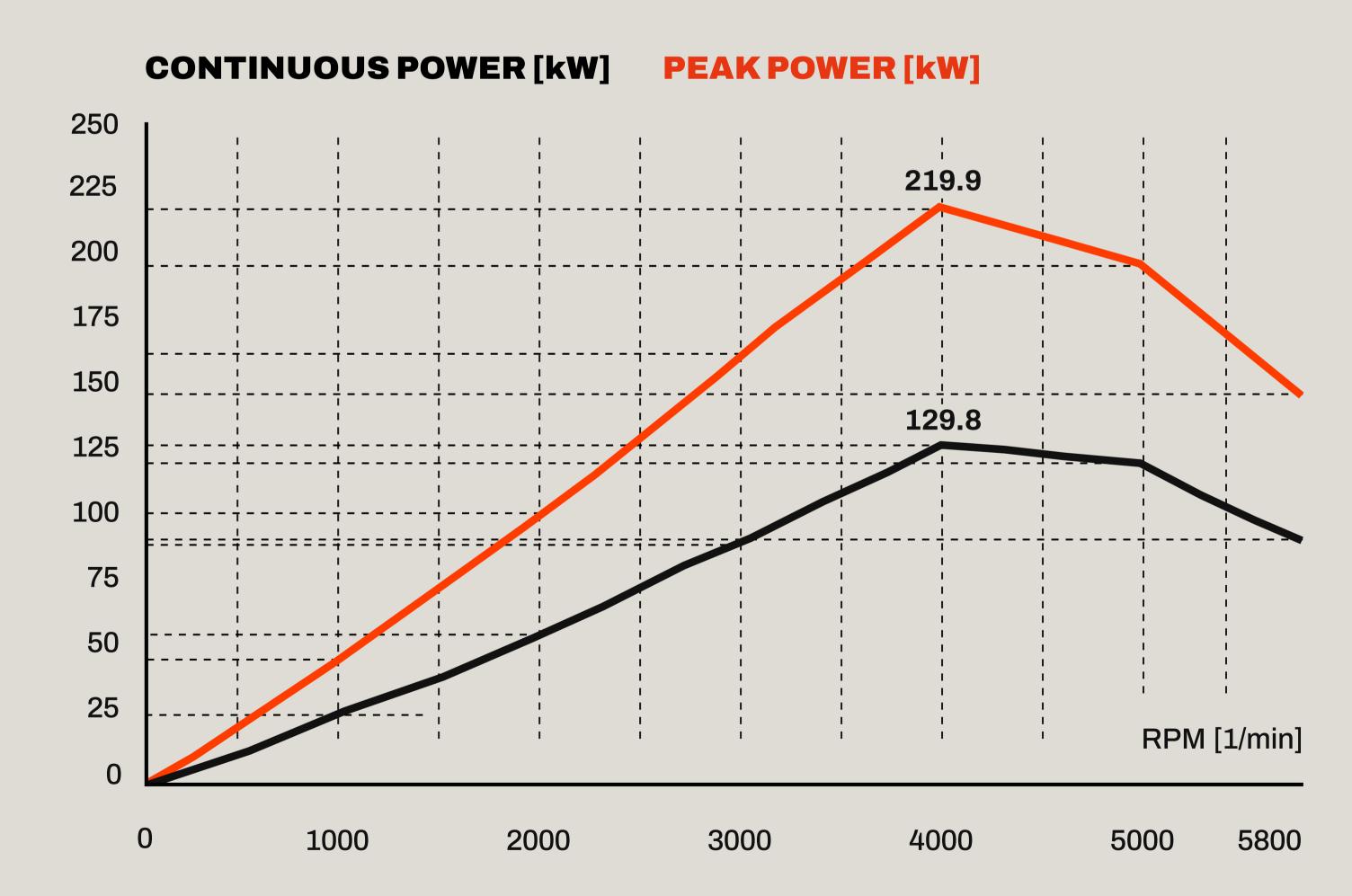
STACKABLE DESIGN FOR UP TO 3 FULL MOTORS

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

Key Data Points

Peak power	220 kW
Continuous power	130 kW
Peak torque	525 Nm
Continuous torque	310 Nm
Mass	27 kg
Stator cooling	Water cooling
Maximum speed	5800 RPM
Stacking option	Up to 3





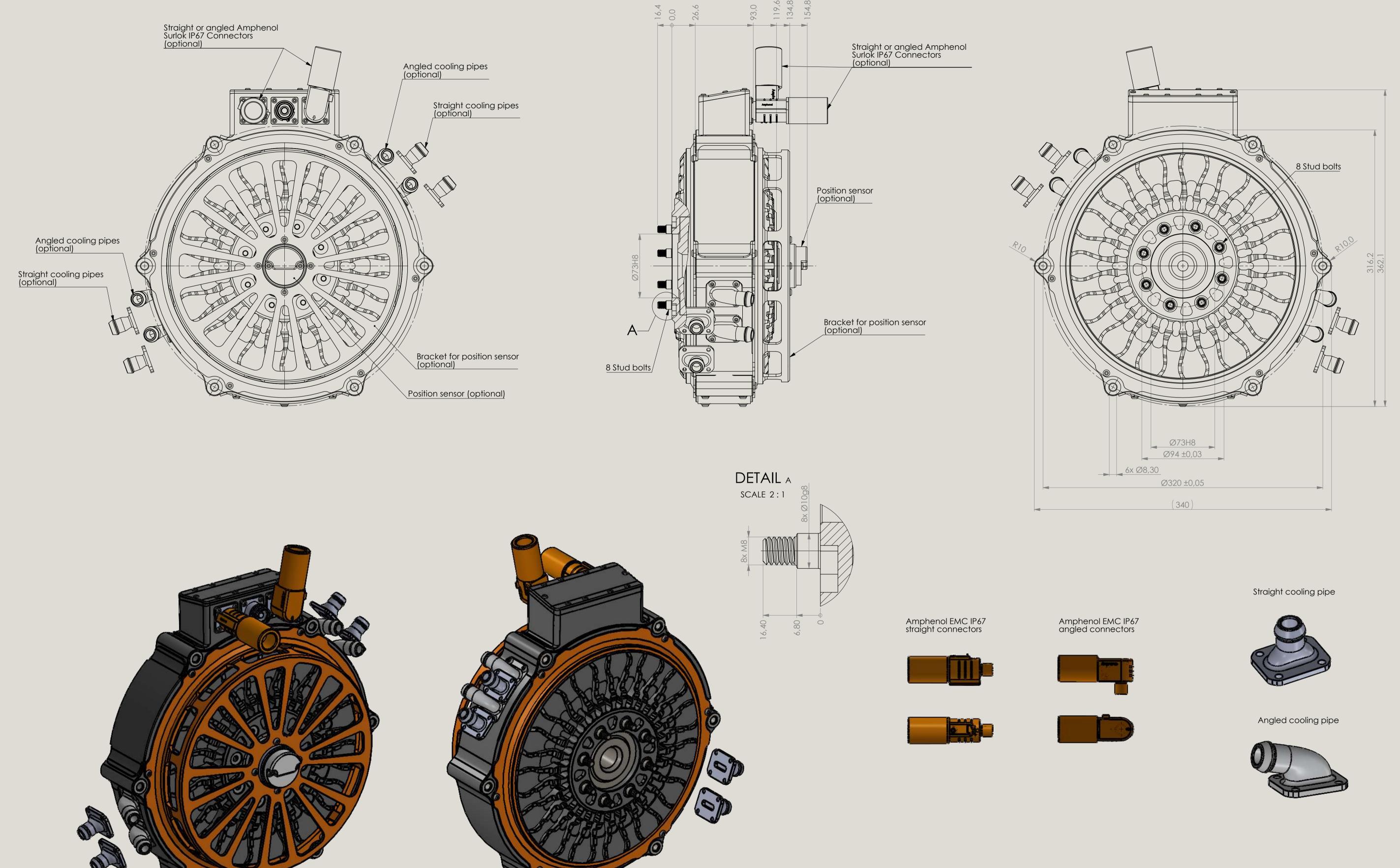
All motors can be made with redundancy option - 2xUVW phase connectors. Phase connectors can be cable lugs (standard option) or EMI IP67 Amphenol connectors (additional option).

Extended Data Sheet

Winding type	HIGH Voltage (800Vdc)	MEDIUM Voltage (550Vdc)	LOW Voltage (400Vdc)
Peak power	220 kW	220 kW	220 kW
Continuous power	130 kW	130 kW	130 kW
Peak torque	525 Nm	525 Nm	525 Nm
Continuous torque	310 Nm	310 Nm	310 Nm
Maximum motor speed	5800 RPM	5800 RPM	5800 RPM
Continuous motor speed	4000 RPM	4000 RPM	4000 RPM
Weight	27 kg	27 kg	27 kg
Kv at no load	8.3	12	16.3
Kv at continuous torque	6.5	9.5	12.9
Kv at peak torque	5.8	8.4	11.45
Torque constant	1,22 Nm/Arms	0,84 Nm/Arms	0,62 Nm/Arms
Motor type	3-phase AC PM Nm/Arms	3-phase AC PM Nm/Arms	3-phase AC PM Nm/Arms



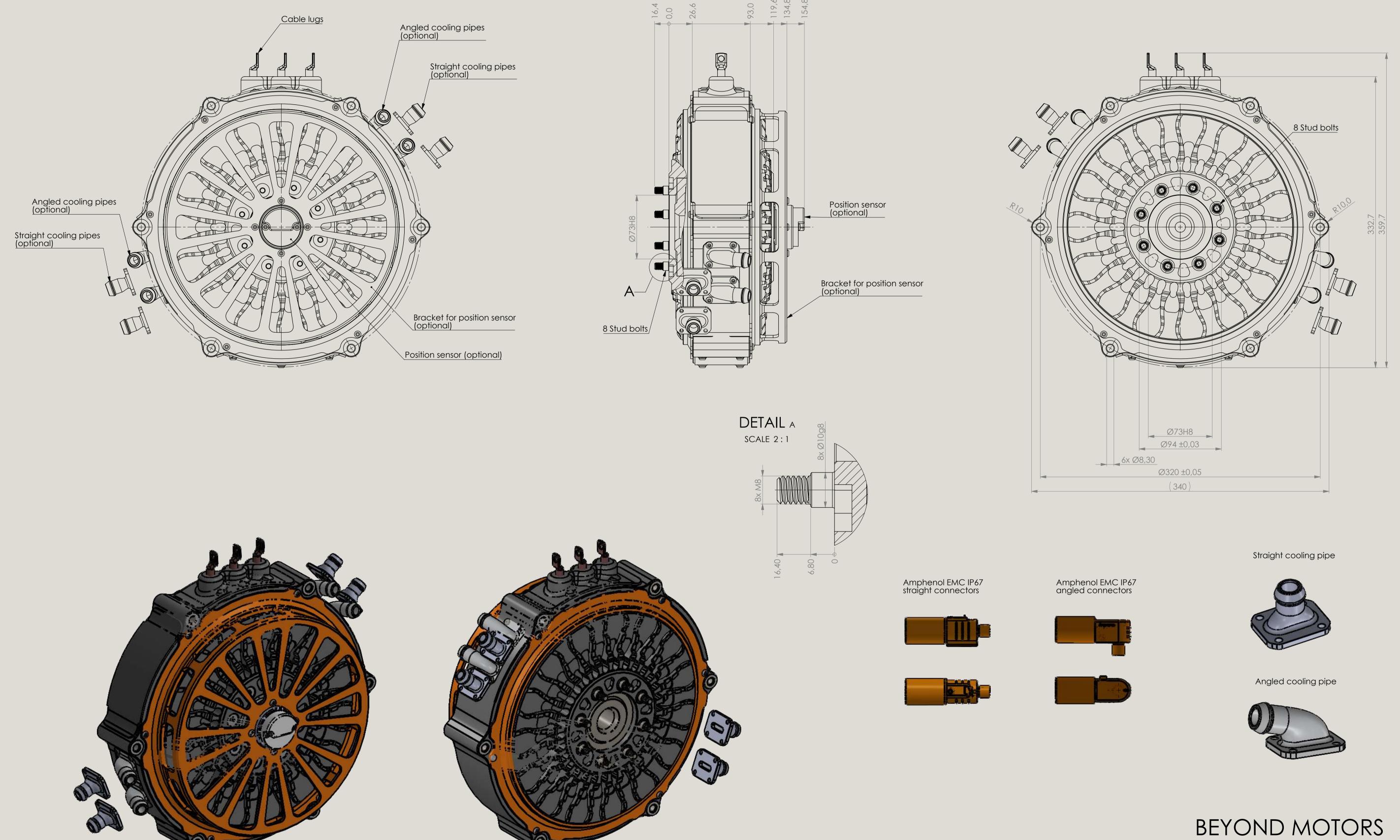
Technical drawings AXM3



BEYOND MOTORS

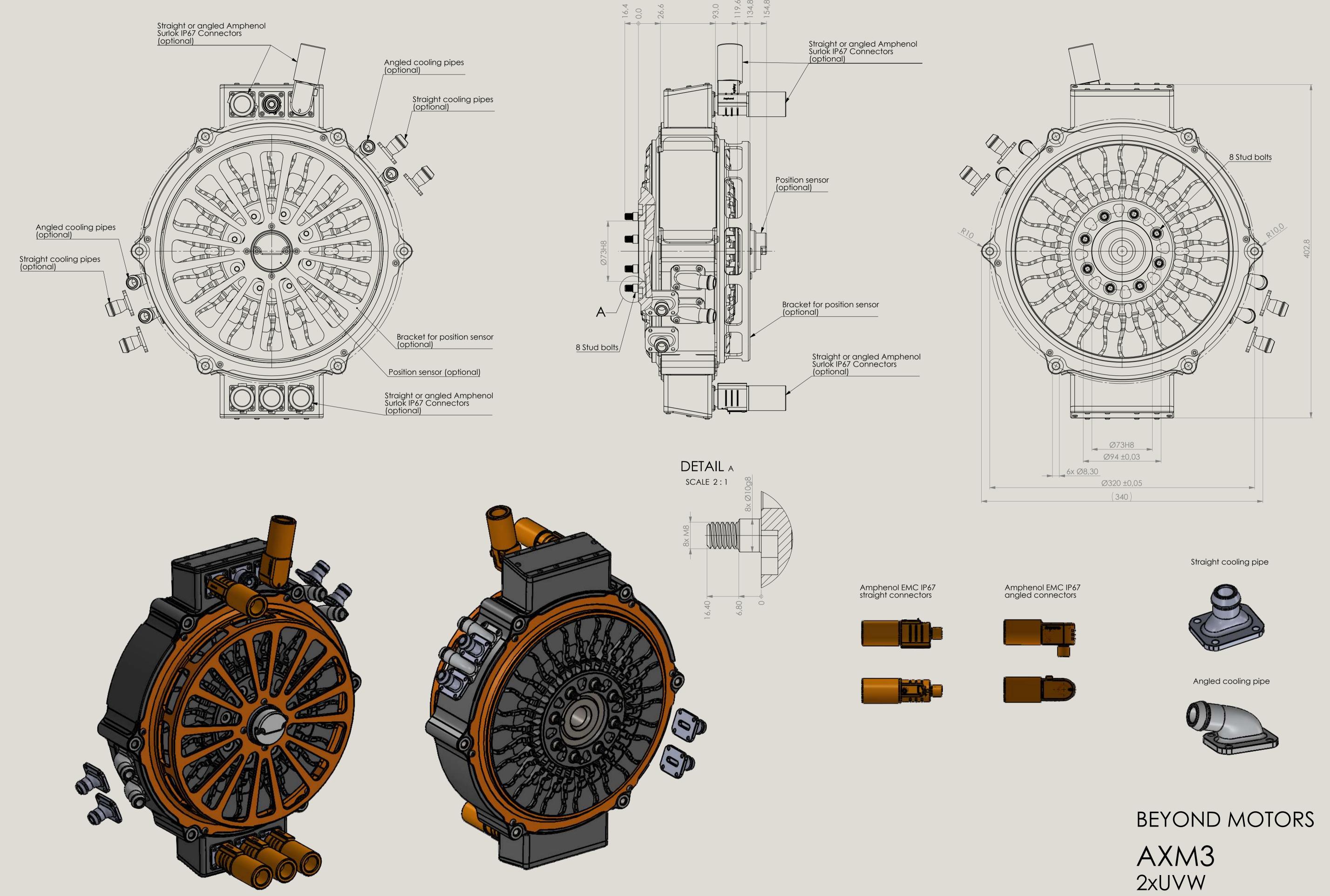
AXM3

Technical drawings AXM3

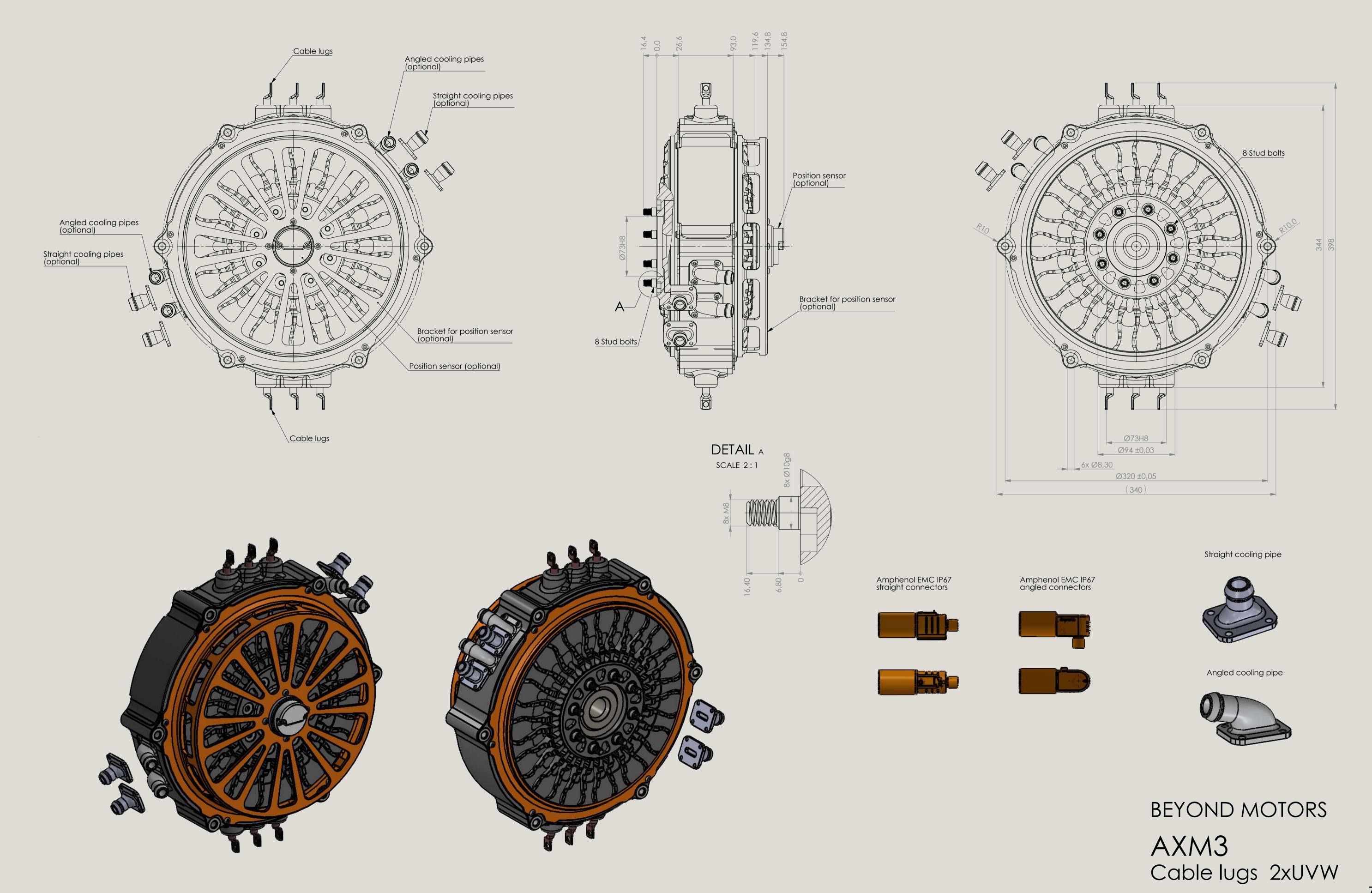


AXM3
Cable lugs

Technical drawings AXM3



Technical drawings **AXM3**

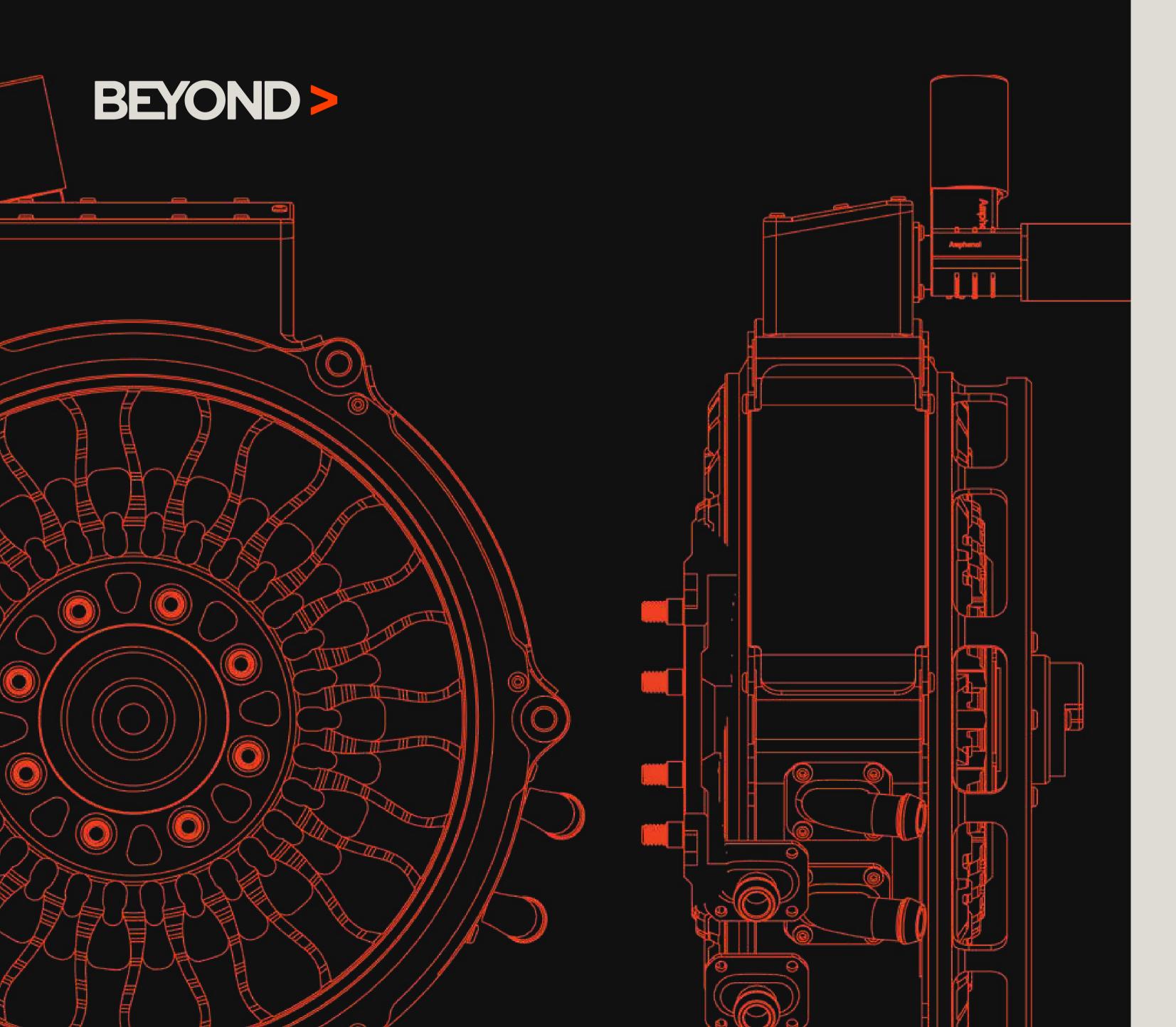


NEED MORE INFORMATION?

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

info@beyondmotors.io +386 31 544 864



Other Models

AXIVI2

130 kW

Pcont 75 kW

Mass **14,5 kg**

See full Data Sheet →



AXIVI4

Ppeak 430 kW

Pcont 230 kW

Mass 48 kg

See full Data Sheet →



ENERGISING THE FUTURE