



THE SCD SERIES - *DeviceNet* drive
A *DeviceNet* ready variable frequency drive
at a **fair** price!

AC Tech's SCD Series complies with the ODVA requirements for this standard industrial protocol. The ultra-compact SCD drive is available in all standard industrial voltages with the widest power range in the sub-micro drive class.

General Specifications

Horsepower: ¼ to 25 HP (0.18 to 18.5 kW)

Supply Power:

Single Phase: 208 or 240VAC

Three Phase: 208, 240, 400, 480 or 590VAC
50 or 60 Hz (+10/-15%)

Motors: The SCD is designed to operate standard polyphase induction motors rated for 200, 230, 400, 460 or 575VAC from 0 to 240Hz. Operation to 1000Hz is optional.

Enclosure: Rugged IP20 with finger safe terminals.

Standard Features:

Easy Set-up & Operation:

Program the drive three different ways:

- Buttons on drive face
- EPM Programmer
- TechLink Software can be used to program the SCD through the EPM Programmer.

Motor Thermal Overload

UL approved as a motor protection device on variable speed applications for single motor applications.

Control Terminals:

18 Control terminals provide:

- Start/Stop control
- 3 Programmable logic inputs
- 2 Programmable digital outputs
- 2 Analog outputs
- Plugable *DeviceNet* terminal block

Slip Compensation:

Provides approximately 1% speed regulation.

Current Limit to 180% for 30 seconds with frequency foldback to prevent tripping.

Display: Highly visible LED.

Quiet Operation: Adjustable carrier frequency to 10 kHz.

DeviceNet Features:

Device Type: AC Drives

AC Drive Profile is supported

I/O Slave Messaging:

- Polling • Change of state (COS)
- Bit-Strobe • Cyclic

Available baud rates: 125 kbps, 250 kbps, 500 kbps

Configuration Methods:

- EDS (Electronic Data Sheet)
- Drive keypad (always enabled, password protected)

Options:

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.

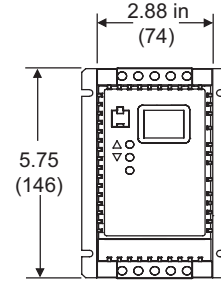
Dynamic Braking Kit: Prepackaged resistor modules with control electronics provide easy mounting within the control cabinet.

Din Rail Mounting: This option provides for easy mounting of the drive and DB option onto standard DIN rail. Unique design keeps mounting secure.

AC Line Filters: AC input line filters are available for all sub-micro drives to meet European requirements for susceptibility and emissions of electrical and radiated noise (EN 61800-3 and EN 5501). The filter is designed to mount to the electrical panel and has provisions for mounting the drive directly to the face of the filter.



Input Line Voltage: 208 / 240 Volt 1Ø or 3Ø		Output Voltage: 0 - 200 / 230 Volt 3Ø					
HP	(kW)	Input Amps		Output Amps	IP 20 Dimensions		
		1Ø	3Ø		Model	Size	Weight ¹
¼	(0.18)	3.6 / 3.2	1.9 / 1.7	1.6 / 1.4	SD203Y	A1	1.9 (0.9)
½	(0.37)	5.4 / 4.7	3.1 / 2.7	2.5 / 2.2	SD205Y	A1	1.9 (0.9)
1	(0.75)	10.6 / 9.2	5.8 / 5.1	4.8 / 4.2	SD210Y	A2	2.5 (1.1)
1 ½	(1.1)	13.9 / 12.0	8.0 / 6.9	6.9 / 6.0	SD215Y	B1	3.5 (1.6)
2	(1.5)	14.8 / 12.9	9.1 / 7.9	7.8 / 6.8	SD220Y	B2	4.5 (2.0)
3	(2.2)	19.7 / 17.1	12.4 / 10.8	11.0 / 9.6	SD230Y	B2	4.8 (2.2)
5	(3.7)	29 / 26	19.6 / 17.1	17.5 / 15.2	SD250Y	C1	7.6 (3.4)

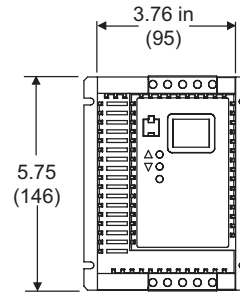


A

Depth

- A1: 3.94 in (100)
- A2: 4.74 in (120)
- A3: 5.74 in (146)
- A5: 3.26 in (83)
- A6: 3.63 in (92)
- A7: 5.56 in (141)

Input Line Voltage: 208 / 240 Volt 3Ø		Output Voltage: 0 - 200 / 230 Volt 3Ø				
HP	(kW)	Input Amps	Output Amps	IP 20 Dimensions		
				Model	Size	Weight ¹
1	(0.75)	5.8 / 5.1	4.8 / 4.2	SD210	A2	2.5 (1.1)
1 ½	(1.1)	8.0 / 6.9	6.9 / 6.0	SD215	A3	3.0 (1.4)
2	(1.5)	9.1 / 7.9	7.8 / 6.8	SD220	A3	3.1 (1.4)
3	(2.2)	12.4 / 10.8	11.0 / 9.6	SD230	A3	3.2 (1.5)
5	(3.7)	19.6 / 17.1	17.5 / 15.2	SD250	B2	4.6 (2.1)
7 ½	(5.5)	28 / 25	25 / 22	SD275	C1	7.3 (3.3)
10	(7.5)	34 / 32	30 / 28	SD2100	C1	7.5 (3.4)
15	(11)	54 / 48	48 / 42	SD2150	D1	13.0 (5.9)
20	(15)	65 / 61	58 / 54	SD2200	D1	13.5 (6.1)

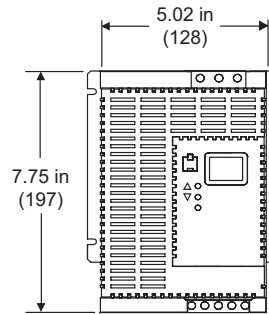


B

Depth

- B2: 6.74 in (171)
- B5: 4.88 in (124)
- B6: 5.53 in (140)

Input Line Voltage: 400 / 480 Volt 3Ø		Output Voltage: 0 - 400 / 460 Volt 3Ø				
HP	(kW)	Input Amps	Output Amps	IP 20 Dimensions		
				Model	Size	Weight ¹
½	(0.37)	1.6 / 1.4	1.3 / 1.1	SD405	A1	1.9 (0.9)
1	(0.75)	2.9 / 2.5	2.4 / 2.1	SD410	A2	2.4 (1.1)
1 ½	(1.1)	4.0 / 3.6	3.4 / 3.0	SD415	A3	2.9 (1.3)
2	(1.5)	4.6 / 4.0	3.9 / 3.4	SD420	A3	3.1 (1.4)
3	(2.2)	6.2 / 5.4	5.5 / 4.8	SD430	A3	3.2 (1.5)
5	(3.7)	9.8 / 8.6	8.7 / 7.6	SD450	B2	4.6 (2.1)
7 ½	(5.5)	14.2 / 12.4	12.6 / 11.0	SD475	C1	7.2 (3.3)
10	(7.5)	18.1 / 15.8	16.1 / 14.0	SD4100	C1	7.5 (3.4)
15	(11)	27 / 24	24 / 21	SD4150	D1	13.3 (6.0)
20	(15)	35 / 31	31 / 27	SD4200	D1	13.5 (6.1)
25	(18.5)	44 / 38	39 / 34	SD4250	D1	13.8 (6.3)

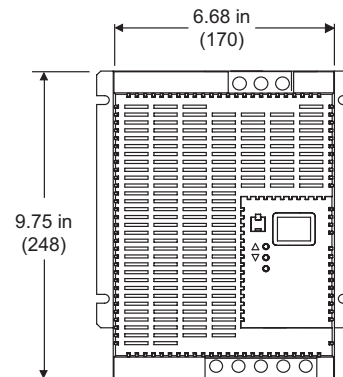


C

Depth

- C1: 7.18 in (182)

Input Line Voltage: 480 / 590 Volt 3Ø		Output Voltage: 0 - 460 / 575 Volt 3Ø				
HP	(kW)	Input Amps	Output Amps	IP 20 Dimensions		
				Model	Size	Weight ¹
1	(0.75)	2.2 / 2.0	1.9 / 1.7	SD510	A2	2.4 (1.1)
2	(1.5)	4.0 / 3.5	3.4 / 3.0	SD520	A3	3.1 (1.4)
3	(2.2)	4.7	4.2	SD530	B2	4.1 (1.9)
5	(3.7)	7.4	6.6	SD550	B2	4.7 (2.1)
7 ½	(5.5)	11.2	9.9	SD575	C1	7.1 (3.2)
10	(7.5)	13.7	12.2	SD5100	C1	7.4 (3.4)
15	(11)	22	19	SD5150	D1	7.7 (6.0)
20	(15)	27	24	SD5200	D1	13.5 (6.1)
25	(18.5)	31	27	SD5250	D1	14.0 (6.3)



D

Depth

- D1: 8.00 in (203)

¹ Estimated UPS Shipping Weight in lbs (kg) includes packaging.

Dimensions shown are approximate. Refer to User Guide.