

Aircore EC

Heavy Duty

Designed to go beyond

Motor and drive all in one

Integrated variable frequency drive (VFD) facilitates vertical-inline heavy duty applications, reducing overall energy usage.

Power more with less

50% lighter, 30% quieter and up to 25% more efficient, averaging \$2,300 in energy savings per motor.*



66% Less copper

50% Less weight and size

30% Less Noise

Using our innovative PC stator technology, Aircore EC motors offer class-leading efficiency in a smaller package. The Aircore EC provides the market's most comprehensive range of power and frame sizes along with IoT capabilities, bringing smart motor technology to a wide range of heavy duty applications.



Powerful intelligence

- State-of-the-art VFD for precise speed control which contributes to energy and audible noise reduction.
- I-con motor control software enables users to fine tune operational parameters to their specific applications.
- Maximum power density in a 50% smaller and lighter package.



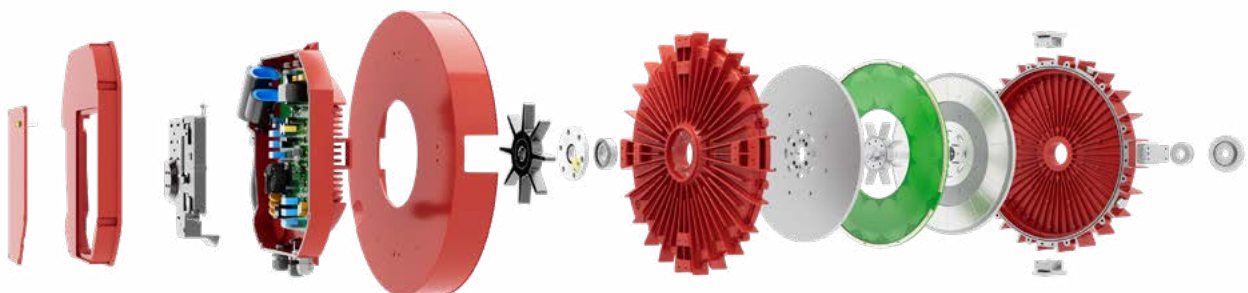
Optimized efficiency

- Meets highest efficiency standards at a wide range of operating conditions.
- Increased operational efficiency by eliminating torque ripple, cogging, stator hysteresis and eddy current losses.
- Compact form factor reduces wiring and facilitates direct mounting to fan applications, increasing efficiency by up to 25% compared to a traditional motor.



Sustainable solutions

- Our PCB stator uses 66% less copper and is 10x more reliable than traditional iron-core, copper-wound stators.
- Enhanced serviceability due to modular design enables the reuse and extended lifespan of components, keeping them out of the landfill.
- Increased efficiency reduces customer's scope 2 emissions by up to 25%.

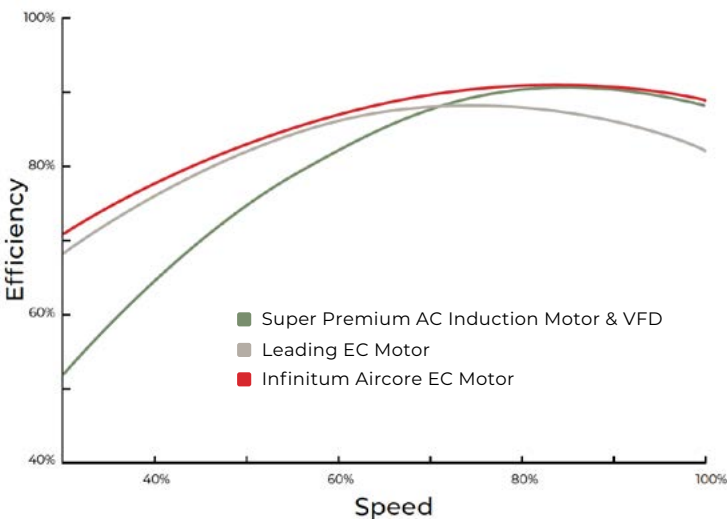




Catalog number	Power (HP/kW)	Speed (RPM)	Torque (Nm)	Diameter (in/cm)	Motor + drive length (in/cm)	Motor + drive weight (lb/kg)	NEMA frame	Bearing DE, NDE
AH20-1500-1800-AAAS-AA60 AH20-1500-1800-AAAH-AA60	15 / 11.2	1800	60	21.0in / 53.3cm	10.6n / 22.1cm	128.1lb / 44.7kg	254/6TC	6309ZZ
AH20-1000-1800-AAAS-AA60 AH20-1000-1800-AAAH-AA60	10 / 7.46	1800	40	21.0in / 53.3cm	10.6in / 22.1cm	99.0lb / 44.7kg	254/6TC	6309ZZ
AH18-1000-3600-AAAS-AA60 AH18-1000-3600-AAAH-AA60	10 / 7.46	3600	20	18.6in / 47.2cm	8.7in / 22.1cm	96.1lb / 43.6kg	213/5TC	6308ZZ
AH18-0750-1800-AAAS-AA60 AH18-0750-1800-AAAH-AA60	7.5 / 5.59	1800	30	18.6in / 47.2cm	8.7in / 22.1cm	96.1lb / 43.6kg	213/5TC	6308ZZ
AH15-0750-3600-AAAS-AA60 AH15-0750-3600-AAAH-AA60	7.5 / 5.59	3600	15	16.4in / 41.7cm	8.7in / 22.1cm	81.4lb / 36.9kg	213/5TC	6308ZZ
AH15-0500-1800-AAAS-AA60 AH15-0500-1800-AAAH-AA60	5 / 3.73	1800	20	16.4in / 41.7cm	8.7in / 22.1cm	81.4lb / 36.9kg	213/5TC	6308ZZ
AH13-0500-3600-AAAS-AA60 AH13-0500-3600-AAAH-AA60	5 / 3.73	3600	10	14.5in / 36.7cm	9.1in / 23.1cm	62.8lb / 28.5kg	182/4TC	6206ZZ

Note: The letters S and H in the catalog number indicate supported bearing types.

Aircore EC motor efficiency



Electrical	
Voltage	460 VAC (± 10%), 3Φ
Input frequency	60 Hz
Analog input	0-10 V, 4-20 mA
Digital inputs	24 VDC
Speed control	Modbus RTU, Analog
Mechanical	
Enclosure	TEFC/IP65
Mounting	Frame, C-face
Relative humidity	95% non-condensing
Maximum elevation	Up to 1000m, de-rate above 1000m
Bearing	Sealed or Shielded; Steel or Hybrid



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* Infinitum motor system compared to IE4/ NEMA Super Premium AC Induction motor + VFD over a 10-year lifetime. Efficiencies are dependent on specific motor and application.