

SelecTech® Constant Torque EC Motors

Rugged ECM Technology



- Robust ECM design based upon years of Nidec field experience
- Designed to operate in the demanding environments found in residential and light commercial HAC systems
- Patented high efficiency design provides improved SEER performance in A/C systems when compared to PSC motors
- Integrates easily into existing air moving systems with simple 24V control and constant torque operation



Product Overview

The SelecTech® motor is a durable, easy to integrate Electrically Commutated (ECM) solution for high efficiency air handlers or gas furnaces. The five 24 volt tap settings are fully programmable for differing airflow requirements in multiple applications. Rugged and simply to operate, the SelecTech® is setting a new benchmark for reliable ECM technology.

Key Features and Benefits

- High Efficiency EC Constant Torque Motor
- 5 programmable 24-volt speed taps with programmable off delays
- Easy integration into air handlers and furnaces with simple 24V signals
- 6000V surge protection – more than double the protection of many OEM motors
- Fully potted electric module for superior moisture protection

Specifications

Horsepower: 1/3, 1/2, 3/4, 1 HP

Voltage: 1Ø, 115, 208 – 230 or 277 Volts (460V coming soon)

Speeds: 600 – 1200 RPM

Inputs: Five Programmable, 24 V Torque Settings

Operation Modes: Constant Torque, Constant Speed

Frame: NEMA®† 48

Enclosure: Open Air Over (OAO)

Efficiency: Up to 82%

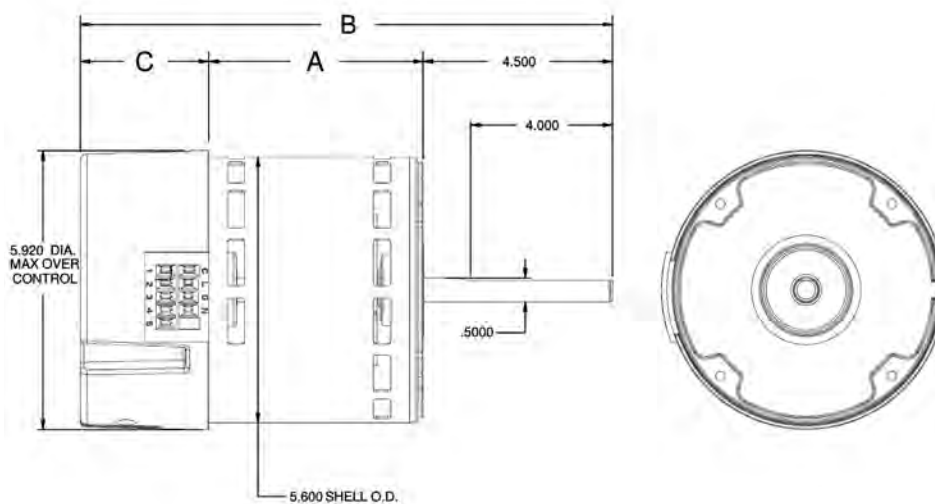
Mounting: Belly-band, Stud Mount



Dual Shaft / Remote Mounted Electronics

Unlike competitive constant torque ECM units, the SelecTech® motor electronics can be mounted remotely, suitable for applications requiring dual shaft or in which there is limited space around the motor.

Dimension Print



HP	RPM	Voltage	Frame	Dimension		
				A	B	C
1/3	600-1200	115	48	3.525	10.743	2.219
1/2	600-1200	115	48	3.525	10.743	2.219
3/4	600-1200	115	48	4.024	11.243	2.219
1	600-1200	115	48	4.524	11.743	2.719
1/3	600-1200	208-230	48	3.525	10.743	2.219
1/2	600-1200	208-230	48	3.525	10.743	2.219
3/4	600-1200	208-230	48	4.024	11.243	2.219
1	600-1200	208-230	48	4.524	11.743	2.719

HP	RPM	Voltage	Frame	Dimension		
				A	B	C
1/3	600-1200	277	48	3.525	10.243	2.219
1/2	600-1200	277	48	3.525	10.243	2.219
3/4	600-1200	277	48	4.524	11.243	2.219
1	600-1200	277	48	4.524	11.743	2.719
1/3	600-1200	460*	48	3.525	10.361	2.337
1/2	600-1200	460*	48	3.525	11.361	2.337
3/4	600-1200	460*	48	4.524	11.361	2.337
1	600-1200	460*	48	4.524	11.861	2.837

* Coming soon

† All marks shown within this document are properties of their respective owners.

Nidec Motor Corporation, 2011; All Rights Reserved. U.S. MOTORS® is a registered trademark of Nidec Motor Corporation. Nidec Motor Corporation trademarks followed by the ® symbol are registered with the U.S. Patent and Trademark Office.