

SIRIUS Soft Starters

Introduction

Overview

Products at a glance



3RW30/3RW31



3RW40



3RW44



Class 73/74 Enclosed

	Order No.	Page												
SIRIUS soft starters <i>for standard applications</i>														
SIRIUS 3RW30 soft starters	3RW30, 3RW31	16-164												
<ul style="list-style-type: none"> SIRIUS 3RW30/31 soft starters for soft starting and smooth ramp-down of single-phase or three-phase asynchronous motors¹⁾ Rating range of up to 60 Hp at 460 V (50 °C ambient) Application areas: <table border="0"> <tr> <td>- Fans</td> <td>- Air conditioning systems</td> </tr> <tr> <td>- Pumps</td> <td>- Ventilators</td> </tr> <tr> <td>- Building/construction machines</td> <td>- Assembly lines</td> </tr> <tr> <td>- Presses</td> <td>- Compressors and coolers</td> </tr> <tr> <td>- Escalators</td> <td>- Operating mechanisms</td> </tr> <tr> <td>- Transport systems</td> <td></td> </tr> </table> 	- Fans	- Air conditioning systems	- Pumps	- Ventilators	- Building/construction machines	- Assembly lines	- Presses	- Compressors and coolers	- Escalators	- Operating mechanisms	- Transport systems			
- Fans	- Air conditioning systems													
- Pumps	- Ventilators													
- Building/construction machines	- Assembly lines													
- Presses	- Compressors and coolers													
- Escalators	- Operating mechanisms													
- Transport systems														
SIRIUS 3RW40 soft starters	3RW40	16-165												
<ul style="list-style-type: none"> SIRIUS 3RW40 soft starters with integrated functions solid-state motor overload and intrinsic device protection and adjustable current limiting for the soft starting and stopping of three-phase asynchronous motors Rating range from 75 to 300 Hp at 460 V (50 °C ambient) Application areas: <table border="0"> <tr> <td>- Fans</td> <td>- Air conditioning systems</td> </tr> <tr> <td>- Pumps</td> <td>- Ventilators</td> </tr> <tr> <td>- Building/construction machines</td> <td>- Assembly lines</td> </tr> <tr> <td>- Presses</td> <td>- Compressors and coolers</td> </tr> <tr> <td>- Escalators</td> <td>- Operating mechanisms</td> </tr> <tr> <td>- Transport systems</td> <td></td> </tr> </table> 	- Fans	- Air conditioning systems	- Pumps	- Ventilators	- Building/construction machines	- Assembly lines	- Presses	- Compressors and coolers	- Escalators	- Operating mechanisms	- Transport systems			
- Fans	- Air conditioning systems													
- Pumps	- Ventilators													
- Building/construction machines	- Assembly lines													
- Presses	- Compressors and coolers													
- Escalators	- Operating mechanisms													
- Transport systems														
SIRIUS 3RW44 soft starters	3RW44	16-166												
<ul style="list-style-type: none"> In addition to soft starting and soft ramp-down, the solid-state SIRIUS 3RW44 soft starters provide numerous functions for higher-level requirements Rating range from - up to 600 Hp at 460 V in inline circuit Application areas: <table border="0"> <tr> <td>- Pumps</td> <td>- Water transport</td> </tr> <tr> <td>- Ventilators</td> <td>- Conveying systems</td> </tr> <tr> <td>- Compressors</td> <td>- Hydraulics</td> </tr> <tr> <td>- Cooling systems</td> <td>- Machine tools</td> </tr> <tr> <td>- Industrial refrigerating systems</td> <td>- Mills</td> </tr> </table> 	- Pumps	- Water transport	- Ventilators	- Conveying systems	- Compressors	- Hydraulics	- Cooling systems	- Machine tools	- Industrial refrigerating systems	- Mills				
- Pumps	- Water transport													
- Ventilators	- Conveying systems													
- Compressors	- Hydraulics													
- Cooling systems	- Machine tools													
- Industrial refrigerating systems	- Mills													
For enclosed applications														
Enclosures in NEMA 1, 3, 4, & 12 types UL/CSA listed	Class 73/74	16-168/16-169												

1) 3RW30 single phase devices do not have ramp down functionality.

SIRIUS Soft Starters

General Data

Overview

The advantages of the SIRIUS soft starters at a glance:

- Soft starting and soft stop¹⁾
- Stepless starting
- Reduction of current peaks
- Avoidance of mains voltage fluctuations during starting
- Reduced load on the power supply network

- Reduction of the mechanical load in the operating mechanism
- Considerable space savings and reduced wiring compared with mechanical reduced voltage starters
- Maintenance-free switching
- Very easy handling
- Fits perfectly in the SIRIUS modular system



	SIRIUS 3RW30/31 Standard applications	SIRIUS 3RW40	SIRIUS 3RW44 High Feature applications
Rated current at 50 °C	A 2.6 ... 85	117 ... 385	26 ... 1076
Rated operating voltage	V 200 ... 575	200 ... 600	200 ... 690
Motor rating at 460 V			
• Inline circuit	Hp 1.1 ... 60	75 ... 300	15 ... 950
• Inside-delta circuit	Hp —	—	22 ... 600
Temperature range	°C -25 ... +60	-25 ... +60	0 ... +60
Soft starting/ramp-down	✓ ¹⁾	✓	✓
Voltage ramp	✓	✓	✓
Starting/stopping voltage	% 40 ... 100	40 ... 100	20 ... 100
Starting and ramp-down time	s 0 ... 20	0 ... 20	1 ... 360
Torque control	—	—	✓
Starting/stopping torque	% —	—	20 ... 100
Torque limit	% —	—	20 ... 200
Ramp time	s —	—	1 ... 360
Integral bypass contact system	✓ ²⁾	✓	✓
Intrinsic device protection	—	✓	✓
Motor overload protection	—	✓	✓
Thermistor motor protection	—	—	✓
Adjustable current limiting	—	✓	✓
Inside-delta circuit	—	—	✓
Breakaway pulse	—	—	✓
Creep speed in both directions	—	—	✓
Pump ramp-down	—	—	✓ ⁶⁾
DC braking	—	—	✓ ^{3) 6)}
Combined braking	—	—	✓ ^{3) 6)}
Motor heating	—	—	✓
Communication	—	—	with PROFIBUS DP (option) (option)
External display and operator module	—	—	✓
LCD Operating measured value display	—	—	✓
Error logbook	—	—	✓
Event list	—	—	✓
Slave pointer function	—	—	✓
Trace function	—	—	✓ ⁴⁾
Programmable control inputs and outputs	—	—	✓
Number of parameter sets	1 (2 with 3RW31)	1	3
Parameterization software (Softstarter ES)	—	—	✓
Power semiconductors (thyristors)	2 controlled phases	2 controlled phases	3 controlled phases
Spring-loaded terminals	✓ (only 3RW30 03)	✓	✓
Screw terminals	✓	✓	✓
UL/CSA	✓ ⁵⁾	✓	✓
CE marking	✓	✓	✓
Soft starting under heavy starting conditions	—	—	✓ ⁶⁾
Configuring support	Win-SOFTSTARTER Technical Assistance 1-800-241-4453		

- ✓ Function is available
— Function not available

1) Soft stop not available for 3RW31.

2) Not available for 3RW30 03.

3) Not possible in inside-delta circuit.

4) Trace function with Softstarter ES software.

5) For 3RW30 03 up to 230 V.

6) Calculate soft starter and motor with size allowance where required.

You can find further information on the Internet at:

<http://select.sea.siemens.com>

SIRIUS Soft Starters

Standard Applications—SIRIUS 3RW3 Soft Starters

Selection

Selection and ordering data



3RW30 03-2CB54



3RW30 25-1AB14



3RW30 35-1AB14



3RW30 35-1AA12

Rated operating voltage U_e	At ambient temperature 50 °C					Size	Order No.	List Price \$	Weight per PU approx.	
	Rated output of three-phase induction motors for rated operating voltage U_e									
V	A	115 V	200 V	230 V	460 V	575 V			kg	
Soft starters for easy starting conditions and high operating frequency										
200 ... 400	2.6	-	0.5	0.5	-	-	3RW30 03-□CB54	308.00	0.200	
Order No. extension for rated connection method¹⁾										
with screw-type terminals							22.5 mm	1		
with spring-loaded terminals							22.5 mm			
Soft starters for three-phase asynchronous motors										
200 ... 460	4.8	-	1	1	3	-	S00	3RW30 14-1CB□4	406.00	0.302
	7.8	-	2	2	5	-	S00	3RW30 16-1CB□4	484.00	0.305
	11	-	3	3	7.5	-	S0	3RW30 24-1AB□4	496.00	0.490
	14	-	3	3	10	-	S0	3RW30 25-1AB□4	567.00	0.481
	21	-	5	5	15	-	S0	3RW30 26-1AB□4	587.00	0.489
	27	-	7.5	7.5	20	-	S2	3RW30 34-1AB□4	763.00	0.794
	32	-	7.5	10	20	-	S2	3RW30 35-1AB□4	942.00	0.779
	38	-	10	10	25	-	S2	3RW30 36-1AB□4	1177.00	0.791
	54	-	15	20	40	-	S3	3RW30 44-1AB□4	1301.00	1.660
	64	-	20	20	40	-	S3	3RW30 45-1AB□4	1639.00	1.800
460 ... 575	85	-	25	30	60	-	S3	3RW30 46-1AB□4	1978.00	1.810
	11	-	-	-	7.5	10	S0	3RW30 24-1AB□5	668.00	0.490
	14	-	-	-	10	10	S0	3RW30 25-1AB□5	723.00	0.489
	21	-	-	-	15	15	S0	3RW30 26-1AB□5	780.00	0.489
	27	-	-	-	20	25	S2	3RW30 34-1AB□5	916.00	0.791
	32	-	-	-	20	30	S2	3RW30 35-1AB□5	1132.00	0.793
	38	-	-	-	25	30	S2	3RW30 36-1AB□5	1412.00	0.792
	54	-	-	-	40	50	S3	3RW30 44-1AB□5	1561.00	1.660
	64	-	-	-	40	60	S3	3RW30 45-1AB□5	1967.00	1.810
	85	-	-	-	60	75	S3	3RW30 46-1AB□5	2375.00	1.800

Order No. extension for rated control supply voltage U_s

AC/DC 24 V
AC/DC 110 ... 230 V

0
1

Soft starters with two-ramp control for three-phase induction motors with two speeds (double pole-reversing)						
200 ... 460	11	-	3	3	7.5	-
	14	-	3	3	10	-
	21	-	5	5	15	-
460 ... 575	11	-	-	-	7.5	10
	14	-	-	-	10	10
	21	-	-	-	15	15
Soft starters for single-phase motors						
115 ... 240	21	1.5	3	3	-	-
	32	2	5	5	-	-
	64	5	10	10	-	-

1) Units have removable terminals.

2) 3RW30 46-1AB05 soft starters (AC/DC 24 V version):
Delivery time on request.

Selection of the soft starter depends on the motor's rated current.

The SIRIUS 3RW3 solid-state soft starters are designed for easy starting conditions. $J_{Load} < 10 \times J_{Motor}$. In the event of deviating conditions or increased switching frequency, it may be necessary to choose a larger unit. Siemens recommends the use of the selection and simulation program Win-Soft starter. See Technical specifications for information about rated currents for ambient temperatures $> 50^{\circ}\text{C}$.

SIRIUS Soft Starters

Standard Applications—SIRIUS 3RW40 Soft Starters

Selection

Overview

SIRIUS 3RW40

SIRIUS 3RW40 soft starters have all the same advantages as the 3RW30/31 soft starters including soft start and soft stop,¹⁾ and internal bypass. At the same time they come with additional functions, i.e. selectable solid-state motor overload, intrinsic device protection and adjustable current limiting, as well as a new patented two-phase control method (Polarity Balancing) that is unique in this rating range.

SIRIUS 3RW40 soft starters are part of the SIRIUS modular system. This results in advantages such as identical sizes and a uniform connection system. Thanks to their particularly compact design, SIRIUS 3RW40 soft starters are only half as big as comparable wye-delta starters. Hence they can be mounted in compact space requirements in the control cabinet. Configuring and installation are carried out quickly and easily thanks to the 3-wire connection.

SIRIUS 3RW40 for three-phase motors

Soft starters rated up to 300 Hp (at 460 V) for standard applications in three-phase power systems. Extremely small sizes, low power losses and simple commissioning are just three of the many advantages of the SIRIUS 3RW40 soft starters.



3RW40 56-6BB44

Area of application

The SIRIUS 3RW40 solid-state soft starters are suitable for soft starting and stopping of three-phase asynchronous motors.

Using the patented two-phase control, the current is kept at minimum values in all three phases throughout the entire starting time and typical direct current components are eliminated. This not only enables the two-phase starting of motors up to 300 Hp (at 460 V) but also avoids the current and torque peaks which occur i.e. with wye-delta starters or other mechanical starters.

Application areas

- Fans
- Pumps
- Building/construction machines
- Presses
- Escalators
- Transport systems
- Air conditioning systems
- Ventilators
- Assembly lines
- Compressors and coolers
- Operating mechanisms

Applicable standards

- IEC 60947-2
- UL/CSA #E143112



3RW40 76-6BB44

Ambient temperature 50 °C ³⁾					Size	Order No.	List Price \$	Approx. weight per PU
Rated operating current I_e	Rated output of three-phase induction motors for rated operating voltage U_e							
A	200 V hp	230 V hp	460 V hp	575 V hp				
Inline circuit, rated operating voltage 200 ... 460 V								
117	30	40	75	—	S6	3RW40 55-□BB□4	2237.00	5.700
145	40	50	100	—		3RW40 56-□BB□4	2460.00	5.700
205	60	75	150	—	S12	3RW40 73-□BB□4	2879.00	7.000
248	75	100	200	—		3RW40 74-□BB□4	3243.00	7.000
315	100	125	250	—		3RW40 75-□BB□4	3578.00	7.000
385	125	1250	300	—		3RW40 76-□BB□4	4585.00	7.000
Inline circuit, rated operating voltage 400 ... 600 V								
117	—	—	75	100	S6	3RW40 55-□BB□5	2573.00	5.700
145	—	—	100	150		3RW40 56-□BB□5	2829.00	5.700
205	—	—	150	200	S12	3RW40 73-□BB□5	3321.00	7.000
248	—	—	200	250		3RW40 74-□BB□5	3735.00	7.000
315	—	—	250	300		3RW40 75-□BB□5	4115.00	7.000
385	—	—	300	400		3RW40 76-□BB□5	5278.00	7.000

Order No. extension for connection method

- with spring-loaded terminals
- with screw-type terminals

Order No. extension for the rated control supply voltage U_s ²⁾

- 115 V AC
- 230 V AC

1) Soft stop not available on 3RW31.

2) Control by way of the internal 24 V DC supply and direct control by means of PLC possible.

3) For other temperature ratings, see the Industrial Controls catalog CPPC-06000-0806.

Selection of the soft starter depends on the motor's rated current.

The SIRIUS 3RW40 solid-state soft starters are designed for easy starting conditions. $J_{Load} < 10 \times J_{Motor}$. In the event of deviating conditions or increased duty cycle, it may be necessary to choose a larger device. Siemens recommends the use of the selection and simulation program Win-SOFTSTARTER.

SIRIUS Soft Starters

High Feature Applications—SIRIUS 3RW44 Soft Starters

Selection

Overview

SIRIUS 3RW44

In addition to soft starting and soft stopping, the solid-state SIRIUS 3RW44 soft starters provide numerous functions for higher-level requirements. They cover a rating range up to 900Hp at 460 V in the inline circuit¹⁾.

The SIRIUS 3RW44 soft starters are characterized by a compact design for space-saving and clearly arranged control cabinet layouts. For optimized motor starting and stopping, the innovative SIRIUS 3RW44 soft starters are an attractive alternative with considerable savings potential compared to applications with a frequency converter. The new torque control and adjustable current limiting enable these high feature soft starters to be used in nearly every conceivable task. They reliably mitigate the sudden torque applications and current peaks during motor starting and stopping. This creates savings potential when calculating the size of the controlgear and when servicing the machinery installed. Be it for inline circuits or inside-delta circuits – the SIRIUS 3RW44 soft starter offers savings especially in terms of size and equipment costs.

Combinations of various starting, operating and ramp-down possibilities ensure an optimum adaptation to the application-specific requirements. Operating and commissioning can be performed by means of the user-friendly keypad and a menu-

prompted, multi-line graphic display with background lighting. The optimized motor ramp-up and ramp-down can be effected by means of just a few settings with a previously selected language. Four-key operation and plain-text displays for each menu point guarantee full clarity at every moment of the parameterization and operation.

Applicable standards

- IEC 60947-4-2
- UL/CSA #E143112

Area of application

The SIRIUS 3RW44 solid-state soft starters are suitable for the torque-controlled soft starting and smooth ramp-down as well as braking of three-phase asynchronous motors.

Application areas, e.g.

- Pumps
- Ventilators
- Compressors
- Water transport
- Conveying systems and lifts
- Hydraulics
- Mills
- Saws
- Crushers
- Mixers
- Centrifuges
- Industrial cooling and refrigerating systems

1) Current range available up to 600Hp at 460 V.

Selection and ordering data



3RW44 27-1BC44



3RW44 36-6BC44



3RW44 47-6BC44

Ambient temperature 50 °C¹⁾

Rated operating current I_e	Rated output of three-phase induction motors for rated operating voltage U_e				Order No.	List Price \$	Approx. weight per PU kg
	200 V A hp	230 V A hp	460 V A hp	575 V A hp			
Inline circuit, rated operating voltage 200 ... 460 V							
26	7.5	7.5	15	—	3RW44 22-@BC@4	2337.00	4.900
32	10	10	20	—	3RW44 23-@BC@4	2472.00	4.900
42	10	15	25	—	3RW44 24-@BC@4	2494.00	4.900
51	15	15	30	—	3RW44 25-@BC@4	2963.00	4.900
68	20	20	50	—	3RW44 26-@BC@4	3109.00	4.900
82	25	25	60	—	3RW44 27-@BC@4	3735.00	4.900

Order No. extension for connection method

- with spring-loaded terminals
- with screw-type terminals

100	30	30	75	—	3RW44 34-@BC@4	4406.00	7.900
117	30	40	75	—	3RW44 35-@BC@4	4652.00	7.900
145	40	50	100	—	3RW44 36-@BC@4	6039.00	7.900
180	50	60	125	—	3RW44 43-@BC@4	6565.00	10.300
215	60	75	150	—	3RW44 44-@BC@4	6922.00	10.300
280	75	100	200	—	3RW44 45-@BC@4	7503.00	10.300
315	100	125	250	—	3RW44 46-@BC@4	8342.00	10.300
385	125	150	300	—	3RW44 47-@BC@4	9282.00	10.300
494	150	200	400	—	3RW44 53-@BC@4	10959.00	50.000
551	150	200	450	—	3RW44 54-@BC@4	12580.00	50.000
615	200	250	500	—	3RW44 55-@BC@4	13979.00	50.000
693	200	250	550	—	3RW44 56-@BC@4	15656.00	50.000
780	250	300	600	—	3RW44 57-@BC@4	19570.00	50.000

Order No. extension for connection method

- with spring-loaded terminals
- with screw-type terminals

Order No. extension for the rated control supply voltage U_s

- 115 V AC
- 230 V AC

1) For other temperature ratings, see technical information in 2006 Industrial Catalog CPPC-06000-0106.

SIRIUS Soft Starters

High Feature Applications—SIRIUS 3RW44 Soft Starters

Selection

Selection and ordering data



3RW44 27-1BC44



3RW44 36-6BC44



3RW44 47-6BC44



Ambient temperature 50 °C ²⁾				Order No.	List Price \$	Approx. weight per PU
Rated operating current I_e	Rated output of three-phase induction motors for rated operating voltage U_e	200 V	230 V	460 V	575 V	kg
A	hp	hp	hp	hp	hp	
Inline circuit, rated operating voltage 400 ... 600 V						
26	—	—	15	20	3RW44 22-□BC□5	2695.00
32	—	—	20	25	3RW44 23-□BC□5	2852.00
42	—	—	25	30	3RW44 24-□BC□5	2874.00
51	—	—	30	40	3RW44 25-□BC□5	3410.00
68	—	—	50	50	3RW44 26-□BC□5	3578.00
82	—	—	60	75	3RW44 27-□BC□5	4305.00

Order No. extension for connection method

- with spring-loaded terminals
- with screw-type terminals

100	—	—	75	75	3RW44 34-□BC□5	5077.00	7.900
117	—	—	75	100	3RW44 35-□BC□5	5356.00	7.900
145	—	—	100	125	3RW44 36-□BC□5	6945.00	7.900
180	—	—	125	150	3RW44 43-□BC□5	7559.00	10.300
215	—	—	150	200	3RW44 44-□BC□5	7962.00	10.300
280	—	—	200	250	3RW44 45-□BC□5	8633.00	10.300
315	—	—	250	300	3RW44 46-□BC□5	9595.00	10.300
385	—	—	300	400	3RW44 47-□BC□5	10680.00	10.300
494	—	—	400	500	3RW44 53-□BC□4	12603.00	50,000
551	—	—	450	550	3RW44 54-□BC□4	14470.00	50,000
615	—	—	500	600	3RW44 55-□BC□4	16081.00	50,000
693	—	—	550	700	3RW44 56-□BC□4	18004.00	50,000
780	—	—	600	800	3RW44 57-□BC□4	22510.00	50,000

Order No. extension for connection method

- with spring-loaded terminals
- with screw-type terminals

Order No. extension for the rated control supply voltage U_s ¹⁾

- 115 V AC
- 230 V AC

1) Control by way of the internal 24 V DC supply and direct control by means of PLC possible.

2) For other temperature ratings, see technical information in the Industrial Controls Catalog CPPC-06000-0803.

Soft starter selection depends on the motor's rated current.

3
1

2
6

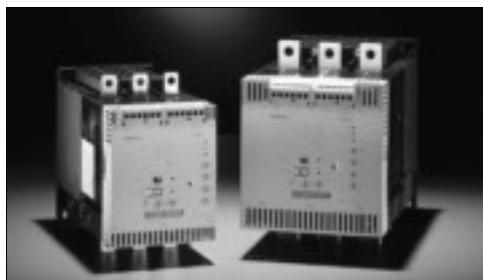
3
4

The 3RW44 solid-state soft starters are designed for normal starting (class 10). (Inertia load of the overall operating mechanism $J_{Load} < 10 \times J_{Motor}$; starting current $350\% \times I_e$ for 20 s or similar load.) For any other conditions of use, the devices should be selected using the selection and simulation program Win-SOFTSTARTER. See technical specifications for information about rated currents for ambient temperatures $> 40^\circ\text{C}$ and operating frequency.

Control Products

Enclosed 3RW40

Selection



3RW40 Enclosed features:

- Available in NEMA 1, 12, 3R, 4, and 4 stainless steel
- Compact size
- Built-in bypass contactor
- Voltage ramp up and ramp down
- Current limit adjustment of 125 - 550%
- Internal overload class 10, 15, or 20
- Internal self protection
- Fault monitoring

Ordering Information

- ▶ Enclosed devices should be ordered by the FLA of the motor.
 - ▶ The 3RW40 is designed for normal starting applications (Class 10 applications).
 - ▶ For factory modifications see page 16-177.
 - ▶ For complete derating and application info see the 2006 Industrial Controls catalog CPPC-06000-0106.
 - ▶ For dimensional drawings see page 16-178.
- Class 73 non-combination starters include:
- NEMA rated enclosure
 - 3RW40 softstarter with built-in OL and bypass
 - Control circuit transformer
 - Line side power terminal block
 - Reset button

Ideal applications for 3RW40 enclosed softstarters:

- Fans
- Pumps
- Building/construction machines
- Presses
- Escalators
- Transport systems
- Air conditioning systems
- Ventilators
- Assembly lines
- Compressors and chillers

The 3RW40 severe duty rating table should be applied for high inertia applications such rock crushers, chippers, screw compressors, ect.

Class 73 starters are built to UL and CSA standards.

For all technical information, please consult the 2006 Industrial Controls Catalog or contact your local sales support center.

3RW40 for Standard Applications

Enclosed Non-Combination (Starter Only)

Rated Operating Current	MAX HP ^①		Kw	Class 10 Light Duty (350% * Ie for 10s) ^②												
	200V	230V		460V	575V	380V	OPEN Style (Starter Only)	NEMA 1	List Price \$	NEMA 3R	List Price \$	NEMA 12	List Price \$	NEMA 4	List Price \$	NEMA 4/4X Stainless Steel
117	30	40	75	—	56	3RW4055-6BB34	73AS3_BFA	4700.00	73AS3_DFA	4700.00	73AS3_OFA	4700.00	73AS3_EFA	5000.00	73AS3_WFA	5800.00
145	40	50	100	—	75	3RW4056-6BB34	73BS3_BFA	5100.00	73BS3_DFA	5200.00	73BS3_OFA	5100.00	73BS3_EFA	5400.00	73BS3_WFA	6300.00
205	60	75	150	—	112	3RW4073-6BB34	73CS3_BFA	5700.00	73CS3_DFA	5600.00	73CS3_OFA	5700.00	73CS3_EFA	6000.00	73CS3_WFA	6800.00
248	75	100	200	—	149	3RW4074-6BB34	73DS3_BFA	6100.00	73DS3_DFA	6100.00	73DS3_OFA	6100.00	73DS3_EFA	6500.00	73DS3_WFA	7300.00
315	100	125	250	—	186	3RW4075-6BB34	73ES3_BFA	6800.00	73ES3_DFA	6800.00	73ES3_OFA	6800.00	73ES3_EFA	7200.00	73ES3_WFA	7900.00
385	125	150	300	—	224	3RW4076-6BB34	73FS3_BFA	8900.00	73FS3_DFA	8900.00	73FS3_OFA	8900.00	73FS3_EFA	9400.00	73FS3_WFA	11800.00
							200V	6		6		6		6		6
							230V	2		2		2		2		2
							380V	3		3		3		3		3
							460V	4		4		4		4		4
117	—	—	75	100	—	3RW4055-6BB35	73AS35BFA	5000.00	73AS35DFA	5100.00	73AS35OFA	5000.00	73AS35EFA	5100.00	73AS35WFA	6200.00
145	—	—	100	150	—	3RW4056-6BB35	73BS35BFA	5500.00	73BS35DFA	5600.00	73BS35OFA	5500.00	73BS35EFA	5800.00	73BS35WFA	6700.00
205	—	—	150	200	—	3RW4073-6BB35	73CS35BFA	6200.00	73CS35DFA	6200.00	73CS35OFA	6200.00	73CS35EFA	6600.00	73CS35WFA	7400.00
248	—	—	200	250	—	3RW4074-6BB35	73DS35BFA	6700.00	73DS35DFA	6600.00	73DS35OFA	6700.00	73DS35EFA	7100.00	73DS35WFA	7800.00
315	—	—	250	300	—	3RW4075-6BB35	73ES35BFA	7500.00	73ES35DFA	7200.00	73ES35OFA	7500.00	73ES35EFA	7900.00	73ES35WFA	8600.00
385	—	—	300	400	—	3RW4076-6BB35	73FS35BFA	9800.00	73FS35DFA	9800.00	73FS35OFA	9800.00	73FS35EFA	10300.00	73FS35WFA	12600.00

Enclosed Non-Combination (Starter Only)

Rated Operating Current	MAX HP ^①		Kw	Class 20 Severe Duty (350% * Ie for 20s) ^②												
	200V	230V		460V	575V	380V	OPEN Style (Starter Only)	NEMA 1	List Price \$	NEMA 3R	List Price \$	NEMA 12	List Price \$	NEMA 4	List Price \$	NEMA 4/4X Stainless Steel
112	30	40	75	—	56	3RW4055-6BB34	73AS3_BFA	4700.00	73AS3_DFA	4700.00	73AS3_OFA	4700.00	73AS3_EFA	5000.00	73AS3_WFA	5800.00
132	40	50	100	—	75	3RW4056-6BB34	73BS3_BFA	5100.00	73BS3_DFA	5200.00	73BS3_OFA	5100.00	73BS3_EFA	5400.00	73BS3_WFA	6300.00
185	60	60	125	—	93	3RW4073-6BB34	73CS3_BFA	5700.00	73CS3_DFA	5600.00	73CS3_OFA	5700.00	73CS3_EFA	6000.00	73CS3_WFA	6800.00
205	60	75	150	—	112	3RW4074-6BB34	73DS3_BFA	6100.00	73DS3_DFA	6100.00	73DS3_OFA	6100.00	73DS3_EFA	6500.00	73DS3_WFA	7300.00
280	75	100	200	—	149	3RW4075-6BB34	73ES3_BFA	6800.00	73ES3_DFA	6800.00	73ES3_OFA	6800.00	73ES3_EFA	7200.00	73ES3_WFA	7900.00
340	100	125	250	—	186	3RW4076-6BB34	73FS3_BFA	8900.00	73FS3_DFA	8900.00	73FS3_OFA	8900.00	73FS3_EFA	9400.00	73FS3_WFA	11800.00
							200V	6		6		6		6		6
							230V	2		2		2		2		2
							380V	3		3		3		3		3
							460V	4		4		4		4		4
112	—	—	75	75	—	3RW4055-6BB35	73AS35BFA	5000.00	73AS35DFA	5100.00	73AS35OFA	5000.00	73AS35EFA	5100.00	73AS35WFA	6200.00
132	—	—	100	125	—	3RW4056-6BB35	73BS35BFA	5500.00	73BS35DFA	5600.00	73BS35OFA	5500.00	73BS35EFA	5800.00	73BS35WFA	6700.00
185	—	—	125	150	—	3RW4073-6BB35	73CS35BFA	6200.00	73CS35DFA	6200.00	73CS35OFA	6200.00	73CS35EFA	6600.00	73CS35WFA	7400.00
205	—	—	150	200	—	3RW4074-6BB35	73DS35BFA	6700.00	73DS35DFA	6600.00	73DS35OFA	6700.00	73DS35EFA	7100.00	73DS35WFA	7800.00
280	—	—	200	250	—	3RW4075-6BB35	73ES35BFA	7500.00	73ES35DFA	7200.00	73ES35OFA	7500.00	73ES35EFA	7900.00	73ES35WFA	8600.00
340	—	—	250	300	—	3RW4076-6BB35	73FS35BFA	9800.00	73FS35DFA	9800.00	73FS35OFA	9800.00	73FS35EFA	10300.00	73FS35WFA	12600.00

^① Starter size is dependent on the nameplate Full Load Amps (FLA) rating of the motor.

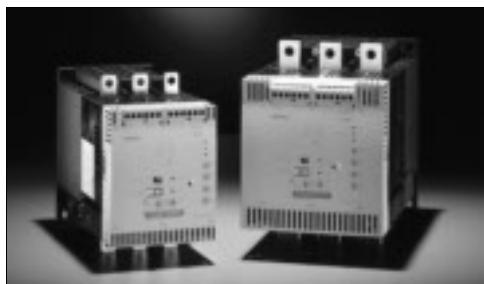
HPs are for reference only. Enclosed ratings are at 40°C.

^② Starter selection is dependent on type of application. Ie = FLA rating of motor.

Control Products

Enclosed 3RW40

Selection



3RW40 Enclosed features:

- Available in NEMA 1, 12, 3R, 4, and 4 stainless steel
- Compact size
- Built-in bypass contactor
- Voltage ramp up and ramp down
- Current limit adjustment of 125 - 550%
- Internal overload class 10, 15, or 20
- Internal self protection
- Fault monitoring

Ordering Information

- ▶ Enclosed devices should be ordered by the FLA of the motor.
 - ▶ The 3RW40 is designed for normal starting applications (Class 10 applications).
 - ▶ For factory modifications see page 16-177.
 - ▶ For complete derating and application info see the 2006 Industrial Controls catalog CPPC-06000-0106.
 - ▶ For dimensional drawings see page 16-178.
- Class 74 non-combination starters include:
- NEMA rated enclosure
 - Circuit breaker disconnect with shunt trip
 - 3RW40 Sirius softstarter with built-in OL and bypass
 - Control circuit transformer

Ideal applications for 3RW40 enclosed softstarters:

- Fans
- Pumps
- Building/construction machines
- Presses
- Escalators
- Transport systems
- Air conditioning systems
- Ventilators
- Assembly lines
- Compressors and chillers

The 3RW40 severe duty rating table should be applied for high inertia applications such rock crushers, chippers, screw compressors, ect.

Class 74 starters are built to UL and CSA standards.

For all technical information, please consult the 2006 Industrial Controls Catalog or contact your local sales support center.

3RW40 for Standard Applications

Enclosed Circuit Breaker Combination (Starter with Circuit Breaker Disconnect)

Rated Operating Current	MAX HP ^①		KW	Class 10 Light Duty (350% * Ie for 10s) ^②								NEMA 4/4X	List Price \$			
	200V	230V	460V	575V	380V	OPEN Style (Starter Only)	NEMA 1	List Price \$	NEMA 3R	List Price \$	NEMA 12	List Price \$	NEMA 4	List Price \$	NEMA 4/4X Stainless Steel	
117	30	40	75	—	56	3RW4055-6BB34	74AS3_BFAP	6300.00	74AS3_DFAP	6300.00	74AS3_OFAP	6300.00	74AS3_EFAP	6700.00	74AS3_WFAP	9500.00
145	40	50	100	—	75	3RW4056-6BB34	74BS3_BFAP	6900.00	74BS3_DFAP	6900.00	74BS3_OFAP	6900.00	74BS3_EFAP	7300.00	74BS3_WFAP	10100.00
205	60	75	150	—	112	3RW4073-6BB34	74CS3_BFAP	8100.00	74CS3_DFAP	8100.00	74CS3_OFAP	8100.00	74CS3_EFAP	8600.00		
248	75	100	200	—	149	3RW4074-6BB34	74DS3_BFAP	8500.00	74DS3_DFAP	8500.00	74DS3_OFAP	8500.00	74DS3_EFAP	9000.00		
315	100	125	250	—	186	3RW4075-6BB34	74ES3_BFAP	10700.00	74ES3_DFAP	10700.00	74ES3_OFAP	10700.00	74ES3_EFAP	11300.00		
385	125	150	300	—	224	3RW4076-6BB34	74FS3_BFAP	12200.00	74FS3_DFAP	12200.00	74FS3_OFAP	12200.00	74FS3_EFAP	12900.00		
							200V	6		6		6		6		
							230V	2		2		2		2		
							380V	3		3		3		3		
							460V	4		4		4		4		
117	—	—	75	100	—	3RW4055-6BB35	74AS35BFAP	6700.00	74AS35DFAP	6600.00	74AS35OFAP	6600.00	74AS35EFAP	7000.00	74AS35WFAP	9900.00
145	—	—	100	150	—	3RW4056-6BB35	74BS35BFAP	7300.00	74BS35DFAP	7300.00	74BS35OFAP	7300.00	74BS35EFAP	7700.00	74BS35WFAP	10600.00
205	—	—	150	200	—	3RW4073-6BB35	74CS35BFAP	8300.00	74CS35DFAP	8600.00	74CS35OFAP	8600.00	74CS35EFAP	9100.00		
248	—	—	200	250	—	3RW4074-6BB35	74DS35BFAP	9100.00	74DS35DFAP	9000.00	74DS35OFAP	9000.00	74DS35EFAP	9500.00		
315	—	—	250	300	—	3RW4075-6BB35	74ES35BFAP	11400.00	74ES35DFAP	11400.00	74ES35OFAP	11400.00	74ES35EFAP	12000.00		
385	—	—	300	400	—	3RW4076-6BB35	74FS35BFAP	12200.00	74FS35DFAP	12200.00	74FS35OFAP	12200.00	74FS35EFAP	13800.00		

Enclosed Circuit Breaker Combination (Starter with Circuit Breaker Disconnect)

Rated Operating Current	MAX HP ^①		KW	Class 20 Severe Duty (350% * Ie for 20s) ^②								NEMA 4/4X	List Price \$			
	200V	230V	460V	575V	380V	OPEN Style (Starter Only)	NEMA 1	List Price \$	NEMA 3R	List Price \$	NEMA 12	List Price \$	NEMA 4	List Price \$	NEMA 4/4X Stainless Steel	
112	30	40	75	—	56	3RW4055-6BB34	74AS3_BFAP	6300.00	74AS3_DFAP	6300.00	74AS3_OFAP	6300.00	74AS3_EFAP	6700.00	74AS3_WFAP	9500.00
132	40	50	100	—	75	3RW4056-6BB34	74BS3_BFAP	6900.00	74BS3_DFAP	6900.00	74BS3_OFAP	6900.00	74BS3_EFAP	7300.00	74BS3_WFAP	10100.00
185	60	60	125	—	93	3RW4073-6BB34	74CS3_BFAP	8100.00	74CS3_DFAP	8100.00	74CS3_OFAP	8100.00	74CS3_EFAP	8600.00		
205	60	75	150	—	112	3RW4074-6BB34	74DS3_BFAP	8500.00	74DS3_DFAP	8500.00	74DS3_OFAP	8500.00	74DS3_EFAP	9000.00		
280	75	100	200	—	149	3RW4075-6BB34	74ES3_BFAP	10700.00	74ES3_DFAP	10700.00	74ES3_OFAP	10700.00	74ES3_EFAP	11300.00		
340	100	125	250	—	186	3RW4076-6BB34	74FS3_BFAP	12200.00	74FS3_DFAP	12200.00	74FS3_OFAP	12200.00	74FS3_EFAP	12900.00		
							200V	6		6		6		6		
							230V	2		2		2		2		
							380V	3		3		3		3		
							460V	4		4		4		4		
112	—	—	75	75	—	3RW4055-6BB35	74AS35BFAP	6700.00	74AS35DFAP	6600.00	74AS35OFAP	6600.00	74AS35EFAP	7000.00	74AS35WFAP	9900.00
132	—	—	100	125	—	3RW4056-6BB35	74BS35BFAP	7300.00	74BS35DFAP	7300.00	74BS35OFAP	7300.00	74BS35EFAP	7700.00	74BS35WFAP	10600.00
185	—	—	125	150	—	3RW4073-6BB35	74CS35BFAP	8300.00	74CS35DFAP	8600.00	74CS35OFAP	8600.00	74CS35EFAP	9100.00		
205	—	—	150	200	—	3RW4074-6BB35	74DS35BFAP	9100.00	74DS35DFAP	9000.00	74DS35OFAP	9000.00	74DS35EFAP	9500.00		
280	—	—	200	250	—	3RW4075-6BB35	74ES35BFAP	11400.00	74ES35DFAP	11400.00	74ES35OFAP	11400.00	74ES35EFAP	12000.00		
340	—	—	250	300	—	3RW4076-6BB35	74FS35BFAP	12200.00	74FS35DFAP	12200.00	74FS35OFAP	12200.00	74FS35EFAP	13800.00		

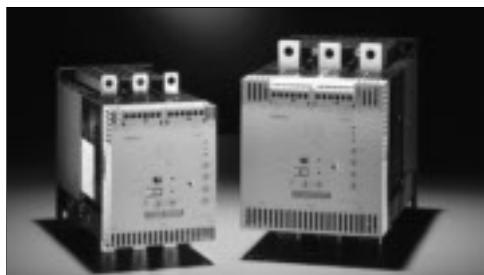
^① Starter size is dependent on the nameplate Full Load Amps (FLA) rating of the motor.
HPs are for reference only. Enclosed ratings are at 40°C.

^② Starter selection is dependent on type of application. Ie = FLA rating of motor.

Control Products

Enclosed 3RW40

Selection



3RW40 Enclosed features:

- Available in NEMA 1, 12, 3R, 4, and 4 stainless steel
- Compact size
- Built-in bypass contactor
- Voltage ramp up and ramp down
- Current limit adjustment of 125 - 550%
- Internal overload class 10, 15, or 20
- Internal self protection
- Fault monitoring

Ordering Information

- ▶ Enclosed devices should be ordered by the FLA of the motor.
 - ▶ The 3RW40 is designed for normal starting applications (Class 10 applications).
 - ▶ For factory modifications see page 16-177.
 - ▶ For complete derating and application info see the 2006 Industrial Controls catalog CPPC-06000-0106.
 - ▶ For dimensional drawings see page 16-178.
- Class 74 combination starters include:
- NEMA rated enclosure
 - Fusible disconnect
 - 3RW40 Sirius softstarter with built-in OL and bypass
 - Control circuit transformer

Ideal applications for 3RW40 enclosed softstarters:

- Fans
- Pumps
- Building/construction machines
- Presses
- Escalators
- Transport systems
- Air conditioning systems
- Ventilators
- Assembly lines
- Compressors and chillers

The 3RW40 severe duty rating table should be applied for high inertia applications such rock crushers, chippers, screw compressors, ect.

Class 74 starters are built to UL and CSA standards.

For all technical information, please consult the 2006 Industrial Controls Catalog or contact your local sales support center.

3RW40 for Standard Applications

Enclosed Fusible Combination (Starter with Fusible Disconnect)

Rated Operating Current	MAX HP ^①		KW	Class 10 Light Duty (350% * Ie for 10s) ^②												
	200V	230V	460V	575V	380V	OPEN Style (Starter Only)	NEMA 1	List Price \$	NEMA 3R	List Price \$	NEMA 12	List Price \$	NEMA 4	List Price \$	NEMA 4/4X	List Price \$
117	30	40	75	—	56	3RW4055-6BB34	74AS3_BFAF	5700.00	74AS3_DFAF	5700.00	74AS3_OFAF	5700.00	74AS3_EFAF	6000.00	74AS3_WFAF	8900.00
145	40	50	100	—	75	3RW4056-6BB34	74BS3_BFAF	7200.00	74BS3_DFAF	7200.00	74BS3_OFAF	7200.00	74BS3_EFAF	7600.00	74BS3_WFAF	10400.00
205	60	75	150	—	112	3RW4073-6BB34	74CS3_BFAF	8300.00	74CS3_DFAF	8200.00	74CS3_OFAF	8200.00	74CS3_EFAF	8700.00		
248	75	100	200	—	149	3RW4074-6BB34	74DS3_BFAF	8700.00	74DS3_DFAF	8700.00	74DS3_OFAF	8700.00	74DS3_EFAF	9200.00		
315	100	125	250	—	186	3RW4075-6BB34	74ES3_BFAF	10900.00	74ES3_DFAF	10900.00	74ES3_OFAF	10900.00	74ES3_EFAF	11500.00		
385	125	150	300	—	224	3RW4076-6BB34	74FS3_BFAF	12300.00	74FS3_DFAF	12400.00	74FS3_OFAF	12300.00	74FS3_EFAF	13000.00		
							200V	6		6		6		6		6
							230V	2		2		2		2		2
							380V	3		3		3		3		3
							460V	4		4		4		4		4
117	—	—	75	100	—	3RW4055-6BB35	74AS35BFAF	6100.00	74AS35DFAF	6000.00	74AS35OFAF	6100.00	74AS35EFAF	6300.00	74AS35WFAF	9300.00
145	—	—	100	150	—	3RW4056-6BB35	74BS35BFAF	7700.00	74BS35DFAF	7600.00	74BS35OFAF	7700.00	74BS35EFAF	8000.00	74BS35WFAF	10900.00
205	—	—	150	200	—	3RW4073-6BB35	74CS35BFAF	8500.00	74CS35DFAF	8800.00	74CS35OFAF	8800.00	74CS35EFAF	9300.00		
248	—	—	200	250	—	3RW4074-6BB35	74DS35BFAF	9200.00	74DS35DFAF	9200.00	74DS35OFAF	9200.00	74DS35EFAF	9700.00		
315	—	—	250	300	—	3RW4075-6BB35	74ES35BFAF	11600.00	74ES35DFAF	11600.00	74ES35OFAF	11600.00	74ES35EFAF	12200.00		
385	—	—	300	400	—	3RW4076-6BB35	74FS35BFAF	12200.00	74FS35DFAF	12200.00	74FS35OFAF	12200.00	74FS35EFAF	13900.00		

Enclosed Fusible Combination (Starter with Fusible Disconnect)

Rated Operating Current	MAX HP ^①		KW	Class 20 Severe Duty (350% * Ie for 20s) ^②												
	200V	230V	460V	575V	380V	OPEN Style (Starter Only)	NEMA 1	List Price \$	NEMA 3R	List Price \$	NEMA 12	List Price \$	NEMA 4	List Price \$	NEMA 4/4X	List Price \$
112	30	40	75	—	56	3RW4055-6BB34	74AS3_BFAF	5700.00	74AS3_DFAF	5700.00	74AS3_OFAF	5700.00	74AS3_EFAF	6000.00	74AS3_WFAF	8900.00
132	40	50	100	—	75	3RW4056-6BB34	74BS3_BFAF	7200.00	74BS3_DFAF	7200.00	74BS3_OFAF	7200.00	74BS3_EFAF	7600.00	74BS3_WFAF	10400.00
185	60	60	125	—	93	3RW4073-6BB34	74CS3_BFAF	8300.00	74CS3_DFAF	8200.00	74CS3_OFAF	8200.00	74CS3_EFAF	8700.00		
205	60	75	150	—	112	3RW4074-6BB34	74DS3_BFAF	8700.00	74DS3_DFAF	8700.00	74DS3_OFAF	8700.00	74DS3_EFAF	9200.00		
280	75	100	200	—	149	3RW4075-6BB34	74ES3_BFAF	10900.00	74ES3_DFAF	10900.00	74ES3_OFAF	10900.00	74ES3_EFAF	11500.00		
340	100	125	250	—	186	3RW4076-6BB34	74FS3_BFAF	12300.00	74FS3_DFAF	12400.00	74FS3_OFAF	12300.00	74FS3_EFAF	13000.00		
							200V	6		6		6		6		6
							230V	2		2		2		2		2
							380V	3		3		3		3		3
							460V	4		4		4		4		4
112	—	—	75	75	—	3RW4055-6BB35	74AS35BFAF	6100.00	74AS35DFAF	6000.00	74AS35OFAF	6100.00	74AS35EFAF	6300.00	74AS35WFAF	9300.00
132	—	—	100	125	—	3RW4056-6BB35	74BS35BFAF	7700.00	74BS35DFAF	7600.00	74BS35OFAF	7700.00	74BS35EFAF	8000.00	74BS35WFAF	10900.00
185	—	—	125	150	—	3RW4073-6BB35	74CS35BFAF	8500.00	74CS35DFAF	8800.00	74CS35OFAF	8800.00	74CS35EFAF	9300.00		
205	—	—	150	200	—	3RW4074-6BB35	74DS35BFAF	9200.00	74DS35DFAF	9200.00	74DS35OFAF	9200.00	74DS35EFAF	9700.00		
280	—	—	200	250	—	3RW4075-6BB35	74ES35BFAF	11600.00	74ES35DFAF	11600.00	74ES35OFAF	11600.00	74ES35EFAF	12200.00		
340	—	—	250	300	—	3RW4076-6BB35	74FS35BFAF	12200.00	74FS35DFAF	12200.00	74FS35OFAF	12200.00	74FS35EFAF	13900.00		

^① Starter size is dependent on the nameplate Full Load Amps (FLA) rating of the motor.

HPs are for reference only. Enclosed ratings are at 40°C.

^② Starter selection is dependent on type of application. Ie = FLA rating of motor.

Control Products

Enclosed 3RW44

Selection



3RW44 Enclosed features:

- Available in NEMA 1, 12, 3R, 4, and 4 stainless steel
- Compact size
- Built-in bypass contactor
- Multiple starting/stopping techniques including torque control
- Internal overload class 5, 10, 15, 20, or 30
- Built-in graphical LCD keypad
- Internal self protection
- Fault monitoring
- 3 parameter sets
- Communication capable via opt. Profibus module
- Programmable inputs and outputs
- External keypad available

Ordering Information

- ▶ Enclosed devices should be ordered by the FLA of the motor.
- ▶ The 3RW44 is designed for normal starting applications.
- ▶ For factory modifications see page 16-177.
- ▶ For complete derating and application info see the 2006 Industrial Controls catalog CPPC-06000-0106.
- ▶ For dimensional drawings see page 16-178.

Class 73 non-combination starters include:

- NEMA rated enclosure
- 3RW44 Sirius softstarter with built-in OL and bypass
- Control circuit transformer

Ideal applications for 3RW44 enclosed softstarters:

- Fans
- Pumps
- Conveying systems and lifts
- Hydraulics
- Machine tools
- Mills saws
- Crushers and grinders
- Mixers
- HVAC systems

The 3RW44 severe duty rating table should be applied for high inertia applications such rock crushers, chippers, screw compressors, etc.

Class 73 starters are built to UL and CSA standards.

For all technical information, please consult the 2006 Industrial Controls Catalog or contact your local sales support center.

3RW44 For High Feature Applications

Enclosed Non-Combination (Starter Only)

Rated Operating Current	MAX HP ^①		Kw	Class 10 Light Duty (350% * Ie for 10s) ^②								NEMA 4/4X Stainless Steel	List Price \$			
	200V	230V	460V	575V	380V	OPEN Style (Starter Only)	NEMA 1	List Price \$	NEMA 3R	List Price \$	NEMA 12	List Price \$	NEMA 4	List Price \$		
26	7.5	7.5	15	—	12	3RW4422-1BC34	73AT3_BFA	3800.00	73AT3_DFA	3700.00	73AT3_OFA	3800.00	73AT3_EFA	3900.00	73AT3_WFA	4200.00
32	10	10	20	—	15	3RW4423-1BC34	73BT3_BFA	4000.00	73BT3_DFA	3900.00	73BT3_OFA	4000.00	73BT3_EFA	4200.00	73BT3_WFA	4400.00
42	10	15	25	—	19	3RW4424-1BC34	73CT3_BFA	4300.00	73CT3_DFA	4300.00	73CT3_OFA	4300.00	73CT3_EFA	4600.00	73CT3_WFA	4800.00
51	15	15	30	—	22	3RW4425-1BC34	73DT3_BFA	4600.00	73DT3_DFA	4500.00	73DT3_OFA	4600.00	73DT3_EFA	4900.00	73DT3_WFA	5000.00
68	20	25	50	—	37	3RW4426-1BC34	73ET3_BFA	4800.00	73ET3_DFA	4800.00	73ET3_OFA	4800.00	73ET3_EFA	5100.00	73ET3_WFA	5200.00
82	25	30	60	—	45	3RW4427-1BC34	73FT3_BFA	5200.00	73FT3_DFA	5300.00	73FT3_OFA	5200.00	73FT3_EFA	5500.00	73FT3_WFA	6400.00
100	30	30	75	—	56	3RW4434-6BC34	73GT3_BFA	6100.00	73GT3_DFA	6100.00	73GT3_OFA	6000.00	73GT3_EFA	6300.00	73GT3_WFA	7100.00
117	30	40	75	—	56	3RW4435-6BC34	73HT3_BFA	6800.00	73HT3_DFA	6800.00	73HT3_OFA	6700.00	73HT3_EFA	7100.00	73HT3_WFA	7900.00
145	40	50	100	—	75	3RW4436-6BC34	73JT3_BFA	7600.00	73JT3_DFA	7600.00	73JT3_OFA	7600.00	73JT3_EFA	8000.00	73JT3_WFA	8700.00
180	60	60	125	—	93	3RW4443-6BC34	73KT3_BFA	8800.00	73KT3_DFA	8800.00	73KT3_OFA	8800.00	73KT3_EFA	9300.00	73KT3_WFA	9900.00
215	60	75	150	—	112	3RW4444-6BC34	73LT3_BFA	9600.00	73LT3_DFA	9600.00	73LT3_OFA	9600.00	73LT3_EFA	10100.00	73LT3_WFA	10800.00
280	75	100	200	—	149	3RW4445-6BC34	73MT3_BFA	11900.00	73MT3_DFA	11800.00	73MT3_OFA	11800.00	73MT3_EFA	12400.00	73MT3_WFA	14700.00
315	100	125	250	—	186	3RW4446-6BC34	73NT3_BFA	13300.00	73NT3_DFA	13300.00	73NT3_OFA	13300.00	73NT3_EFA	13900.00	73NT3_WFA	16100.00
385	125	150	300	—	224	3RW4447-6BC34	73PT3_BFA	15000.00	73PT3_DFA	14900.00	73PT3_OFA	14900.00	73PT3_EFA	15700.00	73PT3_WFA	17800.00
494	150	200	400	—	298	3RW4453-6BC34	73QT_BFA	73QT_DFA	73QT_OFA	73QT_EFA	73RT_OFA	73RT_EFA	73ST_OFA	73ST_EFA	73TT_OFA	73TT_EFA
551	150	200	450	—	336	3RW4454-6BC34	73RT_BFA	73RT_DFA	73RT_OFA	73RT_EFA	73ST_OFA	73ST_EFA	73TT_OFA	73TT_EFA	73WT_OFA	73WT_EFA
615	200	250	500	—	373	3RW4455-6BC34	73ST_BFA	73ST_DFA	73ST_OFA	73ST_EFA	73TT_OFA	73TT_EFA	73WT_OFA	73WT_EFA	73WT_OFA	73WT_EFA
693	200	250	550	—	447	3RW4456-6BC34	73TT_BFA	73TT_DFA	73TT_OFA	73TT_EFA	73WT_OFA	73WT_EFA	73WT_OFA	73WT_EFA	73WT_OFA	73WT_EFA
							200V	6	6	6	6	6	6	6	6	6
							230V	2	2	2	2	2	2	2	2	2
							380V	3	3	3	3	3	3	3	3	3
							460V	4	4	4	4	4	4	4	4	4
26	—	—	15	20	—	3RW4422-1BC35	73AT35BFA	4000.00	73AT35DFA	4000.00	73AT350FA	4000.00	73AT35EFA	4200.00	73AT35WFA	4400.00
32	—	—	20	25	—	3RW4423-1BC35	73BT35BFA	4300.00	73BT35DFA	4300.00	73BT350FA	4300.00	73BT35EFA	4600.00	73BT35WFA	4700.00
42	—	—	25	30	—	3RW4424-1BC35	73CT35BFA	4700.00	73CT35DFA	4600.00	73CT350FA	4700.00	73CT35EFA	5000.00	73CT35WFA	5100.00
51	—	—	30	40	—	3RW4425-1BC35	73DT35BFA	5000.00	73DT35DFA	4900.00	73DT350FA	4900.00	73DT35EFA	5300.00	73DT35WFA	5400.00
68	—	—	50	50	—	3RW4426-1BC35	73ET35BFA	5300.00	73ET35DFA	5200.00	73ET350FA	5300.00	73ET35EFA	5600.00	73ET35WFA	5700.00
82	—	—	60	75	—	3RW4427-1BC35	73FT35BFA	5700.00	73FT35DFA	5800.00	73FT350FA	5700.00	73FT35EFA	6000.00	73FT35WFA	6900.00
100	—	—	75	75	—	3RW4434-6BC35	73GT35BFA	6600.00	73GT35DFA	6700.00	73GT350FA	6600.00	73GT35EFA	7000.00	73GT35WFA	7700.00
117	—	—	75	100	—	3RW4435-6BC35	73HT35BFA	7400.00	73HT35DFA	7500.00	73HT350FA	7400.00	73HT35EFA	7800.00	73HT35WFA	8500.00
145	—	—	100	125	—	3RW4436-6BC35	73JT35BFA	8400.00	73JT35DFA	8400.00	73JT350FA	8400.00	73JT35EFA	8900.00	73JT35WFA	9500.00
180	—	—	125	150	—	3RW4443-6BC35	73KT35BFA	9700.00	73KT35DFA	9600.00	73KT350FA	9700.00	73KT35EFA	10200.00	73KT35WFA	10800.00
215	—	—	150	200	—	3RW4444-6BC35	73LT35BFA	10700.00	73LT35DFA	10600.00	73LT350FA	10700.00	73LT35EFA	11300.00	73LT35WFA	11800.00
280	—	—	200	250	—	3RW4445-6BC35	73MT35BFA	13100.00	73MT35DFA	13100.00	73MT350FA	13100.00	73MT35EFA	13800.00	73MT35WFA	16000.00
315	—	—	250	300	—	3RW4446-6BC35	73NT35BFA	14800.00	73NT35DFA	14700.00	73NT350FA	14700.00	73NT35EFA	15500.00	73NT35WFA	17600.00
385	—	—	300	400	—	3RW4447-6BC35	73PT35BFA	16600.00	73PT35DFA	16600.00	73PT350FA	16600.00	73PT35EFA	17500.00	73PT35WFA	19500.00
494	—	—	400	500	—	3RW4453-6BC35	73QT35BFA	73QT35DFA	73QT350FA	73QT35EFA	73RT35DFA	73RT350FA	73ST35DFA	73ST350FA	73TT35DFA	73TT350FA
551	—	—	450	600	—	3RW4454-6BC35	73RT35BFA	73RT35DFA	73RT350FA	73RT35EFA	73ST35DFA	73ST350FA	73TT35DFA	73TT350FA	73WT35DFA	73WT350FA
615	—	—	500	700	—	3RW4455-6BC35	73ST35BFA	73ST35DFA	73ST350FA	73ST35EFA	73TT35DFA	73TT350FA	73WT35DFA	73WT350FA	73WT35EFA	73WT350FA
693	—	—	550	750	—	3RW4456-6BC35	73TT35BFA	73TT35DFA	73TT350FA	73TT35EFA	73WT35DFA	73WT350FA	73WT35EFA	73WT350FA	73WT35EFA	73WT350FA
780	—	—	600	850	—	3RW4457-6BC35	73WT35BFA	73WT35DFA	73WT350FA	73WT35EFA	73WT35DFA	73WT350FA	73WT35EFA	73WT350FA	73WT35EFA	73WT350FA

^① Starter size is dependent on the nameplate Full Load Amps (FLA) rating of the motor.
HPs are for reference only. Enclosed ratings are at 40°C.

^② Starter selection is dependent on type of application. Ie = FLA rating of motor.

16
PRODUCTS

Soft Starter

Discount Schedule IEC

Siemens Power Distribution & Control, SPEEDFAX™ 2007-2008 Product Catalog

Control Products

Enclosed 3RW44

Selection



3RW44 Enclosed features:

- Available in NEMA 1, 12, 3R, 4, and 4 stainless steel
- Compact size
- Built-in bypass contactor
- Multiple starting/stopping techniques including torque control
- Internal overload class 10, 15, or 20
- Built-in graphical LCD keypad
- Internal self protection
- Fault monitoring
- 3 parameter sets
- Communication capable via opt. Profibus module
- Programmable inputs and outputs
- External keypad available

Ordering Information

- ▶ Enclosed devices should be ordered by the FLA of the motor.
 - ▶ The 3RW44 is designed for normal starting applications.
 - ▶ For factory modifications see page 16-177.
 - ▶ For complete derating and application info see the 2006 Industrial Controls catalog CPPC-06000-0106.
 - ▶ For dimensional drawings see page 16-178.
- Class 73 non-combination starters include:
- NEMA rated enclosure
 - 3RW44 Sirius softstarter with built-in OL and bypass
 - Control circuit transformer
 - Line side power terminal block
 - Reset button

Ideal applications for 3RW44 enclosed softstarters:

- Fans
- Pumps
- Conveying systems and lifts
- Hydraulics
- Machine tools
- Mills saws
- Crushers and grinders
- Mixers
- HVAC systems

The 3RW44 severe duty rating table should be applied for high inertia applications such rock crushers, chippers, screw compressors, etc.

Class 73 starters are built to UL and CSA standards.

For all technical information, please consult the 2006 Industrial Controls Catalog or contact your local sales support center.

3RW44 For High Feature Applications

Enclosed Non-Combination (Starter Only)

Rated Operating Current	MAX HP ^①		Kw	Class 20 Severe Duty (350% * Ie for 20s) ^②												
	200V	230V		460V	575V	380V	OPEN Style (Starter Only)	NEMA 1	List Price \$	NEMA 3R	List Price \$	NEMA 12	List Price \$	NEMA 4	List Price \$	NEMA 4/4X Stainless Steel
26	7.5	7.5	15	—	12	3RW4422-1BC34	73AT3_BFA	3800.00	73AT3_DFA	3700.00	73AT3_OFA	3800.00	73AT3_EFA	3900.00	73AT3_WFA	4200.00
32	10	10	20	—	15	3RW4423-1BC34	73BT3_BFA	4000.00	73BT3_DFA	3900.00	73BT3_OFA	4000.00	73BT3_EFA	4200.00	73BT3_WFA	4400.00
42	10	15	25	—	19	3RW4424-1BC34	73CT3_BFA	4300.00	73CT3_DFA	4300.00	73CT3_OFA	4300.00	73CT3_EFA	4600.00	73CT3_WFA	4800.00
51	15	15	30	—	22	3RW4425-1BC34	73DT3_BFA	4600.00	73DT3_DFA	4500.00	73DT3_OFA	4600.00	73DT3_EFA	4900.00	73DT3_WFA	5000.00
68	20	25	50	—	37	3RW4426-1BC34	73ET3_BFA	4800.00	73ET3_DFA	4800.00	73ET3_OFA	4800.00	73ET3_EFA	5100.00	73ET3_WFA	5200.00
82	25	30	60	—	45	3RW4427-1BC34	73FT3_BFA	5200.00	73FT3_DFA	5300.00	73FT3_OFA	5200.00	73FT3_EFA	5500.00	73FT3_WFA	6400.00
97	30	30	60	—	45	3RW4434-6BC34	73GT3_BFA	6100.00	73GT3_DFA	6100.00	73GT3_OFA	6000.00	73GT3_EFA	6300.00	73GT3_WFA	7100.00
113	30	40	75	—	56	3RW4435-6BC34	73HT3_BFA	6800.00	73HT3_DFA	6800.00	73HT3_OFA	6700.00	73HT3_EFA	7100.00	73HT3_WFA	7900.00
134	40	50	75	—	56	3RW4436-6BC34	73JT3_BFA	7600.00	73JT3_DFA	7600.00	73JT3_OFA	7600.00	73JT3_EFA	8000.00	73JT3_WFA	8700.00
175	50	60	100	—	75	3RW4443-6BC34	73KT3_BFA	8800.00	73KT3_DFA	8800.00	73KT3_OFA	8800.00	73KT3_EFA	9300.00	73KT3_WFA	9900.00
195	60	75	125	—	93	3RW4444-6BC34	73LT3_BFA	9600.00	73LT3_DFA	9600.00	73LT3_OFA	9600.00	73LT3_EFA	10100.00	73LT3_WFA	10800.00
243	75	75	150	—	112	3RW4445-6BC34	73MT3_BFA	11900.00	73MT3_DFA	11800.00	73MT3_OFA	11800.00	73MT3_EFA	12400.00	73MT3_WFA	14700.00
263	75	100	200	—	149	3RW4446-6BC34	73NT3_BFA	13300.00	73NT3_DFA	13300.00	73NT3_OFA	13300.00	73NT3_EFA	13900.00	73NT3_WFA	16100.00
326	100	125	250	—	186	3RW4447-6BC34	73PT3_BFA	15000.00	73PT3_DFA	14900.00	73PT3_OFA	14900.00	73PT3_EFA	15700.00	73PT3_WFA	17800.00
494	150	150	400	—	298	3RW4453-6BC34	73QT_BFA		73QT_DFA		73QT_OFA		73QT_EFA		73QT_WFA	
551	150	200	450	—	336	3RW4454-6BC34	73RT_BFA		73RT_DFA		73RT_OFA		73RT_EFA		73RT_WFA	
615	200	200	500	—	373	3RW4455-6BC34	73ST_BFA		73ST_DFA		73ST_OFA		73ST_EFA		73ST_WFA	
634	200	250	500	—	373	3RW4456-6BC34	73TT_BFA		73TT_DFA		73TT_OFA		73TT_EFA		73TT_WFA	
650	200	250	550	—	373	3RW4457-6BC34	73WT_BFA		73WT_DFA		73WT_OFA		73WT_EFA		73WT_WFA	
							200V	6		6		6		6		6
							230V	2		2		2		2		2
							380V	3		3		3		3		3
							460V	4		4		4		4		4
26	—	—	15	20	—	3RW4422-1BC35	73AT35BFA	4000.00	73AT35DFA	4000.00	73AT35OFA	4000.00	73AT35EFA	4200.00	73AT35WFA	4400.00
32	—	—	20	25	—	3RW4423-1BC35	73BT35BFA	4300.00	73BT35DFA	4300.00	73BT35OFA	4300.00	73BT35EFA	4600.00	73BT35WFA	4700.00
42	—	—	25	30	—	3RW4424-1BC35	73CT35BFA	4700.00	73CT35DFA	4600.00	73CT35OFA	4700.00	73CT35EFA	5000.00	73CT35WFA	5100.00
51	—	—	30	40	—	3RW4425-1BC35	73DT35BFA	5000.00	73DT35DFA	4900.00	73DT35OFA	4900.00	73DT35EFA	5000.00	73DT35WFA	5400.00
68	—	—	50	50	—	3RW4426-1BC35	73ET35BFA	5300.00	73ET35DFA	5200.00	73ET35OFA	5300.00	73ET35EFA	5600.00	73ET35WFA	5700.00
82	—	—	60	75	—	3RW4427-1BC35	73FT35BFA	5700.00	73FT35DFA	5800.00	73FT35OFA	5700.00	73FT35EFA	6000.00	73FT35WFA	6900.00
97	—	—	60	75	—	3RW4434-6BC35	73GT35BFA	6600.00	73GT35DFA	6700.00	73GT35OFA	6600.00	73GT35EFA	7000.00	73GT35WFA	7700.00
113	—	—	75	100	—	3RW4435-6BC35	73HT35BFA	7400.00	73HT35DFA	7500.00	73HT35OFA	7400.00	73HT35EFA	7800.00	73HT35WFA	8500.00
134	—	—	75	125	—	3RW4436-6BC35	73JT35BFA	8400.00	73JT35DFA	8400.00	73JT35OFA	8400.00	73JT35EFA	8900.00	73JT35WFA	9500.00
175	—	—	100	150	—	3RW4443-6BC35	73KT35BFA	9700.00	73KT35DFA	9600.00	73KT35OFA	9700.00	73KT35EFA	10200.00	73KT35WFA	10800.00
195	—	—	125	200	—	3RW4444-6BC35	73LT35BFA	10700.00	73LT35DFA	10600.00	73LT35OFA	10700.00	73LT35EFA	11300.00	73LT35WFA	11800.00
243	—	—	150	200	—	3RW4445-6BC35	73MT35BFA	13100.00	73MT35DFA	13100.00	73MT35OFA	13100.00	73MT35EFA	13800.00	73MT35WFA	16000.00
263	—	—	200	250	—	3RW4446-6BC35	73NT35BFA	14800.00	73NT35DFA	14700.00	73NT35OFA	14700.00	73NT35EFA	15500.00	73NT35WFA	17600.00
326	—	—	250	300	—	3RW4447-6BC35	73PT35BFA	16600.00	73PT35DFA	16600.00	73PT35OFA	16600.00	73PT35EFA	17500.00	73PT35WFA	19500.00
494	—	—	400	500	—	3RW4453-6BC35	73QT35BFA		73QT35DFA		73QT35OFA		73QT35EFA		73QT35WFA	
551	—	—	450	550	—	3RW4454-6BC35	73RT35BFA		73RT35DFA		73RT35OFA		73RT35EFA		73RT35WFA	
615	—	—	500	600	—	3RW4455-6BC35	73ST35BFA		73ST35DFA		73ST35OFA		73ST35EFA		73ST35WFA	
693	—	—	550	650	—	3RW4456-6BC35	73TT35BFA		73TT35DFA		73TT35OFA		73TT35EFA		73TT35WFA	
780	—	—	600	700	—	3RW4457-6BC35	73WT35BFA		73WT35DFA		73WT35OFA		73WT35EFA		73WT35WFA	

① Starter size is dependent on the nameplate Full Load Amps (FLA) rating of the motor.
HPs are for reference only. Enclosed ratings are at 40°C.

② Starter selection is dependent on type of application. Ie = FLA rating of motor.

Control Products

Enclosed 3RW44

Selection



3RW44 Enclosed features:

- Available in NEMA 1, 12, 3R, 4, and 4 stainless steel
- Compact size
- Built-in bypass contactor
- Multiple starting/stopping techniques including torque control
- Internal overload class 5, 10, 15, 20, or 30
- Built-in graphical LCD keypad
- Internal self protection
- Fault monitoring
- 3 parameter sets
- Communication capable via opt. Profibus module
- Programmable inputs and outputs
- External keypad available

Ordering Information

- ▶ Enclosed devices should be ordered by the FLA of the motor.
 - ▶ The 3RW44 is designed for normal starting applications.
 - ▶ For factory modifications see page 16-177.
 - ▶ For complete derating and application info see the 2006 Industrial Controls catalog CPPC-06000-0106.
 - ▶ For dimensional drawings see page 16-178.
- Class 74 non-combination starters include:
- NEMA rated enclosure
 - 3RW44 Sirius softstarter with built-in OL and bypass
 - Circuit breaker with disconnect
 - Control circuit transformer
 - Reset button

Ideal applications for 3RW44 enclosed softstarters:

- Fans
- Pumps
- Conveying systems and lifts
- Hydraulics
- Machine tools
- Mills saws
- Crushers and grinders
- Mixers
- HVAC systems

The 3RW44 severe duty rating table should be applied for high inertia applications such rock crushers, chippers, screw compressors, etc.

Class 74 starters are built to UL and CSA standards.

For all technical information, please consult the 2006 Industrial Controls Catalog or contact your local sales support center.

3RW44 For High Feature Applications

Enclosed Combination with Circuit Breaker Disconnect

Rated Operating Current	MAX HP ^①		Kw	Class 10 Light Duty (350% * Ie for 10s) ^②															
	200V	230V		460V	575V	380V	OPEN Style (Starter Only)	NEMA 1	List Price \$	NEMA 3R	List Price \$	NEMA 12	List Price \$	NEMA 4	List Price \$	NEMA 4/4X Stainless Steel	List Price \$		
26	7.5	7.5	15	—	—	12	3RW4422-1BC34	74AT3_BFAP	4700.00	74AT3_DFAP	4700.00	74AT3_OFAP	4700.00	74AT3_EFAP	5000.00	74AT3_WFAP	5700.00		
32	10	10	20	—	—	15	3RW4423-1BC34	74BT3_BFAP	4900.00	74BT3_DFAP	4900.00	74BT3_OFAP	4900.00	74BT3_EFAP	5200.00	74BT3_WFAP	5900.00		
42	10	15	25	—	—	19	3RW4424-1BC34	74CT3_BFAP	5000.00	74CT3_DFAP	5000.00	74CT3_OFAP	5000.00	74CT3_EFAP	5300.00	74CT3_WFAP	6000.00		
51	15	15	30	—	—	22	3RW4425-1BC34	74DT3_BFAP	5500.00	74DT3_DFAP	5500.00	74DT3_OFAP	5500.00	74DT3_EFAP	5800.00	74DT3_WFAP	7100.00		
68	20	25	50	—	—	37	3RW4426-1BC34	74ET3_BFAP	5800.00	74ET3_DFAP	5800.00	74ET3_OFAP	5800.00	74ET3_EFAP	6100.00	74ET3_WFAP	7300.00		
82	25	30	60	—	—	45	3RW4427-1BC34	74FT3_BFAP	6400.00	74FT3_DFAP	6400.00	74FT3_OFAP	6400.00	74FT3_EFAP	6800.00	74FT3_WFAP	7700.00		
100	30	30	75	—	—	56	3RW4434-6BC34	74GT3_BFAP	6800.00	74GT3_DFAP	6800.00	74GT3_OFAP	6800.00	74GT3_EFAP	7200.00	74GT3_WFAP	8100.00		
117	30	40	75	—	—	56	3RW4435-6BC34	74HT3_BFAP	7900.00	74HT3_DFAP	7900.00	74HT3_OFAP	7900.00	74HT3_EFAP	8300.00	74HT3_WFAP	11100.00		
145	40	50	100	—	—	75	3RW4436-6BC34	74JT3_BFAP	8400.00	74JT3_DFAP	8400.00	74JT3_OFAP	8400.00	74JT3_EFAP	8900.00	74JT3_WFAP	11300.00		
180	60	60	125	—	—	93	3RW4443-6BC34	74KT3_BFAP	10300.00	74KT3_DFAP	10300.00	74KT3_OFAP	10300.00	74KT3_EFAP	10900.00				
215	60	75	150	—	—	112	3RW4444-6BC34	74LT3_BFAP	11400.00	74LT3_DFAP	11400.00	74LT3_OFAP	11400.00	74LT3_EFAP	12000.00				
280	75	100	200	—	—	149	3RW4445-6BC34	74MT3_BFAP	14500.00	74MT3_DFAP	14500.00	74MT3_OFAP	14500.00	74MT3_EFAP	15300.00				
315	100	125	250	—	—	186	3RW4446-6BC34	74NT3_BFAP	16000.00	74NT3_DFAP	16100.00	74NT3_OFAP	16000.00	74NT3_EFAP	16800.00				
385	125	150	300	—	—	224	3RW4447-6BC34	74PT3_BFAP	17600.00	74PT3_DFAP	17700.00	74PT3_OFAP	17600.00	74PT3_EFAP	18500.00				
494	150	200	400	—	—	298	3RW4453-6BC34	73QT_BFAP	73QT_DFAP	73QT_OFAP	73QT_EFAP	73QT_WFAP	73QT_EFAP	73QT_WFAP	73QT_EFAP	73QT_WFAP	73QT_EFAP	73QT_WFAP	
551	150	200	450	—	—	336	3RW4454-6BC34	73RT_BFAP	73RT_DFAP	73RT_OFAP	73RT_EFAP	73RT_WFAP	73RT_EFAP	73RT_WFAP	73RT_EFAP	73RT_WFAP	73RT_EFAP	73RT_WFAP	
615	200	250	500	—	—	373	3RW4455-6BC34	73ST_BFAP	73ST_DFAP	73ST_OFAP	73ST_EFAP	73ST_WFAP	73ST_EFAP	73ST_WFAP	73ST_EFAP	73ST_WFAP	73ST_EFAP	73ST_WFAP	
693	200	250	550	—	—	373	3RW4456-6BC34	73TT_BFAP	73TT_DFAP	73TT_OFAP	73TT_EFAP	73TT_WFAP	73TT_EFAP	73TT_WFAP	73TT_EFAP	73TT_WFAP	73TT_EFAP	73TT_WFAP	
780	200	250	600	—	—	447	3RW4457-6BC34	73WT_BFAP	73WT_DFAP	73WT_OFAP	73WT_EFAP	73WT_WFAP	73WT_EFAP	73WT_WFAP	73WT_EFAP	73WT_WFAP	73WT_EFAP	73WT_WFAP	
								200V	6	6	6	6	6	6	6	6	6	6	6
								230V	2	2	2	2	2	2	2	2	2	2	2
								380V	3	3	3	3	3	3	3	3	3	3	3
								460V	4	4	4	4	4	4	4	4	4	4	4
26	—	—	15	20	—	—	3RW4422-1BC35	74AT35BFAP	5000.00	74AT35DFAP	5000.00	74AT35OFAP	5000.00	74AT35EFAP	5300.00	74AT35WFAP	6000.00		
32	—	—	20	25	—	—	3RW4423-1BC35	74BT35BFAP	5200.00	74BT35DFAP	5200.00	74BT35OFAP	5200.00	74BT35EFAP	5600.00	74BT35WFAP	6200.00		
42	—	—	25	30	—	—	3RW4424-1BC35	74CT35BFAP	5400.00	74CT35DFAP	5300.00	74CT35OFAP	5300.00	74CT35EFAP	5700.00	74CT35WFAP	6300.00		
51	—	—	30	40	—	—	3RW4425-1BC35	74DT35BFAP	5900.00	74DT35DFAP	5900.00	74DT35OFAP	5900.00	74DT35EFAP	6200.00	74DT35WFAP	7500.00		
68	—	—	50	50	—	—	3RW4426-1BC35	74ET35BFAP	6300.00	74ET35DFAP	6200.00	74ET35OFAP	6200.00	74ET35EFAP	6600.00	74ET35WFAP	7800.00		
82	—	—	60	75	—	—	3RW4427-1BC35	74FT35BFAP	6900.00	74FT35DFAP	6900.00	74FT35OFAP	6900.00	74FT35EFAP	7300.00	74FT35WFAP	8100.00		
100	—	—	75	75	—	—	3RW4434-6BC35	74GT35BFAP	7400.00	74GT35DFAP	7400.00	74GT35OFAP	7300.00	74GT35EFAP	7800.00	74GT35WFAP	8600.00		
117	—	—	75	100	—	—	3RW4435-6BC35	74HT35BFAP	8500.00	74HT35DFAP	8500.00	74HT35OFAP	8500.00	74HT35EFAP	9000.00	74HT35WFAP	11800.00		
145	—	—	100	125	—	—	3RW4436-6BC35	74JT35BFAP	9100.00	74JT35DFAP	9200.00	74JT35OFAP	9200.00	74JT35EFAP	9400.00	74JT35WFAP	12100.00		
180	—	—	125	150	—	—	3RW4443-6BC35	74KT35BFAP	11200.00	74KT35DFAP	11200.00	74KT35OFAP	11200.00	74KT35EFAP	11800.00				
215	—	—	150	200	—	—	3RW4444-6BC35	74LT35BFAP	12500.00	74LT35DFAP	12500.00	74LT35OFAP	12500.00	74LT35EFAP	13200.00				
280	—	—	200	250	—	—	3RW4445-6BC35	74MT35BFAP	15800.00	74MT35DFAP	15800.00	74MT35OFAP	15800.00	74MT35EFAP	16600.00				
315	—	—	250	300	—	—	3RW4446-6BC35	74NT35BFAP	17400.00	74NT35DFAP	17500.00	74NT35OFAP	17400.00	74NT35EFAP	18400.00				
385	—	—	300	400	—	—	3RW4447-6BC35	74PT35BFAP	19300.00	74PT35DFAP	19400.00	74PT35OFAP	19300.00	74PT35EFAP	20300.00				
494	—	—	400	500	—	—	3RW4453-6BC35	73QT35BFAPP	73QT35DFAP	73QT35OFAP	73QT35EFAP	73QT35WFAP	73QT35EFAP	73QT35WFAP	73QT35EFAP	73QT35WFAP	73QT35EFAP	73QT35WFAP	
551	—	—	450	600	—	—	3RW4454-6BC35	73RT35BFAPP	73RT35DFAP	73RT35OFAP	73RT35EFAP	73RT35WFAP	73RT35EFAP	73RT35WFAP	73RT35EFAP	73RT35WFAP	73RT35EFAP	73RT35WFAP	
615	—	—	500	700	—	—	3RW4455-6BC35	73ST35BFAPP	73ST35DFAP	73ST35OFAP	73ST35EFAP	73ST35WFAP	73ST35EFAP	73ST35WFAP	73ST35EFAP	73ST35WFAP	73ST35EFAP	73ST35WFAP	
693	—	—	550	750	—	—	3RW4456-6BC35	73TT35BFAPP	73TT35DFAP	73TT35OFAP	73TT35EFAP	73TT35WFAP	73TT35EFAP	73TT35WFAP	73TT35EFAP	73TT35WFAP	73TT35EFAP	73TT35WFAP	
780	—	—	600	850	—	—	3RW4457-6BC35	73WT35BFAPP	73WT35DFAP	73WT35OFAP	73WT35EFAP	73WT35WFAP	73WT35EFAP	73WT35WFAP	73WT35EFAP	73WT35WFAP	73WT35EFAP	73WT35WFAP	

^① Starter size is dependent on the nameplate Full Load Amps (FLA) rating of the motor.
HPs are for reference only. Enclosed ratings are at 40°C.

^② Starter selection is dependent on type of application. Ie = FLA rating of motor.

Discount Schedule IEC

Siemens Power Distribution & Control, SPEEDFAX™ 2007-2008 Product Catalog

Control Products

Enclosed 3RW44

Selection



3RW44 Enclosed features:

- Available in NEMA 1, 12, 3R, 4, and 4 stainless steel
- Compact size
- Built-in bypass contactor
- Multiple starting/stopping techniques including torque control
- Internal overload class 5, 10, 15, 20, or 30
- Built-in graphical LCD keypad
- Internal self protection
- Fault monitoring
- 3 parameter sets
- Communication capable via opt. Profibus module
- Programmable inputs and outputs
- External keypad available

Ordering Information

- ▶ Enclosed devices should be ordered by the FLA of the motor.
 - ▶ The 3RW44 is designed for normal starting applications.
 - ▶ For factory modifications see page 16-177.
 - ▶ For complete derating and application info see the 2006 Industrial Controls catalog CPPC-06000-0106.
 - ▶ For dimensional drawings see page 16-178.
- Class 74 non-combination starters include:
- NEMA rated enclosure
 - 3RW44 Sirius softstarter with built-in OL and bypass
 - Circuit breaker with disconnect
 - Control circuit transformer
 - Reset button

Ideal applications for 3RW44 enclosed softstarters:

- Fans
- Pumps
- Conveying systems and lifts
- Hydraulics
- Machine tools
- Mills saws
- Crushers and grinders
- Mixers
- HVAC systems

The 3RW44 severe duty rating table should be applied for high inertia applications such rock crushers, chippers, screw compressors, etc.

Class 74 starters are built to UL and CSA standards.

For all technical information, please consult the 2006 Industrial Controls Catalog or contact your local sales support center.

3RW44 For High Feature Applications

Enclosed Combination with Circuit Breaker Disconnect

Rated Operating Current	MAX HP ^①		Kw	Class 20 Severe Duty (350% * Ie for 20s) ^②													
	200V	230V		460V	575V	380V	OPEN Style (Starter Only)	NEMA 1	List Price \$	NEMA 3R	List Price \$	NEMA 12	List Price \$	NEMA 4	List Price \$	NEMA 4/4X Stainless Steel	List Price \$
26	7.5	7.5	15	—	—	12	3RW4422-1BC34	74AT3_BFAP	4700.00	74AT3_DFAP	4700.00	74AT3_OFAP	4700.00	74AT3_EFAP	5000.00	74AT3_WFAP	5700.00
32	10	10	20	—	—	15	3RW4423-1BC34	74BT3_BFAP	4900.00	74BT3_DFAP	4900.00	74BT3_OFAP	4900.00	74BT3_EFAP	5200.00	74BT3_WFAP	5900.00
42	10	15	25	—	—	19	3RW4424-1BC34	74CT3_BFAP	5000.00	74CT3_DFAP	5000.00	74CT3_OFAP	5000.00	74CT3_EFAP	5300.00	74CT3_WFAP	6000.00
51	15	15	30	—	—	22	3RW4425-1BC34	74DT3_BFAP	5500.00	74DT3_DFAP	5500.00	74DT3_OFAP	5500.00	74DT3_EFAP	5800.00	74DT3_WFAP	7100.00
68	20	25	50	—	—	37	3RW4426-1BC34	74ET3_BFAP	5800.00	74ET3_DFAP	5800.00	74ET3_OFAP	5800.00	74ET3_EFAP	6100.00	74ET3_WFAP	7300.00
82	25	30	60	—	—	45	3RW4427-1BC34	74FT3_BFAP	6400.00	74FT3_DFAP	6400.00	74FT3_OFAP	6400.00	74FT3_EFAP	6800.00	74FT3_WFAP	7700.00
97	30	30	60	—	—	45	3RW4434-6BC34	74GT3_BFAP	6800.00	74GT3_DFAP	6800.00	74GT3_OFAP	6800.00	74GT3_EFAP	7200.00	74GT3_WFAP	8100.00
113	30	40	75	—	—	56	3RW4435-6BC34	74HT3_BFAP	7900.00	74HT3_DFAP	7900.00	74HT3_OFAP	7900.00	74HT3_EFAP	8300.00	74HT3_WFAP	11100.00
134	40	50	75	—	—	56	3RW4436-6BC34	74JT3_BFAP	8400.00	74JT3_DFAP	8400.00	74JT3_OFAP	8400.00	74JT3_EFAP	8900.00	74JT3_WFAP	11300.00
175	50	60	100	—	—	75	3RW4443-6BC34	74KT3_BFAP	10300.00	74KT3_DFAP	10300.00	74KT3_OFAP	10300.00	74KT3_EFAP	10900.00		
195	60	75	125	—	—	93	3RW4444-6BC34	74LT3_BFAP	11400.00	74LT3_DFAP	11400.00	74LT3_OFAP	11400.00	74LT3_EFAP	12000.00		
243	75	75	150	—	—	112	3RW4445-6BC34	74MT3_BFAP	14500.00	74MT3_DFAP	14500.00	74MT3_OFAP	14500.00	74MT3_EFAP	15300.00		
263	75	100	200	—	—	149	3RW4446-6BC34	74NT3_BFAP	16000.00	74NT3_DFAP	16100.00	74NT3_OFAP	16000.00	74NT3_EFAP	16800.00		
326	100	125	250	—	—	186	3RW4447-6BC34	74PT3_BFAP	17600.00	74PT3_DFAP	17700.00	74PT3_OFAP	17600.00	74PT3_EFAP	18500.00		
494	150	150	400	—	—	298	3RW4453-6BC34	73QT_BFAP	73QT_DFAP	73QT_OFAP	73QT_EFAP	73QT_WFAP	73QT_EFAP	73QT_WFAP	8600.00		
551	150	200	450	—	—	336	3RW4454-6BC34	73RT_BFAP	73RT_DFAP	73RT_OFAP	73RT_EFAP	73RT_WFAP	73RT_EFAP	73RT_WFAP	11800.00		
615	200	200	500	—	—	373	3RW4455-6BC34	73ST_BFAP	73ST_DFAP	73ST_OFAP	73ST_EFAP	73ST_WFAP	73ST_EFAP	73ST_WFAP	12100.00		
634	200	250	500	—	—	373	3RW4456-6BC34	73TT_BFAP	73TT_DFAP	73TT_OFAP	73TT_EFAP	73TT_WFAP	73TT_EFAP	73TT_WFAP	12100.00		
650	200	250	550	—	—	373	3RW4457-6BC34	73WT_BFAP	73WT_DFAP	73WT_OFAP	73WT_EFAP	73WT_WFAP	73WT_EFAP	73WT_WFAP	12100.00		
							200V	6	6	6	6	6	6	6	6	6	
							230V	2	2	2	2	2	2	2	2	2	
							380V	3	3	3	3	3	3	3	3	3	
							460V	4	4	4	4	4	4	4	4	4	
26	—	—	15	20	—	—	3RW4422-1BC35	74AT35BFAP	5000.00	74AT35DFAP	5000.00	74AT35OFAP	5000.00	74AT35EFAP	5300.00	74AT35WFAP	6000.00
32	—	—	20	25	—	—	3RW4423-1BC35	74BT35BFAP	5200.00	74BT35DFAP	5200.00	74BT35OFAP	5200.00	74BT35EFAP	5600.00	74BT35WFAP	6200.00
42	—	—	25	30	—	—	3RW4424-1BC35	74CT35BFAP	5400.00	74CT35DFAP	5300.00	74CT35OFAP	5300.00	74CT35EFAP	5700.00	74CT35WFAP	6300.00
51	—	—	30	40	—	—	3RW4425-1BC35	74DT35BFAP	5900.00	74DT35DFAP	5900.00	74DT35OFAP	5900.00	74DT35EFAP	6200.00	74DT35WFAP	7500.00
68	—	—	50	50	—	—	3RW4426-1BC35	74ET35BFAP	6300.00	74ET35DFAP	6200.00	74ET35OFAP	6200.00	74ET35EFAP	6600.00	74ET35WFAP	7800.00
82	—	—	60	75	—	—	3RW4427-1BC35	74FT35BFAP	6900.00	74FT35DFAP	6900.00	74FT35OFAP	6900.00	74FT35EFAP	7300.00	74FT35WFAP	8100.00
97	—	—	60	75	—	—	3RW4434-6BC35	74GT35BFAP	7400.00	74GT35DFAP	7400.00	74GT35OFAP	7300.00	74GT35EFAP	7800.00	74GT35WFAP	8600.00
113	—	—	75	100	—	—	3RW4435-6BC35	74HT35BFAP	8500.00	74HT35DFAP	8500.00	74HT35OFAP	8500.00	74HT35EFAP	9000.00	74HT35WFAP	11800.00
134	—	—	75	125	—	—	3RW4436-6BC35	74JT35BFAP	9100.00	74JT35DFAP	9200.00	74JT35OFAP	9200.00	74JT35EFAP	9400.00	74JT35WFAP	12100.00
175	—	—	100	150	—	—	3RW4443-6BC35	74KT35BFAP	11200.00	74KT35DFAP	11200.00	74KT35OFAP	11200.00	74KT35EFAP	11800.00		
195	—	—	125	200	—	—	3RW4444-6BC35	74LT35BFAP	12500.00	74LT35DFAP	12500.00	74LT35OFAP	12500.00	74LT35EFAP	13200.00		
243	—	—	150	200	—	—	3RW4445-6BC35	74MT35BFAP	15800.00	74MT35DFAP	15800.00	74MT35OFAP	15800.00	74MT35EFAP	16600.00		
263	—	—	200	250	—	—	3RW4446-6BC35	74NT35BFAP	17400.00	74NT35DFAP	17500.00	74NT35OFAP	17400.00	74NT35EFAP	18400.00		
326	—	—	250	300	—	—	3RW4447-6BC35	74PT35BFAP	19300.00	74PT35DFAP	19400.00	74PT35OFAP	19300.00	74PT35EFAP	20300.00		
494	—	—	400	500	—	—	3RW4453-6BC35	73QT35BFAP	73QT35DFAP	73QT35OFAP	73QT35EFAP	73QT35WFAP	73QT35EFAP	73QT35WFAP	8600.00		
551	—	—	450	550	—	—	3RW4454-6BC35	73RT35BFAP	73RT35DFAP	73RT35OFAP	73RT35EFAP	73RT35WFAP	73RT35EFAP	73RT35WFAP	11800.00		
615	—	—	500	600	—	—	3RW4455-6BC35	73ST35BFAP	73ST35DFAP	73ST35OFAP	73ST35EFAP	73ST35WFAP	73ST35EFAP	73ST35WFAP	12100.00		
693	—	—	550	650	—	—	3RW4456-6BC35	73TT35BFAP	73TT35DFAP	73TT35OFAP	73TT35EFAP	73TT35WFAP	73TT35EFAP	73TT35WFAP	12100.00		
780	—	—	600	700	—	—	3RW4457-6BC35	73WT35BFAP	73WT35DFAP	73WT35OFAP	73WT35EFAP	73WT35WFAP	73WT35EFAP	73WT35WFAP	12100.00		

^① Starter size is dependent on the nameplate Full Load Amps (FLA) rating of the motor. HPs are for reference only. Enclosed ratings are at 40°C.

^② Starter selection is dependent on type of application. Ie = FLA rating of motor.

Control Products

Enclosed 3RW44

Selection



3RW44 Enclosed features:

- Available in NEMA 1, 12, 3R, 4, and 4 stainless steel
- Compact size
- Built-in bypass contactor
- Multiple starting/stopping techniques including torque control
- Internal overload class 5, 10, 15, 20, or 30
- Built-in graphical LCD keypad
- Internal self protection
- Fault monitoring
- 3 parameter sets
- Communication capable via opt. Profibus module
- Programmable inputs and outputs
- External keypad available

Ordering Information

- ▶ Enclosed devices should be ordered by the FLA of the motor.
 - ▶ The 3RW44 is designed for normal starting applications.
 - ▶ For factory modifications see page 16-177.
 - ▶ For complete derating and application info see the 2006 Industrial Controls catalog CPPC-06000-0106.
 - ▶ For dimensional drawings see page 16-178.
- Class 74 non-combination starters include:
- NEMA rated enclosure
 - 3RW44 Sirius softstarter with built-in OL and bypass
 - Fusible disconnect
 - Control circuit transformer
 - Reset button

Ideal applications for 3RW44 enclosed softstarters:

- Fans
- Pumps
- Conveying systems and lifts
- Hydraulics
- Machine tools
- Mills saws
- Crushers and grinders
- Mixers
- HVAC systems

The 3RW44 severe duty rating table should be applied for high inertia applications such rock crushers, chippers, screw compressors, ect.

Class 74 starters are built to UL and CSA standards.

For all technical information, please consult the 2006 Industrial Controls Catalog or contact your local sales support center.

3RW44 For High Feature Applications

Enclosed Combination with Fusible Disconnect

Rated Operating Current	MAX HP ^①		Kw	Class 10 Light Duty ^②													
	200V	230V		460V	575V	380V	OPEN Style (Starter Only)	NEMA 1	List Price \$	NEMA 3R	List Price \$	NEMA 12	List Price \$	NEMA 4	List Price \$	NEMA 4/4X Stainless Steel	List Price \$
26	7.5	7.5	15	—	—	12	3RW4422-1BC34	74AT3_BFAF	4600.00	74AT3_DFAF	4500.00	74AT3_OFAF	4500.00	74AT3_EFAF	4800.00	74AT3_WFAF	5500.00
32	10	10	20	—	—	15	3RW4423-1BC34	74BT3_BFAF	4800.00	74BT3_DFAF	4800.00	74BT3_OFAF	4800.00	74BT3_EFAF	5100.00	74BT3_WFAF	5800.00
42	10	15	25	—	—	19	3RW4424-1BC34	74CT3_BFAF	5100.00	74CT3_DFAF	5100.00	74CT3_OFAF	5100.00	74CT3_EFAF	5400.00	74CT3_WFAF	6100.00
51	15	15	30	—	—	22	3RW4425-1BC34	74DT3_BFAF	5500.00	74DT3_DFAF	5400.00	74DT3_OFAF	5400.00	74DT3_EFAF	5700.00	74DT3_WFAF	7000.00
68	20	25	50	—	—	37	3RW4426-1BC34	74ET3_BFAF	5700.00	74ET3_DFAF	5700.00	74ET3_OFAF	5700.00	74ET3_EFAF	6000.00	74ET3_WFAF	7300.00
82	25	30	60	—	—	45	3RW4427-1BC34	74FT3_BFAF	6400.00	74FT3_DFAF	6400.00	74FT3_OFAF	6400.00	74FT3_EFAF	6800.00	74FT3_WFAF	7700.00
100	30	30	75	—	—	56	3RW4434-6BC34	74GT3_BFAF	6800.00	74GT3_DFAF	6800.00	74GT3_OFAF	6800.00	74GT3_EFAF	7200.00	74GT3_WFAF	8100.00
117	30	40	75	—	—	56	3RW4435-6BC34	74HT3_BFAF	7600.00	74HT3_DFAF	7600.00	74HT3_OFAF	7600.00	74HT3_EFAF	8000.00	74HT3_WFAF	10800.00
145	40	50	100	—	—	75	3RW4436-6BC34	74JT3_BFAF	8800.00	74JT3_DFAF	8800.00	74JT3_OFAF	8800.00	74JT3_EFAF	9300.00	74JT3_WFAF	11700.00
180	60	60	125	—	—	93	3RW4443-6BC34	74KT3_BFAF	11000.00	74KT3_DFAF	11000.00	74KT3_OFAF	11000.00	74KT3_EFAF	11600.00		
215	60	75	150	—	—	112	3RW4444-6BC34	74LT3_BFAF	11900.00	74LT3_DFAF	11900.00	74LT3_OFAF	11900.00	74LT3_EFAF	12400.00		
280	75	100	200	—	—	149	3RW4445-6BC34	74MT3_BFAF	14900.00	74MT3_DFAF	14900.00	74MT3_OFAF	14900.00	74MT3_EFAF	15700.00		
315	100	125	250	—	—	186	3RW4446-6BC34	74NT3_BFAF	16400.00	74NT3_DFAF	16400.00	74NT3_OFAF	16400.00	74NT3_EFAF	17300.00		
385	125	150	300	—	—	224	3RW4447-6BC34	74PT3_BFAF	18000.00	74PT3_DFAF	18100.00	74PT3_OFAF	18000.00	74PT3_EFAF	18900.00		
494	150	200	400	—	—	298	3RW4453-6BC34	73QT_BFAF		73QT_DFAF		73QT_OFAF		73QT_EFAF			
551	150	200	450	—	—	336	3RW4454-6BC34	73RT_BFAF		73RT_DFAF		73RT_OFAF		73RT_EFAF			
615	200	250	500	—	—	373	3RW4455-6BC34	73ST_BFAF		73ST_DFAF		73ST_OFAF		73ST_EFAF			
693	200	250	550	—	—	373	3RW4456-6BC34	73TT_BFAF		73TT_DFAF		73TT_OFAF		73TT_EFAF			
780	200	250	600	—	—	447	3RW4457-6BC34	73WT_BFAF		73WT_DFAF		73WT_OFAF		73WT_EFAF			
								200V	6		6		6		6		
								230V	2		2		2		2		
								380V	3		3		3		3		
								460V	4		4		4		4		
26	—	—	15	20	—	—	3RW4422-1BC35	74AT35BFAF	4800.00	74AT35DFAF	4800.00	74AT35OFAF	4800.00	74AT35EFAF	5100.00	74AT35WFAF	5800.00
32	—	—	20	25	—	—	3RW4423-1BC35	74BT35BFAF	5100.00	74BT35DFAF	5100.00	74BT35OFAF	5100.00	74BT35EFAF	5400.00	74BT35WFAF	6100.00
42	—	—	25	30	—	—	3RW4424-1BC35	74CT35BFAF	5500.00	74CT35DFAF	5500.00	74CT35OFAF	5500.00	74CT35EFAF	5800.00	74CT35WFAF	6500.00
51	—	—	30	40	—	—	3RW4425-1BC35	74DT35BFAF	5800.00	74DT35DFAF	5800.00	74DT35OFAF	5800.00	74DT35EFAF	6100.00	74DT35WFAF	7400.00
68	—	—	50	50	—	—	3RW4426-1BC35	74ET35BFAF	6200.00	74ET35DFAF	6100.00	74ET35OFAF	6100.00	74ET35EFAF	6500.00	74ET35WFAF	7700.00
82	—	—	60	75	—	—	3RW4427-1BC35	74FT35BFAF	6900.00	74FT35DFAF	6900.00	74FT35OFAF	6900.00	74FT35EFAF	7300.00	74FT35WFAF	8200.00
100	—	—	75	75	—	—	3RW4434-6BC35	74GT35BFAF	7400.00	74GT35DFAF	7400.00	74GT35OFAF	7400.00	74GT35EFAF	7800.00	74GT35WFAF	8700.00
117	—	—	75	100	—	—	3RW4435-6BC35	74HT35BFAF	8200.00	74HT35DFAF	8200.00	74HT35OFAF	8200.00	74HT35EFAF	8800.00	74HT35WFAF	11500.00
145	—	—	100	125	—	—	3RW4436-6BC35	74JT35BFAF	9600.00	74JT35DFAF	9600.00	74JT35OFAF	9600.00	74JT35EFAF	10100.00	74JT35WFAF	12500.00
180	—	—	125	150	—	—	3RW4443-6BC35	74KT35BFAF	11900.00	74KT35DFAF	11900.00	74KT35OFAF	11900.00	74KT35EFAF	12500.00		
215	—	—	150	200	—	—	3RW4444-6BC35	74LT35BFAF	12900.00	74LT35DFAF	12900.00	74LT35OFAF	12900.00	74LT35EFAF	13600.00		
280	—	—	200	250	—	—	3RW4445-6BC35	74MT35BFAF	16100.00	74MT35DFAF	16100.00	74MT35OFAF	16100.00	74MT35EFAF	17000.00		
315	—	—	250	300	—	—	3RW4446-6BC35	74NT35BFAF	17800.00	74NT35DFAF	17900.00	74NT35OFAF	17800.00	74NT35EFAF	18700.00		
385	—	—	300	400	—	—	3RW4447-6BC35	74PT35BFAF	19700.00	74PT35DFAF	19800.00	74PT35OFAF	19700.00	74PT35EFAF	20700.00		
494	—	—	400	500	—	—	3RW4453-6BC35	73QT35BFAF		73QT35DFAF		73QT35OFAF		73QT35EFAF			
551	—	—	450	600	—	—	3RW4454-6BC35	73RT35BFAF		73RT35DFAF		73RT35OFAF		73RT35EFAF			
615	—	—	500	700	—	—	3RW4455-6BC35	73ST35BFAF		73ST35DFAF		73ST35OFAF		73ST35EFAF			
693	—	—	550	750	—	—	3RW4456-6BC35	73TT35BFAF		73TT35DFAF		73TT35OFAF		73TT35EFAF			
780	—	—	600	850	—	—	3RW4457-6BC35	73WT35BFAF		73WT35DFAF		73WT35OFAF		73WT35EFAF			

^① Starter size is dependent on the nameplate Full Load Amps (FLA) rating of the motor.
HPs are for reference only. Enclosed ratings are at 40°C.

^② Starter selection is dependent on type of application. Ie = FLA rating of motor.

Discount Schedule IEC

Siemens Power Distribution & Control, SPEEDFAX™ 2007-2008 Product Catalog

Control Products

Enclosed 3RW44

Selection



3RW44 Enclosed features:

- Available in NEMA 1, 12, 3R, 4, and 4 stainless steel
- Compact size
- Built-in bypass contactor
- Multiple starting/stopping techniques including torque control
- Internal overload class 5, 10, 15, 20, or 30
- Built-in graphical LCD keypad
- Internal self protection
- Fault monitoring
- 3 parameter sets
- Communication capable via opt. Profibus module
- Programmable inputs and outputs
- External keypad available

Ordering Information

- ▶ Enclosed devices should be ordered by the FLA of the motor.
 - ▶ The 3RW44 is designed for normal starting applications.
 - ▶ For factory modifications see page 16-177.
 - ▶ For complete derating and application info see the 2006 Industrial Controls catalog CPPC-06000-0106.
 - ▶ For dimensional drawings see page 16-178.
- Class 74 non-combination starters include:
- NEMA rated enclosure
 - 3RW44 Sirius softstarter with built-in OL and bypass
 - Fusible disconnect
 - Control circuit transformer
 - Reset button

Ideal applications for 3RW44 enclosed softstarters:

- Fans
- Pumps
- Conveying systems and lifts
- Hydraulics
- Machine tools
- Mills saws
- Crushers and grinders
- Mixers
- HVAC systems

The 3RW44 severe duty rating table should be applied for high inertia applications such rock crushers, chippers, screw compressors, etc.

Class 74 starters are built to UL and CSA standards.

For all technical information, please consult the 2006 Industrial Controls Catalog or contact your local sales support center.

3RW44 For High Feature Applications

Enclosed Combination with Fusible Disconnect

Rated Operating Current	MAX HP ^①		Kw	Class 20 Severe Duty (350% * Ie for 20s) ^②								NEMA 4/4X Stainless Steel	List Price \$				
	200V	230V		460V	575V	380V	OPEN Style (Starter Only)	NEMA 1	List Price \$	NEMA 3R	List Price \$	NEMA 12	List Price \$	NEMA 4			
26	7.5	7.5	15	—	—	12	3RW4422-1BC34	74AT3_BFAF	4600.00	74AT3_DFAF	4500.00	74AT3_OFAF	4500.00	74AT3_EFAF	4800.00	74AT3_WFAF	5500.00
32	10	10	20	—	—	15	3RW4423-1BC34	74BT3_BFAF	4800.00	74BT3_DFAF	4800.00	74BT3_OFAF	4800.00	74BT3_EFAF	5100.00	74BT3_WFAF	5800.00
42	10	15	25	—	—	19	3RW4424-1BC34	74CT3_BFAF	5100.00	74CT3_DFAF	5100.00	74CT3_OFAF	5100.00	74CT3_EFAF	5400.00	74CT3_WFAF	6100.00
51	15	15	30	—	—	22	3RW4425-1BC34	74DT3_BFAF	5500.00	74DT3_DFAF	5400.00	74DT3_OFAF	5400.00	74DT3_EFAF	5700.00	74DT3_WFAF	7000.00
68	20	25	50	—	—	37	3RW4426-1BC34	74ET3_BFAF	5700.00	74ET3_DFAF	5700.00	74ET3_OFAF	5700.00	74ET3_EFAF	6000.00	74ET3_WFAF	7300.00
82	25	30	60	—	—	45	3RW4427-1BC34	74FT3_BFAF	6400.00	74FT3_DFAF	6400.00	74FT3_OFAF	6400.00	74FT3_EFAF	6800.00	74FT3_WFAF	7700.00
97	30	30	60	—	—	45	3RW4434-6BC34	74GT3_BFAF	6800.00	74GT3_DFAF	6800.00	74GT3_OFAF	6800.00	74GT3_EFAF	7200.00	74GT3_WFAF	8100.00
113	30	40	75	—	—	56	3RW4435-6BC34	74HT3_BFAF	7600.00	74HT3_DFAF	7600.00	74HT3_OFAF	7600.00	74HT3_EFAF	8000.00	74HT3_WFAF	10800.00
134	40	50	75	—	—	56	3RW4436-6BC34	74JT3_BFAF	8800.00	74JT3_DFAF	8800.00	74JT3_OFAF	8800.00	74JT3_EFAF	9300.00	74JT3_WFAF	11700.00
175	50	60	100	—	—	75	3RW4443-6BC34	74KT3_BFAF	11000.00	74KT3_DFAF	11000.00	74KT3_OFAF	11000.00	74KT3_EFAF	11600.00		
195	60	75	125	—	—	93	3RW4444-6BC34	74LT3_BFAF	11900.00	74LT3_DFAF	11900.00	74LT3_OFAF	11900.00	74LT3_EFAF	12400.00		
243	75	75	150	—	—	112	3RW4445-6BC34	74MT3_BFAF	14900.00	74MT3_DFAF	14900.00	74MT3_OFAF	14900.00	74MT3_EFAF	15700.00		
263	75	100	200	—	—	149	3RW4446-6BC34	74NT3_BFAF	16400.00	74NT3_DFAF	16400.00	74NT3_OFAF	16400.00	74NT3_EFAF	17300.00		
326	100	125	250	—	—	186	3RW4447-6BC34	74PT3_BFAF	18000.00	74PT3_DFAF	18100.00	74PT3_OFAF	18000.00	74PT3_EFAF	18900.00		
494	150	150	400	—	—	298	3RW4453-6BC34	73QT_BFAF	73QT_DFAF	73QT_OFAF	73QT_EFAF	73QT_OFAF	73QT_EFAF	73QT_EFAF			
551	150	200	450	—	—	336	3RW4454-6BC34	73RT_BFAF	73RT_DFAF	73RT_OFAF	73RT_EFAF	73RT_OFAF	73RT_EFAF	73RT_EFAF			
615	200	200	500	—	—	373	3RW4455-6BC34	73ST_BFAF	73ST_DFAF	73ST_OFAF	73ST_EFAF	73ST_OFAF	73ST_EFAF	73ST_EFAF			
634	200	250	500	—	—	373	3RW4456-6BC34	73TT_BFAF	73TT_DFAF	73TT_OFAF	73TT_EFAF	73TT_OFAF	73TT_EFAF	73TT_EFAF			
650	200	250	550	—	—	373	3RW4457-6BC34	73WT_BFAF	73WT_DFAF	73WT_OFAF	73WT_EFAF	73WT_OFAF	73WT_EFAF	73WT_EFAF			
							200V	6	6	6	6	6	6	6			
							230V	2	2	2	2	2	2	2			
							380V	3	3	3	3	3	3	3			
							460V	4	4	4	4	4	4	4			
26	—	—	15	20	—	—	3RW4422-1BC35	74AT35BFAF	4800.00	74AT35DFAF	4800.00	74AT35OFAF	4800.00	74AT35EFAF	5100.00	74AT35WFAF	5800.00
32	—	—	20	25	—	—	3RW4423-1BC35	74BT35BFAF	5100.00	74BT35DFAF	5100.00	74BT35OFAF	5100.00	74BT35EFAF	5400.00	74BT35WFAF	6100.00
42	—	—	25	30	—	—	3RW4424-1BC35	74CT35BFAF	5500.00	74CT35DFAF	5500.00	74CT35OFAF	5500.00	74CT35EFAF	5800.00	74CT35WFAF	6500.00
51	—	—	30	40	—	—	3RW4425-1BC35	74DT35BFAF	5800.00	74DT35DFAF	5800.00	74DT35OFAF	5800.00	74DT35EFAF	6100.00	74DT35WFAF	7400.00
68	—	—	50	50	—	—	3RW4426-1BC35	74ET35BFAF	6200.00	74ET35DFAF	6100.00	74ET35OFAF	6100.00	74ET35EFAF	6500.00	74ET35WFAF	7700.00
82	—	—	60	75	—	—	3RW4427-1BC35	74FT35BFAF	6900.00	74FT35DFAF	6900.00	74FT35OFAF	6900.00	74FT35EFAF	7300.00	74FT35WFAF	8200.00
97	—	—	60	75	—	—	3RW4434-6BC35	74GT35BFAF	7400.00	74GT35DFAF	7400.00	74GT35OFAF	7400.00	74GT35EFAF	7800.00	74GT35WFAF	8700.00
113	—	—	75	100	—	—	3RW4435-6BC35	74HT35BFAF	8200.00	74HT35DFAF	8200.00	74HT35OFAF	8200.00	74HT35EFAF	8800.00	74HT35WFAF	11500.00
134	—	—	75	125	—	—	3RW4436-6BC35	74JT35BFAF	9600.00	74JT35DFAF	9600.00	74JT35OFAF	9600.00	74JT35EFAF	10100.00	74JT35WFAF	12500.00
175	—	—	100	150	—	—	3RW4443-6BC35	74KT35BFAF	11900.00	74KT35DFAF	11900.00	74KT35OFAF	11900.00	74KT35EFAF	12500.00		
195	—	—	125	200	—	—	3RW4444-6BC35	74LT35BFAF	12900.00	74LT35DFAF	12900.00	74LT35OFAF	12900.00	74LT35EFAF	13600.00		
243	—	—	150	200	—	—	3RW4445-6BC35	74MT35BFAF	16100.00	74MT35DFAF	16100.00	74MT35OFAF	16100.00	74MT35EFAF	17000.00		
263	—	—	200	250	—	—	3RW4446-6BC35	74NT35BFAF	17800.00	74NT35DFAF	17900.00	74NT35OFAF	17800.00	74NT35EFAF	18700.00		
326	—	—	250	300	—	—	3RW4447-6BC35	74PT35BFAF	19700.00	74PT35DFAF	19800.00	74PT35OFAF	19700.00	74PT35EFAF	20700.00		
494	—	—	400	500	—	—	3RW4453-6BC35	73QT35BFAF	73QT35DFAF	73QT35OFAF	73QT35EFAF	73QT35OFAF	73QT35EFAF	73QT35EFAF			
551	—	—	450	550	—	—	3RW4454-6BC35	73RT35BFAF	73RT35DFAF	73RT35OFAF	73RT35EFAF	73RT35OFAF	73RT35EFAF	73RT35EFAF			
615	—	—	500	600	—	—	3RW4455-6BC35	73ST35BFAF	73ST35DFAF	73ST35OFAF	73ST35EFAF	73ST35OFAF	73ST35EFAF	73ST35EFAF			
693	—	—	550	650	—	—	3RW4456-6BC35	73TT35BFAF	73TT35DFAF	73TT35OFAF	73TT35EFAF	73TT35OFAF	73TT35EFAF	73TT35EFAF			
780	—	—	600	700	—	—	3RW4457-6BC35	73WT35BFAF	73WT35DFAF	73WT35OFAF	73WT35EFAF	73WT35OFAF	73WT35EFAF	73WT35EFAF			

① Starter size is dependent on the nameplate Full Load Amps (FLA) rating of the motor.
HPs are for reference only. Enclosed ratings are at 40°C.

② Starter selection is dependent on type of application. Ie = FLA rating of motor.

Control Products

Factory Modifications

Selection

Modification Available modifications in STANDARD enclosure	3RW Version	Enclosed Style	Enclosure NEMA Type	Mod Suffix	List Price Adder \$
Pilot Devices					
Push Buttons					
Start/Stop	3RW40/44	73/74	ALL	A1	260.
Selector Switches					
Hand-Off-Auto	3RW40/44	73/74	ALL	A3	260.
Hand-Off-Auto (keyed)	3RW40/44	73/74	ALL	S3	390.
Off-On	3RW40/44	73/74	ALL	A4	260.
Pilot Light					
Red 'On'	3RW40/44	73/74	ALL	FA	250.
Green 'On'	3RW40/44	73/74	ALL	FB	250.
Red 'Run'	3RW40/44	73/74	ALL	FC	250.
Green 'Run'	3RW40/44	73/74	ALL	FD	250.
Red 'Off'	3RW40/44	73/74	ALL	FJ	250.
Green 'Off'	3RW40/44	73/74	ALL	FK	250.
Amber 'Fault'	3RW40/44	73/74	ALL	FL	250.
White 'Control Power On'	3RW40/44	73/74	ALL	FW	250.
Red 'On' Push-to-Test	3RW40/44	73/74	ALL	FS	360.
Green 'On' Push-to-Test	3RW40/44	73/74	ALL	FT	360.
Green 'Off' Push-to-Test	3RW40/44	73/74	ALL	FU	360.
Custom pilot light (state color and nameplate text)	3RW40/44	73/74	ALL	FZ	300.
Through the Door Metering					
External keypad for 3RW44	3RW44	73/74	N1, N12	K1	1100.
Elapse time meter	3RW40/44		N1, N12 (120V)	M5	300.
Control Options					
Profibus Communication Module (installed-connection cable not supplied)	3RW44	73/74	ALL	P1	1000.
Ground Lug - 1 Conductor	3RW40/44	73/74	ALL	L10	100.
Alarm Package - Includes horn, light, relay & push button	3RW40/44	73/74	N1, N3, N12	M7	500.
Electronic 8 function timing relay (.05s - 100h) supplied mounted and unwired	3RW40/44	73/74	ALL	TR	400.
Control Relay supplied mounted and unwired (4-pole max)	3RW40/44	73/74	ALL	R04	300.
				R22	300.
				R40	300.
Circuit Breaker Shunt Trip (included std in 3RW40 versions)	3RW44	74	ALL	L6	500.
Service Entrance Labeled	3RW40/44	74	ALL	N3	100.
Function identification plate, with marking as specified	3RW40/44	73/74	ALL	N1	100.
Terminal Block 3 point	3RW40/44	73/74	ALL	TC3	150.
Terminal Block 6 point	3RW40/44	73/74	ALL	TC6	150.
Terminal Block 9 point	3RW40/44	73/74	ALL	TC9	150.
Terminal Block 12 point	3RW40/44	73/74	ALL	TC12	150.

Options Requiring the Modified Options Box Size

Modification MODIFIED BOX ADDER (change 8th character to a 'G')	3RW Version	Enclosed Style	Enclosed NEMA Type	Mod Suffix	List Price Adder \$					
	3RW40				117 – 285 A – D	315 E	385 F			
		73	N1/12/3R/4		800.	800.	0			
			N4SS		2600.	2600.	500.			
		74	N1/12/3R/4		800.	0	0			
			N4SS		2600. ^①	—	—			
	3RW44				26 – 51 A – D	68 E	82 – 117 F – H	145 – 215 J – L	280 – 385 M – P	
		73	N1/12/3R/4		300.	1000.	1000.	1000.	0	
			N4SS		900.	3400.	2600.	2500.	0	
		74	N1/12/3R/4		1100.	1000.	800.	500.	0	
			N4SS		3000.	2600.	2500.	600. ^①	—	

Mod Box Options

	3RW40 current size (3rd character)						117 A	145 – 205 B, C	248 D	315 – 385 E, F
	3RW44 current size (3rd character)				26 – 42 A, B, C	51 – 68 D, E	82 – 117 F, G, H	145 – 215 J, K, L	280 M	315 – 385 N, P

Contactor Options

Isolation contactor	3RW40/44	73/74	N1/12/3R/4	IC	700.	1200.	1700.	1800.	2600.	4300.
Emergency HP Rated Bypass Starter	3RW40 ^②	73/74	N1/12/3R/4	A12			3500.	5000.	6600.	10000.
*Includes keyed selector switch to select between soft start and across the line start	3RW44	73/74	N1/12/3R/4	A12	1300.	1600.	1900.	3200.	4100.	5800.

Extra Capacity CPT

100 VA Extra	3RW40/44	73/74	ALL	CA	600.	600.	600.	600.	600.	600.
--------------	----------	-------	-----	----	------	------	------	------	------	------

Control Options

Space Heater (120V separate control)	3RW40/44	73/74	ALL	SH	300.					
Space Heater with Thermostat (120V separate control)	3RW40/44	73/74	ALL	ST	500.					
Lightning Arrestor	3RW40/44	73/74	ALL	L	600.					

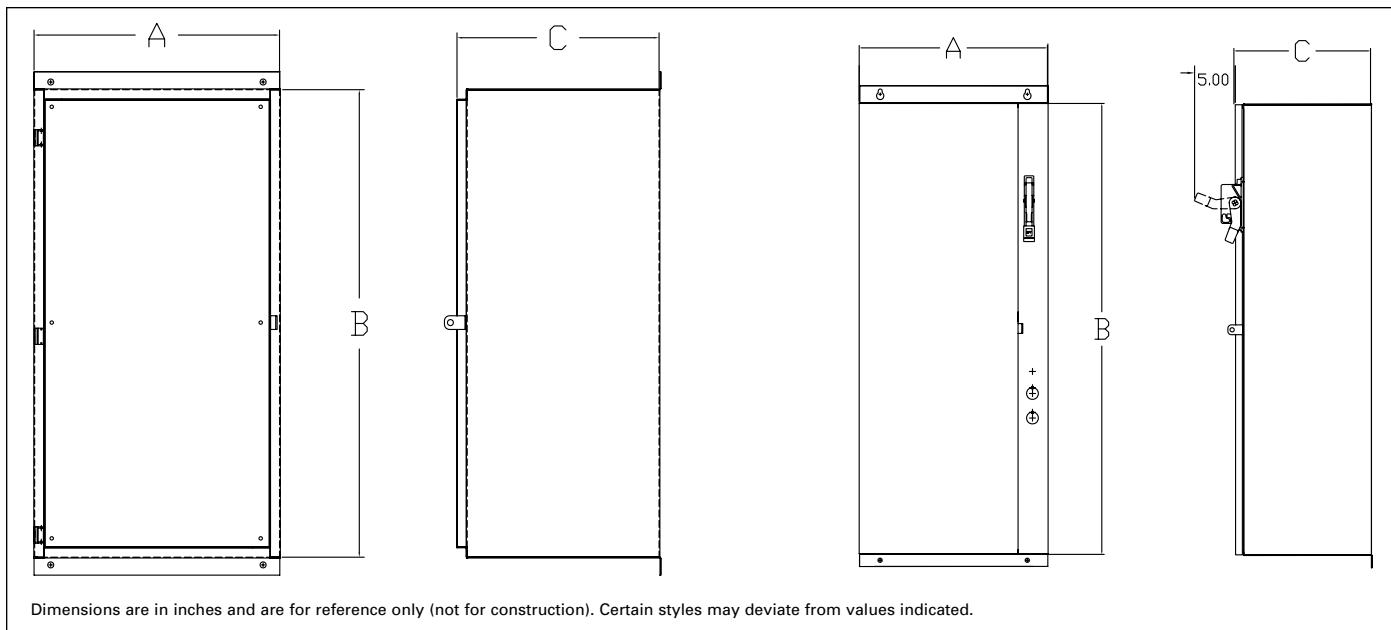
^① Limited to N4SS offering.

^② An isolation contactor is included for 3RW40.

Control Products

Class 73, 74

Dimensions



Non-Combination Class 73

N1, N12, N4 Standard Enclosure

	Amps	A	B	C
3RW40	117-145	36	18	15
	205-315	36	22	20
	385	54	36	20
3RW44	26-68	26	12.5	15
	82-117	36	18	15
	145-215	36	22	20
	280-385	54	36	20

N4 Stainless Steel Standard Enclosure

	Amps	A	B	C
3RW40	117	36	18	15
	145-205	36	22	20
	248-385	54	36	20
3RW44	26-51	26	12.5	15
	68-82	36	18	15
	100-117	36	22	20
	145-385	54	36	20

N1, N12, N4 Modified Enclosure

	Amps	A	B	C
3RW40	117-385	56	36	20
3RW44	26-51	36	22	20

N4 Stainless Steel Modified Enclosure

	Amps	A	B	C
3RW40	117-385	54	36	20
3RW44	26-51	36	22	20

Combination Type Class 74

N1, N12, N4 Standard Enclosure

	Amps	A	B	C
3RW40	117-145	50	25	20
	145-205	66	25	20
	248-315	90	30	20
	385	90	40	20
3RW44	26-68	36	23	15
	82-117	50	25	20
	145-215	66	25	20
	280	90	30	20

N4 Stainless Steel Standard Enclosure

	Amps	A	B	C
3RW40	117-145	54	36	20
	205-300	90	40	20
	26-42	36	23	15
	51-100	50	25	20
3RW44	117-145	54	36	20
	180-385	90	40	20

N1, N12, N4 Modified Enclosure

	Amps	A	B	C
3RW40	117-248	76	30	20
	315	90	30	20
	385	90	40	20
3RW44	26-215	76	30	20
	280	90	30	20
	315-385	90	40	20

N4 Stainless Steel Modified Enclosure

	Amps	A	B	C
3RW40	117-145	76	30	20
3RW44	26-145	76	30	20

Control Products

Class 73, 74

Wiring Diagrams

