

Integrated Motor + Drive

Power, Intelligence & Controls - All In One

Integrated variable frequency drive (VFD) facilitates variable speed applications, reducing overall energy usage.

Power more with less.

- 50% lighter,
- 30% quieter and
- 10% more efficient than traditional AC induction motors.



Powerful intelligence

State-of-the-art VFD allows precise speed control, reduces energy usage, and operates at a frequency to minimize audible noise.

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 load 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 10-15%.

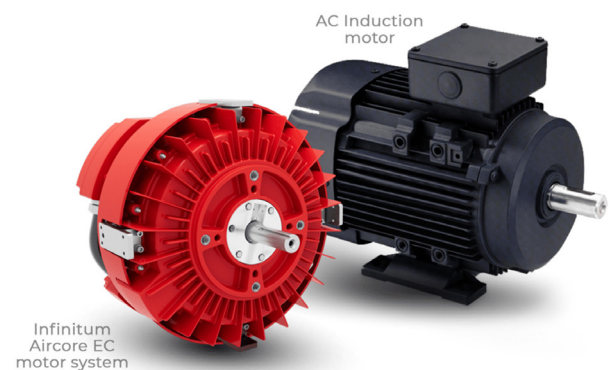
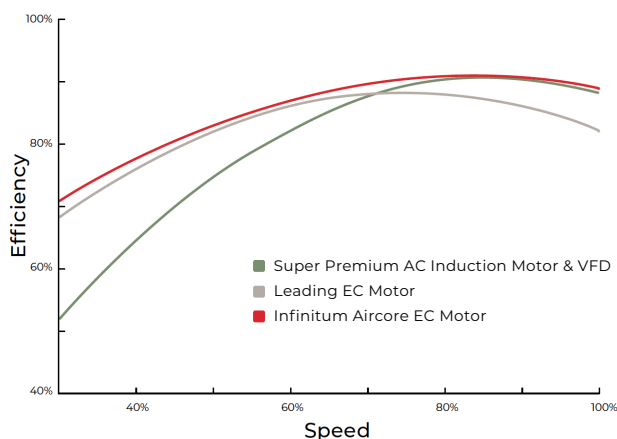
Sustainable solution

PCB stator uses 66% less copper and has proven to be 10x more reliable than traditional iron-core, copper-wound stators.

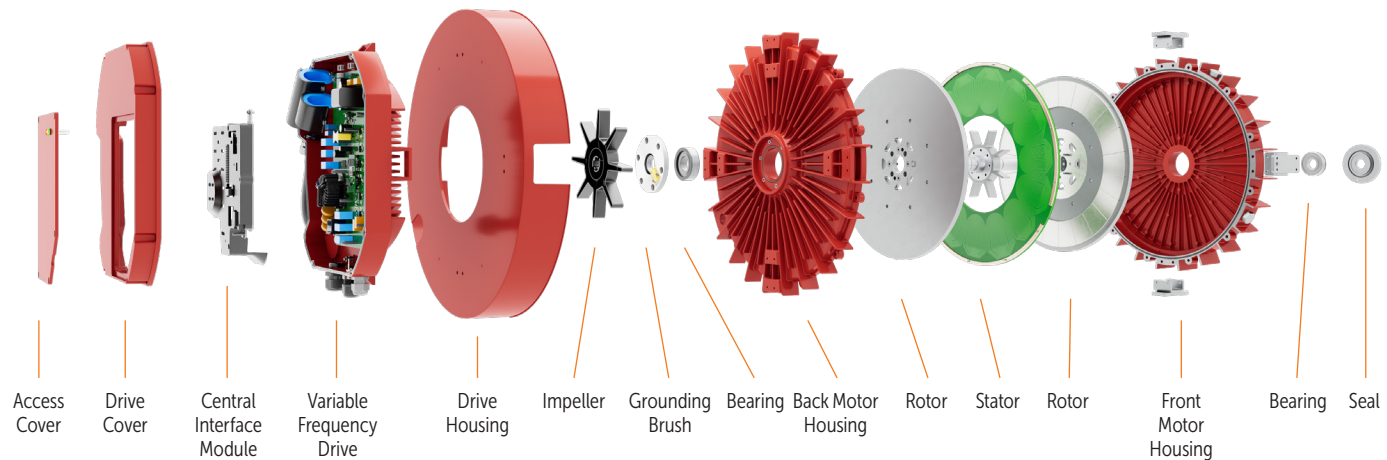
Smaller and lighter housing reduces transportation emissions by 30%.

Easy serviceability through our modular design enables the reuse and extended lifespan of components, keeping them out of the landfill.

Aircore EC motor efficiency



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Gen4 Aircore EC Motor Selection

	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
STANDARD	AE20-1500-3600-AAA*-AA40	15 / 11.19	3600	30	21.1in / 53.7cm	8.9in / 22.5cm	128.1lb / 58.1kg		
	AE20-1500-2400-AAA*-AA40	15 / 11.19	2400	45	21.1in / 53.7cm	8.9in / 22.5cm	128.1lb / 58.1kg		
	AE20-1500-1800-AAA*-AA40	15 / 11.19	1800	60	21.1in / 53.7cm	8.9in / 22.5cm	128.1lb / 58.1kg		
	AE20-1000-1800-AAA*-AA40	10 / 7.46	1800	40	21.1in / 53.7cm	8.9in / 22.5cm	128.1lb / 58.1kg		
	AE18-1000-3600-AAA*-AA40	10 / 7.46	3600	20	18.6in / 47.2cm	8.7in / 22.1cm	96.1lb / 43.6kg		
	AE18-1000-2400-AAA*-AA40	10 / 7.46	2400	30	18.6in / 47.2cm	8.7in / 22.1cm	96.1lb / 43.6kg		
	AE18-0750-1800-AAA*-AA40	7.5 / 5.59	1800	30	18.6in / 47.2cm	8.7in / 22.1cm	96.1lb / 43.6kg		
	AE15-0750-3600-AAA*-AA40	7.5 / 5.59	3600	15	16.4in / 41.7cm	8.7in / 22.1cm	81.4lb / 36.9kg		
	AE15-0750-2400-AAA*-AA40	7.5 / 5.59	2400	22.5	16.4in / 41.7cm	8.7in / 22.1cm	81.4lb / 36.9kg		
	AE15-0500-2400-AAA*-AA40	5 / 3.73	2400	25	16.4in / 41.7cm	8.7in / 22.1cm	81.4lb / 36.9kg		
	AE15-0500-1800-AAA*-AA40	5 / 3.73	1800	20	16.4in / 41.7cm	8.7in / 22.1cm	81.4lb / 36.9kg		
	AE13-0500-4200-AAA*-AA40	5 / 3.73	4200	8.5	14.5in / 36.7cm	9.1in / 23.1cm	62.8lb / 28.5kg		
	AE13-0500-3600-AAA*-AA40	5 / 3.73	3600	10	14.5in / 36.7cm	9.1in / 23.1cm	62.8lb / 28.5kg		
HEAVY DUTY	AH18-1000-3600-AAAS-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	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	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	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	5 / 3.73	3600	10	14.5in / 36.7cm	9.1in / 23.1cm	62.8lb / 28.5kg	182/4TC	6206ZZ

Replace * with desired bearing types. S = Steel Bearings, H = Hybrid Bearings

Electrical

Voltage 460 VAC (± 10%), 3 Phase
Input frequency 60 Hz
Analog references 0-10 V, 0-20 mA
Digital inputs 24 VDC

Mechanical

Enclosure TEFC/IP54 on AE, IP65 on AH
Mounting Frame, C-face
Relative humidity 95% non-condensing
Maximum elevation Up to 1000m, de-rate above 1000m



Configure your motor today at
www.sprecherschuh.com/infinitum