

Comfort Select ~FB motors
offer ultra quiet operation, **Benefits** Available in 115V AC or 208-277V AC input voltage Available in 1 HP and 1/2 HP configurations to replace premium air quality, and 6-pole PSC motors that range from 1/4 HP to 1 HP Peak efficiency of 82% Class F Motor Insulation Green Choice® technology resulting Built-in overheating protection Rated for operation in 50° C ambient in a continuous in comfort for the home and comfort for the environment. air-over environment Advanced motor protection through electronics provides greater operating life and increased reliability Connects directly to the System Control Board the same way the PSC motor was connected No complex wiring modifications or signal wires The Comfort Select~FB motor is a brushless, direct current (BLDC), permanent magnet, electronically Five speed taps provide speed-torque profiles similar commutated motor (ECM). The motor is controlled to multi-speed PSC motors ➤ High = 1100 RPM by integrated electronics providing high efficiency, ➤ Medium High = 1000 RPM advanced motor protection, and has the same ➤ Medium = 900 RPM performance characteristics as a PSC motor. ➤ Medium Low = 800 RPM The Comfort Select~FB motor is designed as a \rightarrow Low = 600 RPM (Fan) direct replacement or retrofit product for a

Camfart for your Home...

PSC motor.

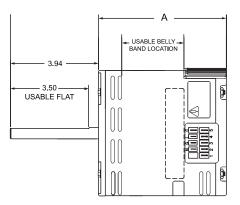
Automatic detection of correct rotation for both

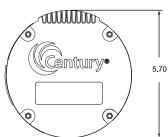
A learn mode that provides improved efficiency and greater flexibility for matching PSC motor performance in a furnace/air-handler unit

backward and forward curved blowers

This highly efficient motor

is a self-contained unit primarily intended for use in the indoor blower market, mostly in residential and light commercial HVAC systems (heating, ventilating, and air conditioning).





The Comfort Select ~ FB motor is available in four different models									
Stock #	Volts	HP	Speeds	Amps	RPM Range	Shaft Dia. & Length	Motor Length (A)	Frame Size	
CSL1056	115V	1/2	5	6.3	1100-600	1/2" X 4"	5.72"	48	
CSL1106	115V	1	5	11.6	1100-600	1/2" X 4"	7.21"	48	
CS1056	208-277V	1/2	5	3.6-3.0	1100-600	1/2" X 4"	5.72"	48	
CS1106	208-277V	1	5	6.9-5.7	1100-600	1/2" X 4"	7.21"	48	

The following figure shows the Comfort Select~FB Motor Interface Module. There are seven cables that connect to the System Control Board and two connectors, power and signal, that connect to the Comfort Select~FB motor.



Stock #1479

Comfort for your Environment! The belly band style mounting bracket from the existing PSC motor can be reused. See bulletin #1100 for the complete line of mounting brackets.

MOTOR COMPARISON

PSC MOTOR

ECM RETROFITComfort Select~FB

TECHNOLOGY

Induction Motor

Brushless DC

AVAILABLE HORSEPOWER

1/3, 1/2, 3/4, 1 HP

1/4, 1/3, 1/2, 3/4, 1 HP

SPEEDS

Select 1-5 taps

Select 1-5 profiles

SPEED RANGE

1100-800 RPM

1100-600 RPM

INTELLIGENT CONTROLS

NO

Speed, Compensated Profiles

ADVANCED FEATURES

NO

Auto Rotation and Learn Mode

PEAK MOTOR EFFICIENCY

59%

82%

SUMMARY

No Features, Baseline Product

Advanced Features, High Efficiency

APPLICATION

Retrofit & OEM

Retrofit for indoor PSC Motors

CROSS REFERENCE

Century Stock Numbers	Emerson Stock Numbers	Mars Stock Numbers					
CSL1056	5530ET	06005					
CSL1106	5550ET	06010					
CS1056	5531ET	06005					
CS1106	5551ET	06010					









