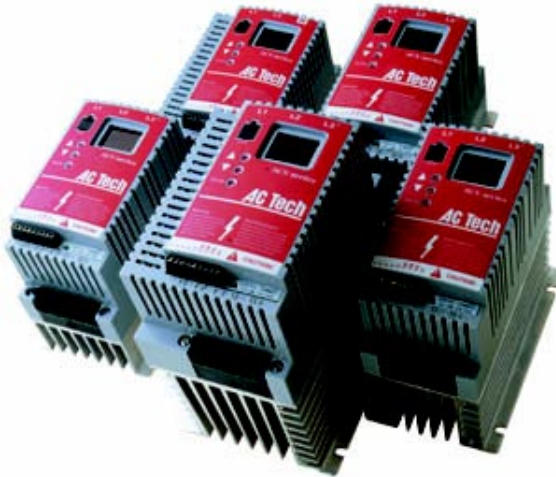


# AC Tech

## Variable Speed AC Motor Drives



### THE SCN SERIES - Sub-micro AC drive

This family of variable frequency drives delivers breakthrough pricing plus superior performance in contactor style packaging.

- ... **plus** smoother acceleration and deceleration than soft starts
- ... **plus** reversing with lower machine stress than reversing starters.
- ... **plus** multiple speed selection without expensive 2 speed starters.
- ... **plus** accuracy and stability of digital controls!
- ... **minus** the extra cost of those old solutions!

The user manual and quick reference guide for the SCN Series Drive, and all AC Tech drives, are available in the AC Tech website Library: [www.atechdrives.com](http://www.atechdrives.com).

### General Specifications

**Horsepower:** ¼ to 3 HP (0.18 to 2.2 kW)

#### Supply Power:

- Single Phase: 120, 208 or 240 VAC
- Three Phase: 208, 240 VAC
- 50 or 60 Hz (+10/-15%)

**Motors:** The SCN is designed to operate standard polyphase induction motors rated for 200 or 230 VAC from 0 to 99 Hz.

**Enclosure:** Rugged IP20 with finger safe terminals.

### Standard Features

**Easy Set-up and Operation:** The SCN is easy to use right out of the box or can be customized to meet your specific requirements any one of three convenient ways:

- From the front of the drive
- The innovative EPM Programmer.
- A PC using AC Tech's free TechLink Software and the EPM Programmer.

**Motor Thermal Overload:** The SCN is an approved motor protection device for single motor applications by UL and cUL.

**Control I/O:** 9 non-isolated terminals provide connection for a speed pot, start/stop logic, 3 programmable logic inputs and 1 programmable logic output.

**Quiet Operation:** Adjustable carrier frequency to 10 kHz.

### SCN Options

#### DIN Rail Mounting Kit:

Allows easy mounting of the SCN drive onto standard DIN Rail.



#### Dynamic Braking Kit:

Prepackaged resistor modules with control electronics provide easy mounting within the control cabinet.

#### Through Hole Mounting:

The SCN Series can be ordered for through hole mounting that puts the drive heat sink outside the electrical enclosure for better thermal management and space savings. Ships on black anodized heat sink with gasket that will meet NEMA 4 and NEMA 4X (IP65) construction.



#### EPM Programmer:

This compact battery operated option allows programming the EPM (on the front of each drive) directly and without power to the drive!

Copy drive parameters easily or write new ones using the backlit LCD display that uses real language programming.



# SCN Series Model Designation Code

The SCN Series model number gives a full description of the basic drive unit (see example below).

Example: SN210S  
(SCN Series, 208/240 VAC, 1 HP, single phase input)

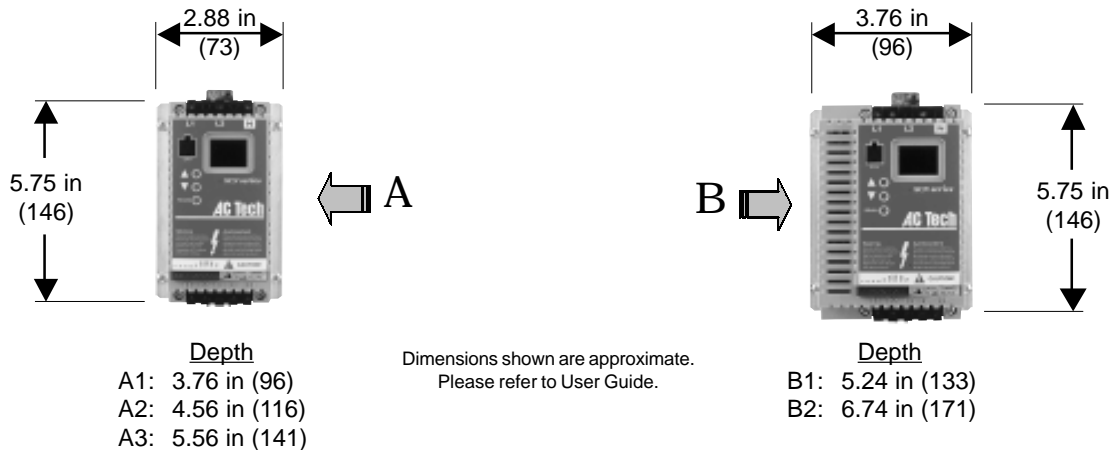
				<b>SN</b>	<b>2</b>	<b>10</b>	<b>S</b>
<b>Series:</b>							
SN = SCN Series <i>basic</i> Variable Speed AC Motor Drive							
<b>Input Voltage:</b>							
1 = 120 / 208 / 240 VAC, 1 $\phi$ , 50 or 60 Hz (110, 120, 208, 220, 230 and 240 volt)							
2 = 208 / 240 VAC, 1 $\phi$ or 3 $\phi$ , 50 or 60 Hz (208, 220, 230 and 240 volt)							
<b>Horsepower:</b>							
03 = ¼ Hp		15 = 1½ Hp					
05 = ½ Hp		20 = 2 Hp					
10 = 1 Hp		30 = 3 Hp					
<b>Input Phase:</b>							
S = Single phase input only							
No character indicates three phase input							

## SCN Series Drive Dimensions and Ratings

16.6 / 9.6 / 8.3

Output Voltage: 0 - 200 / 230 Volts 3 $\phi$														
HP	(kW)	Output Amps	Input: 120 / 208 / 240 VAC 1 $\phi$				Input: 208 / 240 VAC 1 $\phi$				Input: 208 / 240 VAC 3 $\phi$			
			Model	Size	Input Amps	Weight <sup>1</sup>	Model	Size	Input Amps	Weight <sup>1</sup>	Model	Size	Input Amps	Weight <sup>1</sup>
¼	(0.18)	1.6 / 1.4	SN103S	A1	6.0 / 3.5 / 3.0	2.0	SN203S	A1	3.6 / 3.2	1.9				
½	(0.37)	2.5 / 2.2	SN105S	A1	9.2 / 5.3 / 4.6	2.2	SN205S	A1	5.4 / 4.7	1.9	SN205	A1	3.1 / 2.7	1.9
1	(0.75)	4.6 / 4.0	SN110S	B1	16.6 / 9.6 / 8.3	3.5	SN210S	A2	10.6 / 9.2	2.5	SN210	A2	5.8 / 5.1	2.5
1½	(1.1)	6.2 / 5.4	SN115S	B1	24 / 13.9 / 12.0	4.6	SN215S	B1	13.9 / 12.0	3.5	SN215	A3	8.0 / 6.9	3.0
2	(1.5)	7.8 / 6.8					SN220S	B1	14.8 / 12.9	4.0	SN220	A3	9.1 / 7.9	3.2
3	(2.2)	11.0 / 9.6					SN230S	B2	19.7 / 17.1	4.8	SN230	B2	12.4 / 10.8	4.6

<sup>1</sup> Estimated UPS shipping weight (lbs.) including packaging.



**AC Tech**