

Reduced Voltage Electronic Soft Starts

Solid State Controllers 3RW30 & 3RW34

General

Features and Benefits

- Digital Signal Processor Design (3RW34 only)
- Adjustable Initial Torque
- Adjustable Start Time
- Adjustable Stop Time
- Internal Bypass (3RW30 only)
- MOVs included as standard
- Pump Stop (3RW34 only)
- Compatible with 3RV motor starter protector (3RW30 only)
- UL Listed
- CSA Certified
- CE Mark

Application

Since 1979, Nordic Controls has specialized in the development of rugged and reliable industrial solid-state motor controls. The production of these high quality products is now being continued under the Siemens name. One of the widest ranges of solid-state motor control products in the industry for both retrofit and OEM applications, Siemens soft start products incorporate the latest in solid-state technology.

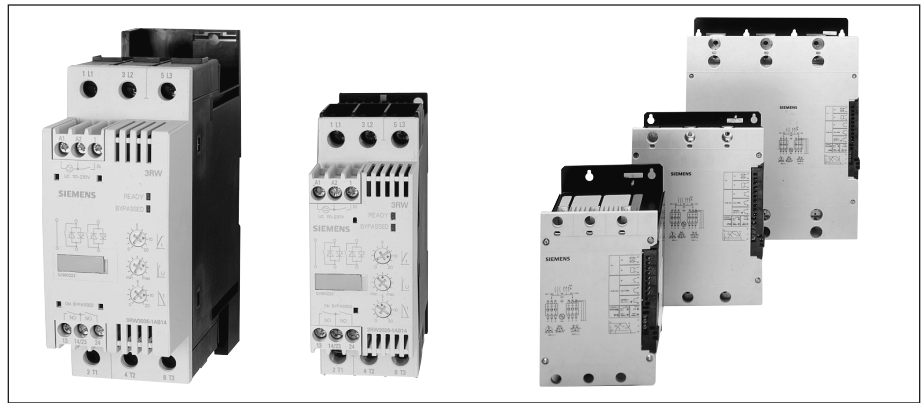
These solid state starters provide precise control of the starting and stopping of any AC induction motor. Solid-state reduced voltage starting allows motor voltage to be gradually applied, reducing potentially damaging high inrush currents and starting torques.

Siemens Offers Simplicity:

- Installation
- Set-up
- Operation
- Troubleshooting
- Repairing

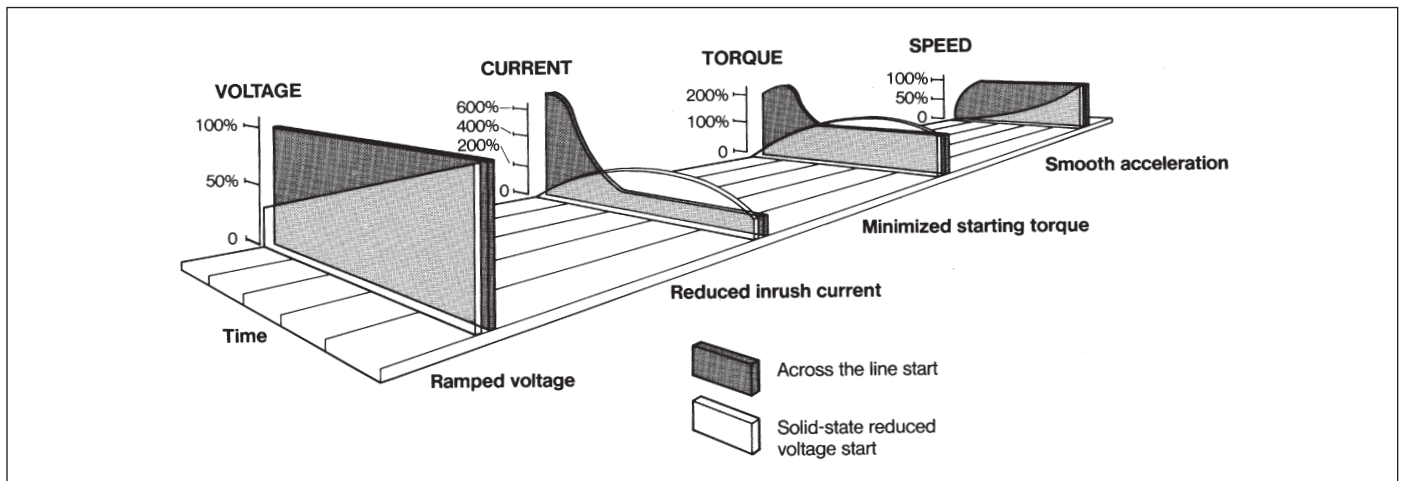
Siemens Offers Flexibility:

- Inside the delta control^①
- New or retrofit
- Fully adjustable for any application
- Single speed, two speed, reversing
- Soft-stop
- Voltage ramp to handle varying loads



Sirius 3RW30

Sikostart 3RW34



Benefits of Solid-State Starter

^①Available on select models.

Reduced Voltage Electronic Soft Starts

Solid State Controllers, 3RW30

Selection

 3RW30	Ordering Information ■ Technical Data see: www.sea.siemens.com/controls ■ Dimensions see page 6/99	3RW30 Electrical Data Frequency 50 or 60hz Input Voltage Variation +/- 15% Ambient Temperature 0°C to 50°C for hp ratings 0°C to 40°C for kW ratings Control Voltage 100–230V AC/DC (supplied as a standard)① Ratings for Frequent Starts/Stops 10 starts/hour. Higher ratings can be obtained by using optional fans and de-rating. Refer to application guide.
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SIRIUS™ Three Phase Soft Start and Soft Stop

50°C Ambient Temperature					40°C Ambient Temperature				Catalog No	Price \$	Weight	
Current Rating (A)	Horsepower				Current Rating (A)	Kilowatts					lbs.	kg
	200V	230V	460V	575V		230V	400V	500V				
4.8	1	1	3	—	6	1.5	3	—	3RW3014-1CB14		0.57	0.26
7.8	2	2	5	—	9	2.2	4	—	3RW3016-1CB14		0.57	0.26
11	3	3	7.5	—	12.5	3	5.5	—	3RW3024-1AB14		1.01	0.46
14	3	3	10	—	16	4	7.5	—	3RW3025-1AB14		1.01	0.46
21	5	5	15	—	25	5.5	11	—	3RW3026-1AB14		1.01	0.46
27	7.5	7.5	20	—	32	7.5	15	—	3RW3034-1AB14		1.65	0.75
32	7.5	10	20	—	38	11	18.5	—	3RW3035-1AB14		1.65	0.75
38	10	10	25	—	45	15	22	—	3RW3036-1AB14		1.65	0.75
54	15	20	40	—	63	18.5	30	—	3RW3044-1AB14		3.97	1.8
64	20	20	40	—	75	22	37	—	3RW3045-1AB14		3.97	1.8
85	25	30	60	—	100	30	55	—	3RW3046-1AB14		3.97	1.8
11	—	—	7.5	10	12.5	—	—	7.5	3RW3024-1AB15		1.01	0.46
14	—	—	10	10	16	—	—	7.5	3RW3025-1AB15		1.01	0.46
21	—	—	15	15	25	—	—	15	3RW3026-1AB15		1.01	0.46
27	—	—	20	25	32	—	—	18.5	3RW3034-1AB15		1.65	0.75
32	—	—	20	30	38	—	—	22	3RW3035-1AB15		1.65	0.75
38	—	—	25	30	45	—	—	30	3RW3036-1AB15		1.65	0.75
54	—	—	40	50	63	—	—	37	3RW3044-1AB15		3.97	1.8
64	—	—	40	60	75	—	—	55	3RW3045-1AB15		3.97	1.8
85	—	—	60	75	100	—	—	70	3RW3046-1AB15		3.97	1.8

SIRIUS™ Single Phase Soft Start

50°C Ambient Temperature				40°C Ambient Temperature			Catalog No	Price \$	Weight	
Current Rating (A)	Horsepower			Current Rating (A)	Kilowatts					
	120V	208V	230V		115V	230V				
21	1.5	3	3	25	2.2	4	3RW3026-1AA12		1.01	0.46
32	2	5	5	38	3	5.5	3RW3035-1AA12		1.65	0.75
64	5	10	10	75	5.5	11	3RW3045-1AA12		3.97	1.8

①24VDC control voltage available. Change the 11th character to a "0".
Example 3RW3034-1AB14 becomes 3RW3034-1AB04.

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Solid State Controllers, 3RW34

Selection

 3RW34	Ordering Information ■ Technical Data see: www.sea.siemens.com/controls. ■ Lug Kits not included, see page 6/80 for ordering information. ■ Dimensions see page 6/99 ■ Replacement Parts see page 6/135	3RW34 Electrical Data Frequency 50 or 60hz Input Voltage Variation +/- 15% Ambient Temperature HP rating @ 0°C to 50°C (32°F to 122°F) Derate output 33% for every 10°C over, up to a maximum of 70° Control Voltage 120 VAC (supplied as standard)^① Control Ratings for Frequent Starts/Stops Up to 19 starts/hour, no derate necessary 20 starts/hour (occasional), divide control rating by 1.33 5 starts/minute (severe), divide control rating by 2 10 starts/minute (very severe), divide control rating by 3
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SIKOSTART™ Three Phase Soft Start and Soft Stop

50°C Ambient Temperature					40°C Ambient Temperature				Catalog No.	Price \$	Weight	
Current Rating (A)	Horsepower				Current Rating (A)	Kilowatts						
	200V	230V	460V	575V		(A)	230V	400V			500V	lbs.
35	10	10	25	—	—	—	—	—	3RW3452-0DC34		19	9
57	15	20	40	—	57	15	30	—	3RW3454-0DC34		19	9
69	20	25	50	—	70	18.5	37	—	3RW3455-0DC34		22	10
80	25	30	60	—	—	—	—	—	3RW3456-0DC34		23	10
105	30	40	75	—	135	37	75	—	3RW3458-0DC34		23	10
131	40	50	100	—	162	45	90	—	3RW3465-0DC34		40	18
195	60	75	150	—	195	55	110	—	3RW3466-0DC34		41	19
248	75	100	200	—	235	75	132	—	3RW3467-0DC34		44	20
361	125	150	300	—	352	110	200	—	3RW3472-0DC34		79	36
480	150	200	400	—	500	160	250	—	3RW3483-0DC34		130	59
720	250	300	600	—	700	220	400	—	3RW3484-0DC34		130	59
35	—	—	25	30	—	—	—	—	3RW3452-0DC35		19	9
57	—	—	40	50	57	—	30	37	3RW3454-0DC35		19	9
69	—	—	50	60	70	—	37	45	3RW3455-0DC35		22	10
80	—	—	60	75	—	—	—	—	3RW3456-0DC35		23	10
105	—	—	75	100	135	—	75	90	3RW3458-0DC35		23	10
131	—	—	100	125	162	—	90	110	3RW3465-0DC35		40	18
195	—	—	150	200	195	—	110	132	3RW3466-0DC35		41	19
248	—	—	200	250	235	—	132	160	3RW3467-0DC35		44	20
361	—	—	300	350	352	—	200	200	3RW3472-0DC35		79	36
480	—	—	400	500	500	—	250	355	3RW3483-0DC35		130	59
720	—	—	600	700	700	—	400	450	3RW3484-0DC35		130	59

①24VDC and 230VAC control voltage available.

For 24VDC control voltage change the 11th character to a "2".

Example: 3RW3452-0DC34 becomes 3RW3452-0DC24.

For 230VAC control voltage change the 11th character to a "4".

Example: 3RW3452-0DC34 becomes 3RW3452-0DC44.