

Allen-Bradley SD3K-2004  
**DC Drive Controller**



Limited Availability  
Used and in Good Condition

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# PRODUCT PROFILE

## GLOBAL DRIVE SYSTEMS SD 3000 PLUS DC DRIVE SOLUTION

Your DC power questions have been answered with the field proven performance of the SD 3000 PLUS DC drive control, now available with a broad line of DC power modules. The SD3000 PLUS DC Drive packages offer you all the advantages of DC Technology such as operator control, performance, efficient installation and commissioning.

The SD 3000 PLUS has the industry leading reputation for reliability, flexibility and full access to the Integrated Architecture of ControlLogix®. Configuration and programming uses the same software RSLogix™ 5000 and DriveTools™ SP as all of the other high performance drives offered by Rockwell Automation®. With these features, there are no additional programming or software modules for you to purchase, learn, or maintain.

The SD 3000 PLUS DC Drive packages are cost effective and can be applied to virtually any application, in any industry. Integration with ControlLogix offers you the ability to expand the scope of the application by adding a wide variety of I/O modules, communications, synchronization, and multiple programming languages for any task.

DC power modules used with the SD 3000 PLUS DC packages can be applied as a total DC drive configuration, which can be stand alone, networked with other drives or in a master configuration with other SD 3000 PLUS drives. In addition to these new DC drives, the SD 3000 PLUS Power Modules can be used to replace your existing DC SCR bridge modules. SD 3000 PLUS Power Modules use the latest technology in SCR as well as Thermal Heat Sinks making them 30% smaller than most competitor bridge sizes. This allows the SD 3000 PLUS power module to be adapted into existing cabinet spaces offering you a huge savings in demolition and wiring installations when faced with an upgrade decision.



Rated hp	Continuous Full Load DC Amps	Voltage Input/Output				Frame Size
		230V ac/ 240V dc	460V ac/ 500V dc	550V ac/ 600V dc	690V ac/ 750V dc	
50 100 125	170 170 170	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	—	1
100 200 250	330 330 330	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	—	2
185 390 470	538 538 538	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	—	3
265 560 675 844	900 900 900 900	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4
420 875 1050 1315	1410 1410 1410 1410	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5
670 1425 1710 2140	2280 2280 2280 2280	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6
935 1985 2385 2980	3178 3178 3178 3178	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	7

## FUNCTIONAL FEATURES INCLUDE:

- Digital control of current, velocity and voltage
- Configurable current limit
- Field current loss protection
- Speed regulation: 0.025% of 10:1 speed range (with feedback)
- Dynamic speed control
- Automatic tuning of current loop
- Configurable bandwidth
- Diagnostics



## SPECIFICATIONS

Input Voltage:	230, 460, 550 and 690V ac (depending on frame size)
Frequency:	45 to 65HZ, automatic adaption
Armature Voltage:	240V dc max./230V ac input 500V dc max./460V ac input 625V dc max./550V ac input 750V dc max./690V ac input
Protection:	Units above frame 2 include leg fuses.
Field Supplies:	S2R 20 AMP S2R 60 AMP
Operational Ambient:	40 degrees C typical
Installation Altitude:	Up to 3300 ft or 1000 meters

### Dimensions

mm			inches			kg	lbs	Module Frame Size	FLA
h	w	d	h	w	d				
37.47	22.23	21.59	14.75	8.75	8.5	9	19	1	226
37.47	22.23	23.88	14.75	8.75	9.4	10	21	2	331
27.94	51.44	32.31	11.17	20.25	12.72	27	60	3	338
29.06	58.42	32.87	11.44	23	12.94	34	75	4	842
43.18	58.42	33.93	17	23	13.36	41	90	5	1410
124.46	69.34	40.26	49	27.3	15.85	263	580	6	2806
132.08	77.47	40.26	52	30.5	15.85	263	580	7	3200

Contact: Rockwell Automation/ Local Drive Solution Center,  
Allen-Bradley Distributor or your Local Rockwell Automation Sales Office.

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**[www.rockwellautomation.com](http://www.rockwellautomation.com)**

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