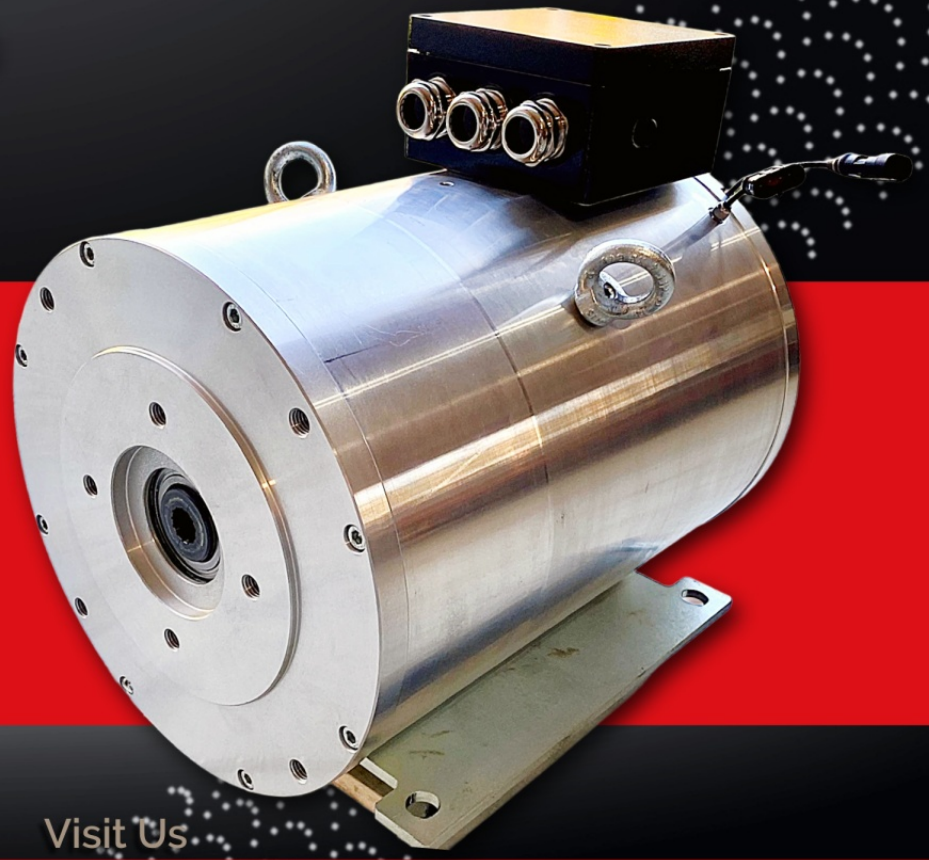
NetGain Motors, Inc.

HyPer 12™

Specifications

Performance & Dimensions



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www.go-ev.com/motors-hyper.html

HyPer 12™

NetGain Motors, Inc.

The HyPer 12™ is NetGain Motors' highest continuous-power option, built for large projects where motor weight is an asset or a non-issue. It suits vehicles and machinery that need sustained output across a wide speed range, including trucks, boats, and industrial equipment.

Operating on a low-voltage battery pack, it avoids the cost and safety requirements of high-voltage systems. Its air-cooled design also eliminates pumps, hoses, and radiators for a straightforward installation.



POWER

- Voltage: **80-144V Nominal**
- Current: **500-700 Arms**
- Peak Efficiency: **95%**
- S2-1min Power: **88 kW**
- S2-60min Power: **58 kW**
- Max Speed: **6,000 RPM**
- Torque Peak: **330 lbs.-ft.**

SIZE

- Motor Diameter: **12.83 in**
- Motor Length: **17.16 in**
- Motor Weight: **400 lbs.**
- Shaft: **ANSI 22mm 13T**
- DE Mounting:
  - **8x M14 + Foot Mount**
- EE Mounting:
  - **4x M14 300mm BC**

FEATURES

- Type: **SRIPM**
- Insulation: **Class H**
- Position Sensor:
  - **Magnetic Sin/Cos**
- Recommended Software:
  - **SmartView**
- Protection: **IP66**
- Delivery: **From Stock**

LIGHT TRUCK

Classic pickup conversions, fleet vans, and off-road tour trucks that retain a traditional gearbox or transfer case and require smooth acceleration and high speeds.



MARINE

Ideal for on plane or cruising open water—delivering reliable, continuous output in a sealed, air-cooled package that eliminates raw-water cooling maintenance.



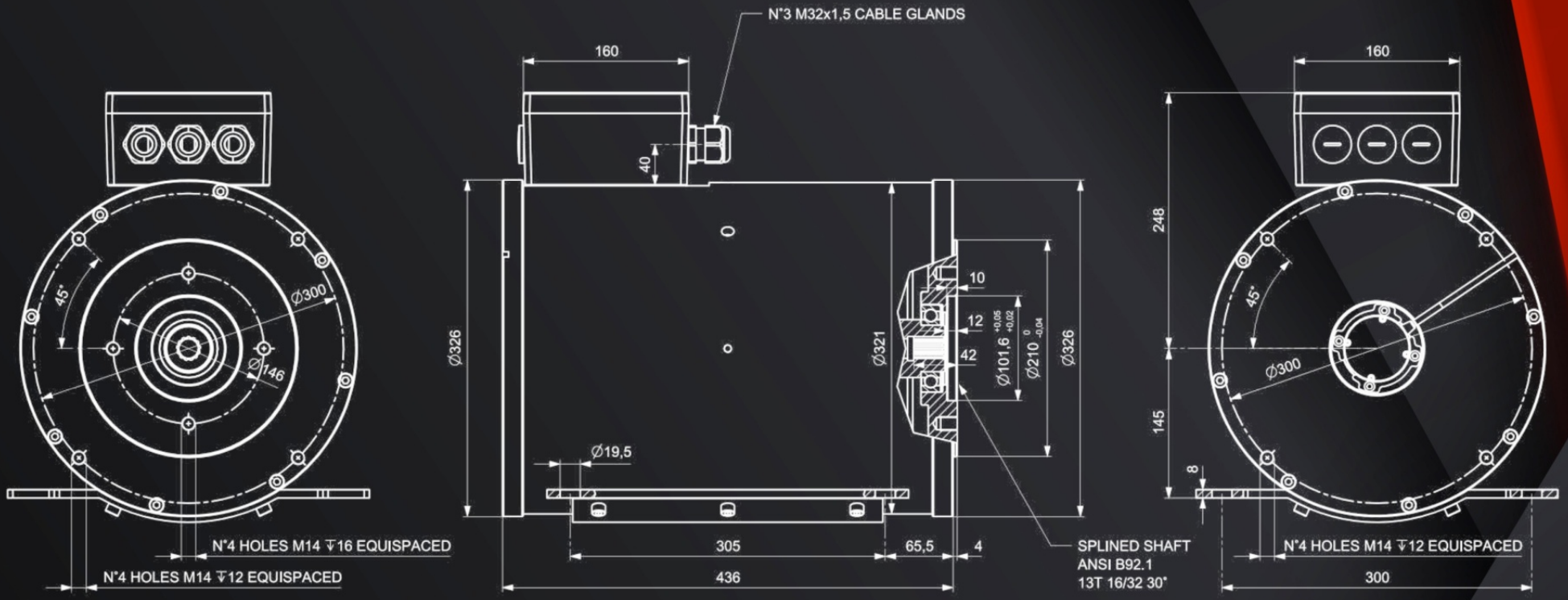
EQUIPMENT

Sized for industrial hydraulic systems that demand steady, non-stop operation throughout a full shift without overheating



HyPer 12™ OUTLINE

NetGain Motors, Inc.



INTERNAL INVOLUTE SPLINE DATA - ANSI B92.1 1996													
SPLINE TYPE	CLASS	TEETH (N)	PITCH (P/Ps)	PRESSURE ANGLE (φ)	BASE DIA (Db)	PITCH DIA (D)	MAJOR DIA (Dri)	FORM DIA (Dfi)	MINOR DIA (Di)	MIN EFF SPACE WIDTH (Sv)	MAX ACT SPACE WIDTH (Sv)	MEASUREMENT BETWEEN PINS (Mi)	PIN DIA (d)
FLAT ROOT / SIDE FIT	5	13	16/32	30°	17.873 MM (REF)	20.638 MM (REF)	22.885 MM (MAX)	22.327 MM	19.279 / 19.152 MM	2.494 MM	2.560 MM	16.589 / 16.540 MM	2.743 MM

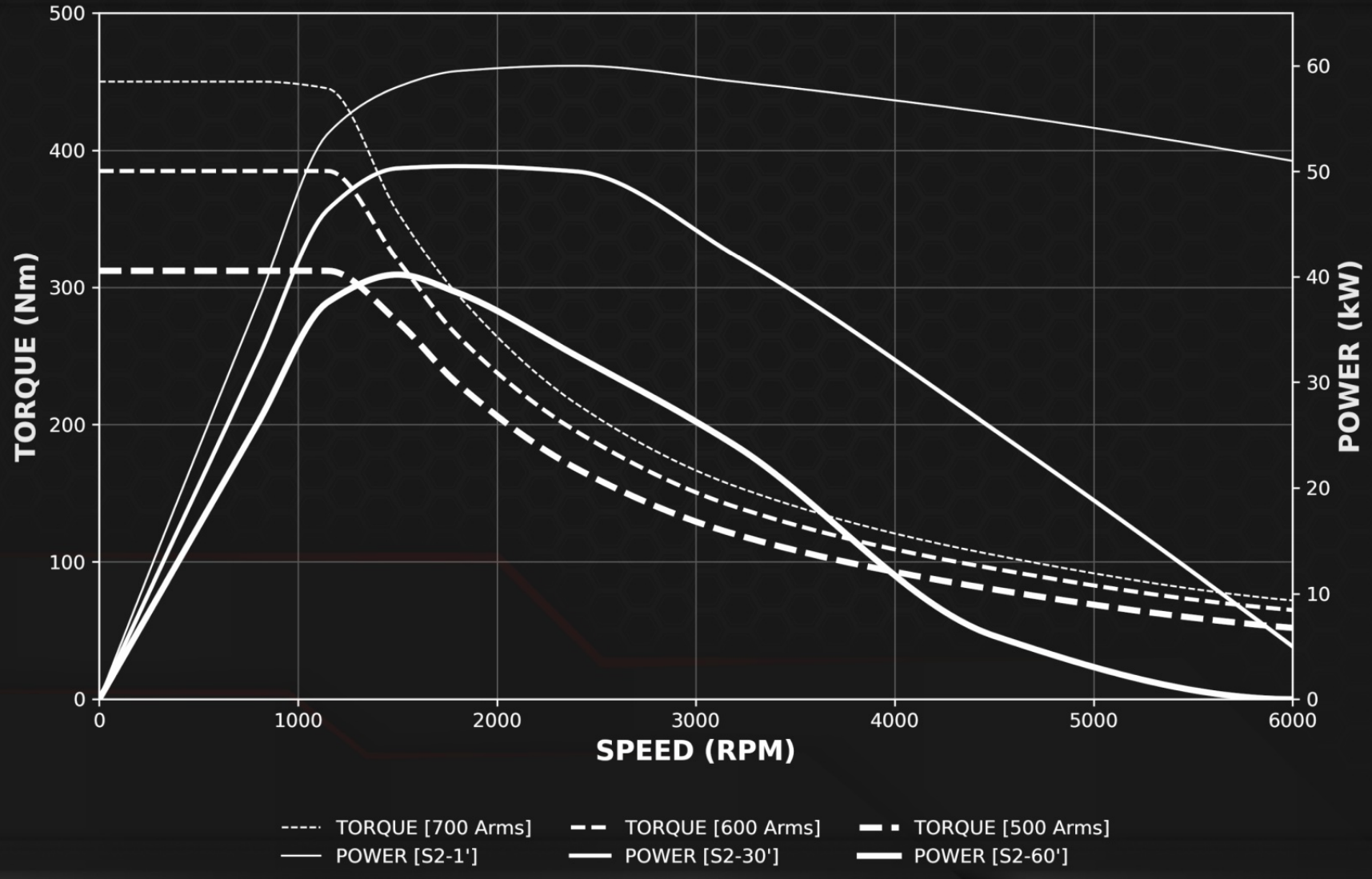
PERFORMANCE CURVES

80V

NetGain Motors, Inc.

HyPer 12™ - 80Vdc Power Curves*

*Curves are simulated considering stand-alone motor (no coupling flange), natural convection cooling and ambient temperature = 40°C

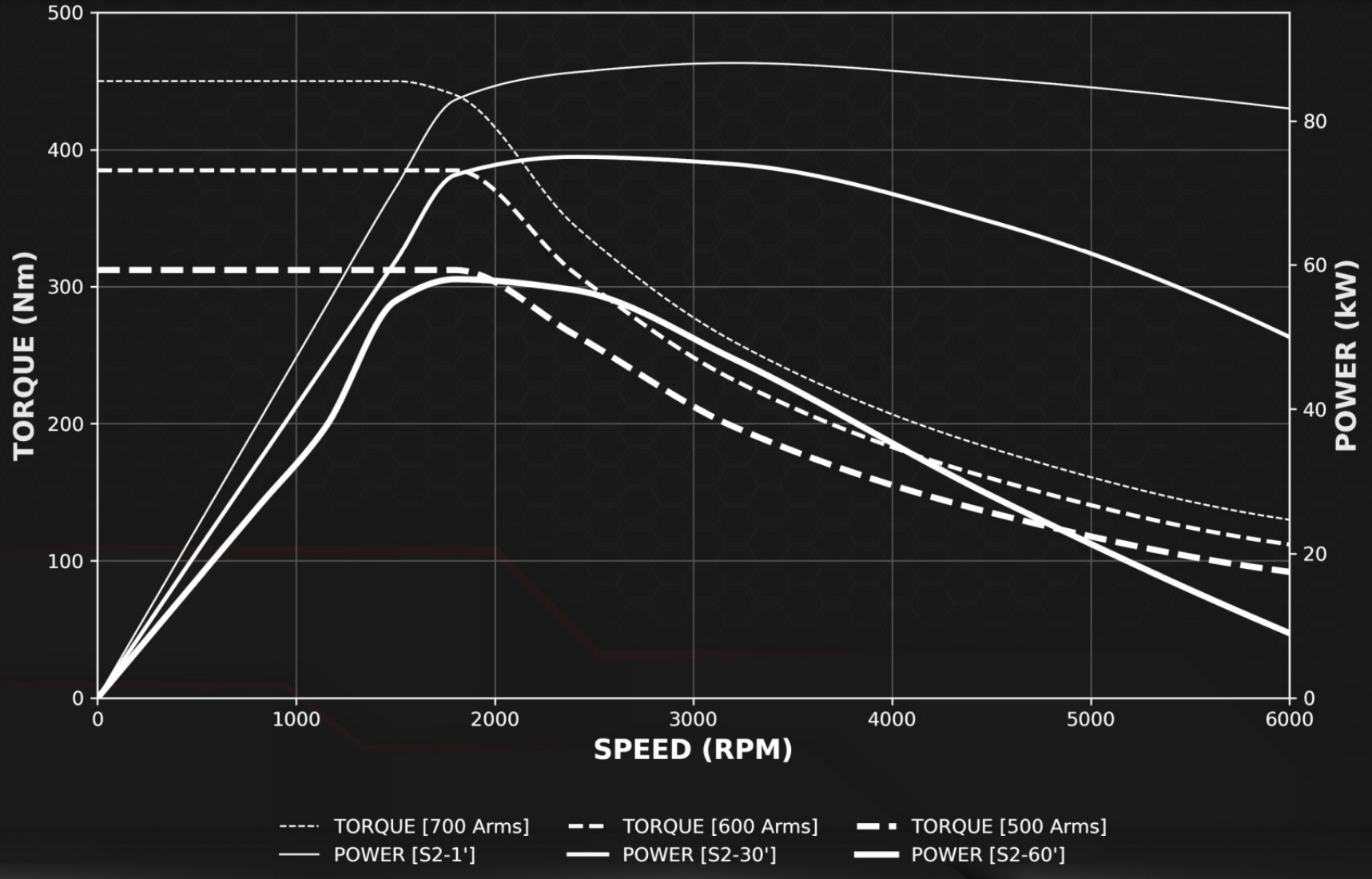


120V

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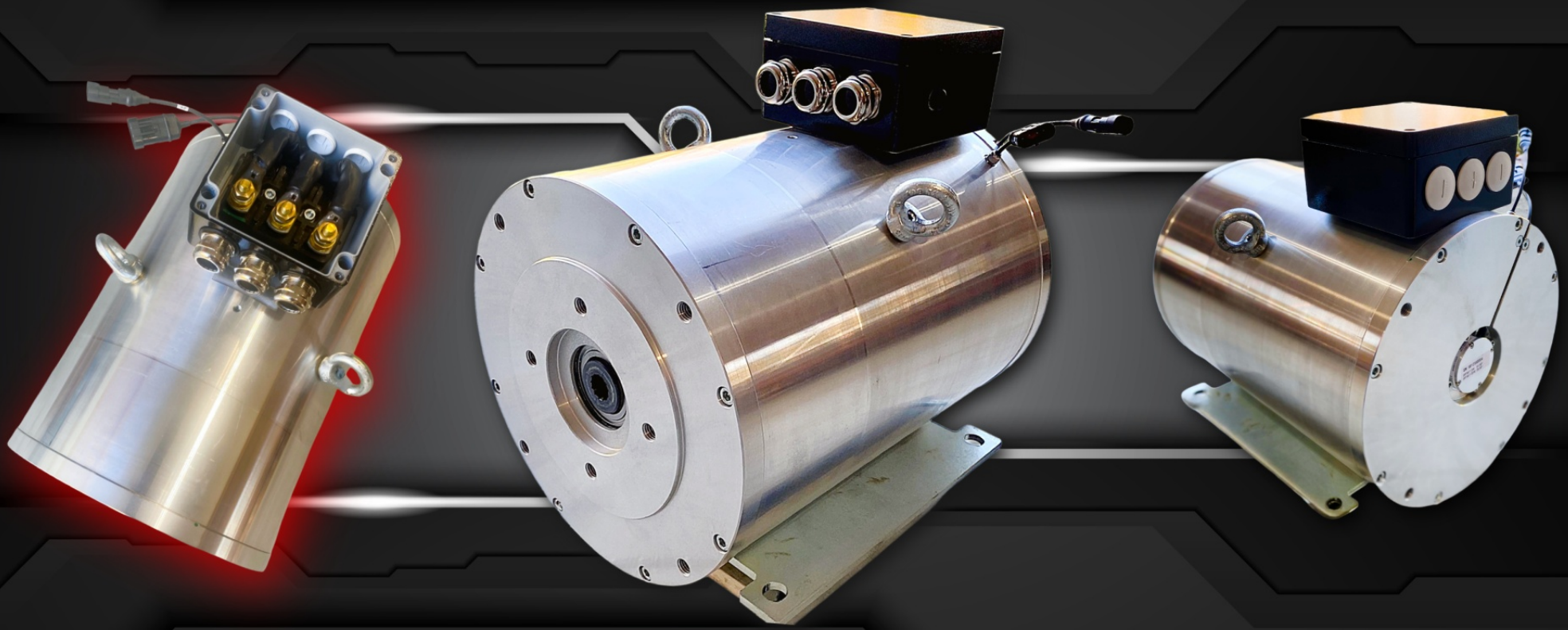
HyPer 12™ - 120Vdc Power Curves*

*Curves are simulated considering stand-alone motor (no coupling flange), natural convection cooling and ambient temperature = 40°C



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HyPer 12™



FOR CONTINUOUS POWER