



Comfort Select™ FC

ECM Fan Coil Replacement Motor

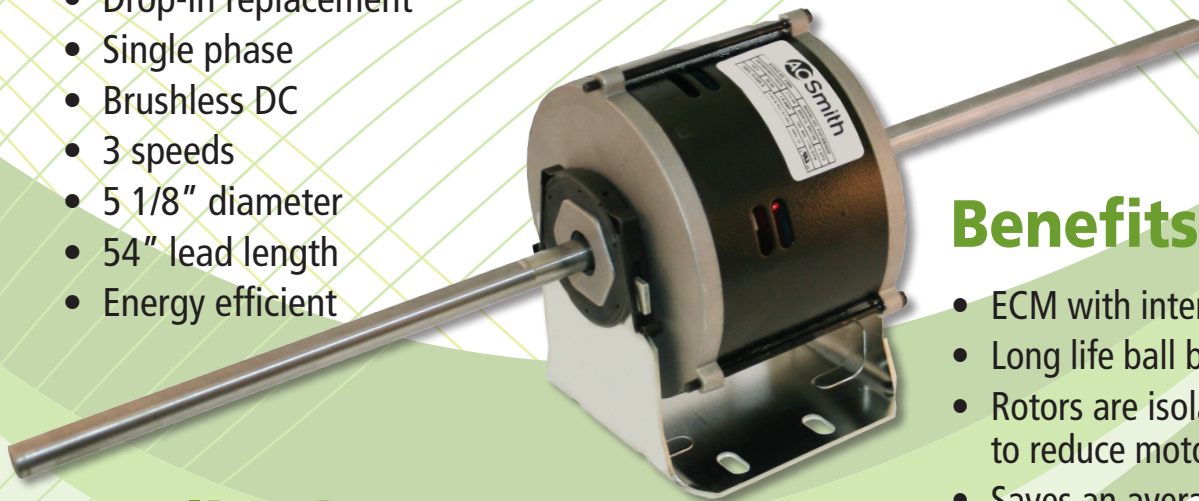
(Electronically Commutated Motor)



A. O. Smith's new Comfort Select~FC is a brushless DC high efficiency motor that runs off 120 volt single phase input. The motor is controlled by integrated electronics providing advanced motor protection with the same performance characteristics as a shaded pole or PSC (permanent split capacitor) motor. The Comfort Select~FC is designed as a direct replacement or retrofit product for shaded pole and PSC motors and may be used in fan coil and PTAC* applications as an energy saving retrofit.

Features

- Drop-in replacement
- Single phase
- Brushless DC
- 3 speeds
- 5 1/8" diameter
- 54" lead length
- Energy efficient



Benefits

- ECM with internal control
- Long life ball bearings
- Rotors are isolated from shaft to reduce motor vibration
- Saves an average of 69% on energy usage
- Runs cooler
- Easy to install

Applications

Fan Coils, Air Conditioners, Blowers, Shaded Pole, PSC Retrofit, Trane, Carrier, Amana, GE, Fan Coil & PTAC Units



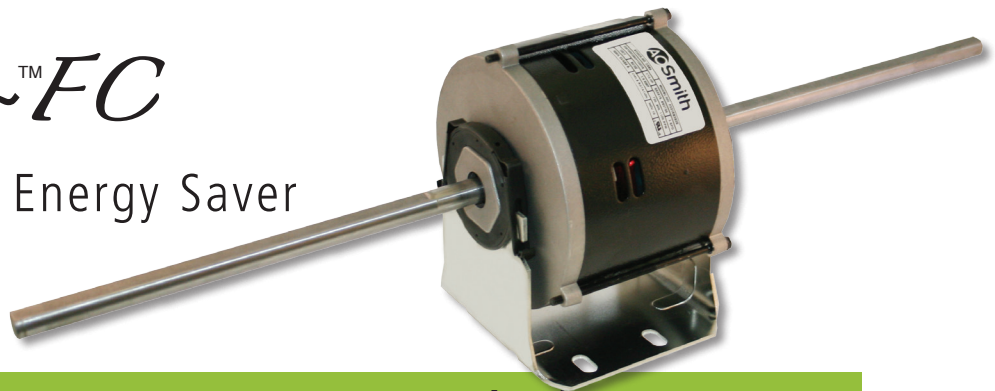
Specifications

Stock Number	HP	Speeds	RPM	Volts	Amps	Frame	Rotation	Shaft Dia. & Length
CS89	1/10	3	1100,900,700	120	1.56	42	CWLE	9.3 x 1/2" x 9.3

*Packaged Terminal Air Conditioner

Comfort Select™ FC

The Affordable Energy Saver



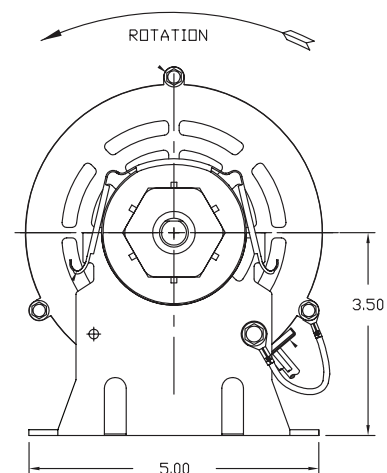
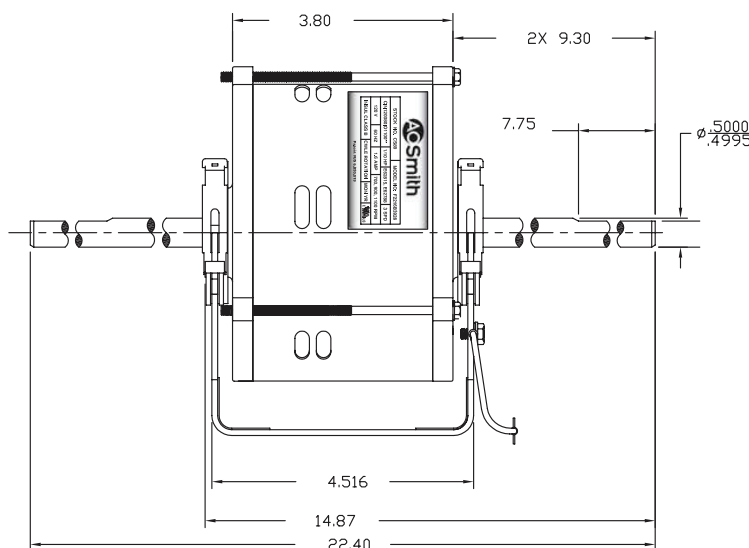
Energy Saving Comparison

Motor Reference	Amp	Volts	Input Watts	Hours of Operation	kWh Per Day	kWh Per Year	Cost Per kWh	Annual cost to operate	% kWh Saved	Annual Savings
Shaded Pole	3.07	120	197.00	8	1.58	575.24	\$0.10	\$57.52		
CS89 High	1.56	120	94.00	8	0.75	274.48	\$0.10	\$27.45	52%	\$30.08
Shaded Pole	2.61	120	188.50	8	1.51	550.42	\$0.10	\$55.04		
CS89 MED	0.86	120	49.00	8	0.39	143.08	\$0.10	\$14.31	74%	\$40.73
Shaded Pole	2.14	120	151.90	8	1.22	443.55	\$0.10	\$44.35		
CS89 LOW	0.55	120	30.00	8	0.24	87.60	\$0.10	\$8.76	80%	\$35.59

kWh= KiloWatt hours

Average Annual Savings: | 69% | \$106.40

Total Building Savings	Single Unit Savings	(X)	Number of Units	(=)
CS89 Replacing Shaded Pole	\$106.40		95	\$10,108.46



Divisional Headquarters
A. O. Smith Electrical Products Company
531 North Fourth Street
Tipp City, OH 45371
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