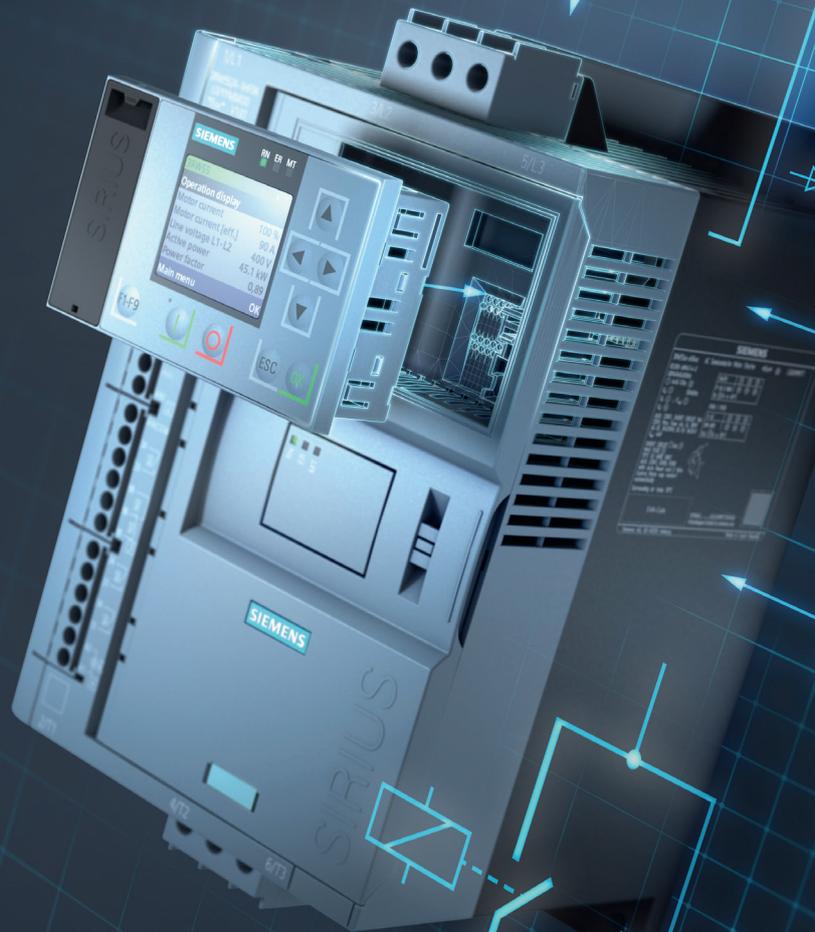


**SIEMENS**

*Ingenuity for life*



# SIRIUS Hybrid

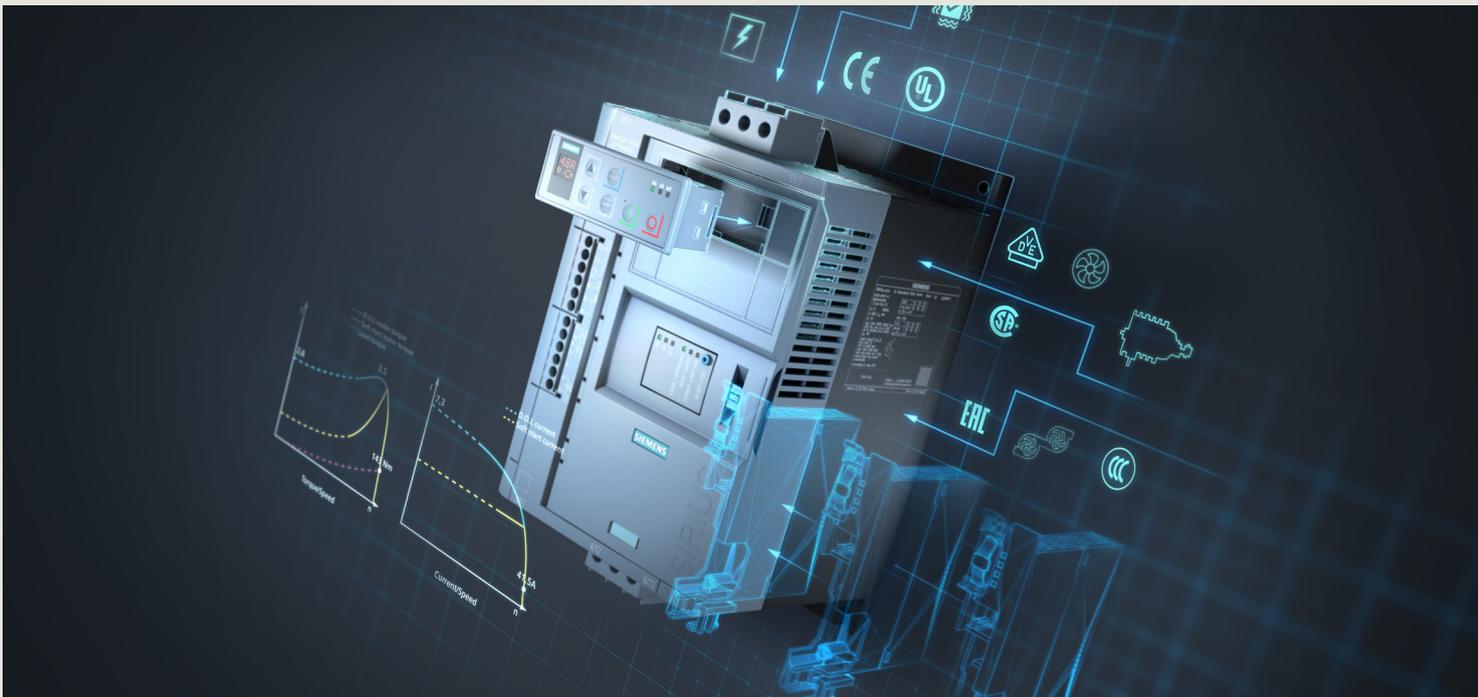
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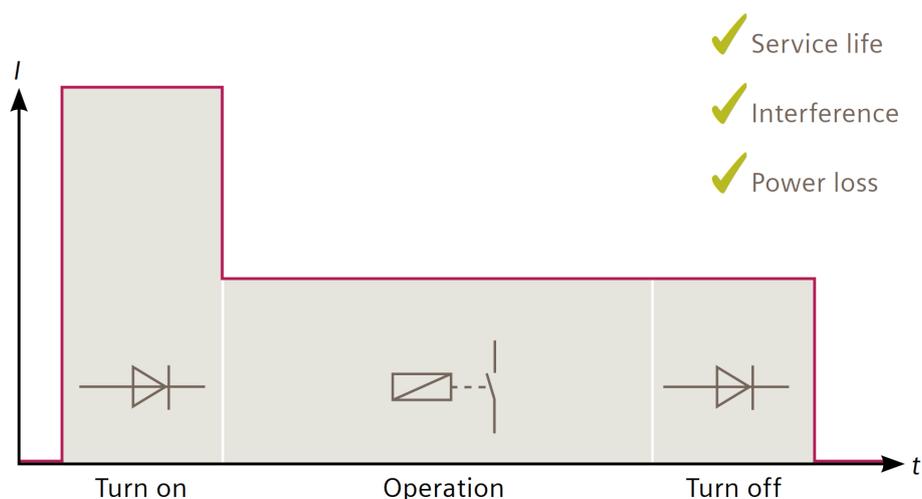


SIRIUS soft starters are the best solution when direct or star-delta starting doesn't apply to three-phase motors, because problems can often arise due to mechanical impact in the machine or voltage drops in the line supply. Our range of soft starters with intelligent functions offers a soft alternative for almost any application, from simple to sophisticated drive requirements such as heavy-duty starting. They enable you to start three-phase motors smoothly, easily, and efficiently and implement reliable machine concepts.

## Brief description

- Two phase or three phase control
- Inline circuit or inside-delta circuit connection
- Hybrid switching technology
- Operating power from 3Kw up to 1200Kw
- Integration in the automation system via communication interfaces
- Ramp up times from 1 to 360 seconds
- Wide variations on the operational voltages from 200 to 600V
- Configuration via Soft Starter ES in TIA Portal
- Enclosure with removable terminals, space-saving with a compact design and rugged, coated with printed circuit boards
- Can be used worldwide with certificates and approvals, IEC, UL, CSA, CCC
- Support from tools and data during engineering
- Simulation Tool for Soft Starters for support during product selection

# Hybrid Switching



## SIRIUS 3RW Soft Starters - Technical Data

Sirius Softstarter	3RW55	3RW44	3RW52	3RW40	3RW30
Operational Current at 40°C (A)	13..987	29..1214	13..987	12.5..432	3..106
Operational voltage (V)	200..690 (1)	200..690 (1)	200..600	200..600	200..480
Operational power for three phase motors					
At 400V at 40°C Inline circuit (Kw)	5.5..315	15..710	5.5..315	5.5..250	1.5..55
At 400V at 40°C Inside-delta circuit (Kw)	11..560	22..1200	11..560	-	-
Ambient temperature (°C) (2)	25..60	0..60	25..60	25..60	25..60
Soft starting/ramp down	■	■	■	■	■ (3)
Voltage ramp (%)	■	■	■	■	■
Starting voltage (s)	20..100	20..100	30..100	40..100	40..100
Ramp up and ramp down	0..360	0..360	0..20	0..20	0..20 (3)
Pump stop torque control (4)	■	■	-	-	-
Starting torque (%)	10..100	20..100	-	-	-
Torque limit (%)	20..200	20..200	-	-	-
Soft torque limit	-	-	■	-	-

■ Function available

- Function not available

1) Inside-delta circuit only up to line voltage 600 V.

2) Note derating above 40 °C.

3) Only soft starting available for 3RW30.

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

5) When using the motor overload protection according to ATEX, an upstream contactor is required.

6) Special device versions only.

7) Not possible in inside-delta circuit.

8) With software Soft Starter ES (TIA Portal)

9) Only in conjunction with special accessories.

# SIRIUS 3RW Soft Starters

As versatile as your applications

Sirius Softstarter	3RW55	3RW44	3RW52	3RW40	3RW30
Normal starting (CLASS 10)	■	■	■	■	■
Pumps	■	■	□		
Pumps with special stop (preventing water hammer)	■	■	■	■	■
Heat pumps	■	■	■	■	□
Hydraulic pump	■	■	■	■	□
Presses	■	■	■	■	□
Conveyor belt	■	■	■	■	□
Roller conveyor	■	■	■	■	□
Screw conveyor	■	■	■	■	□
Escalators	■	■	■	■	□
Piston compressor	■	■	■	■	
Screw compressor	■	■	■	■	
Small fan (1)	■	■	■	■	
Centrifugal blower	■	■	■	■	
Bow thruster	■	■	■	■	
Heavy starting (CLASS 20)					
Stirrer	■	■	□	□	
Extruder	■	■	□	□	
Lathe	■	■	□	□	
Milling machine	■	■	□	□	
Very heavy starting (CLASS 30)					
Large fan (2)	■	■			
Circular saw/band saw	■	■			
Centrifuge	■	■			
Milling machine	■	■			
Crusher	■	■			

■ Recommended soft starter

□ Possible soft starter

1) The mass inertia of the fan is <10 times the mass inertia of the motor.

2) The mass inertia of the fan is ≥10 times the mass inertia of the motor.

# SIRIUS 3RW Soft Starters

## Feature Data

Sirius Softstarter	3RW55	3RW44	3RW52	3RW40	3RW30
Integral bypass contact system	■	■	■	■	■
Intrinsic device protection	■	■	■	■	-
Motor overload protection	■	■	■	■(5)	-
Thermistor motor protection evaluation	■	■	■(6)	■(6)	-
Analog output	■	■	■(6)	-	-
Remote reset	■	■	■	■(6)	-
Adjustable current limiting	■	■	■	■	-
Inside delta circuit (1)	■	■	■	-	-
Breakaway pulse	■	■	-	-	-
Automatic parameterization	■	■	-	-	-
Pump cleaning	■	■	-	-	-
Reversing duty	■	■	-	-	-
Condition monitoring	■	■	-	-	-
User account administration (8)	■	■	-	-	-
Creep speed in both directions of rotation	■	■	-	-	-
DC breaking (4) (7)	■	■	-	-	-
Combined breaking (4) (7)	■	■	-	-	-
Motor heating	■	■	-	-	-
Communication function (9)	■	■	■	-	-
HMI module installable in the cabinet door	■	■(9)	■(9)	-	-
Operating measured value display	■	■	■(9)	-	-
Logbooks	■	■(8)	■(9)	-	-
Event list	■	■	-	-	-
Slave pointer function	■	■	-	-	-
Trace function (8)	■	■	-	-	-
Programmable control inputs and outputs	■	■	-	-	-
Number of parameter sets	3	3	1	1	1
Parameterized via software (8)	■	■	-	-	-
Number of controlled phases	3	3	3	2	2
Heavy starting Class 30 (4)	■	■	-	-	-

■ Function available

- Function not available

1) Inside-delta circuit only up to line voltage 600 V.

2) Note derating above 40 °C.

3) Only soft starting available for 3RW30.

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

5) When using the motor overload protection according to ATEX, an upstream contactor is required.

6) Special device versions only.

7) Not possible in inside-delta circuit.

8) With software Soft Starter ES (TIA Portal)

9) Only in conjunction with special accessories.

## What are the benefits?

Product Characteristics / function	Performance features / benefits
Small compact design	Space saving, clearly arranged control panel layout
Parameterization using potentiometers	Simple and fast commissioning
Integrated bypass contact system	Reduction of power loss during operation
Polarity balancing control method	Avoidance of direct current components in two phase controlled softstarters

## SIRIUS 3RW30 - Part numbers and pricing

Basic range 3RW30, 2 phase control, rated operational voltage 200 ... 480 V, inline circuit

	Size	Part Number	Operational current I <sub>e</sub> [A]	Rating at operational voltage at 400V [Kw]	Price
	S0	3RW3013-*BB*4	3.6	1.5	105.93
		3RW3014-*BB*4	6.5	3	119.90
		3RW3016-*BB*4	9	4	132.21
		3RW3017-*BB*4	12.5	5.5	149.46
		3RW3018-*BB*4	17.6	7.5	170.81
	S2	3RW3026-*BB*4	25	11	199.55
		3RW3027-*BB*4	32	15	232.40
		3RW3028-*BB*4	38	18.5	287.42
		3RW3036-*BB*4	45	22	353.94
		3RW3037-*BB*4	63	30	430.31
		3RW3038-*BB*4	72	37	509.14
	S3	3RW3046-*BB*4	80	45	585.52
		3RW3047-*BB*4	106	55	653.58

With screw terminal 1 or with cage clamp 2  
 With 24V AC/DC 0 or with 110..230V AC/DC 1

# SIRIUS 3RW40

## What are the benefits?

Product Characteristics / function	Performance features / benefits
Small compact design	Space saving, clearly arranged control panel layout
Motor overload and intrinsic device protection without additional wiring	Adjustable trip classes, integrated diagnostic functions
Integrated bypass contact system	Reduction of power loss during operation
Certified according to ATEX Directive 94/9/ec	Suitable for the starting of explosion proof motors with increased safety type of protection Eex e
Optional thermistor motor protection up to a rating of 55kW	Full motor protection

## SIRIUS 3RW40 - Part numbers and pricing

Basic range 3RW40, 2 phase control, rated operational voltage 200 ... 480 V, inline circuit

	Size	Part Number	Operational current I <sub>e</sub> [A]	Rating at operational voltage at 400V [Kw]	Price
	S0	3RW4024-*BB*4	12.5	5.5	221.72
		3RW4026-*BB*4	25	11	261.14
		3RW4027-*BB*4	32	15	310.41
		3RW4028-*BB*4	38	18.5	372.00
	S2	3RW4036-*BB*4	45	22	442.63
		3RW4037-*BB*4	63	30	525.57
		3RW4038-*BB*4	72	37	610.15
	S3	3RW4046-*BB*4	80	45	686.52
		3RW4047-*BB*4	106	55	748.93

With screw terminal 1 or with cage clamp 2  
With 24V AC/DC 0 or with 110..230V AC/DC 1

Basic range 3RW40, 2 phase control, rated operational voltage 200 ... 460 V, inline circuit

	Size	Part Number	Operational current I <sub>e</sub> [A]	Rating at operational voltage at 400V [Kw]	Price
	S6	3RW4055-*BB*4	134	75	793.28
		3RW4056-*BB*4	162	90	993.65
	S12	3RW4073-*BB*4	230	132	1100.41
		3RW4074-*BB*4	280	160	1240.01
		3RW4075-*BB*4	356	200	1453.52
		3RW4076-*BB*4	432	250	1921.61

With screw terminal 2 or with cage clamp 6  
With 115 V AC 3 or with 230V AC 4

## What are the benefits?

Product Characteristics / function	Performance features / benefits
Hybrid switching devices and three phase motor control	Minimum power loss optimum/symmetrical motor control
TIA integration - communication modules and HMI modules optional	Efficient configuration and maximum flexibility in automation engineering
Soft torque	Reduced mechanical loading and optimum pump stop
Parameterization using potentiometers	Simple and fast commissioning
Wide range for control supply and main voltage	Low variance, high system availability even with weak supply networks

## SIRIUS 3RW52 - Part numbers and pricing

General range 3RW52, 3 phase control, rated operational voltage 200 ... 480 V, inline circuit or inside-delta circuit

	Size	Part Number	Operational current I <sub>e</sub> [A]	Rating at operational voltage at 400V [Kw]	Price
	S00	3RW5213-**-C*4	13 / 22.5	5.5 / 11	435.00
		3RW5214-**-C*4	18 / 31.5	7.5 / 15	480.00
		3RW5215-**-C*4	25 / 43.3	11 / 18.5	532.50
		3RW5216-**-C*4	32 / 55.4	15 / 22	592.50
		3RW5217-**-C*4	38 / 65.8	18.5 / 30	660.00
	S0	3RW5224-**-C*4	47 / 81.4	22 / 45	750.00
		3RW5225-**-C*4	63 / 109	30 / 55	840.00
		3RW5226-**-C*4	77 / 133	37 / 75	922.50
		3RW5227-**-C*4	93 / 161	45 / 90	1,012.50

With screw terminal 1 or with cage clamp 3

With Analog output A or with Thermistor motor protection T

With 24V AC/DC 0 or with 110..230V AC/DC 1

	Size	Part Number	Operational current I <sub>e</sub> [A]	Rating at operational voltage at 400V [Kw]	Price
	S2	3RW5234-**-C*4	113 / 196	55 / 110	1,147.50
		3RW5235-**-C*4	143 / 248	75 / 132	1,365.00
		3RW5236-**-C*4	171 / 296	90 / 160	1,582.50
	S3	3RW5243-**-C*4	210 / 364	110 / 200	1,845.00
		3RW5244-**-C*4	250 / 433	132 / 250	2,152.50
		3RW5245-**-C*4	315 / 546	160 / 315	2,550.00
		3RW5246-**-C*4	370 / 641	200 / 355	2,985.00
		3RW5247-**-C*4	470 / 814	250 / 400	3,510.00
		3RW5248-**-C*4	570 / 987	315 / 560	3,952.50

With screw terminal 2 or with cage clamp 6

With Analog output A or with Thermistor motor protection T

With 24V AC/DC 0 or with 110..230V AC/DC 1

# SIRIUS 3RW55

## What are the benefits?

Product Characteristics / function	Performance features / benefits
Automatic parameterization	Extremely easy commissioning and reliability even under changing load conditions
Hybrid switching devices and three phase motor control	Minimum power loss optimum/symmetrical motor control
Integration into TIA portal - communication modules optional	Efficient configuration and maximum flexibility in automation engineering
Detachable HMI with color display, local interface. Slot for micro SD card	Maximum flexibility with regard to user interface and intuitive menu guidance
Pump stop and torque control	Reduced mechanical loading and optimum pump stop control

## SIRIUS 3RW55 - Part numbers and pricing

High feature range 3RW55, 3 phase control, rated operational voltage 200 ... 480 V, inline circuit or inside-delta circuit

	Size	Part Number	Operational current I <sub>e</sub> [A]	Rating at operational voltage at 400V [Kw]	Price
	S00	3RW5513-*HA*4	13 / 22.5	5.5 / 11	660.00
		3RW5514-*HA*4	18 / 31.2	7.5 / 15	735.00
		3RW5515-*HA*4	25 / 43.3	11 / 18.5	817.50
		3RW5516-*HA*4	32 / 55.4	15 / 22	907.50
		3RW5517-*HA*4	38 / 65.8	18.5 / 30	1,012.50
	S0	3RW5524-*HA*4	47 / 81.4	22 / 45	1,147.50
		3RW5525-*HA*4	63 / 109	30 / 55	1,282.50
		3RW5526-*HA*4	77 / 133	37 / 75	1,417.50
		3RW5527-*HA*4	93 / 161	45 / 90	1,552.50

With screw terminal 1 or with cage clamp 3  
With 24V AC/DC 0 or with 110...230V AC/DC 1

	Size	Part Number	Operational current I <sub>e</sub> [A]	Rating at operational voltage at 400V [Kw]	Price
	S2	3RW5534-*HA*4	113 / 196	55 / 110	1,755.00
		3RW5535-*HA*4	143 / 248	75 / 132	2,092.50
		3RW5536-*HA*4	171 / 296	90 / 160	2,430.00
	S3	3RW5543-*HA*4	210 / 364	110 / 200	2,835.00
		3RW5544-*HA*4	250 / 433	132 / 250	3,307.50
		3RW5545-*HA*4	315 / 546	160 / 315	3,915.00
		3RW5546-*HA*4	370 / 641	200 / 355	4,590.00
		3RW5547-*HA*4	470 / 814	250 / 400	5,400.00
		3RW5548-*HA*4	570 / 987	315 / 560	6,075.00

With screw terminal 2 or with cage clamp 6  
With 24V AC/DC 0 or with 110...230V AC/DC 1

## Communications Modules

	Description	Part Number	Price
	Communication module PROFIBUS (3RW52/3RW55)	3RW5980-0CP00	192.75
	Communication module PROFINET standard (3RW52/3RW55)	3RW5980-0CS00	192.75
	Communication module Modbus TCP (3RW52/3RW55)	3RW5980-0CT00	192.75

## Accessories

	Description	Part Number	Price
	HMI module High-Feature (3RW52/3RW55)	3RW5980-0HF00	195.00
	Interface cover for HMI module High-Feature (3RW52/3RW55)	3RW5980-0HL00	3.68
	HMI module Standard (3RW52)	3RW5980-0HS00	67.50
	Door mounting kit IP65 (3RW52/3RW55)	3RW5980-0HD00	22.50
	HMI connecting cable 5 m for door mounting (3RW52/3RW55)	3RW5980-0HC60	36.00

# SIRIUS 3RW44

## What are the benefits?

Product Characteristics / function	Performance features / benefits
Soft starting with breakaway pulse, torque control or adjustable current limiting	Optimum adaptation to the requirements of the application
Keypad with a menu prompted, multi lone graphic display with background lighting	Simple and fast commissioning and maintenance
Various setting options for the starting parameters such as starting torque, starting voltage and ramp down time and much more in three separate parameter sets	Efficient configuration and maximum flexibility in automation engineering
Integrated bypass contact system	Reduction of power loss during operation
Communication interface to the PC	More accurate setting of the parameters as well as control and monitoring
Connection to PROFIBUS and PROFINET with optional module	Simple integration into higher level controls

## SIRIUS 3RW44 - Part numbers and pricing

High feature range 3RW44, 3 phase control, rated operational voltage 200 ... 480 V, inline circuit or inside-delta circuit

	Part Number	Operational current I <sub>e</sub> [A]	Rating at operational voltage at 400V [Kw]	Price
	3RW4422-*BC*4	29 / 50	15 / 22	1018.29
	3RW4423-*BC*4	36 / 62	18.5 / 30	1149.68
	3RW4424-*BC*4	47 / 81	22 / 45	1322.13
	3RW4425-*BC*4	57 / 99	30 / 55	1461.74
	3RW4426-*BC*4	77 / 133	37 / 75	1601.34
	3RW4427-*BC*4	93 / 161	45 / 90	1765.58

With screw terminal 1 or with cage clamp 3  
With 115V AC 3 or with 230V AC 4

	Part Number	Operational current I <sub>e</sub> [A]	Rating at operational voltage at 400V [Kw]	Price
	3RW4434-*BC*4	113 / 196	55 / 110	1962.67
	3RW4435-*BC*4	134 / 232	75 / 132	2332.21
	3RW4436-*BC*4	162 / 281	90 / 160	2816.72
	3RW4443-*BC*4	203 / 352	110 / 200	3210.89
	3RW4444-*BC*4	250 / 433	132 / 250	3670.76
	3RW4445-*BC*4	313 / 542	160 / 315	4459.12
	3RW4446-*BC*4	356 / 617	200 / 355	5214.62
	3RW4447-*BC*4	432 / 748	250 / 400	6126.15
	3RW4453-*BC*4	551 / 954	315 / 560	7185.50
	3RW4454-*BC*4	615 / 1065	355 / 630	8376.24
	3RW4455-*BC*4	693 / 1200	400 / 710	9443.80
	3RW4456-*BC*4	780 / 1352	450 / 800	10182.88
	3RW4457-*BC*4	880 / 1524	500 / 900	11004.08
	3RW4458-*BC*4	970 / 1680	560 / 1000	11907.40
	3RW4465-*BC*4	1076 / 1864	630 / 1100	12728.60
	3RW4466-*BC*4	1214 / 2103	710 / 1200	13960.40

With screw terminal 2 or with cage clamp 6  
With 115V AC 3 or with 230V AC 4

# SIRIUS 3RM1 motor starters



Space-saving systems require maximum efficiency and can pose significant challenges for system engineers. Systems and machinery are becoming increasingly compact and are expected to have smaller footprints, but at the same time they typically require more auxiliary drives. Because every inch counts in a control cabinet, SIRIUS 3RM1 Motor Starters are precisely tailored to meet these requirements and represent the solution for the development of cutting-edge and future-oriented systems.

## Brief description

- Width: 22.5 mm
- Direct-on-line or reversing starter
- Hybrid switching technology
- With or without Safety-related shutdown (SIL 3 / PLe Cat4) utilizing a Safety relay SIRIUS 3SK1/2 or another failsafe processing unit (e.g. F-CPU)
- Built in motor overload protection (failsafe units ATEX SIL 2)
- Overload trip class: Class 10 A
- Single or grouped configuration possible
- Short-circuit current rating with circuit breakers / fuses up to 55 kA
- 22,5 mm wide load feeder with an optional fuse module
- 3 versions up to 7 A (0.1 to 0.5 A; 0.4 to 2 A; 1.6 to 7 A)
- Rated operating voltage: 500 V
- Control supply voltage: 24 V DC or 110 to 230 V AC 50/60 Hz, 110 V DC

# SIRIUS 3RM1 motor starters

What are the benefits?

## Compact

- > **Narrow width**
- > **Multifunctionality**
  - Direct and reversing starters
  - Overload protection
  - Safe shutdown

## Economical

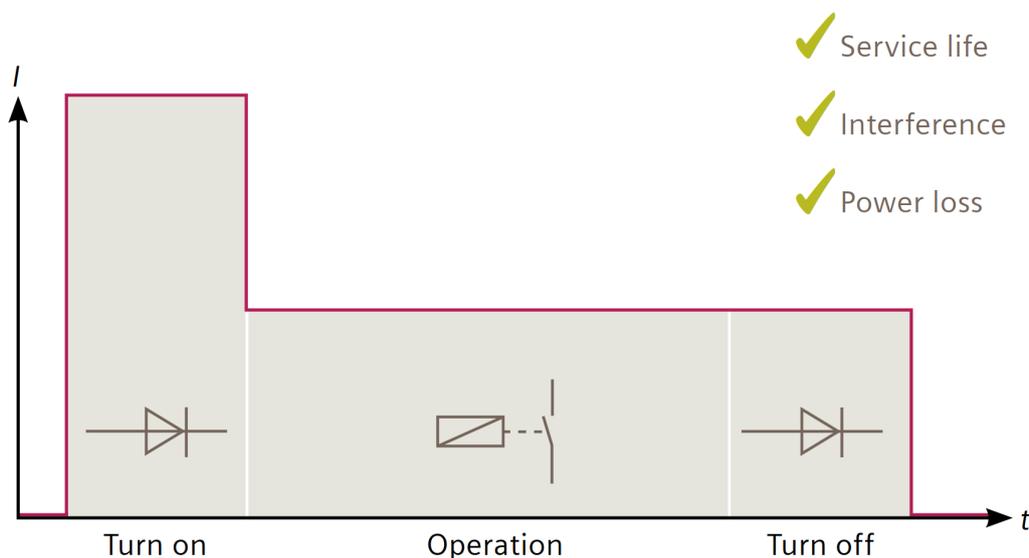
- > **Durable and energy-efficient hybrid switching technology**
- > **Low device variance through wide adjustment range**



## Simple

- > **Less wiring**
  - in control circuit thanks to device connectors
  - in main circuit with the infeed system
- > **Fast diagnostics**

## Hybrid Switching



Switching on - The inrush current in the case of motorized loads is conducted briefly via the semiconductors. The relay contacts are protected. Longer service life is achieved thanks to reduced wear and tear.

Current conducting- The continuous current is conducted via relay contacts. Relay contacts cause less thermal losses than semiconductors.

Switch off – This is implemented again via the semiconductor. The contacts are only slightly burdened by arcs. This results in increased service life.

# SIRIUS 3RM1 motor starters

What are the benefits?

	Size	Part Number		Operational current I <sub>e</sub> [A]	Rating at operational voltage at 400V [Kw]	Price
	Direct-on-line starters	3RM1001-*AA04	0.12	0.1 ... 0.5	24 V DC	125.93
		3RM1002-*AA04	0.75	0.4 ... 2	24 V DC	125.93
		3RM1007-*AA04	3	1.6 ... 7	24 V DC	125.93
		3RM1001-*AA14	0.12	0.1 ... 0.5	110 ... 230 V AC; 110 V DC	125.93
		3RM1002-*AA14	0.75	0.4 ... 2	110 ... 230 V AC; 110 V DC	125.93
		3RM1007-*AA14	3	1.6 ... 7	110 ... 230 V AC; 110 V DC	125.93
	Reversing starters	3RM1201-*AA04	0.12	0.1 ... 0.5	24 V DC	137.86
		3RM1202-*AA04	0.75	0.4 ... 2	24 V DC	137.86
		3RM1207-*AA04	3	1.6 ... 7	24 V DC	137.86
		3RM1201-*AA14	0.12	0.1 ... 0.5	110 ... 230 V AC; 110 V DC	137.86
		3RM1202-*AA14	0.75	0.4 ... 2	110 ... 230 V AC; 110 V DC	137.86
		3RM1207-*AA14	3	1.6 ... 7	110 ... 230 V AC; 110 V DC	137.86
	Failsafe direct-on-line starters	3RM1101-*AA04	0.12	0.1 ... 0.5	24 V DC	146.48
		3RM1102-*AA04	0.75	0.4 ... 2	24 V DC	146.48
		3RM1107-*AA04	3	1.6 ... 7	24 V DC	146.48
		3RM1101-*AA14	0.12	0.1 ... 0.5	110 ... 230 V AC; 110 V DC	146.48
		3RM1102-*AA14	0.75	0.4 ... 2	110 ... 230 V AC; 110 V DC	146.48
		3RM1107-*AA14	3	1.6 ... 7	110 ... 230 V AC; 110 V DC	146.48
	Failsafe reversing starters	3RM1301-*AA04	0.12	0.1 ... 0.5	24 V DC	157.75
		3RM1302-*AA04	0.75	0.4 ... 2	24 V DC	157.75
		3RM1307-*AA04	3	1.6 ... 7	24 V DC	157.75
		3RM1301-*AA14	0.12	0.1 ... 0.5	110 ... 230 V AC; 110 V DC	157.75
		3RM1302-*AA14	0.75	0.4 ... 2	110 ... 230 V AC; 110 V DC	157.75
		3RM1307-*AA14	3	1.6 ... 7	110 ... 230 V AC; 110 V DC	157.75

- 1 Screw terminals for main circuit, screw terminals for control circuit
- 2 Spring type terminals for main circuit, spring type terminals for control circuit
- 3 Screw terminals for main circuit, spring type terminals for control circuit

Three-phase in feed system for the 3RM1 with screw terminals

	Description	Part Number	Price
	3-phase bus bar for two 3RM1 motor starters	3RM1910-1AA	6.32
	3-phase bus bar for three 3RM1 motor starters	3RM1910-1BA	7.91
	3-phase bus bar for five 3RM1 motor starters	3RM1910-1DA	10.37
	3-phase in feed terminal	3RM1920-1AA	7.09
	Cover caps for terminal lugs of the 3-phase bus bar	3RM1910-6AA	1.16

# SIRIUS 3RM1 motor starters

## Device connectors (24V DC control only)

	Description	Part Number	Price
	Device connectors	3ZY1212-2EA00	9.71
	Device daisy chain connector (For gaps without motor starters)	3ZY1212-2AB00	8.94
	Device termination connector	3ZY1212-2FA00	10.43

## Removable terminals

	Description	Part Number	Price
	<b>Control circuit terminals</b>		
	Detachable terminal, 3-pole, screw terminals up to 1x2.5 mm <sup>2</sup>	3ZY1131-1BA00	3.23
	Detachable 3-pole terminal, push-in terminals up to 2x1.5 mm <sup>2</sup>	3ZY1131-2BA00	3.23
	<b>Main current terminals</b>		
	Detachable 2-pole terminal, screw terminals up to 1x4 mm <sup>2</sup>	3ZY1122-1BA00	2.98
	Detachable 2-pole terminal, push-in terminals up to 1x4 mm <sup>2</sup> or 2x1.5 mm <sup>2</sup>	3ZY1122-2BA00	2.98

## Fuse module and adapters

	Description	Part Number	Price
	Fuse module with 20 A gG fuse 3NW6007-1	3RM1932-1AB	64.31
	Fuse module without fuse	3RM1930-1AA	47.54
	Bus bar adapter for bus bar system	8US1216-0AS00	18.16
	Bus bar adapter for compact bus bar system	8US1616-0AK02	17.57
	Adapter for standard mounting rails	8US1716-0RK00	24.63

## Further accessories

	Description	Part Number	Price
	SIRIUS push-in lugs for wall mounting	3ZY1311-0AA00	0.60
	SIRIUS sealable cover 22.5 mm, cutout for pushbuttons at bottom	3ZY1321-2AA00	1.79
	Coding pins for removable terminals	3ZY1440-1AA00	0.24



The SIMATIC ET 200SP motor starter with its safety and standard function now completes the distributed I/O system. It features impressive outputs of up to 5.5 kW and a compact width of just 30 mm. Not only do you save space in the control cabinet, you also benefit from the starter's versatility when monitoring your plant.

## Brief description

- Width: 30 mm
- Direct-on-line or reversing starter (for use with IE3/4 motors only)
- Hybrid switching technology
- With or without Safety-related shutdown (SIL 3 / PLe Cat4) utilizing a Safety relay SIRIUS 3SK1/2 or another failsafe processing unit (e.g. F-CPU)
- Overload protection of motors in hazardous areas and integrated short-circuit protection
- Single or grouped configuration possible
- 4 versions up to 7 A (0.3 to 1 A; 0.9 to 3 A; 2.8 to 9 A; 4 to 12 A)
- Rated operating voltage: 400 V
- Switching and protection device for three-phase asynchronous motors and single-phase AC motors
- Quick stop and limit position disconnecter load switch off even at high speed – independent of central controller.
- Power bus Automatic setup with side-by-side mounting of multiple modules.

# ET 200SP Motor Starters

## What are the benefits?



Wide power range for motors up to 5.5 kW



High degree of flexibility when it comes to safety applications thanks to shutdown via SIMATIC F-CPU or SIRIUS 3SK safety relay



Economical thanks to low module variance



Faster configuration in the TIA Portal



Lower plant costs thanks to quick installation and wiring



Easy module interchangeability means increased plant availability

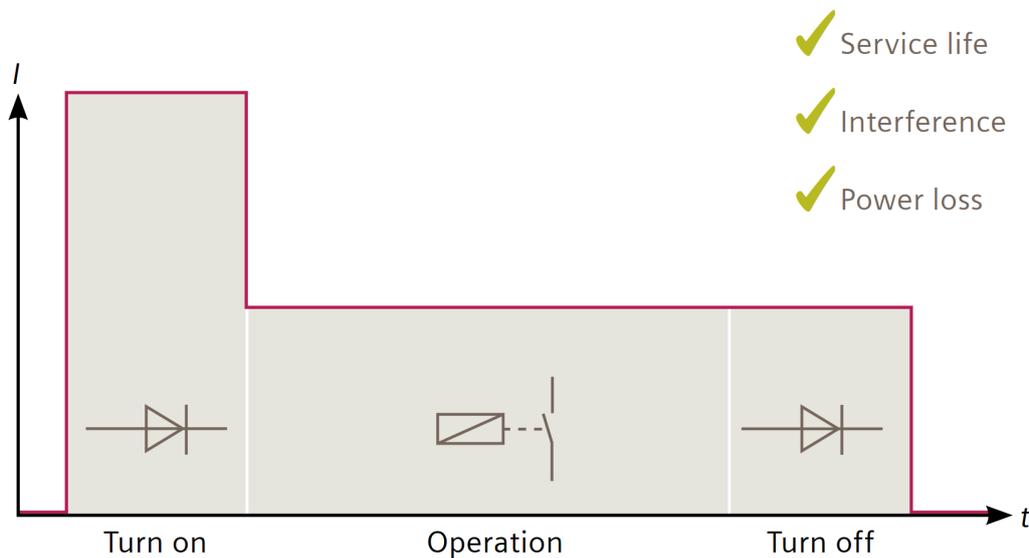


More space in the control cabinet thanks to a module width of just 30 mm



Faster maintenance thanks to automatic parameter uploading

## Hybrid Switching



Switching on - The inrush current in the case of motorized loads is conducted briefly via the semiconductors. The relay contacts are protected. Longer service life is achieved thanks to reduced wear and tear.

Current routing - The continuous current is routed via relay contacts. Relay contacts cause lower thermal losses than semiconductors.

Switching off - Switching off is implemented via the semiconductors. The contacts are not stressed with arcs when switching via the semiconductors. This results in increased service life.

# ET 200SP Motor Starters

## Part numbers and pricing

	Device Type	Adjustable current response value of the inverse-time delayed overload release	Max. current carrying capacity at startup	Part Number	Price
	Direct-on-line starter	0.25	0.3 ... 1	3RK1308-0AB00-0CP0	159.92
		1.1	0.9 ... 3	3RK1308-0AC00-0CP0	165.05
		4	2.8 ... 9	3RK1308-0AD00-0CP0	175.32
		5.5	4 ... 12	3RK1308-0AE00-0CP0	229.19
	Reversing starter	0.25	0.3 ... 1	3RK1308-0BB00-0CP0	209.52
		1.1	0.9 ... 3	3RK1308-0BC00-0CP0	215.51
		4	2.8 ... 9	3RK1308-0BD00-0CP0	224.92
		5.5	4 ... 12	3RK1308-0BE00-0CP0	273.66
	Fail-safe direct on-line starter	0.25	0.3 ... 1	3RK1308-0CB00-0CP0	215.51
		1.1	0.9 ... 3	3RK1308-0CC00-0CP0	224.92
		4	2.8 ... 9	3RK1308-0CD00-0CP0	235.18
		5.5	4 ... 12	3RK1308-0CE00-0CP0	291.62
	Fail-safe reversing starter	0.25	0.3 ... 1	3RK1308-0DB00-0CP0	279.65
		1.1	0.9 ... 3	3RK1308-0DC00-0CP0	289.91
		4	2.8 ... 9	3RK1308-0DD00-0CP0	300.18
		5.5	4 ... 12	3RK1308-0DE00-0CP0	353.20

## Base modules for motor starters

	Type of Product	Part number	Operational voltage of the AC in feed	Supply voltage of the DC in feed	Price
	with AC/DC in feed	3RK1908-0AP00-0AP0	400	24	79.62
	with DC in feed	3RK1908-0AP00-0BP0	-	24	69.96
	with AC in feed	3RK1908-0AP00-0CP0	400	-	75.26
	without in feed	3RK1908-0AP00-0DP0	-	-	60.21
	with AC in feed, with F-DI for fail-safe motor starters	3RK1908-0AP00-0EP0			90.65
	without AC in feed, with F-DI for fail-safe motor starters	3RK1908-0AP00-0FP0	-	-	85.01

## Accessories

	Type of Product	Part number	Price
	BU cover 30 mm (For protection of empty slots, 30 mm)	3RK1908-1CA00-0BP0	12.40
	Fan (Can be used for 3RK1308)	3RW4928-8VB00	24.55
	3DI/LC control module (20.4 ... 28.8V with Local control and Digital inputs parameterizable)	3RK1908-1AA00-0BP0	39.85

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