



HyPer9 144Volt HV AC Motor X144 Controller Kit



Overview

The long awaited AC motor from NetGain is here. The new 9 inch HyPer9 AC motor is based on a new high efficiency design. The motor is a permanent magnet assisted synchronous reluctance design and holds the highest efficiency rating of IE4+ at 94% motor efficiency. The motor is IP56 sealed. The matching controller, an AC-X1 by SME Group will accept a supply side DC voltage of up to 132 Volts, and will output up to 760 Amps output, with a peak 120 HP (90kW) of power.

Quick Specs

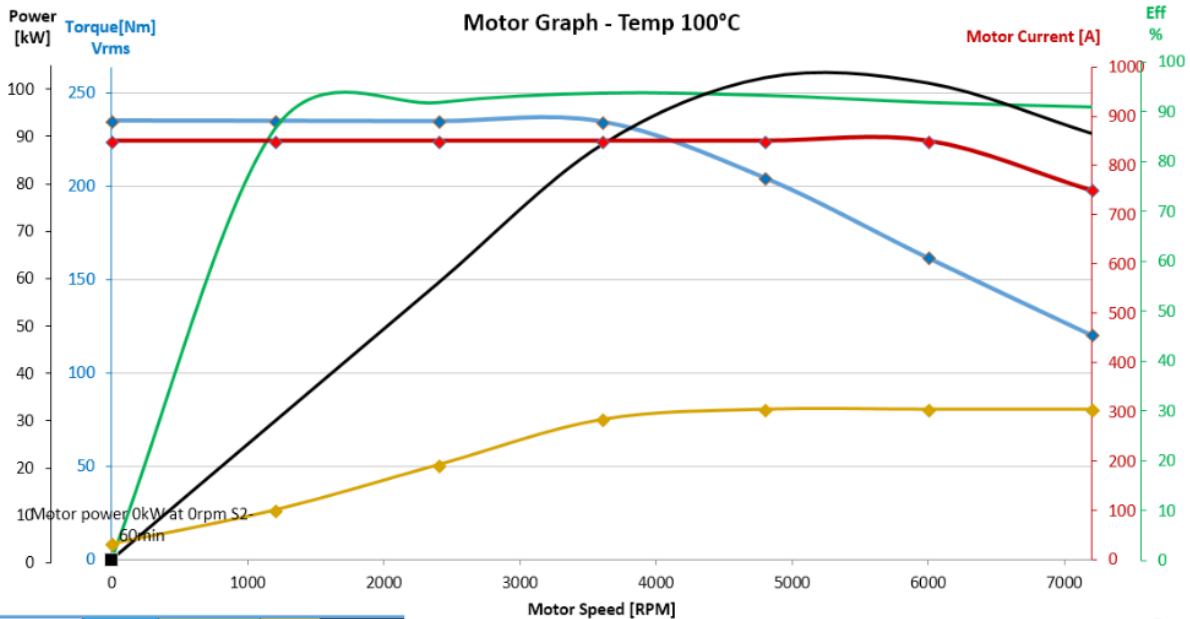
- **Weight: 120 lbs**
- **Motor Case Length: 13.75"**
- **Motor Shaft Length: 2"**
- **Max Voltage Input: 132V**
- **Rated Torque: 173h ft lbs**
- **Rated Horsepower: 120 HP**
- **Max RPM: 8,000**

Kit Contents

- **HyPer9 HV Motor**
- **SME AC-X144 Controller**
- **Wiring Harness, 35 Pin Connector**
- **Gigavac GV200-QA Contactor**
- **12 Volt HV Relay**

Specifications – HyPer9 Motor X144 Controller Kit 144V

- **Motor Face:** B-Face (Warp Compatible)
- **Motor Diameter:** 9.0 Inches
- **Motor Case Length:** 13.75 Inches
- **Motor Shaft Length:** 2.0 Inches
- **Motor Shaft to End Length:** 15.75 Inches
- **Motor Type:** Permanent Magnet Synchronous Reluctance AC
- **Weight:** 120 lbs
- **Max Voltage Input:** 180
- **Terminal Stud Size:** M8 Inch
- **Integrated Sensors:** Encoder and Temperature
- **Rated Torque:** 173 Lb Ft
- **Rated Power:** 120 HP
- **Max RPM:** 8,000
- **RPM Sensor:** Yes
- **Drive End Shaft:** 1-1/8 Inch with 1/4 Inch Keyway
- **Accessory End Shaft:** Not Available (coming soon)
- **Max Efficiency:** 0.94
- **Thermal Cooling:** External Heatsink
- **Max Temperature:** 150 Degrees Celsius



Rpm	Nm	Mot Eff %	Vrms	Pm (kW)
0	235.1	0.0	8.5	0.0
1200	235.0	87.4	26.5	29.5
2400	234.8	92.8	50.8	59.0
3600	234.6	94.8	75.1	88.4
4800	204.5	94.3	80.6	102.8
6000	161.8	92.9	80.6	101.6
7200	120.6	91.9	80.6	90.9

DC Supply:
120V

HyPer 9™
& **HyPer 9D™**