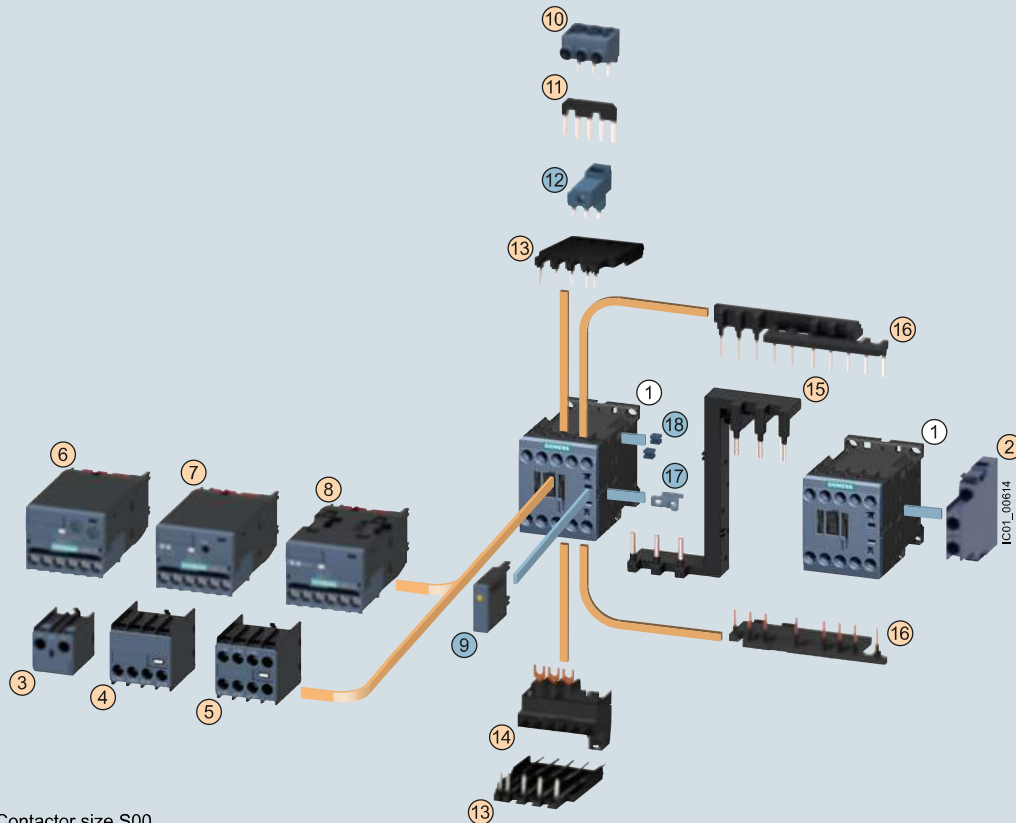


Overview

The SIRIUS family of controls

The SIRIUS modular system with its components for the switching, starting, protection and monitoring of motors and industrial systems stands for the fast, flexible and space-saving construction of control cabinets.

3RT2 contactors Size S00 with mountable accessories



① Contactor size S00

- ② 2-pole auxiliary switch block, laterally mountable
- ③ 1-pole auxiliary switch block, for snapping onto the front cable entry from the top
- ④ 2-pole auxiliary switch block, for snapping onto the front cable entry from the bottom
- ⑤ 4-pole auxiliary switch block, for snapping onto the front
- ⑥ 3RA28 function module
- ⑦ 3RA27 function module for AS-Interface, direct starting
- ⑧ 3RA27 function module for IO-Link, direct starting
- ⑨ Surge suppressor with/without LED
- ⑩ Three-phase feeder terminal

- ⑪ Star jumper, 3-pole, without connecting terminal
- ⑫ Link for paralleling, 3-pole, with connecting terminal
- ⑬ Solder pin adapter
- ⑭ Connection module (adapter and connector) for contactors with screw-type connection
- ⑮ Safety main current connector for two contactors

Assembly kit 3RA2913-2AA1 comprising:

- ⑯ Wiring modules on the top and bottom for connecting the main, auxiliary and control current paths, electrical interlock¹⁾ included (NC contact interlock), can be broken off (NC contact interlock)
- ⑰ Mechanical interlocks²⁾
- ⑱ Two connecting clips for two contactors²⁾

○ For contactors

● For contactors and coupling contactors

¹⁾ 3RT201, contactors with one NC contact in the basic unit are required for the electrical interlock. An additional NO contact is required for momentary-contact operation.

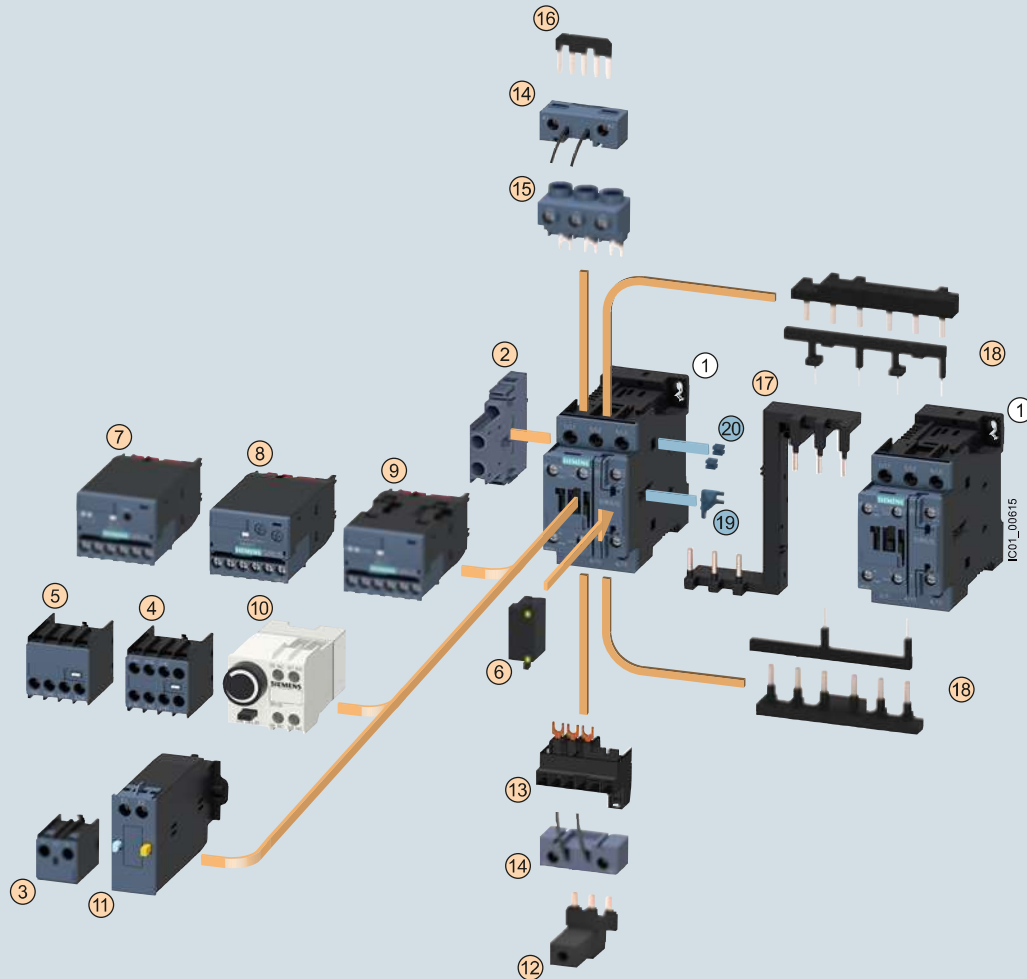
²⁾ The parts ⑰ and ⑱ can only be ordered together as 3RA2912-2H mechanical connectors.

For accessories and spare parts, see pages 3/75 to 3/123.

Power Contactors for Switching Motors

General data

3RT2 contactors Size S0 with mountable accessories



① Contactor size S0

- ② 2-pole auxiliary switch block, laterally mountable
- ③ 1-pole auxiliary switch block, for snapping onto the front cable entry from the top
- ④ 4-pole auxiliary switch block, for snapping onto the front cable entry from the bottom
- ⑤ 2-pole auxiliary switch block, for snapping onto the front cable entry from the bottom
- ⑥ Surge suppressor with/without LED
- ⑦ 3RA27 function module for AS-Interface, direct starting
- ⑧ 3RA28 function module
- ⑨ 3RA27 function module for IO-Link, direct starting
- ⑩ Pneumatically delayed auxiliary switch block
- ⑪ Mechanical latching block

- ⑫ Link for paralleling, 3-pole, with connecting terminal
- ⑬ Connection module (adapter and plug) for contactors with screw-type connection
- ⑭ Coil terminal module, on the top and bottom
- ⑮ Three-phase feeder terminal
- ⑯ Link for paralleling (star jumper), 3-pole, without connecting terminal
- ⑰ Safety main current connector for two contactors

Assembly kit 3RA2923-2AA1 comprising:

- ⑱ Wiring modules on the top and bottom for connecting the main current paths, electrical interlock included (NC contact interlock)
- ⑲ Mechanical interlocks¹⁾
- ⑳ Two connecting clips for two contactors¹⁾

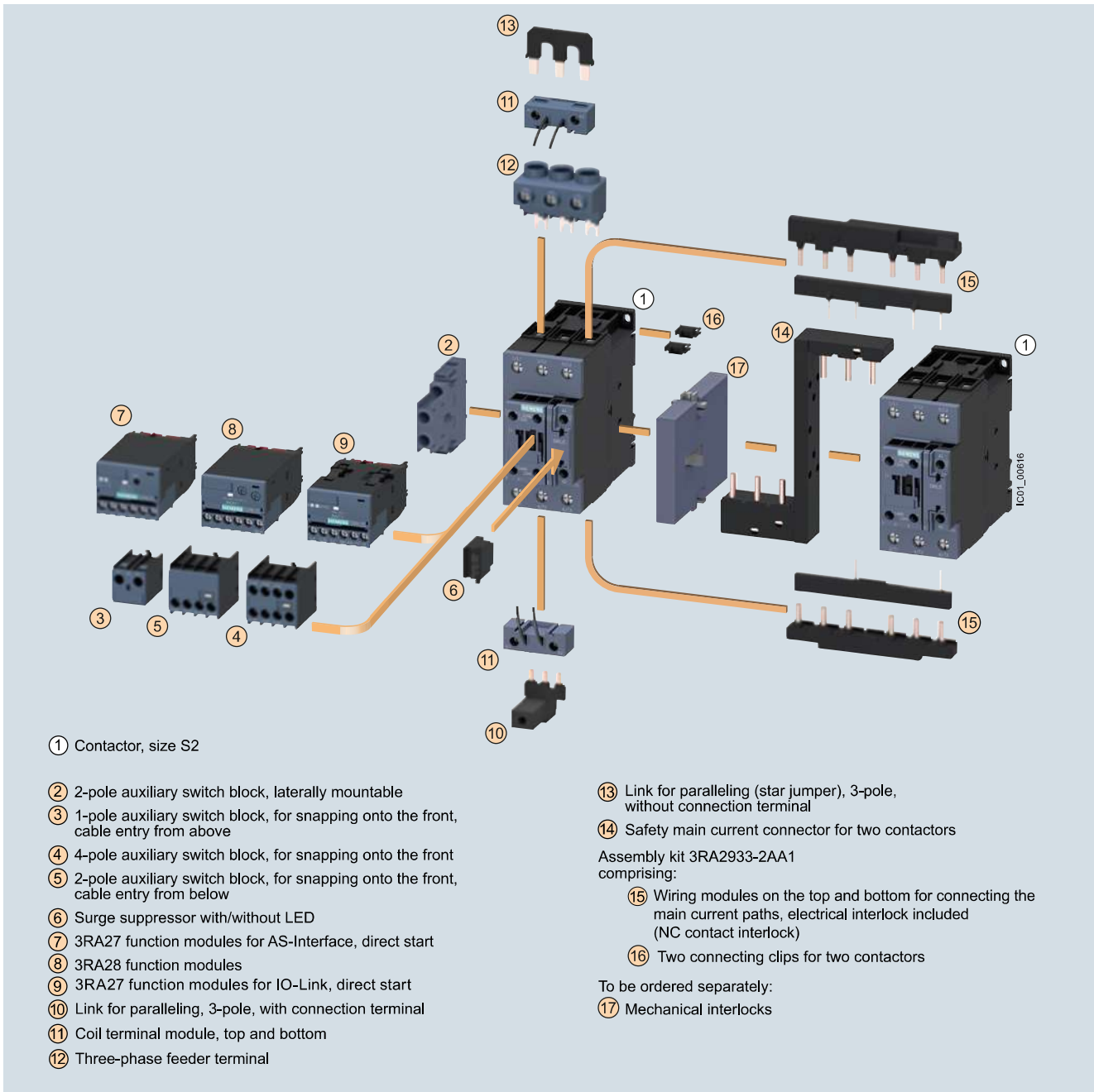
○ For contactors

○ For contactors and coupling contactors

¹⁾ The parts ⑲ and ⑳ can only be ordered together as 3RA2912-2H mechanical connectors.

For accessories and spare parts, see pages 3/75 to 3/123.

3RT2 contactors Size S2 with mountable accessories

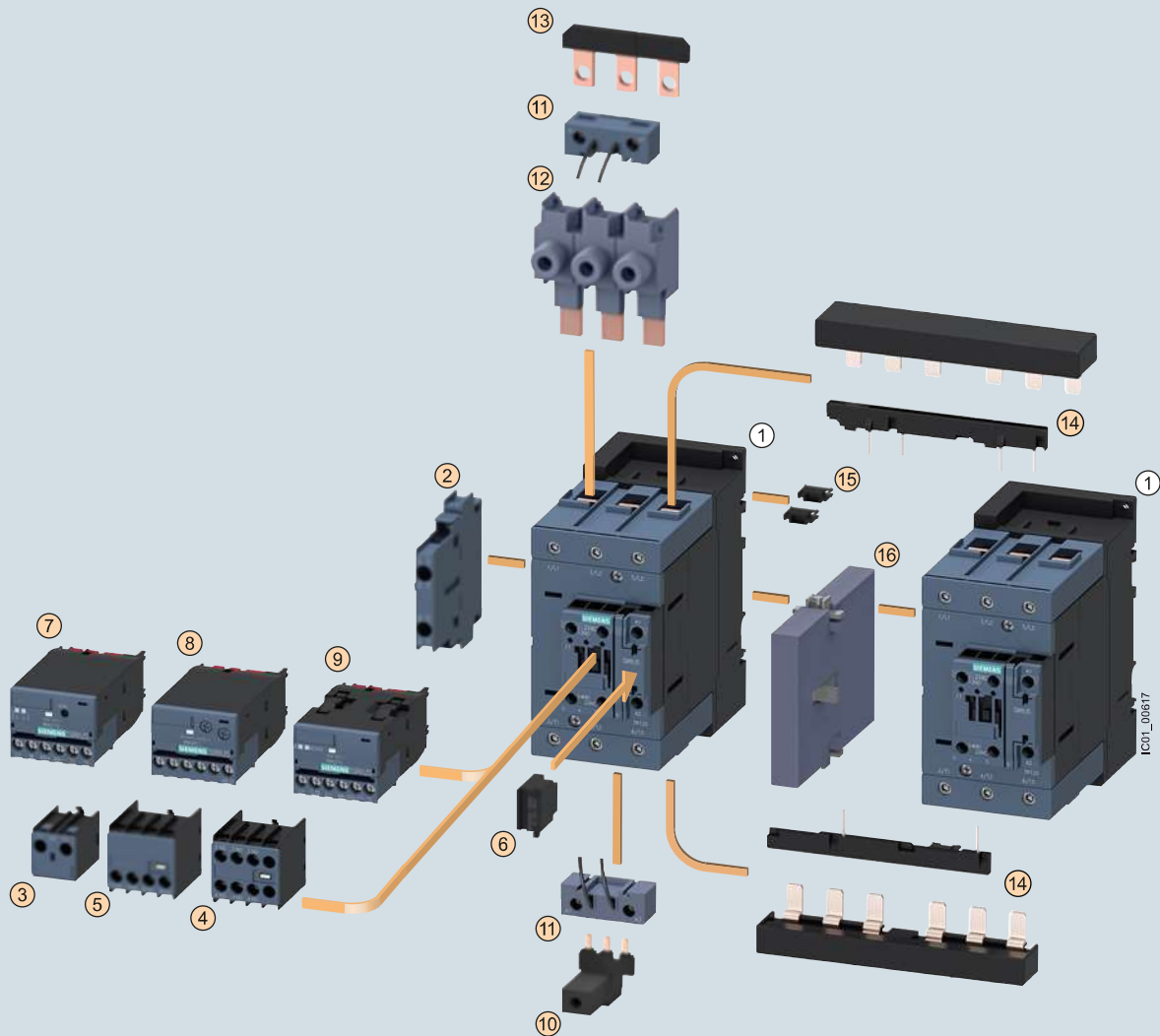


For accessories and spare parts, see pages 3/75 to 3/123.

Power Contactors for Switching Motors

General data

3RT2 contactors Size S3 with mountable accessories



① Contactor, size S3

- ② 2-pole auxiliary switch block, laterally mountable
- ③ 1-pole auxiliary switch block, for snapping onto the front, cable entry from above
- ④ 4-pole auxiliary switch block, for snapping onto the front
- ⑤ 2-pole auxiliary switch block, for snapping onto the front, cable entry from below
- ⑥ Surge suppressor with/without LED
- ⑦ 3RA27 function modules for AS-Interface, direct-on-line starting
- ⑧ 3RA28 function modules
- ⑨ 3RA27 function modules for IO-Link, direct-on-line starting

⑩ Links for paralleling, 3-pole, with connection terminal

- ⑪ Coil terminal module, top and bottom
- ⑫ Single-phase infeed terminals (3 units)
- ⑬ Links for paralleling (star jumper), 3-pole without connecting terminal

Assembly kit 3RA2943-2AA1 comprising:

- ⑭ Wiring modules on the top and bottom for connecting the main, auxiliary and control current paths, electrical interlock¹⁾ included (NC contact interlock), can be broken off (NC contact interlock)
- ⑮ Two connectors for two contactors

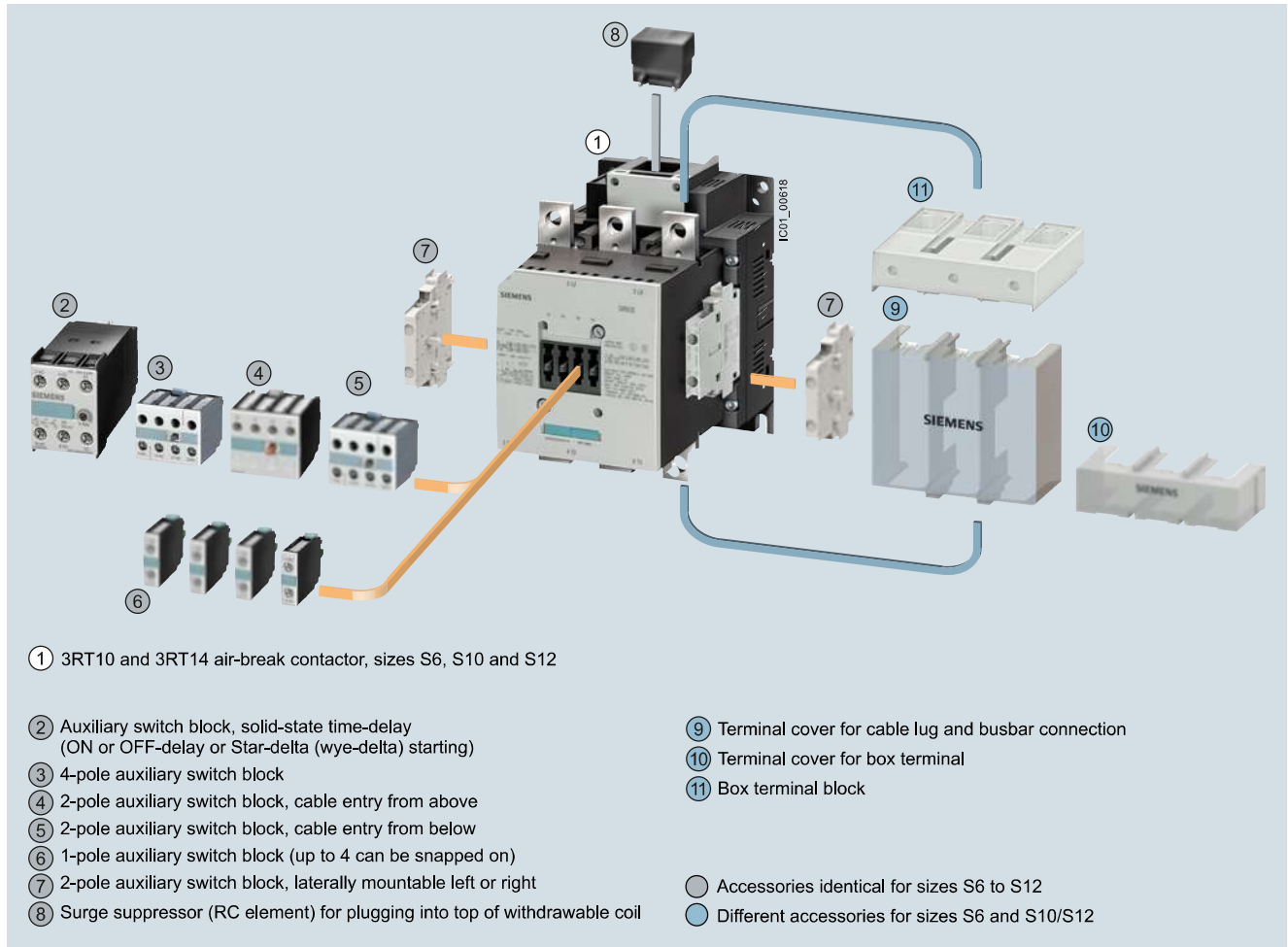
To be ordered separately:

- ⑯ Mechanical interlock

¹⁾ 3RT201. contactors with one NC contact in the basic unit are required for the electrical interlock. An additional NO contact is required for momentary-contact operation.

For accessories and spare parts, see pages 3/75 to 3/123.

3RT1 contactors
Sizes S6 to S12 with mountable accessories
(illustration for basic unit)

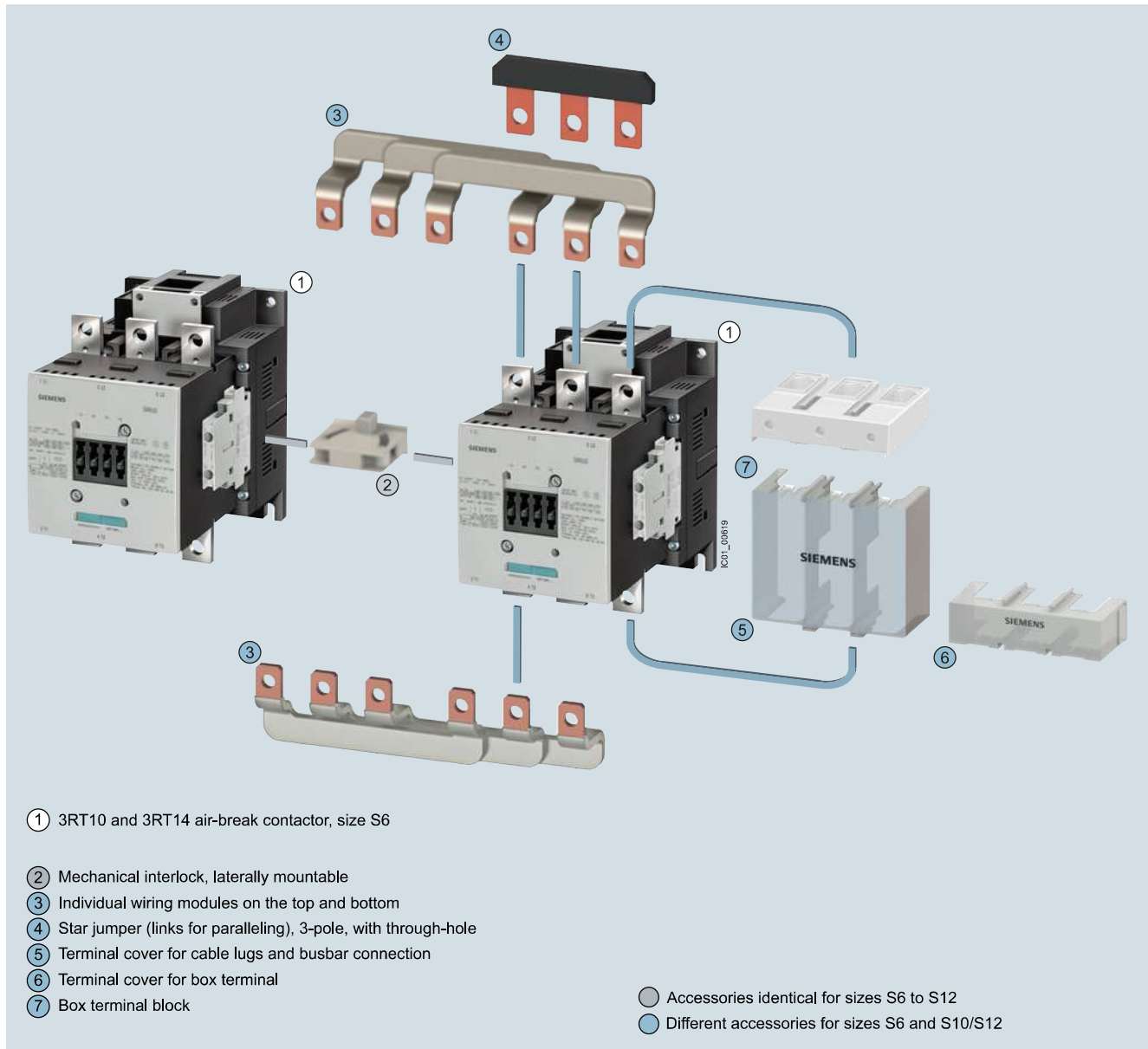


For accessories and spare parts, see pages 3/75 to 3/123.

Power Contactors for Switching Motors

General data

Contactor assemblies, 3RT1 contactors Size S6 with mountable accessories

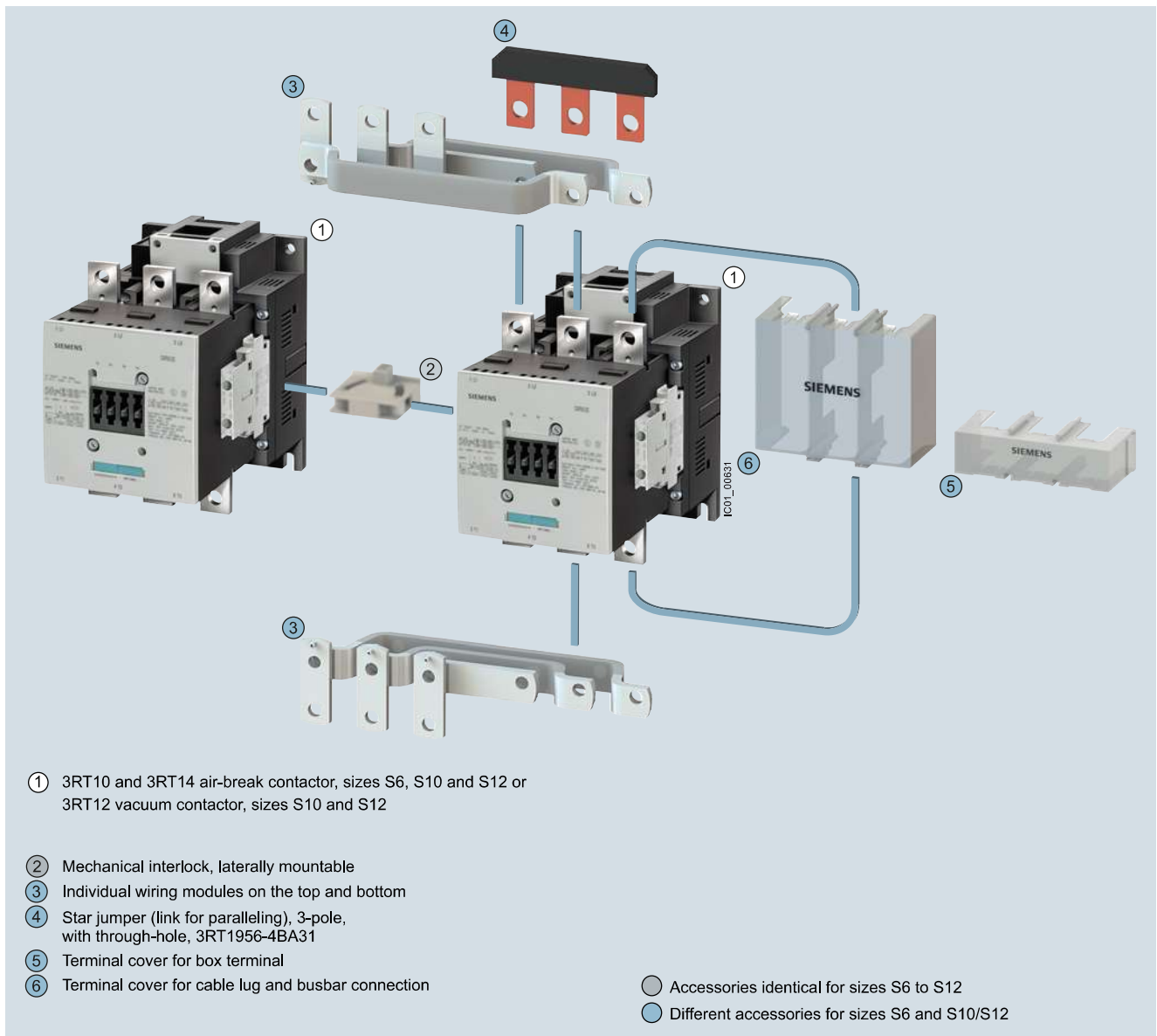


For accessories and spare parts, [see pages 3/75 to 3/123](#).

For contactor assemblies for customer assembly from 3RT1 contactors, [see](#)

- [For reversing contactor assemblies, pages 3/167 to 3/169](#)
- [For star-delta \(wye-delta\) assemblies, pages 3/184 to 3/189](#).

Contactor assemblies, 3RT1 contactors
Sizes S6 to S12 with mountable accessories



For accessories and spare parts for

- 3RT10 and 3RT14 contactors, [see pages 3/75 to 3/123](#)
- 3RT12 vacuum contactors, [see pages 3/137 to 3/140](#)

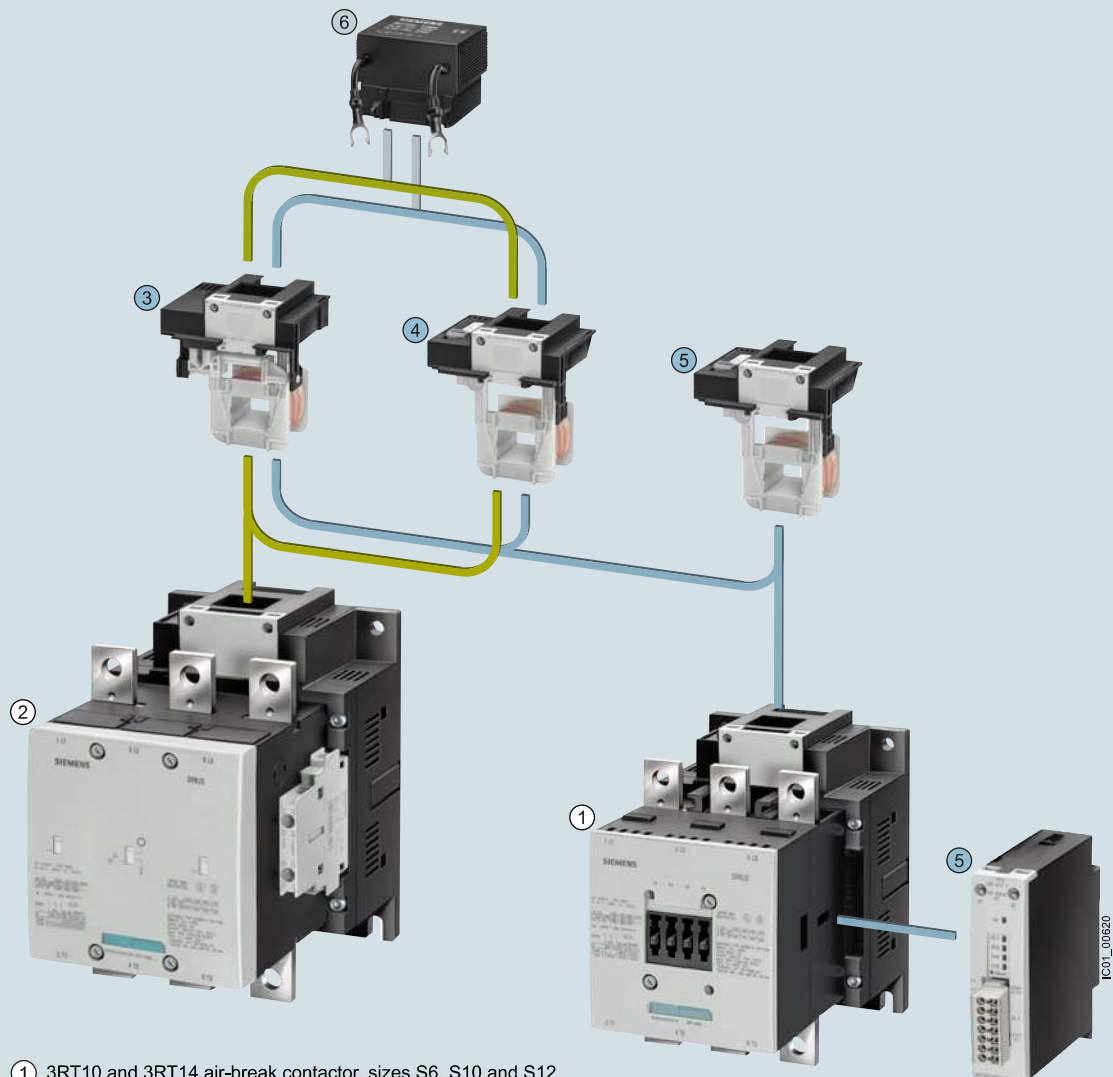
For contactor assemblies for customer assembly from 3RT1 contactors, [see](#)

- [For reversing contactor assemblies, pages 3/167 to 3/169](#)
- [For star-delta \(wye-delta\) assemblies, pages 3/184 to 3/189.](#)

Power Contactors for Switching Motors

General data

3RT1 contactors Sizes S6 to S12 with mountable accessories



- ① 3RT10 and 3RT14 air-break contactor, sizes S6, S10 and S12 (3RT1054, size S6 shown here)
 - ② 3RT12 vacuum contactor, sizes S10 and S12 (3RT1266, size S10 shown here)
 - ③ Withdrawable coils for 3RT1...-A... contactors with conventional operating mechanism (size S10: differentiation between 3RT10/3RT14 air-break contactors and 3RT12 vacuum contactors) (size S12: the same for air-break and vacuum contactors)
 - ④ Withdrawable coils for 3RT1...-N... contactors with solid-state operating mechanism. (size S10: differentiation between 3RT10/3RT14 air-break contactors and 3RT12 vacuum contactors) (size S12: the same for air-break and vacuum contactors)
 - ⑤ Withdrawable coils and laterally mountable module (plug-on) for 3RT1...-P... air-break contactors with solid-state operating mechanism and remaining lifetime indicator
 - ⑥ Surge suppressor (RC element), plug-mountable on withdrawable coils
 - 3RT1...-A... with conventional operating mechanism
 - 3RT1...-N... with solid-state operating mechanism
- Same accessories for sizes S6 to S12
● Different accessories depending on size

For accessories and spare parts for

- 3RT10 and 3RT14 contactors, [see pages 3/75 to 3/123](#)
- 3RT12 vacuum contactors, [see pages 3/137 to 3/140](#)

Overview

Version	Size	Ratings of three-phase motors at 50 Hz and 400 V kW	Connection methods		Type	Page
			Screw terminals	Spring-type terminals		
Power contactors for switching motors						
AC operation						
Basic unit	S00	3 ... 7.5	✓	✓	3RT201.-.A.0.	3/51
• With permanently mounted auxiliary switch block (SUVA-certified safety contactor)			✓	✓	3RT201.-.P04-3MA0	3/52
Basic unit	S0	4 ... 18.5	✓	✓	3RT202.-.A.00	3/53
• With removable mounted auxiliary switch block			✓	✓	3RT202.-.A.04	3/54
• With permanently mounted auxiliary switch block (SUVA-certified safety contactor)			✓	✓	3RT202.-.CL24-3MA0	3/54
Basic unit	S2	18.5 ... 37	✓	✓	3RT203.-.A.00	3/55
• With removable mounted auxiliary switch block			✓	--	3RT203.-1A.04	3/55
• With permanently mounted auxiliary switch block			✓	✓	3RT203.-.CL24-3MA0	3/55
Basic unit	S3	37 ... 55	✓	✓	3RT204.-.A.00	3/56
• With removable mounted auxiliary switch block			✓	--	3RT204.-1A.04	3/56
• With permanently mounted auxiliary switch block			✓	--	3RT204.-1CL24-3MA0	3/56
DC operation						
Basic unit	S00	3 ... 7.5	✓	✓	3RT201.-.B.4.	3/57
• With integrated coil circuit (diode)			✓	✓	3RT201.-.FB4.	3/57
• With permanently mounted auxiliary switch block (SUVA-certified safety contactor) and integrated coil circuit (diode)			✓	✓	3RT201.-.B44-3MA0	3/58
• With voltage tap-off			✓	✓	3RT201.-.BB4.-0CC0	3/58
Basic unit	S0	4 ... 18.5	✓	✓	3RT202.-.B.40	3/61
• With coil circuit plugged into front (diode assembly)			✓	✓	3RT202.-.FB40	3/61
• With removable mounted auxiliary switch block			✓	✓	3RT202.-.BB44	3/61
• With permanently mounted auxiliary switch block (SUVA-certified safety contactor)			✓	✓	3RT202.-.B44-3MA0	3/62
• With voltage tap-off			✓	✓	3RT202.-.BB40-0CC0	3/62
DC operation for direct control from the PLC (coupling relays)						
Basic unit with and without integrated coil circuit	S00	3 ... 5.5	✓	✓	3RT201.-.B4.	3/59, 3/60
Basic unit with integrated coil circuit	S0	4 ... 15	✓	✓	3RT202.-.KB40	3/63
Basic unit with integrated coil circuit	S2	18.5 ... 37	✓	✓	3RT203.-.KB40	3/64
Basic unit with integrated coil circuit	S3	37 and 45	✓	✓	3RT204.-.KB40	3/64
AC/DC operation (50/60 Hz AC and DC)						
Basic unit with integrated coil circuit	S0	5.5 ... 18.5	✓	✓	3RT202.-.N.30	3/65
Basic unit with integrated coil circuit	S2	18.5 ... 37	✓	✓	3RT203.-.N.30	3/66
• With removable mounted auxiliary switch block			✓	--	3RT203.-1N.34	3/66
• With permanently mounted auxiliary switch block			✓	✓	3RT203.-.NB34-3MA0	3/67
• With voltage tap-off			✓	✓	3RT203.-.NB30-0CC0	3/67
Basic unit with integrated coil circuit	S3	37 ... 55	✓	✓	3RT204.-.N.30	3/68
• With removable mounted auxiliary switch block			✓	--	3RT204.-1N.34	3/68
• With permanently mounted auxiliary switch block			✓	✓	3RT204.-.NB34-3MA0	3/69
• With voltage tap-off			✓	✓	3RT204.-.NB30-0CC0	3/69
Basic unit	S6 ... S12	55 ... 250	✓ ¹⁾	✓	3RT10...-A.36	3/70
• Conventional operating mechanism			✓ ¹⁾	✓	3RT10...-N.36	3/71
• Solid-state operating mechanism			✓ ¹⁾	--	3RT10...-P.35	3/72
- With 24 V DC control signal input, e.g. for control by PLC			✓ ¹⁾	✓	3RT10...-N.36	3/71
- With 24 V DC control signal input · with indication of remaining lifetime (RLT), e.g. for control by PLC			✓ ¹⁾	--	3RT10...-P.35	3/72

-- Version not possible

✓ Version possible

¹⁾ Screw terminal optionally with box terminals or with busbar connections.

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW



Contactors with screw terminals: 3RT2 (sizes S00 to S3) and 3RT1 (sizes S6 to S12)

3RT contactors, sizes S00 to S12

Our power range:

- Contactors for switching motors:
 - Size S00: 3RT201 up to 7.5 kW
 - Size S0: 3RT202 up to 18.5 kW
 - Size S2: 3RT203 up to 37 kW
 - Size S3: 3RT204 up to 55 kW
 - Sizes S6 to S12: 3RT10 up to 250 kW
- For vacuum contactors for switching motors, see page 3/124 onwards:
 - Sizes S10 and S12: 3RT12 up to 250 kW
 - Size 14: 3TF6 up to 450 kW

Standards

IEC 60947-1, EN 60947-1,
IEC 60947-4-1, EN 60947-4-1,
IEC 60947-5-1, EN 60947-5-1 (auxiliary switches)

3RT contactors

The 3RT contactors are climate-proof and are suitable and tested for use worldwide.

If the devices are used in ambient conditions which deviate from common industrial conditions (IEC 60721-3-3 "Stationary Use, Weather-Protected"), information must be obtained about possible restrictions with regard to the reliability and endurance of the device and possible protective measures. In this case contact our Technical Assistance,
Tel.: +49 (911) 895-5900
E-mail: technical-assistance@siemens.com

Auxiliary contact complement

- Size S00: an auxiliary contact is integrated in the basic device.

- Sizes S0 to S3: the basic units contain two integrated auxiliary contacts (1 NO + 1 NC). All basic units, with the exception of coupling relays, can be expanded using auxiliary switch blocks; see page 3/87 for the permitted selection of auxiliary switches.
- Sizes S6 to S12: These contactors are supplied with two laterally mounted auxiliary switch blocks. The fitting of auxiliary switches is possible on the front and on the side (the 3RT12 vacuum contactor is an exception: only lateral fitting of auxiliary switches is possible here).

For detailed information about fitting of auxiliary switches, see pages 3/87 to 3/92.

Contact reliability

If voltages ≤ 110 V and currents ≤ 100 mA are to be switched, the auxiliary contacts of the 3RT contactors or 3RH contactor relays should be used as they guarantee a high level of contact reliability.

These auxiliary contacts are particularly suitable for solid-state circuits with currents ≥ 1 mA at a voltage ≥ 17 V.

Connection methods

Main circuit

- Sizes S00 and S0: screw or spring-type terminals, spring-type terminals with convenient plug-in design for device connectors
- Size S2: Screw terminals
- Sizes S3 to S12: screw terminals with or without box terminal; with the box terminal removed: connection with busbar or cable lugs on the device connecting bar possible

Auxiliary circuit

- Sizes S00 to S12: Screw or spring-type terminals

Electromagnetic compatibility (EMC)

The 3RT contactors fulfill the requirements for environment category A.

Note:

When the contactors are used in an environment with frequency converters, the information in the manuals must be observed. See "More information" on page 3/19.

Short-circuit protection

For short-circuit protection of contactors without overload relays, see "Technical specifications":

- For 3RT2 contactors, see pages 3/24, 3/30, 3/34 and 3/39
- For 3RT1 contactors, see page 3/44

Refer to the manuals for details of short-circuit protection of the contactors with overload relays; see "More information" on page 3/19.

For fuseless assembly of motor feeders consisting of 3RV2 motor starter protector and 3RT2 contactor, selection guides are available; see "SIRIUS 3RA2 load feeders" from page 8/4 onwards.

Motor protection3RT2 contactors

For protection against overload, 3RU2 thermal overload relays (see page 7/84 onwards) or 3RB3 electronic overload relays (see page 7/97 onwards) can be mounted on the 3RT2 contactors.

3RT1 contactors

For protection against overload, 3RB2 electronic overload relays (see page 7/109 onwards) can be mounted on the 3RT1 contactors.

Plant and application monitoring

For monitoring and measuring in the application, 3RR2 monitoring relays can be mounted on the 3RT2 contactors (see page 10/62).

Ratings of three-phase motors

The quoted rating (in kW) refers to the output power on the motor shaft (according to the nameplate).

The power rating specifications of the contactors in kW (in accordance with IEC 60947-4-1, Table G) are guide values for 4-pole standard motors at 50 Hz AC and specified voltage (e. g. 400 V). The actual starting and rated data of the motor to be switched must be considered when selecting the units.

Surge suppression

3RT contactors supplied without a coil circuit can be retrofitted with RC elements, varistors, diodes or diode assemblies (assembly of diode and Zener diode for short break times) for damping opening surges in the coil. See page 3/103.

- Size S00: the surge suppressors are plugged onto the front of the contactors here. Space is provided for them next to a snap-on auxiliary switch block.
- Sizes S0 and S3: the surge suppressors can be plugged onto the front of the devices. In the case of size S3 contactors, surge suppressors can only be used as from product version E03.
- Sizes S6 to S12: Withdrawable coils with integrated coil switch (varistor)

Note:

The OFF-delay of the NO contact and the ON-delay of the NC contact are increased if the contactor coils are attenuated against voltage peaks (for details, see the relevant manual → "More information" on page 3/19).

Contactors with voltage tap-offSizes S00 to S3

The S00 to S3 contactors with voltage tap-off are special versions for mounting the SIRIUS function modules for connection to the control system through IO-Link or AS-Interface (see page 3/79 onwards).

Without a function module, these contactors can be used like the standard versions.

For more information on IO-Link and AS-Interface see "Industrial Communication" from page 2/1 onwards.

Control supply voltage

Different versions of operating mechanisms are available depending on the contactor size:

- AC or DC operation for sizes S00 to S3
- AC/DC operating mechanism for sizes S0 to S12 that can operate on AC (50 to 60 Hz) or DC.

Operating mechanism typesSizes S6 to S12

Two types of solenoid operation are available:

- Conventional operating mechanisms
- Solid-state operating mechanisms
 - The operating mechanism for the contactors features solid-state control of the contactor coil. Overvoltage damping of the operating mechanism coil is already integrated in the electronics. The operating mechanisms are powered via a supply voltage with an operating range from 0.7 to 1.25 x U_s , optionally also controlled depending on the chosen mode of operation. Alternatively, control is via the separate 24 V DC control signal input. Various rated voltage ranges for AC/DC control are available.
 - This version is additionally available with a 24 V DC PLC relay output and a remaining lifetime indicator (RLT).

Solenoid coils

- Sizes S0 to S3: coil replacement is possible.
- As from size S6: For simple coil replacement, e. g. if the application is replaced, the solenoid coil can be pulled out upwards after the release mechanism has been actuated and can be replaced by any other coil of the same size.

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW

Article No. scheme

Product versions		Article number	
SIRIUS power contactors		3RT2 □ □ □ - □ □ □ □ □ - □ □ □ □	
Device type	e. g. 0 = 3-pole motor contactor	□	
Size of the contactor	e. g. 4 = S3	□	
Power dependent on size	e. g. 5 = 37 kW in the case of S3	□	
Type of electrical connection	e. g. 1 = screw terminals (main and auxiliary circuits)		□
Operating range / solenoid coil circuit	e.g. A = AC standard / without coil circuit		□
Rated control supply voltage	e.g. P0 = 230 V AC, 50 Hz		□ □
Auxiliary switches	e. g. 0 = in the case of S3: 1 NO + 1 NC integrated		□
Special version			□ □ □ □
Example		3RT2 0 4 5 - 1 A P 0 0	

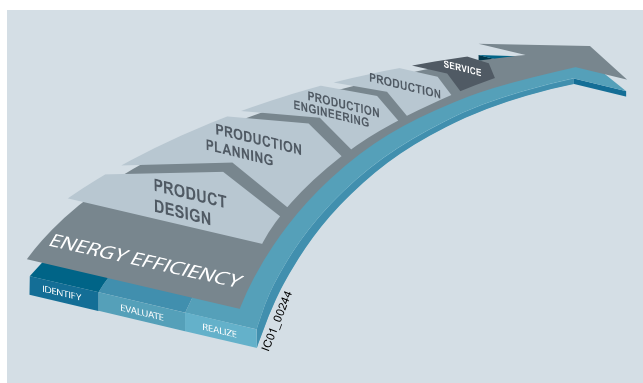
Note:

The Article No. scheme shows an overview of product versions for better understanding of the logic behind the article numbers.

For your orders, please use the article numbers quoted in the selection and ordering data.

Benefits

Advantages through energy efficiency



Overview of the energy management process

We offer you a unique portfolio for industrial energy management, using an energy management system that helps to optimally define your energy needs. We split up our industrial energy management into three phases – identify, evaluate, and realize – and we support you with the appropriate hardware and software solutions in every process phase.

The innovative products of the SIRIUS industrial controls portfolio can also make a substantial contribution to a plant's energy efficiency (see www.siemens.com/sirius/energysaving).

3RT2 contactors contribute to energy efficiency throughout the plant as follows:

- AC/DC coils with electrical control for reduced power consumption when closing and in the closed state
- Smaller power supply units in the control circuit due to low holding power at 24 V DC
- Reduced heating of control cabinet:
Technology-reduced inherent power loss of the contactors, resulting in lower cooling costs and a more compact design

Technical specifications

More information				
Technical specifications, see https://support.industry.siemens.com/cs/ww/en/ps/16134/td FAQs, see https://support.industry.siemens.com/cs/ww/en/ps/16134/faq		Manuals, see <ul style="list-style-type: none"> • System Manual "SIRIUS – System Overview", https://support.industry.siemens.com/cs/WW/en/view/60311318 • Manual "SIRIUS – SIRIUS 3RT Contactors/Contactor Assemblies", https://support.industry.siemens.com/cs/WW/en/view/60306557 • Application Manual "SIRIUS Controls with IE3/IE4 motors", https://support.industry.siemens.com/cs/ww/en/view/94770820 		
Type	3RT20 contactors		3RT10	
Size	S00 to S2		S3	S6 to S12
Rated data of the auxiliary contacts				
acc. to IEC 60947-5-1/EN 60947-5-1 Data applies to integrated auxiliary contacts and conventional contacts in the auxiliary switch blocks				
Rated insulation voltage U_i (pollution degree 3)	V	690	1 000 (3RT20...-0CC0: 690)	--
• For laterally mountable auxiliary switch blocks	V	690	690	500
• For front mountable auxiliary switch blocks	V	690	690	690
Conventional thermal current I_{th} = Rated operational current $I_e/AC-12$	A	10		
AC load				
Rated operational current $I_e/AC-15/AC-14$				
• For rated operational voltage U_e	Up to 230 V	A	10 ¹⁾	6
	400 V	A	3	6
	500 V	A	2	3
	690 V	A	1	2
				1 ²⁾
DC load				
Rated operational current $I_e/DC-12$				
• For rated operational voltage U_e	24 V	A	10	10
	60 V	A	6	6
	110 V	A	3	3
	125 V	A	2	2
	220 V	A	1	1
	440 V	A	0.3	0.3
	600 V	A	0.15	0.15 ²⁾
Rated operational current $I_e/DC-13$				
• For rated operational voltage U_e	24 V	A	10 ¹⁾	10 ³⁾
	60 V	A	2	2
	110 V	A	1	1
	125 V	A	0.9	0.9
	220 V	A	0.3	0.3
	440 V	A	0.14	0.14
	600 V	A	0.1	0.15 ²⁾
Contact reliability at 17 V, 1 mA according to IEC 60947-5-4/EN 60947-5-4	Frequency of contact faults < 10 ⁻⁹ i. e. < 1 fault per 100 million operating cycles			

1) 3RH22, 3RH29, 3RT2...-...4, 3RT2...-...6: $I_e = 6$ A at AC-15/AC-14 and DC-13.

2) For laterally mountable auxiliary switch blocks, only the rated operational voltages up to 500 V apply.

3) For laterally mountable auxiliary switch blocks, DC-13/at 24 V: Max. 6 A.

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW

Type
Size

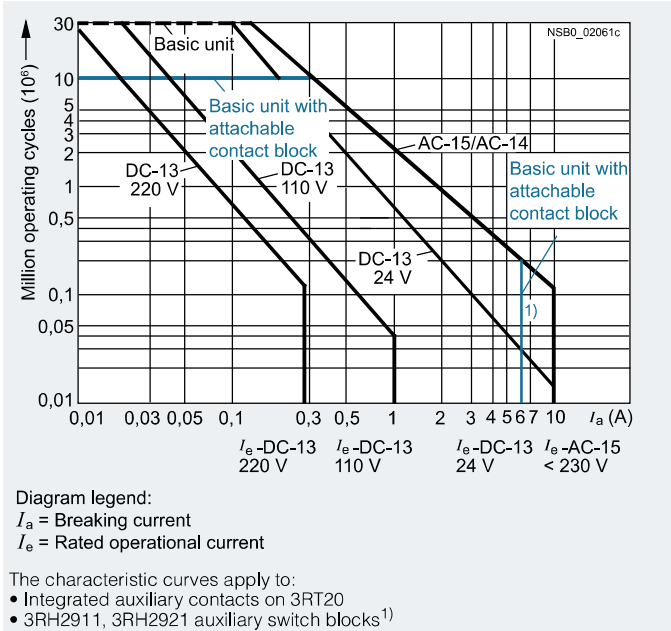
3RT contactors
S00 to S12

Contact endurance of the auxiliary contacts

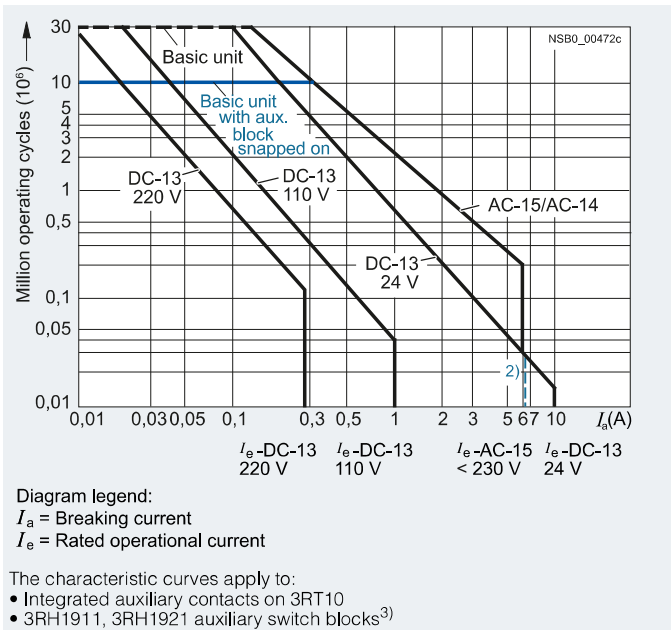
It is assumed that the operating mechanisms are switched randomly, i. e. not synchronized with the phase angle of the supply system.

The contact endurance is mainly dependent on the breaking current.

Sizes S00 to S3



Sizes S6 to S12



¹⁾ 3RH22, 3RH29, 3RT2...-...4, 3RT2...-...6: $I_e = 6$ A at AC-15/AC-14 and DC-13, 3RT2.4: $I_e = 6$ A at AC-15/AC-14.

²⁾ For laterally mountable auxiliary switch blocks, DC-13/at 24 V: Max. 6 A.

³⁾ For laterally mountable auxiliary switch blocks, only the rated operational voltages up to 500 V apply.

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW

Type
Size

3RT2 contactors
S00 and S0

Contact endurance of the main contacts

The characteristic curves show the contact endurance of the contactors when switching resistive and inductive AC loads (AC-1/AC-3) depending on the breaking current and rated operational voltage. It is assumed that the operating mechanisms are switched randomly, i. e. not synchronized with the phase angle of the supply system.

The rated operational current I_e complies with utilization category AC-4 (breaking 6 times the rated operational current) and is intended for a contact endurance of approximately 200 000 operating cycles.

If a shorter contact endurance is sufficient, the rated operational current $I_e/AC-4$ can be increased.

If the contacts are used for mixed operation, i.e. normal switching (breaking the rated operational current according to utilization category AC-3) in combination with intermittent inching (breaking several times the rated operational current according to utilization category AC-4), the contact endurance can be calculated approximately from the following equation:

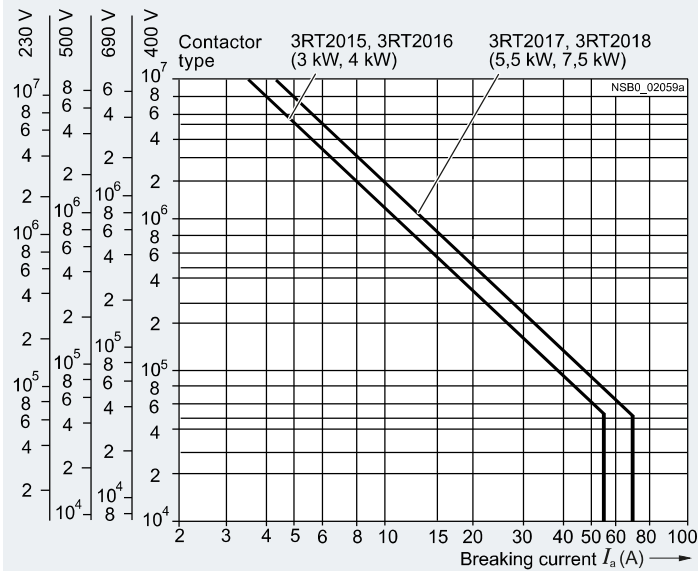
$$X = \frac{A}{1 + \frac{C}{100} \left(\frac{A}{B} - 1 \right)}$$

Characters in the equation:

- X Contact endurance for mixed operation in operating cycles
- A Contact endurance for normal operation ($I_a = I_e$) in operating cycles
- B Contact endurance for inching ($I_a = \text{multiple of } I_e$) in operating cycles
- C Inching operations as a percentage of total switching operations

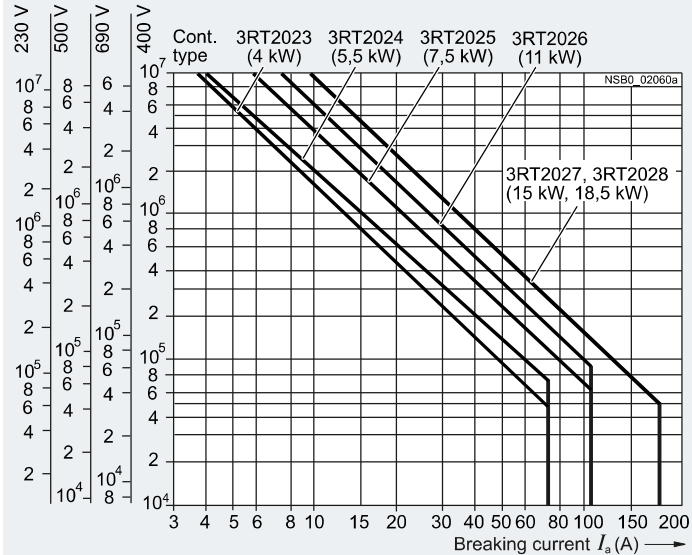
Size S00

Operating cycles at



Size S0

Operating cycles at



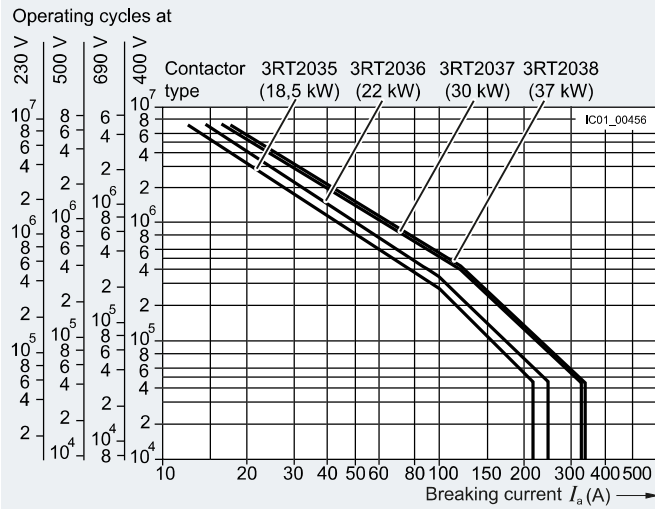
Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW

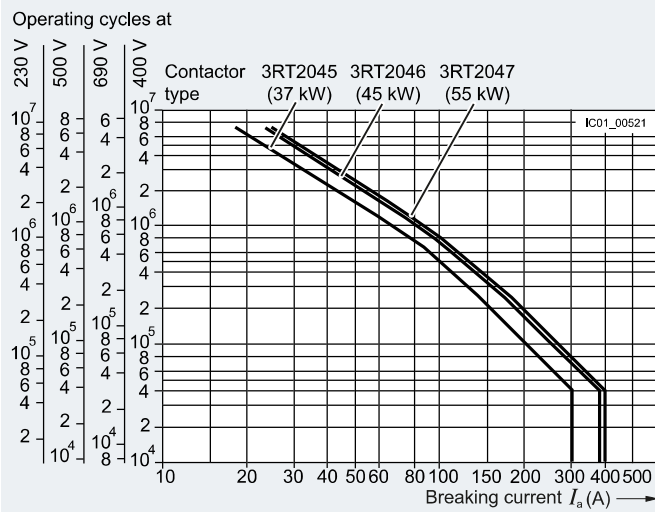
Type **3RT2 contactors**
 Size **S2 to S12**

Contact endurance of the main contacts

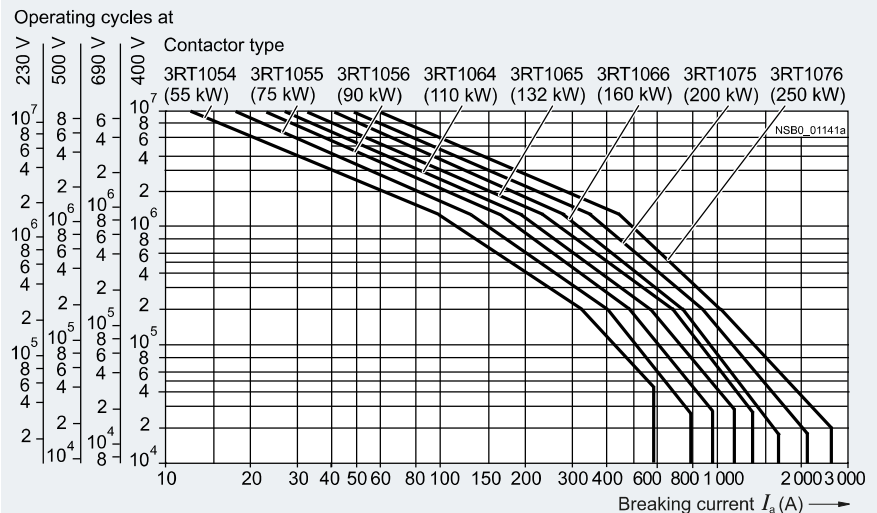
Size S2

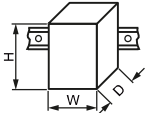
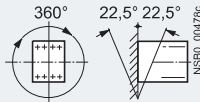



Size S3



Sizes S6 to S12



Type Size	Contactors			
	3RT2015, 3RT2016 S00	3RT2017, 3RT2018		
General data				
Dimensions (W x H x D)				
<ul style="list-style-type: none"> Basic unit <ul style="list-style-type: none"> Screw terminals Spring-type terminals Basic unit with mounted auxiliary switch block <ul style="list-style-type: none"> Screw terminals Spring-type terminals Basic unit with mounted function module or solid-state time-delayed auxiliary switch block <ul style="list-style-type: none"> Screw terminals Spring-type terminals 		mm	45 x 58 x 73	
		mm	45 x 70 x 73	
		mm	45 x 58 x 117	
		mm	45 x 70 x 121	
		mm	45 x 58 x 147	
		mm	45 x 70 x 147	
Permissible mounting position				
The contactors are designed for operation on a vertical mounting surface.				
Upright mounting position		 Special version required		
Mechanical endurance				
• Basic unit	Operating cycles	30 million		
• Basic unit with mounted auxiliary switch block	Operating cycles	10 million		
• Basic unit with solid-state compatible auxiliary switch block	Operating cycles	5 million		
Electrical endurance			For contact endurance of the main contacts, see page 3/21 .	
Rated insulation voltage U_i (pollution degree 3)	V	690		
Rated impulse withstand voltage U_{imp}	kV	6		
Protective separation between the coil and the main contacts according to IEC 60947-1, Appendix N	V	400		
Mirror contacts				
A mirror contact is an auxiliary NC contact that cannot be closed simultaneously with an NO main contact.				
• 3RT2.1. (removable auxiliary switch block)		Yes, this applies to both the basic unit as well as to between the basic unit and the mounted auxiliary switch block acc. to IEC 60947-4-1, Appendix F		
• 3RH2919-.NF.. solid-state compatible auxiliary switch blocksNF..		Have no mirror contact for size S00		
Ambient temperature				
• During operation	°C	-25 ... +60		
• During storage	°C	-55 ... +80		
Degree of protection acc. to IEC 60529				
• On front		IP20 (screw terminals and spring-type terminals)		
• Connecting terminal		IP20 (screw terminals and spring-type terminals)		
Touch protection acc. to IEC 60529			Finger-safe (screw terminals and spring-type terminals)	
Shock resistance				
• Rectangular pulse	g/ms	6.7/5 and 4.2/10	7.3/5 and 4.7/10	
		6.7/5 and 4.2/10	7.3/5 and 4.7/10	
• Sine pulse	g/ms	10.5/5 and 6.6/10	11.4/5 and 7.3/10	
		10.5/5 and 6.6/10	11.4/5 and 7.3/10	

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW




Type Size	Contactors	
	3RT2015, 3RT2016 S00	3RT2017, 3RT2018
Short-circuit protection		
Main circuit		
• Fuse links, operational class gG: LV HRC, type 3NA; DIAZED, type 5SB; NEOZED, type 5SE acc. to IEC 60947-4-1/EN 60947-4-1		
- Type of coordination "1"	A	35
- Type of coordination "2"	A	20
- Weld-free (test conditions according to IEC 60947-4-1)	A	10
• Miniature circuit breaker (up to 230 V) with C characteristic Short-circuit current 1 kA, type of coordination "1"	A	10
Auxiliary circuit		
Short-circuit test acc. to IEC 60947-5-1/EN 60947-5-1		
• With fuse links, operational class gG: DIAZED, type 5SB; NEOZED, type 5SE with short-circuit current $I_k = 1$ kA	A	10
• With 230 V miniature circuit breakers, C characteristic with short-circuit current $I_k = 400$ A	A	6
Short-circuit protection for contactors with overload relays	See "Configuring SIRIUS Innovations – Selection Data for Fuseless and Fused Load Feeders", https://support.industry.siemens.com/cs/ww/en/view/39714188	
Short-circuit protection for fuseless load feeders	See 3RA2 load feeders on page 8/4 onwards	
Control		
Solenoid coil operating range		
• AC operation	50 Hz 60 Hz	0.8 ... 1.1 x U_s 0.85 ... 1.1 x U_s
• DC operation	Up to 50 °C Up to 60 °C	0.8 ... 1.1 x U_s 0.85 ... 1.1 x U_s
Power consumption of the solenoid coils (for cold coil and 1.0 x U_s)		
• AC operation, 50/60 Hz, standard version		
- Closing	VA	27/24.3
- P.f.		0.8/0.75
- Closed	VA	4.2/3.3
- P.f.		0.25/0.25
• AC operation, 50 Hz, for USA/Canada		
- Closing	VA	26.4
- P.f. for closing		0.81
- Closed	VA	4.4
- P.f. for closed		0.24
• AC operation, 60 Hz, for USA/Canada		
- Closing	VA	31.7
- P.f. for closing		0.81
- Closed	VA	4.8
- P.f. for closed		0.25
• DC operation (closing = closed)	W	4
Permissible residual current of the electronics (with 0 signal)		
• AC operation		< 3 mA x (230 V/ U_s) ¹⁾
• DC operation		< 4 mA x (230 V/ U_s) ¹⁾
Operating times at 1.0 x U_s²⁾		
Total break time = Opening delay + Arcing time		
• AC operation		
- Closing delay	ms	9.5 ... 24
- Opening delay	ms	4 ... 14
• DC operation		
- Closing delay	ms	35 ... 50
- Opening delay	ms	7 ... 12
• Arcing time	ms	10 ... 15




¹⁾ The 3RT2916-1GA00 additional load module is recommended for higher residual currents, see page 3/118.

²⁾ The OFF-delay of the NO contact and the ON-delay of the NC contact are increased if the contactor coils are attenuated against voltage peaks (noise suppression diode 6 to 10 times; diode assembly 2 to 6 times, suppressor diode +1 ms to 5 ms; varistor +2 ms to 5 ms).

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW

		Coupling contactors		
Type		3RT201.-.HB4.	3RT201.-.JB4.	3RT201.-.KB4.
Size		S00		
Control				
Solenoid coil operating range		0.7 ... 1.25 x U_s		
Power consumption of the solenoid coils (for cold coil) Closing = Closed	At U_s 24 V DC W	2.8		
Permissible residual current of the electronics (with 0 signal)		< 6 mA x (24 V/ U_s)		
Upright mounting position		On request		
Overvoltage configuration of the solenoid coil		No overvoltage damping 	Built-in diode 	Built-in suppressor diode 
Operating times				
• Closing delay				
- ON-delay NO	ms	35 ... 60		
- OFF-delay NC	ms	25 ... 40		
• Opening delay				
- ON-delay NO	ms	7 ... 20	38 ... 65	7 ... 20
- OFF-delay NC	ms	20 ... 30	55 ... 75	20 ... 30

		Coupling contactors		
Type		3RT201.-1MB4.-0KT0	3RT201.-1VB4.	3RT201.-1SB4.
Size		S00		
Control				
Solenoid coil operating range		0.85 ... 1.85 x U_s		
Power consumption of the solenoid coils (for cold coil) Closing = Closed	At U_s 24 V DC W	1.6		
Permissible residual current, upright mounting position		On request		
Overvoltage configuration of the solenoid coil		No overvoltage damping 	Built-in diode 	Built-in suppressor diode 
Operating times				
• Closing delay				
- ON-delay NO	ms	25 ... 90		
- OFF-delay NC	ms	15 ... 80		
• Opening delay				
- ON-delay NO	ms	5 ... 20	20 ... 80	5 ... 20
- OFF-delay NC	ms	10 ... 30	30 ... 90	10 ... 30

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW

Type Size	Contactors					
	3RT2015 S00	3RT2016	3RT2017	3RT2018		
Rated data of the main contacts						
Load rating with AC						
Utilization category AC-1, switching resistive loads						
• Rated operational currents I_e	At 40 °C up to 690 V	A	18	22		
	At 60 °C up to 690 V	A	16	20		
• Rated power for AC loads ¹⁾ P.f = 0.95 (at 60 °C)	230 V	kW	6	7.5		
	400 V	kW	10.5	13		
	690 V	kW	18	22		
• Minimum conductor cross-section for loads with I_e	At 40 °C	mm ²	2.5	4		
	At 60 °C	mm ²	2.5			
Utilization categories AC-2 and AC-3						
• Rated operational currents I_e	Up to 400 V	A	7	9	12	16
	440 V	A	7	9	11	14
	500 V	A	6	7.7	9.2	12.4
	690 V	A	4.9	6.7		8.9
• Rated power for slipping or squirrel-cage motors at 50 and 60 Hz	At 230 V	kW	1.5	2.2	3	4
	400 V	kW	3	4	5.5	7.5
	690 V	kW	4	5.5		7.5
Thermal load capacity	10 s current	A	56	72	96	128
Power loss per conducting path	At $I_e/AC-3$	W	0.42	0.7	1.24	2.2
Utilization category AC-4 (at $I_a = 6 \times I_e$)²⁾						
• Maximum values						
- Rated operational current I_e	Up to 400 V	A	6.5	8.5		11.5
- Rated power for squirrel-cage motors with 50 Hz and 60 Hz	Up to 400 V	kW	3	4		5.5
• The following applies to a contact endurance of about 200 000 operating cycles:						
- Rated operational currents I_e	Up to 400 V	A	2.6	4.1		5.5
	690 V	A	1.8	3.3		4.4
- Rated power for squirrel-cage motors with 50 Hz and 60 Hz	At 230 V	kW	0.67	1.1		1.5
	400 V	kW	1.15	2		2.5
	690 V	kW	1.15	2.5		3.5

¹⁾ Industrial furnaces and electric heaters with resistance heating, etc. (increased power consumption on heating up has been taken into account).

²⁾ The data applies to 3RT2516 and 3RT2517 contactors (2 NO + 2 NC) up to a rated operational voltage of 400 V only.

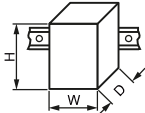
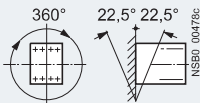

Type Size	Contactors		
	3RT2015 S00	3RT2016 to 3RT2018	
Rated data of main contacts (continued)			
Load rating with DC			
Utilization category DC-1, switching resistive loads ($L/R \leq 1$ ms)			
• Rated operational currents I_e (at 60 °C)			
- 1 conducting path	Up to 24 V A	15	20
	60 V A	15	20
	110 V A	1.5	2.1
	220 V A	0.6	0.8
	440 V A	0.42	0.6
	600 V A	0.42	0.6
- 2 conducting paths in series	Up to 24 V A	15	20
	60 V A	15	20
	110 V A	8.4	12
	220 V A	1.2	1.6
	440 V A	0.6	0.8
	600 V A	0.5	0.7
- 3 conducting paths in series	Up to 24 V A	15	20
	60 V A	15	20
	110 V A	15	20
	220 V A	15	20
	440 V A	0.9	1.3
	600 V A	0.7	1
Utilization category DC-3/DC-5, shunt-wound and series-wound motors ($L/R \leq 15$ ms)			
• Rated operational currents I_e (at 60 °C)			
- 1 conducting path	Up to 24 V A	15	20
	60 V A	0.35	0.5
	110 V A	0.1	0.15
	220 V A	--	
	440 V A	--	
	600 V A	--	
- 2 conducting paths in series	Up to 24 V A	15	20
	60 V A	3.5	5
	110 V A	0.25	0.35
	220 V A	--	
	440 V A	--	
	600 V A	--	
- 3 conducting paths in series	Up to 24 V A	15	20
	60 V A	15	20
	110 V A	15	20
	220 V A	1.2	1.5
	440 V A	0.14	0.2
	600 V A	0.14	0.2
Switching frequency			
Switching frequency z in operating cycles/hour			
Contactors without overload relays			
• No-load switching frequency	AC/DC	h^{-1}	10 000
• Switching frequency z during rated operation ¹⁾			
- $I_e/AC-1$	At 400 V	h^{-1}	1 000
- $I_e/AC-2$	At 400 V	h^{-1}	750
- $I_e/AC-3$	At 400 V	h^{-1}	750
- $I_e/AC-4$	At 400 V	h^{-1}	250
Contactors with overload relays			
• Mean value		h^{-1}	15

¹⁾ Dependence of the switching frequency z' on the operational current I' and operational voltage U' :
 $z' = z \cdot (I_e/I') \cdot (U_e/U')^{1.5} \cdot 1/h$.

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW

Type	Contactors	
Size	3RT2015 to 3RT2018	
S00		
Conductor cross-sections		
Main conductors, auxiliary conductors and coil terminals (1 or 2 conductors can be connected)		
• Solid or stranded	mm ²	2 x (0.5 ... 1.5) ¹⁾ ; 2 x (0.75 ... 2.5) ¹⁾ ; max. 2 x 4
• Finely stranded with end sleeve (DIN 46228-1)	mm ²	2 x (0.5 ... 1.5) ¹⁾ ; 2 x (0.75 ... 2.5) ¹⁾
• AWG cables, solid or stranded	AWG	2 x (20 ... 16) ¹⁾ ; 2 x (18 ... 14) ¹⁾ ; 2 x 12
• Terminal screw		M3 (for Pozidriv size 2; Ø 5 ... 6)
• Tightening torque	Nm	0.8 ... 1.2 (7 ... 10.3 lb.in)
Main conductors, auxiliary conductors and coil terminals²⁾ (1 or 2 conductors can be connected)		
• Operating devices ³⁾	mm	3.0 x 0.5
• Solid or stranded	mm ²	2 x (0.5 ... 4)
• Finely stranded with end sleeve (DIN 46228-1)	mm ²	2 x (0.5 ... 2.5)
• Finely stranded without end sleeve	mm ²	2 x (0.5 ... 2.5)
• AWG cables, solid or stranded	AWG	2 x (20 ... 12)
Auxiliary conductors for front and laterally mounted auxiliary switches²⁾ (1 or 2 conductors can be connected)		
• Operating devices ³⁾	mm	3.0 x 0.5
• Solid or stranded	mm ²	2 x (0.5 ... 2.5)
• Finely stranded with end sleeve (DIN 46228-1)	mm ²	2 x (0.5 ... 1.5)
• Finely stranded without end sleeve	mm ²	2 x (0.5 ... 2.5)
• AWG cables, solid or stranded	AWG	2 x (20 ... 14)
¹⁾ If two different conductor cross-sections are connected to one clamping point, both cross-sections must lie in one of the ranges specified.		
²⁾ Max. external diameter of the cable insulation: 3.6 mm. On spring-type terminals with conductor cross-sections ≤ 1 mm ² , an insulation stop must be used, see page 3/119 .		
³⁾ Tool for opening the spring-type terminals, see page 3/119 .		

Type Size	Contactors	
	3RT2023 to 3RT2025 S0	3RT2026 to 3RT2028
General data		
Dimensions (W x H x D)		
AC operation		
<ul style="list-style-type: none"> Basic unit <ul style="list-style-type: none"> Screw terminals Spring-type terminals Basic unit with mounted auxiliary switch block <ul style="list-style-type: none"> Screw terminals Spring-type terminals Basic unit with mounted function module or solid-state time-delayed auxiliary switch block <ul style="list-style-type: none"> Screw terminals Spring-type terminals 		mm 45 x 85 x 97 mm 45 x 102 x 97 mm 45 x 85 x 141 mm 45 x 102 x 145 mm 45 x 85 x 171 mm 45 x 102 x 171
DC operation		
<ul style="list-style-type: none"> Basic unit <ul style="list-style-type: none"> Screw terminals Spring-type terminals Basic unit with mounted auxiliary switch block <ul style="list-style-type: none"> Screw terminals Spring-type terminals Basic unit with mounted function module or solid-state time-delayed auxiliary switch block <ul style="list-style-type: none"> Screw terminals Spring-type terminals 		mm 45 x 85 x 107 mm 45 x 102 x 107 mm 45 x 85 x 151 mm 45 x 102 x 155 mm 45 x 85 x 181 mm 45 x 102 x 181
Permissible mounting position		
The contactors are designed for operation on a vertical mounting surface.		
		
Upright mounting position		
 Special version required, also applies to 3RT202.-. coupling contactors K.40		
Mechanical endurance		
<ul style="list-style-type: none"> Basic unit and basic unit with mounted auxiliary switch block 	Operating cycles	10 million
<ul style="list-style-type: none"> Basic unit with solid-state compatible auxiliary switch block 	Operating cycles	5 million
Electrical endurance		
For contact endurance of the main contacts, see page 3/21 .		
Rated insulation voltage U_i (pollution degree 3)	V	690
Rated impulse withstand voltage U_{imp}	kV	6
Protective separation between the coil and the main contacts (according to IEC 60947-1, Appendix N)	V	400
Mirror contacts		
A mirror contact is an auxiliary NC contact that cannot be closed simultaneously with an NO main contact.		
<ul style="list-style-type: none"> Integrated auxiliary switches 		Yes, acc. to IEC 60947-4-1, Appendix F
<ul style="list-style-type: none"> 3RT2.2. (removable auxiliary switch block) 		Yes, acc. to IEC 60947-4-1, Appendix F
Permissible ambient temperature		
<ul style="list-style-type: none"> During operation 	°C	-25 ... +60
<ul style="list-style-type: none"> During storage 	°C	-55 ... +80
Degree of protection acc. to IEC 60529		
<ul style="list-style-type: none"> On front 		IP20 (screw terminals and spring-type terminals)
<ul style="list-style-type: none"> Connecting terminal 		IP20 (screw terminals and spring-type terminals)
Touch protection acc. to IEC 60529		Finger-safe (screw terminals and spring-type terminals)
Shock resistance		
<ul style="list-style-type: none"> Rectangular pulse <ul style="list-style-type: none"> AC operation DC operation 	g/ms g/ms	7.5/5 and 4.7/10 10/5 and 7.5/10
<ul style="list-style-type: none"> Sine pulse <ul style="list-style-type: none"> AC operation DC operation 	g/ms g/ms	11.8/5 and 7.4/10 15/5 and 10/10
		8.3/5 and 5.3/10 13.5/5 and 8.3/10

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW

Type Size	Contactors			
	3RT2023 to 3RT2025	3RT2026	3RT2027, 3RT2028	
Short-circuit protection				
Main circuit				
<ul style="list-style-type: none"> Fuse links, operational class gG: LV HRC, type 3NA; DIAZED, type 5SB; NEOZED, type 5SE acc. to IEC 60947-4-1/EN 60947-4-1 	A	63	100	125
- Type of coordination "1"	A	25	35	50
- Type of coordination "2"	A	10	16	
- Weld-free (test conditions according to IEC 60947-4-1)	A	25	32	40
<ul style="list-style-type: none"> Miniature circuit breaker with C characteristic (short-circuit current 3 kA, type of coordination "1") 	A	25		
Auxiliary circuit				
<ul style="list-style-type: none"> Fuse links, operational class gG: DIAZED, type 5SB; NEOZED, type 5SE (weld-free protection at $I_k \leq 1$ kA) 	A	10		
<ul style="list-style-type: none"> 230 V miniature circuit breakers, C characteristic (short-circuit current $I_k < 400$ A) 	A	10		
Short-circuit protection for contactors with overload relays	See Configuration Manual "Configuring SIRIUS Innovations – Selection Data for Fuseless and Fused Load Feeders", https://support.industry.siemens.com/cs/ww/en/view/39714188			
Short-circuit protection for fuseless load feeders	See 3RA2 load feeders on page 8/4 onwards			

Type Size	Contactors					
	3RT2023 to 3RT2025	3RT2026 to 3RT2028	3RT202..-NB3	3RT202..-NF3..	3RT202..-NP3	
Control						
Type of operating mechanism						
	AC/DC	AC or DC	AC/DC			
Solenoid coil operating range						
	AC/DC	0.8 ... 1.1 x $U_s^{1)}$	0.7 ... 1.3 x $U_s^{2)}$			
Power consumption of the solenoid coils (for cold coil and 1.0 x U_s)						
<ul style="list-style-type: none"> AC operation, 50 Hz, standard version 						
- Closing	VA	65	77	6.6	11.9	12.7
- P.f.		0.82		0.98		
- Closed	VA	7.6	9.8	1.9	1.6	3.9
- P.f.		0.25		0.86	0.79	0.51
<ul style="list-style-type: none"> AC operation, 50/60 Hz, standard version 						
- Closing	VA	68/67	81/79	6.6/6.7	11.9/12.0	12.7/14.7
- P.f.		0.72/0.74		0.98/0.98		
- Closed	VA	7.9/6.5	10.5/8.5	1.9/2.0	1.6/1.8	3.9/4.3
- P.f.		0.25/0.28		0.86/0.82	0.79/0.74	0.51/0.56
<ul style="list-style-type: none"> AC operation, 50 Hz, for USA/Canada 						
- Closing	VA	65	77	--		
- P.f.		0.82	0.82	--		
- Closed	VA	7.6	9.8	--		
- P.f.		0.25	0.28	--		
<ul style="list-style-type: none"> AC operation, 60 Hz, for USA/Canada 						
- Closing	VA	73	87	--		
- P.f.		0.76		--		
- Closed	VA	7.2	9.4	--		
- P.f.		0.28		--		
<ul style="list-style-type: none"> DC operation (closing = closed) 						
	W	5.9/5.9		5.9/1.4	10.2/1.3	14.3/1.9
Permissible residual current of the electronics (with 0 signal)						
• AC operation	mA	< 6 mA x (230 V/ U_s)		< 7 mA x (230 V/ U_s)		
• DC operation	mA	< 16 mA x (24 V/ U_s)				
Operating times at 1.0 x $U_s^{3)}$						
<ul style="list-style-type: none"> AC operation 						
- Closing delay	ms	10 ... 18	10 ... 17	65 ... 80	50 ... 70	60 ... 80
- Opening delay	ms	4 ... 16		30 ... 45	35 ... 45	30 ... 50
<ul style="list-style-type: none"> DC operation 						
- Closing delay	ms	55 ... 80		60 ... 80	56 ... 70	60 ... 80
- Opening delay	ms	16 ... 17		30 ... 45	35 ... 45	30 ... 50
<ul style="list-style-type: none"> Arcing time 						
	ms	10				


1) Coil operating range
- at 50 Hz: 0.8 to 1.1 x U_s
- at 60 Hz: 0.85 to 1.1 x U_s .

2) The following applies to $U_{s,max} = 280$ V: Upper limit = 1.1 x $U_{s,max}$.

3) The OFF-delay of the NO contact and the ON-delay of the NC contact are increased if the contactor coils are attenuated against voltage peaks (varistor +2 ms to 5 ms, diode assembly: 2 to 6 times).

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW

		Coupling contactors 3RT202.-.KB4. S0	
Type			
Size			
Control			
Solenoid coil operating range		0.7 ... 1.25 x U_s	
Power consumption of the solenoid coils (for cold coil) Closing = Closed	At U_s 24 V DC W	4.5	
Permissible residual current of the electronics (with 0 signal)		< 10 mA x (24 V/ U_s)	
Overvoltage configuration of the solenoid coil		Built-in varistor  U	
Operating times			
• Closing delay			
- ON-delay NO	ms	65 ... 90	
- OFF-delay NC	ms	55 ... 80	
• Opening delay			
- ON-delay NO	ms	19 ... 21	
- OFF-delay NC	ms	25 ... 31	

		Contactors					
		3RT2023	3RT2024	3RT2025	3RT2026	3RT2027	3RT2028
Type							
Size		S0					
Rated data of the main contacts							
Load rating with AC							
Utilization category AC-1, switching resistive loads							
• Rated operational current I_e	At 40 °C up to 690 V A	40				50	
	At 60 °C up to 690 V A	35				42	
• Rated power for AC loads ¹⁾ P.f = 0.95 (at 60 °C)	230 V kW	13.3				15.5	
	400 V kW	23				27.5	
	690 V kW	40				47.5	
• Minimum conductor cross-section for loads with I_e	At 40 °C mm ²	10					
	At 60 °C mm ²	10					
Utilization categories AC-2 and AC-3							
• Rated operational currents I_e	Up to 400 V A	9	12	17	25	32	38
	440 V A	9	12	17	22	32	35
	500 V A	9	12	17	18	32	
	690 V A	9		13		21	
• Rated power for slipring or squirrel-cage motors at 50 and 60 Hz	At 230 V kW	2.2	3	4	5.5	7.5	11
	400 V kW	4	5.5	7.5	11	15	18.5
	690 V kW	7.5		11		18.5	
Thermal load capacity	10 s current A	80	110	150	200	260	300
Power loss per conducting path	At I_e /AC-3 W	0.4	0.5	0.9	1.6	2.7	3.8
Utilization category AC-4 (for $I_a = 6 \times I_e$)							
• Maximum values:							
- Rated operational current I_e	Up to 400 V A	8.5	12.5	15.5		22	
- Rated power for squirrel-cage motors with 50 Hz and 60 Hz	At 400 V kW	4	5.5	7.5		11	
• The following applies to a contact endurance of about 200 000 operating cycles:							
- Rated operational currents I_e	Up to 400 V A	4.1	5.5	7.7	9	12	
	690 V A	3.3	5.5	7.7	9	12	
- Rated power for squirrel-cage motors with 50 Hz and 60 Hz	At 110 V kW	0.5	0.73	1	1.2	1.6	
	230 V kW	1.1	1.5	2	2.5	3.4	
	400 V kW	2	2.6	3.5	4.4	6	
	690 V kW	2.5	4.6	6	7.7	10.3	

¹⁾ Industrial furnaces and electric heaters with resistance heating, etc.
(increased power consumption on heating up has been taken into account).

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW

Type Size	Contactors	
	3RT2023 to 3RT2025	3RT2026 to 3RT2028
Rated data of main contacts (continued)		
Load rating with DC		
Utilization category DC-1, switching resistive loads ($L/R \leq 1$ ms)		
• Rated operational currents I_e (at 60 °C)		
- 1 conducting path	Up to 24 V A	35
	60 V A	20
	110 V A	4.5
	220 V A	1
	440 V A	0.4
	600 V A	0.25
- 2 conducting paths in series	Up to 24 V A	35
	60 V A	35
	110 V A	35
	220 V A	5
	440 V A	1
	600 V A	0.8
- 3 conducting paths in series	Up to 24 V A	35
	60 V A	35
	110 V A	35
	220 V A	35
	440 V A	2.9
	600 V A	1.4
Utilization category DC-3/DC-5, shunt-wound and series-wound motors ($L/R \leq 15$ ms)		
• Rated operational currents I_e (at 60 °C)		
- 1 conducting path	Up to 24 V A	20
	60 V A	5
	110 V A	2.5
	220 V A	1
	440 V A	0.09
	600 V A	0.06
- 2 conducting paths in series	Up to 24 V A	35
	60 V A	35
	110 V A	15
	220 V A	3
	440 V A	0.27
	600 V A	0.16
- 3 conducting paths in series	Up to 24 V A	35
	60 V A	35
	110 V A	35
	220 V A	10
	440 V A	0.6
	600 V A	0.6
Switching frequency		
Switching frequency z in operating cycles/hour		
Contactors without overload relays		
• No-load switching frequency	AC h ⁻¹	5 000
	DC h ⁻¹	1 500
• Switching frequency z during rated operation ¹⁾		
- $I_e/AC-1$	At 400 V h ⁻¹	1 000
- $I_e/AC-2$	At 400 V h ⁻¹	1 000
- $I_e/AC-3$	At 400 V h ⁻¹	1 000
- $I_e/AC-4$	At 400 V h ⁻¹	300
		750
		750
		250
Contactors with overload relays		
• Mean value	h ⁻¹	15

¹⁾ Dependence of the switching frequency z' on the operational current I_e' and operational voltage U' :
 $z' = z \cdot (I_e'/I_e) \cdot (U_e/U')^{1.5} \cdot 1/h$.

Type Size	Contactors 3RT2023 to 3RT2028 S0	
Conductor cross-sections		
Main conductors (1 or 2 conductors can be connected)		
• Solid or stranded	mm ²	2 x (1 ... 2.5) ¹⁾ ; 2 x (2.5 ... 10) ¹⁾
• Finely stranded with end sleeve (DIN 46228-1)	mm ²	2 x (1 ... 2.5) ¹⁾ ; 2 x (2.5 ... 6) ¹⁾ ; 1 x 10
• AWG cables, solid or stranded	AWG	2 x (16 ... 12) ¹⁾ ; 2 x (14 ... 8) ¹⁾
• Terminal screws - Tightening torque	Nm	M4 (for Pozidriv size 2; Ø 5 ... 6) 2 ... 2.5 (18 ... 22 lb.in)
Auxiliary conductors (1 or 2 conductors can be connected)		
• Solid or stranded	mm ²	2 x (0.5 ... 1.5) ¹⁾ ; 2 x (0.75 ... 2.5) ¹⁾
• Finely stranded with end sleeve (DIN 46228-1)	mm ²	2 x (0.5 ... 1.5) ¹⁾ ; 2 x (0.75 ... 2.5) ¹⁾
• AWG cables, solid or stranded	AWG	2 x (20 ... 16) ¹⁾ ; 2 x (18 ... 14) ¹⁾
• Terminal screws - Tightening torque	Nm	M3 (for Pozidriv size 2; Ø 5 ... 6) 0.8 ... 1.2 (7 ... 10.3 lb.in)
Main conductors²⁾ (1 or 2 conductors can be connected)		
• Operating devices ³⁾	mm	3.0 x 0.5
• Solid or stranded	mm ²	2 x (1 ... 10)
• Finely stranded with end sleeve (DIN 46228-1)	mm ²	2 x (1 ... 6)
• Finely stranded without end sleeve	mm ²	2 x (1 ... 6)
• AWG cables, solid or stranded	AWG	2 x (18 ... 8)
Auxiliary conductors²⁾ (1 or 2 conductors can be connected)		
• Operating devices ³⁾		3.0 x 0.5
• Solid or stranded	mm ²	2 x (0.5 ... 2.5)
• Finely stranded with end sleeve (DIN 46228-1)	mm ²	2 x (0.5 ... 1.5)
• Finely stranded without end sleeve	mm ²	2 x (0.5 ... 2.5)
• AWG cables, solid or stranded	AWG	2 x (20 ... 14)

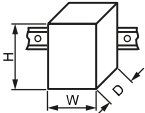
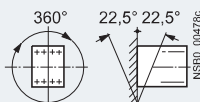

¹⁾ If two different conductor cross-sections are connected to one clamping point, both cross-sections must lie in one of the ranges specified.

²⁾ Max. external diameter of the cable insulation: 3.6 mm.
On spring-type terminals with conductor cross-sections ≤ 1 mm², an insulation stop must be used, see page 3/119.

³⁾ Tool for opening the spring-type terminals, see page 3/119.



Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW

Type Size	Contactors				
	3RT2035	3RT2036	3RT2037	3RT2038	
General data					
Dimensions (W x H x D)					
<ul style="list-style-type: none"> Basic units <ul style="list-style-type: none"> Screw/spring-type terminals Basic unit with mounted auxiliary switch block <ul style="list-style-type: none"> Screw terminals Spring-type terminals Basic unit with mounted function module or solid-state time-delayed auxiliary switch block <ul style="list-style-type: none"> Screw/spring-type terminals 		mm	55 x 114 x 130		
		mm	55 x 114 x 174		
		mm	55 x 114 x 178		
		mm	55 x 114 x 204		
Permissible mounting position					
The contactors are designed for operation on a vertical mounting surface.					
Upright mounting position					Special version required
Mechanical endurance					
<ul style="list-style-type: none"> Basic units and basic units with mounted auxiliary switch block 	Operating cycles		10 million		
<ul style="list-style-type: none"> Basic units with solid-state compatible auxiliary switch block 	Operating cycles		5 million		
Electrical endurance					
For contact endurance of the main contacts, see page 3/22 onwards.					
Rated insulation voltage U_i (pollution degree 3)	V		690		
Rated impulse withstand voltage U_{imp}	kV		6		
Protective separation between the coil and the main contacts (according to IEC 60947-1, Appendix N)	V		400		
Mirror contacts					
A mirror contact is an auxiliary NC contact that cannot be closed simultaneously with an NO main contact.					
<ul style="list-style-type: none"> Integrated auxiliary switches 3RT2.3. (removable auxiliary switch block) 			Yes, acc. to IEC 60947-4-1, Appendix F		
			Yes, acc. to IEC 60947-4-1, Appendix F		
Permissible ambient temperature					
<ul style="list-style-type: none"> During operation 	°C		-25 ... +60		
<ul style="list-style-type: none"> During storage 	°C		-55 ... +80		
Degree of protection acc. to IEC 60529					
<ul style="list-style-type: none"> On front 			IP20		
<ul style="list-style-type: none"> Connecting terminal 			IP00 (for higher degree of protection, use additional terminal covers)		
Touch protection acc. to IEC 60529					Finger-safe for vertical touching from the front
Shock resistance					
<ul style="list-style-type: none"> Rectangular pulse <ul style="list-style-type: none"> AC operation DC operation Sine pulse <ul style="list-style-type: none"> AC operation DC operation 	g/ms		11.8/5 and 7.4/10		
	g/ms		7.7/5 and 4.5/10		
	g/ms		18.5/5 and 11.6/10		
	g/ms		12/5 and 7/10		
Short-circuit protection					
Main circuit					
<ul style="list-style-type: none"> Fuse links, operational class gG: LV HRC, type 3NA; DIAZED, type 5SB; NEOZED, type 5SE acc. to IEC 60947-4-1/EN 60947-4-1 Type of coordination "1" Type of coordination "2" Weld-free (test conditions according to IEC 60947-4-1) 		A	160	250	160
		A	80	125	
		A	16	25	50
Auxiliary circuit					
<ul style="list-style-type: none"> Fuse links, operational class gG: DIAZED, type 5SB; NEOZED, type 5SE (weld-free protection at $I_k \leq 1$ kA) 	A		10		
<ul style="list-style-type: none"> 230 V miniature circuit breakers, C characteristic (short-circuit current $I_k < 400$ A) 	A		10		
Short-circuit protection for contactors with overload relays					See Configuration Manual "Configuring SIRIUS Innovations – Selection Data for Fuseless and Fused Load Feeders", https://support.industry.siemens.com/cs/ww/en/view/39714188
Short-circuit protection for fuseless load feeders					See 3RA2 load feeders on page 8/4 onwards

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW

Type Size	Control	3RT203.-.A... S2	3RT203.-.N.3.	Coupling contactors 3RT203.-.KB4.
Type of operating mechanism		AC	AC/DC	DC
Solenoid coil operating range				
• AC operation ¹⁾		0.8 ... 1.1 x U _s	--	--
• AC/DC operation ¹⁾		--	0.8 ... 1.1 x U _s	--
• DC operation		--	--	0.8 ... 1.2 x U _s
Power consumption of the solenoid coils (for cold coil and 1.0 x U _s)				
• AC operation, 50 Hz, standard version				
- Closing	VA	190	--	
- P.f.		0.72	--	
- Closed	VA	16	--	
- P.f.		0.37	--	
• AC operation, 50/60 Hz, standard version				
- Closing	VA	210/188	--	
- P.f.		0.69/0.65	--	
- Closed	VA	17.2/16.5	--	
- P.f.		0.36/0.39	--	
• AC operation, 50/60 Hz, for USA/Canada				
- Closing	VA	212/188	--	
- P.f.		0.67/0.65	--	
- Closed	VA	18.5/16.5	--	
- P.f.		0.37/0.39	--	
• AC/DC operation				
- Closing for AC operation	VA	--	40	--
- P.f.		--	0.64/0.5	--
- Closed for AC operation	VA	--	2	--
- P.f.		--	0.36/0.39	--
• DC operation				
- Closing for DC operation	W	--	23 ²⁾	
- Closed for DC operation	W	--	1	1
Permissible residual current of the electronics (with 0 signal)				
• AC/DC operation	mA	--	< 20	--
• DC operation	mA	--	--	< 20
Overvoltage configuration of the solenoid coil		--	Built-in varistor 	Built-in varistor 
Operating times at 0.7 ... 1.25 x U_s³⁾ Total break time = Opening delay + Arcing time				
• DC operation				
- Closing delay	ms	--	--	45 ... 60
- Opening delay	ms	--	--	35 ... 55
Operating times at 1.0 x U_s³⁾				
• AC operation				
- Closing delay	ms	12 ... 22	50 ... 60	--
- Opening delay	ms	10 ... 18	40 ... 50	--
• DC operation				
- Closing delay	ms	--	45 ... 55	
- Opening delay	ms	--	40 ... 50	
• Arcing time		ms	10 ... 20	

¹⁾ Coil operating range
- at 50 Hz: 0.8 to 1.1 x U_s
- at 60 Hz: 0.85 to 1.1 x U_s.

²⁾ In the case of DC coils, increased starting currents (2.6 A on average) occur during the first 200 ms. For direct control from a PLC, we recommend special 3RT203.-.KB4. coupling contactors with adapted power consumption, suitable for a PLC output current of 2 A (see page 3/64).

³⁾ The OFF-delay of the NO contact and the ON-delay of the NC contact are increased if the contactor coils are attenuated against voltage peaks (varistor +2 ms to 5 ms, diode assembly: 2 to 6 times).

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW

Type Size	Contactors				
	3RT2035 S2	3RT2036	3RT2037	3RT2038	
Rated data of the main contacts					
Load rating with AC					
Utilization category AC-1, switching resistive load					
• Rated operational current I_e	At 40 °C up to 690 V A At 60 °C up to 690 V A	60 55	70 60	80 70	90 80
• Rated power for AC loads ¹⁾ P.f. = 0.95 (at 60 °C)	230 V kW 400 V kW 690 V kW	23 39 68	26 46 79	30 53 91	34 59 102
• Minimum conductor cross-section for loads with I_e	At 40 °C mm ² At 60 °C mm ²	16 16	25	25	35
Utilization categories AC-2 and AC-3					
• Rated operational currents I_e	Up to 400 V A 440 V A 500 V A 690 V A	40 40 40 24	50 50 50	65 65 65 47	80 80 80 58
• Rated power for slipping or squirrel-cage motors at 50 and 60 Hz	At 230 V kW 400 V kW 690 V kW	11 18.5 22	15 22	18.5 30 37	22 37 45
Thermal load capacity	10 s current A	400	420	520	640
Power loss per conducting path	At $I_e/AC-3$ W	2.2	4	3.8	5.7
Utilization category AC-4 (for $I_a = 6 \times I_e$)					
• Maximum values					
- Rated operational current I_e	Up to 400 V A	35	41	55	
- Rated power for squirrel-cage motors with 50 Hz and 60 Hz	At 400 V kW	18.5	22	30	
• The following applies to a contact endurance of about 200 000 operating cycles:					
- Rated operational currents I_e	Up to 400 V A 690 V A	22 18.5	24 20	28 22	30 24
- Rated power for squirrel-cage motors with 50 Hz and 60 Hz	At 110 V kW 230 V kW 400 V kW 690 V kW	3.2 6.7 11.6 16.8	3.5 7.3 12.6 18.2	4.1 8.5 14.7 20	4.3 9.1 15.8 21.8

¹⁾ Industrial furnaces and electric heaters with resistance heating, etc. (increased power consumption on heating up has been taken into account).

Type Size	Contactors			
	3RT2035 S2	3RT2036	3RT2037	3RT2038
Rated data of main contacts (continued)				
Load rating with DC				
Utilization category DC-1, switching resistive loads ($L/R \leq 1$ ms)				
• Rated operational currents I_e (at 60 °C)				
- 1 conducting path	Up to 24 V A	55		
	60 V A	23		
	110 V A	4.5		
	220 V A	1		
	440 V A	0.4		
	600 V A	0.25		
- 2 conducting paths in series	Up to 24 V A	55		
	60 V A	45		
	110 V A	45		
	220 V A	5		
	440 V A	1		
	600 V A	0.8		
- 3 conducting paths in series	Up to 24 V A	55		
	60 V A	55		
	110 V A	55		
	220 V A	45		
	440 V A	2.9		
	600 V A	1.4		
Utilization category DC-3/DC-5, shunt-wound and series-wound motors ($L/R \leq 15$ ms)				
• Rated operational currents I_e (at 60 °C)				
- 1 conducting path	Up to 24 V A	35		
	60 V A	6		
	110 V A	2.5		
	220 V A	1		
	440 V A	0.1		
	600 V A	0.06		
- 2 conducting paths in series	Up to 24 V A	55		
	60 V A	45		
	110 V A	25		
	220 V A	5		
	440 V A	0.27		
	600 V A	0.16		
- 3 conducting paths in series	Up to 24 V A	55		
	60 V A	55		
	110 V A	55		
	220 V A	25		
	440 V A	0.6		
	600 V A	0.35		
Switching frequency				
Switching frequency z in operating cycles/hour				
Contactors without overload relays				
• No-load switching frequency	AC	h ⁻¹	5 000	
	AC/DC	h ⁻¹	1 500	
• Switching frequency z during rated operation ¹⁾				
- $I_e/AC-1$	At 400 V	h ⁻¹	1 200	1 000
- $I_e/AC-2$	At 400 V	h ⁻¹	750	600
- $I_e/AC-3$	At 400 V	h ⁻¹	1 000	800
- $I_e/AC-4$	At 400 V	h ⁻¹	300	250
Contactors with overload relays				
• Mean value		h ⁻¹	15	

¹⁾ Dependence of the switching frequency z' on the operational current I_e' and operational voltage U' :
 $z' = z \cdot (I_e'/I_e) \cdot (U_e'/U_e)^{1.5} \cdot 1/h$.

Power Contactors for Switching Motors

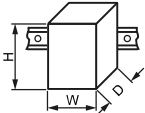
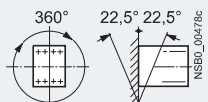

SIRIUS 3RT contactors, 3-pole up to 250 kW

Type	Contactors	
Size	3RT2035 to 3RT2038	
Conductor cross-sections		
Main conductors (1 or 2 conductors can be connected)		
• Solid or stranded	mm ²	2 x (1 ... 35) ¹⁾ ; 1 x (1 ... 50) ¹⁾
• Finely stranded with end sleeve (DIN 46228-1)	mm ²	2 x (1 ... 25) ¹⁾ ; 1 x (1 ... 35) ¹⁾
• AWG cables, solid or stranded	AWG	2 x (18 ... 2) ¹⁾ ; 1 x (18 ... 1) ¹⁾
• Terminal screws - Tightening torque	Nm	Pozidriv size 2; Ø 5 ... 6 3 ... 4.5 (27 ... 40 lb.in)
Auxiliary and control conductors (1 or 2 conductors can be connected)		
• Solid or stranded	mm ²	2 x (0.5 ... 1.5) ¹⁾ ; 2 x (0.75 ... 2.5) ¹⁾
• Finely stranded with end sleeve (DIN 46228-1)	mm ²	2 x (0.5 ... 1.5) ¹⁾ ; 2 x (0.75 ... 2.5) ¹⁾
• AWG cables, solid or stranded	AWG	2 x (20 ... 16) ¹⁾ ; 2 x (18 ... 14) ¹⁾
• Terminal screws - Tightening torque	Nm	M3 (for Pozidriv size 2; Ø 5 ... 6) 0.8 ... 1.2 (7 ... 10.3 lb.in)
Auxiliary and control conductors²⁾ (1 or 2 conductors can be connected)		
• Operating devices ³⁾	mm	3.0 x 0.5
• Solid or stranded	mm ²	2 x (0.5 ... 2.5)
• Finely stranded with end sleeve (DIN 46228-1)	mm ²	2 x (0.5 ... 1.5)
• Finely stranded without end sleeve	mm ²	2 x (0.5 ... 2.5)
• AWG cables, solid or stranded	AWG	2 x (20 ... 14)

¹⁾ If two different conductor cross-sections are connected to one clamping point, both cross-sections must lie in one of the ranges specified.



²⁾ Max. external diameter of the cable insulation: 3.6 mm.
On spring-type terminals with conductor cross-sections ≤ 1 mm², an insulation stop must be used, [see page 3/119](#).

³⁾ Tool for opening the spring-type terminals, [see page 3/119](#).

Type Size	Contactors		
	3RT2045 S3	3RT2046	3RT2047
General data			
Dimensions (W x H x D)			
<ul style="list-style-type: none"> Basic unit <ul style="list-style-type: none"> Screw/spring-type terminals Basic unit with mounted auxiliary switch block <ul style="list-style-type: none"> Screw terminals Spring-type terminals Basic unit with mounted function module or solid-state time-delayed auxiliary switch block <ul style="list-style-type: none"> Screw/spring-type terminals 		mm	70 x 140 x 152
		mm	70 x 140 x 196
		mm	70 x 140 x 200
mm	70 x 140 x 226		
Permissible mounting position			
The contactors are designed for operation on a vertical mounting surface.			
Upright mounting position		 NSB0_00477a Special version required	
Mechanical endurance			
<ul style="list-style-type: none"> Basic units and basic units with mounted auxiliary switch block 	Operating cycles	10 million	
<ul style="list-style-type: none"> Basic units with solid-state compatible auxiliary switch block 	Operating cycles	5 million	
Electrical endurance			
For contact endurance of the main contacts, see page 3/22.			
Rated insulation voltage U_i (pollution degree 3)	V	1 000 (3RT20...-0CC0: 690)	
Rated impulse withstand voltage U_{imp}	kV	6	
Protective separation between the coil and the main contacts (according to IEC 60947-1, Appendix N)	V	400	
Mirror contacts			
A mirror contact is an auxiliary NC contact that cannot be closed simultaneously with an NO main contact.			
<ul style="list-style-type: none"> Integrated auxiliary switches 3RT2.4. (removable auxiliary switch block) 	Yes, acc. to IEC 60947-4-1, Appendix F Yes, acc. to IEC 60947-4-1, Appendix F		
Permissible ambient temperature			
<ul style="list-style-type: none"> During operation 	°C	-25 ... +60	
<ul style="list-style-type: none"> During storage 	°C	-55 ... +80	
Degree of protection acc. to IEC 60529			
<ul style="list-style-type: none"> On the front 	IP20		
<ul style="list-style-type: none"> Connecting terminal 	IP00 (for higher degree of protection, use additional terminal covers)		
Touch protection acc. to IEC 60529			
Finger-safe for vertical touching from the front			
Shock resistance			
<ul style="list-style-type: none"> Rectangular pulse <ul style="list-style-type: none"> AC operation DC operation 	g/ms	10.3/5 and 6.7/10	
	g/ms	6.7/5 and 4.0/10 (3RT204.-.KB40: 6.3/5 and 3.6/10)	
<ul style="list-style-type: none"> Sine pulse <ul style="list-style-type: none"> AC operation DC operation 	g/ms	16.3/5 and 10.5/10	
	g/ms	10.6/5 and 6.3/10 (3RT204.-.KB40: 9.8/5 and 5.6/10)	
Short-circuit protection			
Main circuit			
<ul style="list-style-type: none"> Fuse links, operational class gG: LV HRC, type 3NA; DIAZED, type 5SB; NEOZED, type 5SE acc. to IEC 60947-4-1/EN 60947-4-1 <ul style="list-style-type: none"> Type of coordination "1" A 250 Type of coordination "2" A 160 Weld-free (test conditions according to IEC 60947-4-1) A On request 			
<ul style="list-style-type: none"> Fuse links, operational class gG: DIAZED, type 5SB; NEOZED, type 5SE (weld-free protection at $I_k \leq 1$ kA) A 10 230 V miniature circuit breakers, C characteristic (short-circuit current $I_k < 400$ A) A 10 			
Short-circuit protection for contactors with overload relays		On request	
Short-circuit protection for fuseless load feeders		See 3RA2 load feeders on page 8/4 onwards	

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW

Type Size	Contactors 3RT204.-.A... S3		3RT204.-.N.3.	Coupling contactors 3RT204.-.KB4.
Control				
Type of operating mechanism		AC	AC/DC	DC
Solenoid coil operating range				
• AC operation ¹⁾		0.8 ... 1.1 x U_s	--	--
• AC/DC operation ¹⁾		--	0.8 ... 1.1 x U_s	--
• DC operation		--	--	0.8 ... 1.2 x U_s
Power consumption of the solenoid coils (for cold coil and 1.0 x U_s)				
• AC operation, 50 Hz, standard version				
- Closing	VA	296	--	--
- P.f.		0.61	--	--
- Closed	VA	19	--	--
- P.f.		0.38	--	--
• AC operation, 50/60 Hz, standard version				
- Closing	VA	348/296	--	--
- P.f.		0.62/0.55	--	--
- Closed	VA	25/18	--	--
- P.f.		0.35/0.41	--	--
• AC operation, 50/60 Hz, for USA/Canada				
- Closing	VA	326/326	--	--
- P.f.		0.62/0.55	--	--
- Closed	VA	22/22	--	--
- P.f.		0.38/0.4	--	--
• AC/DC operation				
- Closing for AC operation	VA	--	163	--
- P.f.		--	--	--
- Closed for AC operation	VA	--	3.1	--
- P.f.		--	--	--
• DC operation				
- Closing for DC operation	W	--	76 ²⁾	25
- Closed for DC operation	W	--	1.8	0.9
Permissible residual current of the electronics (with 0 signal)				
• AC/DC operation	mA	--	< 20	--
• DC operation	mA	--	--	< 20
Overvoltage configuration of the solenoid coil				
		--	Built-in varistor 	Built-in varistor 
Operating times at 0.8 ... 1.2 x U_s³⁾				
Total break time = Opening delay + Arcing time				
• DC operation				
- Closing delay	ms	--	--	50 ... 70
- Opening delay	ms	--	--	38 ... 57
Operating times at 1.0 x U_s³⁾				
• AC operation				
- Closing delay	ms	15 ... 25	50 ... 70	--
- Opening delay	ms	11 ... 20	38 ... 57	--
• DC operation				
- Closing delay	ms	--	50 ... 70	--
- Opening delay	ms	--	38 ... 57	--
• Arcing time	ms	10 ... 20	--	--

¹⁾ Coil operating range
- at 50 Hz: 0.8 to 1.1 x U_s
- at 60 Hz: 0.85 to 1.1 x U_s .

²⁾ In the case of DC coils, increased starting currents (2.6 A on average) occur during the first 200 ms. For direct control from a PLC, we recommend special 3RT204.-.KB4. coupling contactors with adapted power consumption, suitable for a PLC output current of 2 A (see page 3/64).

³⁾ The OFF-delay of the NO contact and the ON-delay of the NC contact are increased if the contactor coils are attenuated against voltage peaks (varistor +2 ms to 5 ms, diode assembly: 2 to 6 times).

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW

Type Size	Contactors		
	3RT2045 S3	3RT2046	3RT2047
Rated data of the main contacts			
Load rating with AC			
Utilization category AC-1, switching resistive loads			
• Rated operational current I_e	At 40 °C up to 690 V A At 60 °C up to 690 V A	125 105	130 110
• Rated power for AC loads ¹⁾ P.f. = 0.95 (at 60 °C)	230 V kW 400 V kW 690 V kW	40 69 119	42 72 125
• Minimum conductor cross-section for loads with I_e	At 40 °C mm ² At 60 °C mm ²	50 35	
Utilization categories AC-2 and AC-3			
• Rated operational currents I_e	Up to 400 V A 500 V A 690 V A 1 000 V A	80 80 58 30	95 95 78 110 98
• Rated power for slipping or squirrel-cage motors at 50 and 60 Hz	At 230 V kW 400 V kW 690 V kW 1 000 V A	22 37 55 37	22 45 75 30 55 90
Thermal load capacity	10 s current A	760	880
Power loss per conducting path	At $I_e/AC-3$ W	5.3	6.6 7.9
Utilization category AC-4 (for $I_a = 6 \times I_e$)			
• Maximum values			
- Rated operational current I_e	Up to 400 V A	66	80 97
- Rated power for squirrel-cage motors with 50 Hz and 60 Hz	At 400 V kW	37	45 55
• The following applies to a contact endurance of about 200 000 operating cycles:			
- Rated operational currents I_e	Up to 400 V A 690 V A	34 24	42 30 46 36
- Rated power for squirrel-cage motors with 50 Hz and 60 Hz	At 110 V kW 230 V kW 400 V kW 690 V kW	4.9 10.4 17.9 21.8	6.1 12 22 27.4 6.7 14 24.3 32.9

¹⁾ Industrial furnaces and electric heaters with resistance heating, etc. (increased power consumption on heating up has been taken into account).

Power Contactors for Switching Motors



SIRIUS 3RT contactors, 3-pole up to 250 kW

Type Size	Contactors		
	3RT2045 S3	3RT2046	3RT2047
Rated data of main contacts (continued)			
Load rating with DC			
Utilization category DC-1, switching resistive loads ($L/R \leq 1$ ms)			
• Rated operational currents I_e (at 60 °C)			
- 1 conducting path	Up to 24 V A	100	
	60 V A	60	
	110 V A	9	
	220 V A	2	
	440 V A	0.6	
	600 V A	0.4	
- 2 conducting paths in series	Up to 24 V A	100	
	60 V A	100	
	110 V A	100	
	220 V A	10	
	440 V A	1.8	
	600 V A	1.0	
- 3 conducting paths in series	Up to 24 V A	100	
	60 V A	100	
	110 V A	100	
	220 V A	80	
	440 V A	4.5	
	600 V A	2.6	
Utilization category DC-3/DC-5, shunt-wound and series-wound motors ($L/R \leq 15$ ms)			
• Rated operational currents I_e (at 60 °C)			
- 1 conducting path	Up to 24 V A	40	
	60 V A	6	
	110 V A	2.5	
	220 V A	1	
	440 V A	0.15	
	600 V A	0.06	
- 2 conducting paths in series	Up to 24 V A	100	
	60 V A	100	
	110 V A	100	
	220 V A	7	
	440 V A	0.42	
	600 V A	0.16	
- 3 conducting paths in series	Up to 24 V A	100	
	60 V A	100	
	110 V A	100	
	220 V A	35	
	440 V A	0.8	
	600 V A	0.35	
Switching frequency			
Switching frequency z in operating cycles/hour			
Contactors without overload relays			
• No-load switching frequency	AC h ⁻¹	5 000	
	AC/DC h ⁻¹	1 000	
• Switching frequency z during rated operation ¹⁾			
- $I_e/AC-1$	At 400 V h ⁻¹	900	
- $I_e/AC-2$	At 400 V h ⁻¹	400	350
- $I_e/AC-3$	At 400 V h ⁻¹	1 000	850
- $I_e/AC-4$	At 400 V h ⁻¹	300	250
Contactors with overload relays			
• Mean value	h ⁻¹	15	200

¹⁾ Dependence of the switching frequency z' on the operational current I_e' and operational voltage U' :
 $z' = z \cdot (I_e'/I_e) \cdot (U_e/U')^{1.5} \cdot 1/h$.

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW

Type Size	Contactors		
	3RT2045 S3	3RT2046	3RT2047
Conductor cross-sections			
Main conductors (1 or 2 conductors can be connected)		 Screw terminals	
• Solid	mm ²	2 x (2.5 ... 16) ¹⁾	
• Stranded	mm ²	2 x (6 ... 16) ¹⁾ ; 2 x (10 ... 50) ¹⁾ ; 1 x (10 ... 70) ¹⁾	
• Finely stranded with end sleeve (DIN 46228-1)	mm ²	2 x (2.5 ... 35) ¹⁾ ; 1 x (2.5 ... 50) ¹⁾	
• AWG cables, solid or stranded	AWG	2 x (10 ... 1/0) ¹⁾ ; 1 x (10 ... 2/0) ¹⁾	
• Terminal screws - Tightening torque	Nm	Hexagon socket, size 4 4.5 ... 6 (40 ... 53 lb.in)	
Auxiliary and control conductors (1 or 2 conductors can be connected)			
• Solid or stranded	mm ²	2 x (0.5 ... 1.5) ¹⁾ ; 2 x (0.75 ... 2.5) ¹⁾	
• Finely stranded with end sleeve (DIN 46228-1)	mm ²	2 x (0.5 ... 1.5) ¹⁾ ; 2 x (0.75 ... 2.5) ¹⁾	
• AWG cables, solid or stranded	AWG	2 x (20 ... 16) ¹⁾ ; 2 x (18 ... 14) ¹⁾	
• Terminal screws - Tightening torque	Nm	M3 (for Pozidriv size 2; Ø 5 ... 6) 0.8 ... 1.2 (7 ... 10.3 lb.in)	
Auxiliary and control conductors²⁾ (1 or 2 conductors can be connected)		 Spring-type terminals	
• Operating devices ³⁾	mm	3.0 x 0.5	
• Solid or stranded	mm ²	2 x (0.5 ... 2.5)	
• Finely stranded with end sleeve (DIN 46228-1)	mm ²	2 x (0.5 ... 1.5)	
• Finely stranded without end sleeve	mm ²	2 x (0.5 ... 2.5)	
• AWG cables, solid or stranded	AWG	2 x (20 ... 16)	

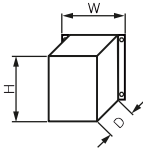
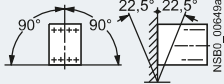
¹⁾ If two different conductor cross-sections are connected to one clamping point, both cross-sections must lie in one of the ranges specified.

²⁾ Max. external diameter of the conductor insulation: 3.6 mm.
On spring-type terminals with conductor cross-sections ≤ 1 mm², an insulation stop must be used, see page 3/119.

³⁾ Tool for opening the spring-type terminals, see page 3/119.

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW

Type		3RT1054	3RT1055, 3RT1056	3RT1064, 3RT1065, 3RT1066	3RT1075	3RT1076	
Size		S6		S10	S12		
General data							
Dimensions (W x H x D)							
<ul style="list-style-type: none"> Basic unit Basic unit with mounted auxiliary switch block 				mm	120 x 172 x 170	145 x 210 x 202	160 x 214 x 225
				mm	120 x 172 x 217	145 x 210 x 251	160 x 214 x 271
Permissible mounting position							
The contactors are designed for operation on a vertical mounting surface.							
Mechanical endurance		Operat- ing cycles	10 million				
Electrical endurance			For contact endurance of the main contacts, see page 3/22 .				
Rated insulation voltage U_i (pollution degree 3)		V	1 000				
Rated impulse withstand voltage U_{imp}		kV	8				
Protective separation between the coil and the main contacts according to IEC 60947-1, Appendix N		V	690				
Mirror contacts			Yes, acc. to IEC 60947-4-1, Appendix F				
A mirror contact is an auxiliary NC contact that cannot be closed simultaneously with an NO main contact.							
Permissible ambient temperature							
• During operation		°C	-25 ... +60				
• During storage		°C	-55 ... +80				
Degree of protection acc. to IEC 60529							
• On the front			IP00 (IP20 with box terminal/cover)				
• Connecting terminal			IP00 (for higher degree of protection, use additional terminal covers)				
Touch protection acc. to IEC 60529			Finger-safe for vertical touching from the front with cover				
Shock resistance							
• Rectangular pulse		g/ms	8.5/5 and 4.2/10				
• Sine pulse		g/ms	13.4/5 and 6.5/10				
Electromagnetic compatibility (EMC)			See page 3/17				
Short-circuit protection							
Main circuit							
Fuse links, operational class gG: LV HRC, type 3NA; DIAZED, type 5SB; NEOZED, type 5SE acc. to IEC 60947-4-1/EN 60947-4-1							
• Type of coordination "1"		A	355	500	630		
• Type of coordination "2"		A	315	400	500		
• Weld-free		A	80	160	250	315	
Auxiliary circuit							
Short-circuit test							
• With fuse links of operational class gG: DIAZED, type 5SB; NEOZED, type 5SE with short-circuit current $I_k = 1$ kA acc. to IEC 60947-5-1		A	10				
• with miniature circuit breaker with C characteristic with short-circuit current $I_k = 400$ A		A	10				
Short-circuit protection for contactors with overload relays			See Configuration Manual "Configuring SIRIUS – Selection Data for Fuseless Load Feeders", https://support.industry.siemens.com/cs/ww/en/view/40625241				

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW

Type		3RT105.	3RT106.	3RT107.
Size		S6	S10	S12
Control				
Operating range of the solenoid operating mechanism	AC/DC	0.8 x $U_{s \min}$... 1.1 x $U_{s \max}$		
Power consumption of the solenoid operating mechanism (with cold coil and rated range $U_{s \min}$... $U_{s \max}$)				
<u>Conventional operating mechanisms</u>				
• AC operation				
- Closing at $U_{s \min}$	VA/p.f.	250/0.9	490/0.9	700/0.9
- Closing at $U_{s \max}$	VA/p.f.	300/0.9	590/0.9	830/0.9
- Closed at $U_{s \min}$	VA/p.f.	4.8/0.8	5.6/0.9	7.6/0.9
- Closed at $U_{s \max}$	VA/p.f.	5.8/0.8	6.7/0.9	9.2/0.9
• DC operation				
- Closing at $U_{s \min}$	W	300	540	770
- Closing at $U_{s \max}$	W	360	650	920
- Closed at $U_{s \min}$	W	4.3	6.1	8.5
- Closed at $U_{s \max}$	W	5.2	7.4	10
<u>Solid-state operating mechanisms</u>				
• AC operation				
- Closing at $U_{s \min}$	VA/p.f.	190/0.8	400/0.8	560/0.8
- Closing at $U_{s \max}$	VA/p.f.	280/0.8	530/0.8	750/0.8
- Closed at $U_{s \min}$	VA/p.f.	3.5/0.6	5.5/0.5	5.6/0.5
- Closed at $U_{s \max}$	VA/p.f.	4.8/0.6	8.5/0.4	9/0.4
• DC operation				
- Closing at $U_{s \min}$	W	250	440	600
- Closing at $U_{s \max}$	W	320	580	800
- Closed at $U_{s \min}$	W	2.1	2.8	3
- Closed at $U_{s \max}$	W	2.8	3.4	3.6
PLC control input acc. to IEC 61131-2				
• Version				
Type 2 – suitable for signals from semiconductor switches				
• Rated voltage				
V DC 24				
• Operating range				
V DC 17 ... 30				
• Power consumption				
mA ≤ 30				
Operating times (Total break time = Opening delay + Arcing time)				
<u>Conventional operating mechanisms</u>				
• For $U_{s \min}$... $U_{s \max}$				
- Closing delay	ms	25 ... 50	35 ... 50	50 ... 70
- Opening delay	ms	40 ... 60	50 ... 80	70 ... 100
<u>Solid-state operating mechanism, actuated via A1/A2</u>				
• For $U_{s \min}$... $U_{s \max}$				
- Closing delay	ms	100 ... 120	110 ... 130	125 ... 150
- Opening delay	ms	80 ... 100		
<u>Solid-state operating mechanism, actuated via PLC input</u>				
• For $U_{s \min}$... $U_{s \max}$				
- Closing delay	ms	40 ... 60	50 ... 65	65 ... 80
- Opening delay	ms	80 ... 100		
• Arcing time				
ms 10 ... 15				

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW

Type		3RT1054	3RT1055	3RT1056	3RT1064	3RT1065	3RT1066	3RT1075	3RT1076
Size		S6			S10		S12		
Rated data of the main contacts									
Load rating with AC									
Utilization category AC-1									
Switching resistive load									
• Rated operational currents I_e									
- At 40 °C up to 690 V	A	160	185	215	275	330		430	610
- At 60 °C up to 690 V	A	140	160	185	250	300		400	550
- At 60 °C up to 1 000 V	A	80	90	100		150		200	
• Rated power for AC loads ¹⁾ with p.f. = 0.95 (at 60 °C)									
- At 230 V	kW	53	60	70	94	113		151	208
- At 400 V	kW	92	105	121	164	197		263	362
- At 500 V	kW	115	131	152	205	246		329	452
- At 690 V	kW	159	181	210	283	340		454	624
- At 1 000 V	kW	131	148	165	164	246		329	
• Minimum conductor cross-section for loads with I_e									
- At 40 °C	mm ²	70	95		150	185		2 x 150	2 x 185
- At 60 °C	mm ²	50	70	95	120	185		240	2 x 185
Utilization categories AC-2 and AC-3									
• Rated operational currents I_e									
- Up to 500 V	A	115	150	185	225	265	300	400	500
- At 690 V	A	115	150	170	225	265	280	400	450
- At 1 000 V	A	53	65		68	95		180	
• Rated power for slipping or squirrel-cage motors at 50 and 60 Hz									
- At 230 V	kW	37	50	61	73	85	97	132	164
- At 400 V	kW	64	84	104	128	151	171	231	291
- At 500 V	kW	81	105	132	160	189	215	291	363
- At 690 V	kW	113	146	167	223	265	280	400	453
- At 1 000 V	kW	75	90			132		250	
Thermal load capacity, 10 s current	A	1 100	1 300	1 480	1 800	2 400		3 200	4 000
Power loss per main conducting path at $I_e/AC-3/500 V$	W	7	9	13	17	18	22	35	55
Utilization category AC-4 (for $I_a = 6 \times I_e$)									
Maximum values:									
• Rated operational current I_e									
- Up to 400 V	A	97	132	160	195	230	280	350	430
• Rated power of squirrel-cage motors with 50 and 60 Hz									
- At 400 V	kW	55	75	90	110	132	160	200	250
The following applies to a contact endurance of about 200 000 operating cycles:									
• Rated operational currents I_e									
- Up to 500 V	A	54	68	81	96	117	125	150	175
- Up to 690 V	A	48	57	65	85	105	115	135	150
• Rated power of squirrel-cage motors with 50 and 60 Hz									
- At 230 V	kW	16	20	25	30	37	40	48	56
- At 400 V	kW	29	38	45	54	66	71	85	98
- At 500 V	kW	37	47	57	67	82	87	105	123
- At 690 V	kW	48	55	65	82	102	112	133	148

¹⁾ Industrial furnaces and electric heaters with resistance heating, etc. (increased power consumption on heating up has been taken into account).

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW

Type	3RT1054	3RT1055	3RT1056	3RT1064	3RT1065	3RT1066	3RT1075	3RT1076
Size	S6			S10			S12	

Rated data of main contacts (continued)

Load rating with DC

Utilization category DC-1,
switching resistive loads ($L/R \leq 1$ ms)• Rated operational currents I_e (at 60 °C)

- 1 conducting path	Up to 24 V A	160		200	300		400
	60 V A	160		200	300		330
	110 V A	18			33		
	220 V A	3.4			3.8		
	440 V A	0.8			0.9		
	600 V A	0.5			0.6		
- 2 conducting paths in series	Up to 24 V A	160		200	300		400
	60 V A	160		200	300		400
	110 V A	160		200	300		400
	220 V A	20			300		400
	440 V A	3.2			4		
	600 V A	1.6			2		
- 3 conducting paths in series	Up to 24 V A	160		200	300		400
	60 V A	160		200	300		400
	110 V A	160		200	300		400
	220 V A	160		200	300		400
	440 V A	11.5			11		
	600 V A	4			5.2		

Utilization category DC-3/DC-5,
shunt-wound and series-wound motors ($L/R \leq 15$ ms)• Rated operational currents I_e (at 60 °C)

- 1 conducting path	Up to 24 V A	160		200	300		400
	60 V A	7.5			11		
	110 V A	2.5			3		
	220 V A	0.6					
	440 V A	0.17			0.18		
	600 V A	0.12			0.125		
- 2 conducting paths in series	Up to 24 V A	160		200	300		400
	60 V A	160		200	300		400
	110 V A	160		200	300		400
	220 V A	2.5					
	440 V A	0.65					
	600 V A	0.37					
- 3 conducting paths in series	Up to 24 V A	160		200	300		400
	60 V A	160		200	300		400
	110 V A	160		200	300		400
	220 V A	160		200	300		400
	440 V A	1.4					
	600 V A	0.75					

Switching frequency

Switching frequency z in operating cycles/hour

Contactors without overload relays

• No-load switching frequency	h^{-1}	2 000						
- Reduced in the case of contactors with solid-state operating mechanism at $U_s = 21 \dots 27.3$ V AC/DC	h^{-1}	1 000		AC-1 values				
• Switching frequency z during rated operation ¹⁾								
- $I_e/AC-1$	At 400 V h^{-1}	800		750	800	750	700	500
- $I_e/AC-2$	At 400 V h^{-1}	400	300	250	300	250	200	170
- $I_e/AC-3$	At 400 V h^{-1}	1 000	750	500	700	500		420
- $I_e/AC-4$	At 400 V h^{-1}	130						




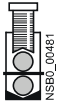

Contactors with mounted overload relay

• Mean value	h^{-1}	60						
--------------	----------	----	--	--	--	--	--	--

¹⁾ Dependence of the switching frequency z' on the operational current I_e and operational voltage U :
 $z' = z \cdot (I_e/I') \cdot (U_e/U)^{1.5} \cdot 1/h$.

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW

Type		3RT105.	3RT106.	3RT107.	
Size		S6	S10	S12	
Conductor cross-sections					
Main conductors (1 or 2 conductors connectable)					
		 Screw terminals			
<u>With mounted box terminals</u>		Type	3RT1955-4G (55 kW)	3RT1956-4G	3RT1966-4G
<ul style="list-style-type: none"> Terminal screws Tightening torque 		Nm	M10 (hexagon socket, A/F 4)		M12 (hexagon socket, A/F 5)
		lb.in	10 ... 12		20 ... 22
			90 ... 110		180 ... 195
<u>Front clamping point connected</u>					
	• Finely stranded with end sleeve (DIN 46228-1)	mm ²	16 ... 70	16 ... 120	70 ... 240
	• Finely stranded without end sleeve	mm ²	16 ... 70	16 ... 120	70 ... 240
	• Stranded	mm ²	16 ... 70	16 ... 120	95 ... 300
	• AWG cables, solid or stranded	AWG	6 ... 2/0	6 ... 250 kcmil	3/0 ... 600 kcmil
	• Ribbon cable conductors (number x width x thickness)	mm	Min. 3 x 9 x 0.8 Max. 6 x 15.5 x 0.8	Min. 3 x 9 x 0.8 Max. 10 x 15.5 x 0.8	Min. 6 x 9 x 0.8 Max. 20 x 24 x 0.5
<u>Rear clamping point connected</u>					
	• Finely stranded with end sleeve (DIN 46228-1)	mm ²	16 ... 70	16 ... 120	120 ... 185
	• Finely stranded without end sleeve	mm ²	16 ... 70	16 ... 120	120 ... 185
	• Stranded	mm ²	16 ... 70	16 ... 120	120 ... 240
	• AWG cables, solid or stranded	AWG	6 ... 2/0	6 ... 250 kcmil	250 ... 500 kcmil
	• Ribbon cable conductors (number x width x thickness)	mm	Min. 3 x 9 x 0.8 Max. 6 x 15.5 x 0.8	Min. 3 x 9 x 0.8 Max. 10 x 15.5 x 0.8	Min. 6 x 9 x 0.8 Max. 20 x 24 x 0.5
<u>Both clamping points connected (minimum cross-section 16 mm²)</u>					
	• Finely stranded with end sleeve (DIN 46228-1)	mm ²	Max. 1 x 50, 1 x 70	Max. 1 x 95, 1 x 120	Min. 2 x 50, max. 2 x 185
	• Finely stranded without end sleeve	mm ²	Max. 1 x 50, 1 x 70	Max. 1 x 95, 1 x 120	Min. 2 x 50, max. 2 x 185
	• Stranded	mm ²	Max. 1 x 50, 1 x 70	Max. 1 x 95, 1 x 120	Min. 2 x 70, max. 2 x 240
	• AWG cables, solid or stranded	AWG	Max. 2 x 1/0	Max. 2 x 3/0	Min. 2 x 2/0, Max. 2 x 500 kcmil
	• Ribbon cable conductors (number x width x thickness)	mm	Max. 2 x (6 x 15.5 x 0.8)	Max. 2 x (10 x 15.5 x 0.8)	Max. 2 x (20 x 24 x 0.5)
<u>Busbar connections</u>					
<u>Connecting bar (max. width)</u>		mm	17		25
<u>Cable lug connection</u>					
<ul style="list-style-type: none"> Finely stranded with cable lug¹⁾²⁾ Stranded with cable lug¹⁾²⁾ AWG cables, solid or stranded Terminal screws Tightening torque 		mm ²	16 ... 95	50 ... 240	50 ... 240
		mm ²	25 ... 120	70 ... 240	70 ... 240
		AWG	4 ... 250 kcmil	2/0 ... 500 kcmil	2/0 ... 500 kcmil
		Nm	M8 x 25 (A/F 13)	M10 x 30 (A/F 17)	M10 x 30 (A/F 17)
		lb.in	10 ... 14	14 ... 24	14 ... 24
			90 ... 124	124 ... 210	124 ... 210
Auxiliary conductors (1 or 2 conductors connectable)					
<ul style="list-style-type: none"> Solid Finely stranded with end sleeve (DIN 46228-1) AWG cables, solid or stranded Terminal screws Tightening torque 		mm ²	2 x (0.5 ... 1.5) ³⁾ ; 2 x (0.75 ... 2.5) ³⁾ ; max. 2 x (0.75 ... 4) ³⁾		
		mm ²	2 x (0.5 ... 1.5) ³⁾ ; 2 x (0.75 ... 2.5) ³⁾		
		AWG	2 x (18 ... 14)		
		Nm	M3 (Poziidriv size 2)		
		lb.in	0.8 ... 1.2		
			7 ... 10.3		
Auxiliary conductors⁴⁾ (1 or 2 conductors connectable)					
<ul style="list-style-type: none"> Operating devices⁵⁾ Solid Finely stranded with end sleeve (DIN 46228-1) Finely stranded without end sleeve AWG cables, solid or stranded 			 Spring-type terminals		
			3.0 x 0.5; 3.5 x 0.5		
		mm ²	2 x (0.25 ... 2.5)		
		mm ²	2 x (0.25 ... 1.5)		
		mm ²	2 x (0.25 ... 2.5)		
		AWG	2 x (24 ... 14)		

¹⁾ 3RT105.: When using cable lugs according to EN 46235, use the 3RT1956-4EA1 terminal cover for conductor cross-sections from 95 mm² to keep to the phase clearance, [see page 3/116](#).

²⁾ 3RT106. and 3RT107.: When using cable lugs according to DIN 46234, the 3RT1966-4EA1 terminal cover must be used for conductor cross-sections of 240 mm² and more and when using cable lugs in accordance with DIN 46235 for conductor cross-sections of 185 mm² and more to keep to the phase clearance, [see page 3/116](#).

³⁾ If two different conductor cross-sections are connected to one clamping point, both cross-sections must lie in one of the ranges specified.

⁴⁾ Max. external diameter of the conductor insulation: 3.6 mm. An "insulation stop" must be used for conductor cross-sections ≤ 1 mm²; [see page 3/119](#).

⁵⁾ Tool for opening the spring-type terminals, [see page 3/119](#).

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW

Data for North America

Type Size	Contactors				
	3RT2015	3RT2016	3RT2017	3RT2018	
and \mathcal{U} rated data					
Rated insulation voltage	V AC	600			
Uninterrupted current , at 40 °C, open and enclosed	A	20			
Maximum horsepower ratings (from \mathcal{E} and \mathcal{U} approved values)					
• Rated power for three-phase motors at 60 Hz	At 200 V hp	1.5	2	3	
	230 V hp	2	3		5
	460 V hp	3	5	7.5	10
	575 V hp	5	7.5	10	
Short-circuit protection¹⁾ (Contactor)					
• CLASS J fuse ²⁾	A	60			
• Circuit breakers in accordance with UL 489 ("Inverse Time Breakers")	A	50			
• Combination motor controllers, Type E according to UL 508 and UL 60947-4-1		3RV2.1 ¹⁾ or 3RV2.2 ¹⁾			

¹⁾ For more information about short-circuit values, e.g. for protection against short-circuit currents, see [Certificate of Compliance for the individual devices](https://support.industry.siemens.com/cs/ww/en/ps/16134/cert), <https://support.industry.siemens.com/cs/ww/en/ps/16134/cert>.
For the dimensioning of load feeders, see the [Configuration Manual "Configuring SIRIUS Innovations for UL"](https://support.industry.siemens.com/cs/ww/en/view/53433538), <https://support.industry.siemens.com/cs/ww/en/view/53433538>.

²⁾ Values for RK5 fuses on request.

Type Size	Contactors					
	3RT2023	3RT2024	3RT2025	3RT2026	3RT2326-4AA0	3RT2027 3RT2028
and \mathcal{U} rated data						
Rated insulation voltage	V AC	600				
Uninterrupted current , at 40 °C, open and enclosed	A	30				42
Maximum horsepower ratings (from \mathcal{E} and \mathcal{U} approved values)						
• Rated power for three-phase motors at 60 Hz	At 200 V hp	2	3	5	3	10
	230 V hp	3		7.5	5	10
	460 V hp	5	7.5	10	15	20
	575 V hp	7.5	10	15	20	25
Short-circuit protection¹⁾ (contactor)						
• CLASS J fuse ²⁾	A	125				150
• Circuit breakers in accordance with UL 489 ("Inverse Time Breakers")	A	70				100
• Combination motor controllers, Type E according to UL 508 and UL 60947-4-1	At 480 V Type	3RV202 ¹⁾				
	At 600 V Type	3RV202 ¹⁾				

¹⁾ For more information about short-circuit values, e.g. for protection against short-circuit currents, see [Certificate of Compliance for the individual devices](https://support.industry.siemens.com/cs/ww/en/ps/16134/cert), <https://support.industry.siemens.com/cs/ww/en/ps/16134/cert>.
For the selection and dimensioning of load feeders, see the [UL guide "Industrial Control Panels for North America"](https://support.industry.siemens.com/cs/ww/en/view/53433538), <https://support.industry.siemens.com/cs/ww/en/view/53433538>.

²⁾ Values for RK5 fuses on request.

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW

Type	Contactors							
	3RT2035	3RT2036, 3RT2336-.....4AA0	3RT2037	3RT2038	3RT2045	3RT2046	3RT2047	
Size	S2				S3			
Ⓢ and Ⓣ rated data								
Rated operational voltage	V AC	600						
Uninterrupted current , at 40 °C, open and enclosed	A	55	60	80	90	62	77	99
Maximum horsepower ratings (from Ⓢ and Ⓣ approved values)								
• Rated power for three-phase motors at 60 Hz	At 200/208 V hp	10	15	20	25	25	30	40
	230/240 V hp	15		20		30		
	460/480 V hp	30	40	50	60	60	75	100
	575/600 V hp	40	50			60	75	100
Short-circuit protection¹⁾ (contactor)	At 600 V kA	5	10			10		
• RK5 fuse	A	150	200	250	250	300	350	350
• Combination motor controllers, Type E according to UL 508 and UL 60947-4-1	Type	3RV203 ¹⁾			--			

¹⁾ For more information about short-circuit values, e.g. for protection against short-circuit currents, see [Certificate of Compliance for the individual devices](https://support.industry.siemens.com/cs/ww/en/ps/16134/cert), <https://support.industry.siemens.com/cs/ww/en/ps/16134/cert>.

For the selection and dimensioning of load feeders, see the UL guide "Industrial Control Panels for North America", <https://support.industry.siemens.com/cs/ww/en/view/53433538>.

Size	3RT1054		3RT1055		3RT1056		3RT1064		3RT1065		3RT1066		3RT1075		3RT1076	
	S6		S10		S10		S10		S10		S12		S12		S12	
Ⓢ and Ⓣ rated data																
Rated operational voltage	V AC	600														
Uninterrupted current , at 40 °C, open and enclosed	A	140	195		250	330							400	540		
Maximum horsepower ratings (from Ⓢ and Ⓣ approved values)																
• Rated power for three-phase motors at 60 Hz	At 200 V hp	40	50	60		75	100	125	150	150			125	150	200	200
	230 V hp	50	60	75		100	125	150	150			125	150	200	200	
	460 V hp	100	125	150		200	250	300	300			300	400	400	400	
	575 V hp	125	150	200		250	300	400	400			400	500	500	500	
Short-circuit protection																
For more information, see Certificate of Compliance for the individual devices , https://support.industry.siemens.com/cs/ww/en/ps/16134/cert .																
For the dimensioning of load feeders, see Configuration Manual "Configuring SIRIUS Innovations UL" , https://support.industry.siemens.com/cs/ww/en/view/53433538 .																

Type	Contactors			
	3RT201	3RT202 ... 3RT204		3RT1054 ... 3RT1076
Size	S00	S0 ... S3		S6 ... S12
	Integrated or mountable auxiliary switch block	Integrated		Mountable auxiliary switch block
Ⓢ and Ⓣ rated data of the auxiliary contacts				
Rated voltage	V AC	600		
Switching capacity		A 600, Q 600	A 600, P 600	A 600, Q 600
• Uninterrupted current at 240 V AC	A	10		

Power Contactors for Switching Motors

IE3/IE4 ready SIRIUS 3RT contactors, 3-pole up to 250 kW

Selection and ordering data

AC operation

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B

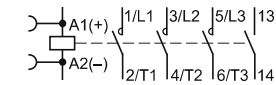


Rated data		Auxiliary contacts	Rated control supply voltage U_s at 50/60 Hz	SD	Screw terminals	SD	Spring-type terminals	
Operational current I_e up to 400 V	Ratings of three-phase motors at 50 Hz and 400 V	Ident. No.	Version		Article No.	Price per PU	Article No.	Price per PU
A	kW			V AC	d		d	

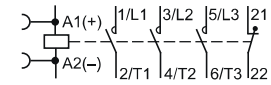
For screw fixing and snap-on mounting onto TH 35 standard mounting rail

Size S00¹⁾

• With auxiliary contact 1 NO, Ident. No. **10**



• With auxiliary contact 1 NC, Ident. No. **01**



7	3	18	10	1	--	24	▶ 3RT2015-1AB01	▶ 3RT2015-2AB01	
						110	▶ 3RT2015-1AF01	▶ 3RT2015-2AF01	
							230	▶ 3RT2015-1AP01	▶ 3RT2015-2AP01
							24	▶ 3RT2015-1AB02	▶ 3RT2015-2AB02
							110	▶ 3RT2015-1AF02	▶ 3RT2015-2AF02
							230	▶ 3RT2015-1AP02	▶ 3RT2015-2AP02
9	4	22	10	1	--	24	▶ 3RT2016-1AB01	▶ 3RT2016-2AB01	
						110	▶ 3RT2016-1AF01	▶ 3RT2016-2AF01	
							230	▶ 3RT2016-1AP01	▶ 3RT2016-2AP01
							24	▶ 3RT2016-1AB02	▶ 3RT2016-2AB02
							110	▶ 3RT2016-1AF02	▶ 3RT2016-2AF02
							230	▶ 3RT2016-1AP02	▶ 3RT2016-2AP02
12	5.5	22	10	1	--	24	▶ 3RT2017-1AB01	▶ 3RT2017-2AB01	
						110	▶ 3RT2017-1AF01	▶ 3RT2017-2AF01	
							230	▶ 3RT2017-1AP01	▶ 3RT2017-2AP01
							24	▶ 3RT2017-1AB02	▶ 3RT2017-2AB02
							110	▶ 3RT2017-1AF02	▶ 3RT2017-2AF02
							230	▶ 3RT2017-1AP02	▶ 3RT2017-2AP02
16	7.5	22	10	1	--	24	▶ 3RT2018-1AB01	▶ 3RT2018-2AB01	
						110	▶ 3RT2018-1AF01	▶ 3RT2018-2AF01	
							230	▶ 3RT2018-1AP01	▶ 3RT2018-2AP01
							24	▶ 3RT2018-1AB02	▶ 3RT2018-2AB02
							110	▶ 3RT2018-1AF02	▶ 3RT2018-2AF02
							230	▶ 3RT2018-1AP02	▶ 3RT2018-2AP02

¹⁾ Coil operating range
 - at 50 Hz: 0.8 to 1.1 × U_s
 - at 60 Hz: 0.85 to 1.1 × U_s .

Other voltages according to page 3/73 on request.
 For accessories and spare parts, see pages 3/75 to 3/123.

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW **IE3/IE4 ready**

AC operation

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B



3RT201.-1AP04-3MA0

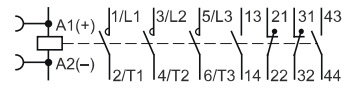
3RT201.-2AP04-3MA0

Rated data		Auxiliary contacts		Rated control supply voltage U_s at 50/60 Hz	SD	Screw terminals		SD	Spring-type terminals	
AC-2 and AC-3, t_{ij} : Up to 60 °C	AC-1, t_{ij} : 40 °C	Ident. No.	Version			Article No.	Price per PU		Article No.	Price per PU
Operational current I_e up to 400 V	Ratings of three-phase motors at 50 Hz and 400 V	Operational current I_e up to 690 V								
A	kW	A	NO NC	V AC	d			d		

For screw fixing and snap-on mounting onto TH 35 standard mounting rail

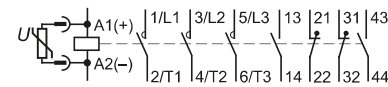
Size S00¹⁾

With permanently mounted auxiliary switch block (SUVA-certified safety contactor)



7	3	18	22	2	2	230	2	3RT2015-1AP04-3MA0	5	3RT2015-2AP04-3MA0
9	4	22	22	2	2	230	2	3RT2016-1AP04-3MA0	5	3RT2016-2AP04-3MA0
12	5.5	22	22	2	2	230	2	3RT2017-1AP04-3MA0	5	3RT2017-2AP04-3MA0
16	7.5	22	22	2	2	230	▶	3RT2018-1AP04-3MA0	5	3RT2018-2AP04-3MA0

With permanently mounted auxiliary switch block (SUVA-certified safety contactor) and varistor plugged into the front



7	3	18	22	2	2	230	5	3RT2015-1CP04-3MA0	5	3RT2015-2CP04-3MA0
9	4	22	22	2	2	230	5	3RT2016-1CP04-3MA0	5	3RT2016-2CP04-3MA0
12	5.5	22	22	2	2	230	5	3RT2017-1CP04-3MA0	5	3RT2017-2CP04-3MA0
16	7.5	22	22	2	2	230	5	3RT2018-1CP04-3MA0	5	3RT2018-2CP04-3MA0

¹⁾ Coil operating range
 - at 50 Hz: 0.8 to 1.1 × U_s
 - at 60 Hz: 0.85 to 1.1 × U_s .

Other voltages according to page 3/73 on request.

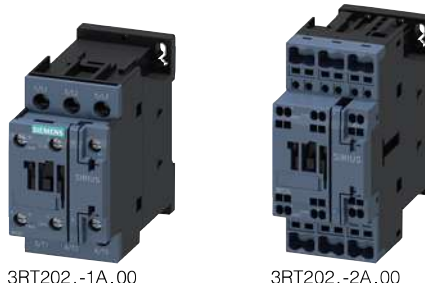
For accessories and spare parts, see pages 3/75 to 3/123.

Power Contactors for Switching Motors

IE3/IE4 ready SIRIUS 3RT contactors, 3-pole up to 250 kW

AC operation

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B



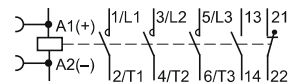
3RT202.-1A.00

3RT202.-2A.00

Rated data		Auxiliary contacts	Rated control supply voltage U_s at 50 Hz	SD	Screw terminals	SD	Spring-type terminals	
Operational current I_e up to	Ratings of three-phase motors at 50 Hz and	Ident. No.	Version		Article No.	Price per PU	Article No.	Price per PU
400 V	400 V							
A	kW							
		NO	NC	V AC	d	d		

For screw fixing and snap-on mounting onto TH 35 standard mounting rail

Size S0



9	4	40	11	1	1	24 110 230	▶ 3RT2023-1AB00 ▶ 3RT2023-1AF00 ▶ 3RT2023-1AP00	2 2 ▶	3RT2023-2AB00 3RT2023-2AF00 3RT2023-2AP00
12	5.5	40	11	1	1	24 110 230	▶ 3RT2024-1AB00 ▶ 3RT2024-1AF00 ▶ 3RT2024-1AP00	2 2 ▶	3RT2024-2AB00 3RT2024-2AF00 3RT2024-2AP00
17	7.5	40	11	1	1	24 110 230	▶ 3RT2025-1AB00 ▶ 3RT2025-1AF00 ▶ 3RT2025-1AP00	2 2 ▶	3RT2025-2AB00 3RT2025-2AF00 3RT2025-2AP00
25	11	40	11	1	1	24 110 230	▶ 3RT2026-1AB00 ▶ 3RT2026-1AF00 ▶ 3RT2026-1AP00	2 2 ▶	3RT2026-2AB00 3RT2026-2AF00 3RT2026-2AP00
32	15	50	11	1	1	24 110 230	▶ 3RT2027-1AB00 ▶ 3RT2027-1AF00 ▶ 3RT2027-1AP00	2 2 ▶	3RT2027-2AB00 3RT2027-2AF00 3RT2027-2AP00
38	18.5	50	11	1	1	24 110 230	▶ 3RT2028-1AB00 ▶ 3RT2028-1AF00 ▶ 3RT2028-1AP00	2 2 2	3RT2028-2AB00 3RT2028-2AF00 3RT2028-2AP00

Other voltages according to page 3/73 on request.

For accessories and spare parts, see pages 3/75 to 3/123.

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW **IE3/IE4 ready**

AC operation

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B



3RT202.-1A.04



3RT202.-2A.04



3RT202.-1CL24-3MA0



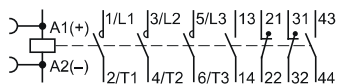
3RT202.-2CL24-3MA0

Rated data		Auxiliary contacts	Rated control supply voltage	SD	Screw terminals	SD	Spring-type terminals
AC-2 and AC-3, t_u : Up to 60 °C	AC-1, t_u : 40 °C	Ident. No. Version	U_s at 50 Hz		Article No. Price per PU		Article No. Price per PU
Operational current I_e up to 400 V	Operational current I_e up to 690 V	NO NC	V AC	d		d	
Ratings of three-phase motors at 50 Hz and 400 V							
400 V							
kW	A						

For screw fixing and snap-on mounting onto TH 35 standard mounting rail

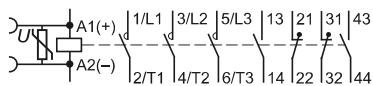
Size S0

With removable mounted auxiliary switch block



Frame	Rated current (A)	Rated power (kW)	Rated voltage (V)	NO	NC	Control voltage (V AC)	Control supply (SD)	Product Code	Product Code	
9	4	40	22	2	2	24, 110, 230	5	3RT2023-1AB04 3RT2023-1AP04	5 2	3RT2023-2AB04 3RT2023-2AP04
12	5.5	40	22	2	2	24, 110, 230	5	3RT2024-1AB04 3RT2024-1AF04 3RT2024-1AP04	5 5 2	3RT2024-2AB04 3RT2024-2AF04 3RT2024-2AP04
17	7.5	40	22	2	2	24, 110, 230	5	3RT2025-1AB04 3RT2025-1AF04 3RT2025-1AP04	5 5 2	3RT2025-2AB04 3RT2025-2AF04 3RT2025-2AP04
25	11	40	22	2	2	24, 110, 230	5	3RT2026-1AB04 3RT2026-1AF04 3RT2026-1AP04	5 5 2	3RT2026-2AB04 3RT2026-2AF04 3RT2026-2AP04
32	15	50	22	2	2	24, 110, 230	5	3RT2027-1AB04 3RT2027-1AF04 3RT2027-1AP04	5 5 2	3RT2027-2AB04 3RT2027-2AF04 3RT2027-2AP04
38	18.5	50	22	2	2	24, 110, 230	5	3RT2028-1AB04 3RT2028-1AF04 3RT2028-1AP04	5 5 2	3RT2028-2AB04 3RT2028-2AF04 3RT2028-2AP04

With permanently mounted auxiliary switch block (SUVA-certified safety contactor) and varistor permanently plugged into the front



Frame	Rated current (A)	Rated power (kW)	Rated voltage (V)	NO	NC	Control voltage (V AC)	Control supply (SD)	Product Code	Product Code	
9	4	40	22	2	2	230	5	3RT2023-1CL24-3MA0	5	3RT2023-2CL24-3MA0
12	5.5	40	22	2	2	230	2	3RT2024-1CL24-3MA0	5	3RT2024-2CL24-3MA0
17	7.5	40	22	2	2	230	5	3RT2025-1CL24-3MA0	5	3RT2025-2CL24-3MA0
25	11	40	22	2	2	230	5	3RT2026-1CL24-3MA0	5	3RT2026-2CL24-3MA0
32	15	50	22	2	2	230	5	3RT2027-1CL24-3MA0	5	3RT2027-2CL24-3MA0
38	18.5	50	22	2	2	230	5	3RT2028-1CL24-3MA0	5	3RT2028-2CL24-3MA0

Other voltages according to page 3/73 on request.

For accessories and spare parts, see pages 3/75 to 3/123.

Power Contactors for Switching Motors

IE3/IE4 ready SIRIUS 3RT contactors, 3-pole up to 250 kW

AC operation

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B

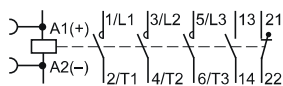


3RT203.-1A.00 3RT203.-3A.00 3RT203.-1A.04 3RT203.-1CL24-3MA0 3RT203.-3CL24-3MA0

Rated data		Auxiliary contacts	Rated control supply voltage U_s at 50 Hz	SD	Screw terminals	SD	Spring-type terminals	
AC-2 and AC-3, t_j : Up to 60 °C		Ident. No.	Version		Article No.	Price per PU	Article No.	Price per PU
Operational current I_e up to 400 V	Ratings of three-phase motors at 50 Hz and up to 400 V	AC-1, t_j : 40 °C	Operational current I_e up to 690 V					
A	kW	A						

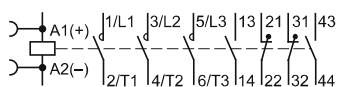
For screw fixing and snap-on mounting onto TH 35 standard mounting rail

Size S2



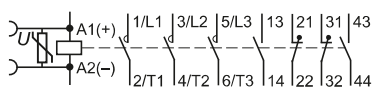
Rated current I_e [A]	Rated power [kW]	Rated voltage [V]	Operational current I_e [A]	Operational power [kW]	Operational voltage [V]	Control supply voltage U_s [V]	Control supply current [A]	Control supply power [W]	Control supply type	Article No.	Price per PU	Article No.	Price per PU
40	18.5	60	11	1	1	24	110	230	▶	3RT2035-1AB00 3RT2035-1AF00 3RT2035-1AP00	2 5 5	3RT2035-3AB00 3RT2035-3AF00 3RT2035-3AP00	
50	22	70	11	1	1	24	110	230	▶	3RT2036-1AB00 3RT2036-1AF00 3RT2036-1AP00	5 5 5	3RT2036-3AB00 3RT2036-3AF00 3RT2036-3AP00	
65	30	80	11	1	1	24	110	230	▶	3RT2037-1AB00 3RT2037-1AF00 3RT2037-1AP00	5 5 5	3RT2037-3AB00 3RT2037-3AF00 3RT2037-3AP00	
80	37	90	11	1	1	24	110	230	▶	3RT2038-1AB00 3RT2038-1AF00 3RT2038-1AP00	5 5 5	3RT2038-3AB00 3RT2038-3AF00 3RT2038-3AP00	

With removable mounted auxiliary switch block



Rated current I_e [A]	Rated power [kW]	Rated voltage [V]	Operational current I_e [A]	Operational power [kW]	Operational voltage [V]	Control supply voltage U_s [V]	Control supply current [A]	Control supply power [W]	Control supply type	Article No.	Price per PU	Article No.	Price per PU
40	18.5	60	22	2	2	24	110	230	▶	3RT2035-1AB04 3RT2035-1AF04 3RT2035-1AP04		--	--
50	22	70	22	2	2	24	110	230	▶	3RT2036-1AB04 3RT2036-1AF04 3RT2036-1AP04		--	--
65	30	80	22	2	2	24	110	230	▶	3RT2037-1AB04 3RT2037-1AF04 3RT2037-1AP04		--	--
80	37	90	22	2	2	24	110	230	▶	3RT2038-1AB04 3RT2038-1AF04 3RT2038-1AP04		--	--

With permanently mounted auxiliary switch block and varistor permanently plugged into the front



Rated current I_e [A]	Rated power [kW]	Rated voltage [V]	Operational current I_e [A]	Operational power [kW]	Operational voltage [V]	Control supply voltage U_s [V]	Control supply current [A]	Control supply power [W]	Control supply type	Article No.	Price per PU	Article No.	Price per PU
40	18.5	60	22	2	2	230	5		▶	3RT2035-1CL24-3MA0	5	3RT2035-3CL24-3MA0	
50	22	70	22	2	2	230	5		▶	3RT2036-1CL24-3MA0	5	3RT2036-3CL24-3MA0	
65	30	80	22	2	2	230	5		▶	3RT2037-1CL24-3MA0	5	3RT2037-3CL24-3MA0	
80	37	90	22	2	2	230	5		▶	3RT2038-1CL24-3MA0	5	3RT2038-3CL24-3MA0	

Other voltages according to page 3/73 on request.

For accessories and spare parts, see pages 3/75 to 3/123.

* You can order this quantity or a multiple thereof. Illustrations are approximate.

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW **IE3/IE4 ready** **NEW**

AC operation

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B



3RT204.-1A.00



3RT204.-3A.00



3RT204.-1A.04

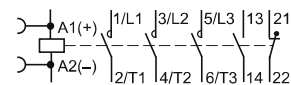


3RT204.-1CL24-3MA0

Rated data		Auxiliary contacts		Rated control supply voltage	SD	Screw terminals		SD	Spring-type terminals	
AC-2 and AC-3, t_c : Up to 60°C		AC-1, t_c : 40°C		U_c at 50 Hz		⊕			⊕	
Operational current I_e up to 400 V	Ratings of three-phase motors at 50 Hz and 400 V	Operational current I_e up to 690 V	Ident. No.	Version	Article No.	Price per PU		Article No.	Price per PU	
A	kW	A	NO	NC	V AC	d		d		

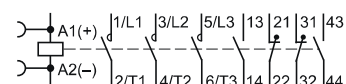
For screw fixing and snap-on mounting onto TH 35 and TH 75 standard mounting rails

Size S3



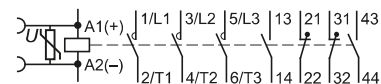
80	37	125	11	1	1	24 110 230	1 1 1	3RT2045-1AB00 3RT2045-1AF00 3RT2045-1AP00	5 5 1	3RT2045-3AB00 3RT2045-3AF00 3RT2045-3AP00
95	45	130	11	1	1	24 110 230	1 1 1	3RT2046-1AB00 3RT2046-1AF00 3RT2046-1AP00	5 5 1	3RT2046-3AB00 3RT2046-3AF00 3RT2046-3AP00
110	55	130	11	1	1	24 110 230	X X X	3RT2047-1AB00 3RT2047-1AF00 3RT2047-1AP00	X X X	3RT2047-3AB00 3RT2047-3AF00 3RT2047-3AP00

With removable mounted auxiliary switch block



80	37	125	22	2	2	24 110 230	5 1 1	3RT2045-1AB04 3RT2045-1AF04 3RT2045-1AP04	-- -- --
95	45	130	22	2	2	24 110 230	5 1 1	3RT2046-1AB04 3RT2046-1AF04 3RT2046-1AP04	-- -- --
110	55	130	22	2	2	24 110 230	X X X	3RT2047-1AB04 3RT2047-1AF04 3RT2047-1AP04	-- -- --

With permanently mounted auxiliary switch block and varistor permanently plugged into the front



80	37	125	22	2	2	230	X	3RT2045-1CL24-3MA0	--
95	45	130	22	2	2	230	X	3RT2046-1CL24-3MA0	--
110	55	130	22	2	2	230	X	3RT2047-1CL24-3MA0	--

Other voltages according to page 3/73 on request.

For accessories and spare parts, see pages 3/75 to 3/123.

Power Contactors for Switching Motors

IE3/IE4 ready SIRIUS 3RT contactors, 3-pole up to 250 kW

DC operation

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B

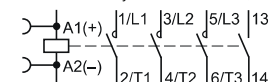


Rated data		Auxiliary contacts	Rated control supply voltage U_s	SD
AC-2 and AC-3, t_u : Up to 60 °C	AC-1, t_u : 40 °C	Ident. No. Version	V DC	Screw terminals
Operational current I_e up to 400 V	Ratings of three-phase motors at 50 Hz and 400 V			Spring-type terminals
A	kW	NO NC	d	Article No. Price per PU
				Article No. Price per PU

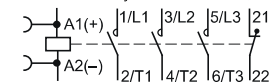
For screw fixing and snap-on mounting onto TH 35 standard mounting rail

Size S00

• With auxiliary contact 1 NO, Ident. No. 10



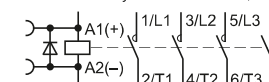
• With auxiliary contact 1 NC, Ident. No. 01



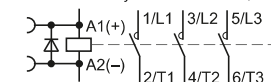
Operational current I_e (A)	Power (kW)	Rated voltage (V)	Ident. No.	Version	Rated control supply voltage U_s (V DC)	SD	Article No.	Price per PU
7	3	18	10	--	24	2	3RT2015-1BB41	5
			01	--	24	5	3RT2015-1BM41	5
9	4	22	10	--	24	5	3RT2015-1BB42	5
			01	--	24	5	3RT2015-1BM42	5
12	5.5	22	10	--	24	5	3RT2016-1BB41	5
			01	--	24	5	3RT2016-1BM41	5
16	7.5	22	10	--	24	5	3RT2016-1BB42	5
			01	--	24	5	3RT2016-1BM42	5
12	5.5	22	10	--	24	5	3RT2017-1BB41	5
			01	--	24	5	3RT2017-1BM41	5
16	7.5	22	10	--	24	5	3RT2017-1BB42	5
			01	--	24	5	3RT2017-1BM42	5
12	5.5	22	10	--	24	5	3RT2018-1BB41	5
			01	--	24	5	3RT2018-1BM41	5
16	7.5	22	10	--	24	5	3RT2018-1BB42	5
			01	--	24	5	3RT2018-1BM42	5

With integrated coil circuit (diode)¹⁾

• With auxiliary contact 1 NO, Ident. No. 10



• With auxiliary contact 1 NC, Ident. No. 01



Operational current I_e (A)	Power (kW)	Rated voltage (V)	Ident. No.	Version	Rated control supply voltage U_s (V DC)	SD	Article No.	Price per PU
7	3	18	10	--	24		3RT2015-1FB41	3RT2015-2FB41
			01	--	24		3RT2015-1FB42	3RT2015-2FB42
9	4	22	10	--	24		3RT2016-1FB41	3RT2016-2FB41
			01	--	24		3RT2016-1FB42	3RT2016-2FB42
12	5.5	22	10	--	24		3RT2017-1FB41	3RT2017-2FB41
			01	--	24		3RT2017-1FB42	3RT2017-2FB42
16	7.5	22	10	--	24		3RT2018-1FB41	3RT2018-2FB41
			01	--	24		3RT2018-1FB42	3RT2018-2FB42

¹⁾ When using contactors with IE3/IE4 motors, use contactors fitted with varistors instead of diodes. For more information about dimensioning and configuring, see page 3/6.

Other voltages according to page 3/73 on request.

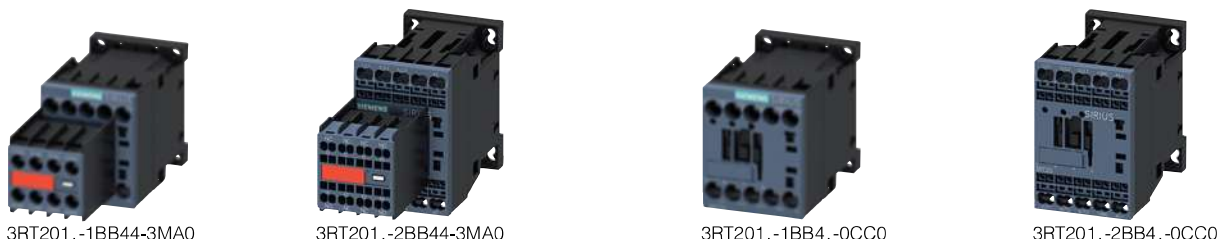
For accessories and spare parts, see pages 3/75 to 3/123.

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW **IE3/IE4 ready**

DC operation

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B

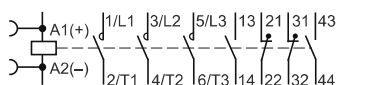


Rated data		Auxiliary contacts	Rated control supply voltage U_s	SD	Screw terminals	SD	Spring-type terminals	
AC-2 and AC-3, t_r : Up to 60 °C	AC-1, t_r : 40 °C	Ident. No.	Version		Article No.	Price per PU	Article No.	Price per PU
Operational current I_e up to 400 V	Operational current I_e up to 400 V	NO	NC	V DC				
400 V	400 V							
A	A			d				
kW	kW							

For screw fixing and snap-on mounting onto TH 35 standard mounting rail

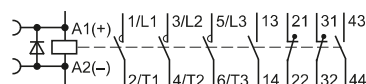
Size S00

With permanently mounted auxiliary switch block (SUVA-certified safety contactor)



7	3	18	22	2	2	24	▶	3RT2015-1BB44-3MA0	2	3RT2015-2BB44-3MA0
9	4	22	22	2	2	24	▶	3RT2016-1BB44-3MA0	2	3RT2016-2BB44-3MA0
12	5.5	22	22	2	2	24	2	3RT2017-1BB44-3MA0	2	3RT2017-2BB44-3MA0
16	7.5	22	22	2	2	24	2	3RT2018-1BB44-3MA0	2	3RT2018-2BB44-3MA0

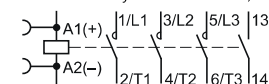
With permanently mounted auxiliary switch block (SUVA-certified safety contactor) and integrated coil circuit (diode)¹⁾



7	3	18	22	2	2	24	2	3RT2015-1FB44-3MA0	2	3RT2015-2FB44-3MA0
9	4	22	22	2	2	24	2	3RT2016-1FB44-3MA0	2	3RT2016-2FB44-3MA0
12	5.5	22	22	2	2	24	2	3RT2017-1FB44-3MA0	5	3RT2017-2FB44-3MA0
16	7.5	22	22	2	2	24	2	3RT2018-1FB44-3MA0	5	3RT2018-2FB44-3MA0

With voltage tap-off (only available with 24 V DC coils)

• With auxiliary contact 1 NO, Ident. No. **10**



7	3	18	10	1	--	24	▶	3RT2015-1BB41-0CC0	▶	3RT2015-2BB41-0CC0
			01	--	1	24	▶	3RT2015-1BB42-0CC0	2	3RT2015-2BB42-0CC0
9	4	22	10	1	--	24	▶	3RT2016-1BB41-0CC0	2	3RT2016-2BB41-0CC0
			01	--	1	24	2	3RT2016-1BB42-0CC0	2	3RT2016-2BB42-0CC0
12	5.5	22	10	1	--	24	2	3RT2017-1BB41-0CC0	▶	3RT2017-2BB41-0CC0
			01	--	1	24	5	3RT2017-1BB42-0CC0	▶	3RT2017-2BB42-0CC0
16	7.5	22	10	1	--	24	2	3RT2018-1BB41-0CC0	▶	3RT2018-2BB41-0CC0
			01	--	1	24	2	3RT2018-1BB42-0CC0	2	3RT2018-2BB42-0CC0

¹⁾ When using contactors with IE3/IE4 motors, use contactors fitted with varistors instead of diodes. For more information about dimensioning and configuring, see page 3/6.

Other voltages according to page 3/73 on request.

For accessories and spare parts, see pages 3/75 to 3/123.

Power Contactors for Switching Motors

IE3/IE4 ready SIRIUS 3RT contactors, 3-pole up to 250 kW

DC operation for direct control from the PLC

- Coupling contactors with adapted power consumption
- Suitable for solid-state PLC outputs
- Cannot be extended with auxiliary switch blocks

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B



3RT201.-1.B4.



3RT201.-2.B4.

Rated data		Auxiliary contacts	Rated control supply voltage U_s	SD	Screw terminals	SD	Spring-type terminals
AC-2 and AC-3, t_U : Up to 60 °C	AC-1, t_U : 40 °C	Ident. No. Version			Article No. Price per PU		Article No. Price per PU
Operational current I_e up to 400 V	Ratings of three-phase motors at 50 Hz and 400 V	Operational current I_e up to 690 V					
A	kW	A					
			NO NC V DC	d			

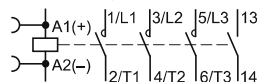
For screw fixing and snap-on mounting onto TH 35 standard mounting rail

Size S00

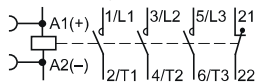
Diode, varistor or RC element, attachable

(no auxiliary switch blocks can be mounted)

- With auxiliary contact 1 NO, Ident. No. **10**



- With auxiliary contact 1 NC, Ident. No. **01**



Operating range **0.7 ... 1.25 x U_s** , power consumption of the solenoid coils **2.8 W** at 24 V

7	3	18	10	1	--	24	5	3RT2015-1HB41	5	3RT2015-2HB41
			01	--	1	24	5	3RT2015-1HB42	5	3RT2015-2HB42
9	4	22	10	1	--	24	5	3RT2016-1HB41	5	3RT2016-2HB41
			01	--	1	24	2	3RT2016-1HB42	5	3RT2016-2HB42
12	5.5¹⁾	22	10	1	--	24	5	3RT2017-1HB41	5	3RT2017-2HB41
			01	--	1	24	5	3RT2017-1HB42	5	3RT2017-2HB42

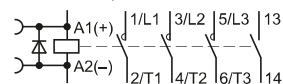
Operating range **0.85 ... 1.85 x U_s** , power consumption of the solenoid coils **1.6 W** at 24 V

7	3	18	10	1	--	24	5	3RT2015-1MB41-OKT0	5	3RT2015-2MB41-OKT0
			01	--	1	24	5	3RT2015-1MB42-OKT0	5	3RT2015-2MB42-OKT0
9	4	22	10	1	--	24	5	3RT2016-1MB41-OKT0	5	3RT2016-2MB41-OKT0
			01	--	1	24	5	3RT2016-1MB42-OKT0	5	3RT2016-2MB42-OKT0
12	5.5¹⁾	22	10	1	--	24	5	3RT2017-1MB41-OKT0	5	3RT2017-2MB41-OKT0
			01	--	1	24	5	3RT2017-1MB42-OKT0	5	3RT2017-2MB42-OKT0

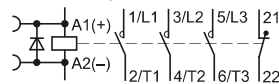
With integrated coil circuit (diode)¹⁾

(no auxiliary switch blocks can be mounted)

- With auxiliary contact 1 NO, Ident. No. **10**



- With auxiliary contact 1 NC, Ident. No. **01**



Operating range **0.7 ... 1.25 x U_s** , power consumption of the solenoid coils **2.8 W** at 24 V

7	3	18	10	1	--	24	2	3RT2015-1JB41	2	3RT2015-2JB41
			01	--	1	24	2	3RT2015-1JB42	5	3RT2015-2JB42
9	4	22	10	1	--	24	5	3RT2016-1JB41	5	3RT2016-2JB41
			01	--	1	24	2	3RT2016-1JB42	5	3RT2016-2JB42
12	5.5¹⁾	22	10	1	--	24	5	3RT2017-1JB41	5	3RT2017-2JB41
			01	--	1	24	5	3RT2017-1JB42	5	3RT2017-2JB42

Operating range **0.85 ... 1.85 x U_s** , power consumption of the solenoid coils **1.6 W** at 24 V

7	3	18	10	1	--	24	5	3RT2015-1VB41	5	3RT2015-2VB41
			01	--	1	24	5	3RT2015-1VB42	5	3RT2015-2VB42
9	4	22	10	1	--	24	5	3RT2016-1VB41	5	3RT2016-2VB41
			01	--	1	24	5	3RT2016-1VB42	5	3RT2016-2VB42
12	5.5¹⁾	22	10	1	--	24	5	3RT2017-1VB41	5	3RT2017-2VB41
			01	--	1	24	5	3RT2017-1VB42	5	3RT2017-2VB42

¹⁾ When using contactors with IE3/IE4 motors, use contactors fitted with varistors instead of diodes. In the case of 5.5 kW coupling contactors, use 5.5 kW coupling contactors of size S0; see page 3/63. For more information about dimensioning and configuring, see page 3/6.

Other voltages according to page 3/73 on request.

For accessories and spare parts, see pages 3/75 to 3/123.

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW **IE3/IE4 ready**

DC operation for direct control from the PLC

- Coupling contactors with adapted power consumption
- Suitable for solid-state PLC outputs
- Cannot be extended with auxiliary switch blocks

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B



3RT201.-1.B4.



3RT201.-2.B4.

Rated data		Auxiliary contacts	Rated control supply voltage	SD
AC-2 and AC-3, t_j : Up to 60 °C	AC-1, t_j : 40 °C	Ident. No. Version	U_s	Screw terminals
Operational current I_e up to 400 V	Ratings of three-phase motors at 50 Hz and 400 V	Operational current I_e up to 690 V		Spring-type terminals
A	400 V kW	A	NO NC V DC d	Article No. Price per PU Article No. Price per PU

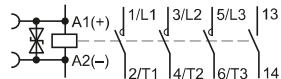
For screw fixing and snap-on mounting onto TH 35 standard mounting rail

Size S00

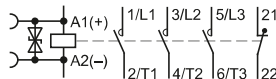
With integrated coil circuit (suppressor diode)¹⁾

(no auxiliary switch blocks can be mounted)

- With auxiliary contact 1 NO, Ident. No. **10**



- With auxiliary contact 1 NC, Ident. No. **01**



Operating range **0.7 ... 1.25 x U_s** , power consumption of the solenoid coils **2.8 W** at 24 V

7	3	18	10	1	--	24	2	3RT2015-1KB41	2	3RT2015-2KB41
			01	--	1	24	2	3RT2015-1KB42	▶	3RT2015-2KB42
9	4	22	10	1	--	24	2	3RT2016-1KB41	2	3RT2016-2KB41
			01	--	1	24	2	3RT2016-1KB42	2	3RT2016-2KB42
12	5.5¹⁾	22	10	1	--	24	5	3RT2017-1KB41	▶	3RT2017-2KB41
			01	--	1	24	5	3RT2017-1KB42	▶	3RT2017-2KB42

Operating range **0.85 ... 1.85 x U_s** , power consumption of the solenoid coils **1.6 W** at 24 V

7	3	18	10	1	--	24	5	3RT2015-1SB41	5	3RT2015-2SB41
			01	--	1	24	5	3RT2015-1SB42	5	3RT2015-2SB42
9	4	22	10	1	--	24	5	3RT2016-1SB41	5	3RT2016-2SB41
			01	--	1	24	5	3RT2016-1SB42	5	3RT2016-2SB42
12	5.5¹⁾	22	10	1	--	24	5	3RT2017-1SB41	5	3RT2017-2SB41
			01	--	1	24	5	3RT2017-1SB42	5	3RT2017-2SB42

¹⁾ When using contactors with IE3/IE4 motors, use contactors fitted with varistors instead of diodes. In the case of 5.5 kW coupling contactors, use 5.5 kW coupling contactors of size S0; see page 3/63. For more information about dimensioning and configuring, see page 3/6.

Other voltages according to page 3/73 on request.

For accessories and spare parts, see pages 3/75 to 3/123.

Power Contactors for Switching Motors

IE3/IE4 ready SIRIUS 3RT contactors, 3-pole up to 250 kW

DC operation

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B



3RT202.-1B.40



3RT202.-2B.40



3RT202.-1B.44

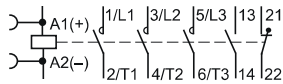


3RT202.-2B.44

Rated data		Auxiliary contacts	Rated control supply voltage	SD	Screw terminals	SD	Spring-type terminals	
AC-2 and AC-3, t_u : Up to 60 °C	AC-1, t_u : 40 °C	Ident. No. Version	U_s		⊕		⊕	
Operational current I_e up to 400 V	Ratings of three-phase motors at 50 Hz and up to 400 V	Operational current I_e up to 690 V			Article No.	Price per PU	Article No.	Price per PU
A	kW	A						
		NO NC	V DC	d				

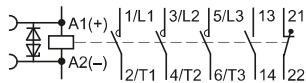
For screw fixing and snap-on mounting onto TH 35 standard mounting rail

Size S0



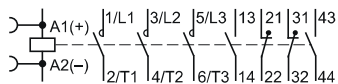
Frame	Rated current I_e (A)	Rated power (kW)	Rated voltage (V)	NO	NC	V DC	SD	Article No.	Article No.
9	4	40	11	1	1	24	▶	3RT2023-1BB40	▶ 3RT2023-2BB40
12	5.5	40	11	1	1	24	▶	3RT2024-1BB40	▶ 3RT2024-2BB40
						220	5	3RT2024-1BM40	5 3RT2024-2BM40
17	7.5	40	11	1	1	24	▶	3RT2025-1BB40	▶ 3RT2025-2BB40
						220	5	3RT2025-1BM40	5 3RT2025-2BM40
25	11	40	11	1	1	24	▶	3RT2026-1BB40	▶ 3RT2026-2BB40
						220	5	3RT2026-1BM40	5 3RT2026-2BM40
32	15	50	11	1	1	24	▶	3RT2027-1BB40	▶ 3RT2027-2BB40
						220	5	3RT2027-1BM40	5 3RT2027-2BM40
38	18.5	50	11	1	1	24	▶	3RT2028-1BB40	▶ 3RT2028-2BB40
						220	5	3RT2028-1BM40	5 3RT2028-2BM40

With coil circuit plugged into front (diode assembly)



Frame	Rated current I_e (A)	Rated power (kW)	Rated voltage (V)	NO	NC	V DC	SD	Article No.	Article No.
9	4	40	11	1	1	24	▶	3RT2023-1FB40	▶ 3RT2023-2FB40
12	5.5	40	11	1	1	24	▶	3RT2024-1FB40	▶ 3RT2024-2FB40
17	7.5	40	11	1	1	24	▶	3RT2025-1FB40	▶ 3RT2025-2FB40
25	11	40	11	1	1	24	▶	3RT2026-1FB40	▶ 3RT2026-2FB40
32	15	50	11	1	1	24	▶	3RT2027-1FB40	▶ 3RT2027-2FB40
38	18.5	50	11	1	1	24	▶	3RT2028-1FB40	▶ 3RT2028-2FB40

With removable mounted auxiliary switch block



Frame	Rated current I_e (A)	Rated power (kW)	Rated voltage (V)	NO	NC	V DC	SD	Article No.	Article No.
9	4	40	22	2	2	24	▶	3RT2023-1BB44	▶ 3RT2023-2BB44
12	5.5	40	22	2	2	24	▶	3RT2024-1BB44	▶ 3RT2024-2BB44
17	7.5	40	22	2	2	24	▶	3RT2025-1BB44	▶ 3RT2025-2BB44
25	11	40	22	2	2	24	▶	3RT2026-1BB44	▶ 3RT2026-2BB44
32	15	50	22	2	2	24	▶	3RT2027-1BB44	▶ 3RT2027-2BB44
38	18.5	50	22	2	2	24	▶	3RT2028-1BB44	▶ 3RT2028-2BB44

Other voltages according to page 3/73 on request.

For accessories and spare parts, see pages 3/75 to 3/123.

* You can order this quantity or a multiple thereof. Illustrations are approximate.

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW **IE3/IE4 ready**

DC operation

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B



3RT202.-1.B44-3MA0

3RT202.-2.B44-3MA0

3RT202.-1BB40-0CC0

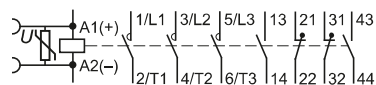
3RT202.-2BB40-0CC0

Rated data		Auxiliary contacts	Rated control supply voltage U_s	SD	Screw terminals	SD	Spring-type terminals	
AC-2 and AC-3, t_u : Up to 60 °C	AC-1, t_u : 40 °C	Ident. No. Version			⊕		⊕	
Operational current I_e up to 400 V	Ratings of three-phase motors at 50 Hz and 400 V	Operational current I_e up to 690 V			Article No.	Price per PU	Article No.	Price per PU
A	kW	A						

For screw fixing and snap-on mounting onto TH 35 standard mounting rail

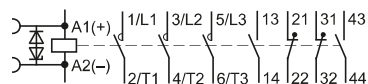
Size S0

With permanently mounted auxiliary switch block (SUVA-certified safety contactor) and coil circuit permanently plugged into the front (varistor)



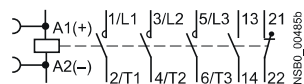
Frame	kW	I_e (A)	Ident. No.	Version	U_s (VDC)	SD	Article No.	SD	Article No.
12	5.5	40	22	2	24	2	3RT2024-1DB44-3MA0	5	3RT2024-2DB44-3MA0
17	7.5	40	22	2	24	5	3RT2025-1DB44-3MA0	5	3RT2025-2DB44-3MA0
25	11	40	22	2	24	5	3RT2026-1DB44-3MA0	5	3RT2026-2DB44-3MA0
32	15	50	22	2	24	5	3RT2027-1DB44-3MA0	5	3RT2027-2DB44-3MA0

With permanently mounted auxiliary switch block (SUVA-certified safety contactor) and coil circuit permanently plugged into the front (diode assembly)



Frame	kW	I_e (A)	Ident. No.	Version	U_s (VDC)	SD	Article No.	SD	Article No.
9	4	40	22	2	24	2	3RT2023-1FB44-3MA0	5	3RT2023-2FB44-3MA0
12	5.5	40	22	2	24	5	3RT2024-1FB44-3MA0	5	3RT2024-2FB44-3MA0
17	7.5	40	22	2	24	5	3RT2025-1FB44-3MA0	5	3RT2025-2FB44-3MA0
25	11	40	22	2	24	5	3RT2026-1FB44-3MA0	5	3RT2026-2FB44-3MA0
32	15	50	22	2	24	5	3RT2027-1FB44-3MA0	5	3RT2027-2FB44-3MA0
38	18.5	50	22	2	24	5	3RT2028-1FB44-3MA0	5	3RT2028-2FB44-3MA0

With voltage tap-off



Frame	kW	I_e (A)	Ident. No.	Version	U_s (VDC)	SD	Article No.	SD	Article No.
9	4	40	11	1	24	2	3RT2023-1BB40-0CC0	2	3RT2023-2BB40-0CC0
12	5.5	40	11	1	24	2	3RT2024-1BB40-0CC0	2	3RT2024-2BB40-0CC0
17	7.5	40	11	1	24	2	3RT2025-1BB40-0CC0	2	3RT2025-2BB40-0CC0
25	11	40	11	1	24	2	3RT2026-1BB40-0CC0	2	3RT2026-2BB40-0CC0
32	15	50	11	1	24	2	3RT2027-1BB40-0CC0	2	3RT2027-2BB40-0CC0
38	18.5	50	11	1	24	2	3RT2028-1BB40-0CC0	2	3RT2028-2BB40-0CC0

Other voltages according to page 3/73 on request.

For accessories and spare parts, see pages 3/75 to 3/123.

Power Contactors for Switching Motors

IE3/IE4 ready SIRIUS 3RT contactors, 3-pole up to 250 kW

DC operation for direct control from the PLC

- Coupling contactors with adapted power consumption
- Suitable for solid-state PLC outputs
- Cannot be extended with auxiliary switch blocks

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B



3RT202.-1KB40



3RT202.-2KB40

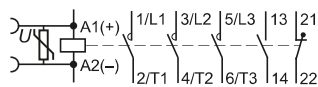
Rated data		Auxiliary contacts	Rated control supply voltage U_s	SD	Screw terminals	SD	Spring-type terminals	
AC-2 and AC-3, t_i : Up to 60 °C	AC-1, t_i : 40 °C	Ident. No.	Version					
Operational current I_e up to 400 V	Ratings of three-phase motors at 50 Hz and up to 400 V	Operational current I_e up to 690 V			Article No.	Price per PU	Article No.	Price per PU
A	kW	A	NO NC	V DC	d	d		

For screw fixing and snap-on mounting onto TH 35 standard mounting rail

Size S0

With integrated coil circuit (varistor)

(no auxiliary switch blocks can be mounted)



Operating range **0.7 ... 1.25 x U_s** , power consumption of the solenoid coils **4.5 W** at 24 V

9	4	40	11	1	1	24	▶	3RT2023-1KB40	▶	3RT2023-2KB40
12	5.5	40	11	1	1	24	▶	3RT2024-1KB40	5	3RT2024-2KB40
17	7.5	40	11	1	1	24	▶	3RT2025-1KB40	2	3RT2025-2KB40
25	11	40	11	1	1	24	▶	3RT2026-1KB40	2	3RT2026-2KB40
32	15	50	11	1	1	24	▶	3RT2027-1KB40	5	3RT2027-2KB40

Other voltages [according to page 3/73](#) on request.

For accessories and spare parts, [see pages 3/75 to 3/123](#).

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW **IE3/IE4 ready**

DC operation for direct control from the PLC

- Coupling contactors with adapted power consumption
- Suitable for solid-state PLC outputs with 2 A
- Cannot be expanded with auxiliary switch blocks

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B



3RT203.-1KB40



3RT203.-3KB40



3RT204.-1KB40



3RT204.-3KB40

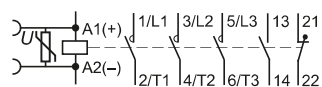
Rated data		Auxiliary contacts		Rated control supply voltage U_s	SD	Screw terminals		SD	Spring-type terminals	
AC-2 and AC-3, t_j : Up to 60 °C	AC-1, t_j : 40 °C	Ident. No.	Version			Article No.	Price per PU		Article No.	Price per PU
Operational current I_e up to 400 V	Operational current I_e up to 690 V									
Ratings of three-phase motors at 50 Hz and up to 400 V										
400 V										
A	kW	A		NO	NC	V DC	d			

For screw fixing and snap-on mounting onto TH 35 standard mounting rail

Size S2

With integrated coil circuit (varistor)

(no auxiliary switch blocks can be mounted)



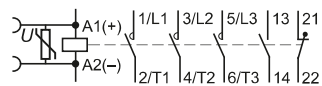
Operating range **0.8 ... 1.2 x U_s** , power consumption of the solenoid coils **23 W** at 24 V

40	18.5	60	11	1	1	24	▶	3RT2035-1KB40	X	3RT2035-3KB40
50	22	70	11	1	1	24	▶	3RT2036-1KB40	X	3RT2036-3KB40
65	30	80	11	1	1	24	▶	3RT2037-1KB40	X	3RT2037-3KB40
80	37	90	11	1	1	24	▶	3RT2038-1KB40	X	3RT2038-3KB40

Size S3 **NEW**

With integrated coil circuit (varistor)

(no auxiliary switch blocks can be mounted)



Operating range **0.8 ... 1.2 x U_s** , power consumption of the solenoid coils **25 W** at 24 V

80	37	125	11	1	1	24	X	3RT2045-1KB40	X	3RT2045-3KB40
95	45	130	11	1	1	24	X	3RT2046-1KB40	X	3RT2046-3KB40

Other voltages according to page 3/73 on request.

For accessories and spare parts, see pages 3/75 to 3/123.

Power Contactors for Switching Motors

IE3/IE4 ready SIRIUS 3RT contactors, 3-pole up to 250 kW

AC/DC operation (50/60 Hz AC and DC)

- Extended operating range of the solenoid coil 0.7 to 1.3 x U_s
- Reduced power consumption when closing and in the closed state

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B



3RT202.-1N.30



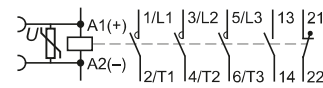
3RT202.-2N.30

Rated data		Auxiliary contacts		Rated control supply voltage U_s ¹⁾	SD	Screw terminals		SD	Spring-type terminals	
AC-2 and AC-3, t_i : Up to 60 °C	AC-1, t_i : 40 °C	Ident. No.	Version							
Operational current I_e up to	Ratings of three-phase motors at 50 Hz and					Article No.	Price per PU	Article No.	Price per PU	
400 V	400 V									
A	kW	A	NO	NC	V AC/DC	d		d		

For screw fixing and snap-on mounting onto TH 35 standard mounting rail

Size S0

With integrated coil circuit (varistor)



12	5.5	40	11	1	1	21 ... 28 95 ... 130 200 ... 280 ²⁾	▶ ▶ ▶	3RT2024-1NB30 3RT2024-1NF30 3RT2024-1NP30	5 5 ▶	3RT2024-2NB30 3RT2024-2NF30 3RT2024-2NP30
17	7.5	40	11	1	1	21 ... 28 95 ... 130 200 ... 280 ²⁾	▶ ▶ ▶	3RT2025-1NB30 3RT2025-1NF30 3RT2025-1NP30	5 5 ▶	3RT2025-2NB30 3RT2025-2NF30 3RT2025-2NP30
25	11	40	11	1	1	21 ... 28 95 ... 130 200 ... 280 ²⁾	▶ ▶ ▶	3RT2026-1NB30 3RT2026-1NF30 3RT2026-1NP30	▶ ▶ ▶	3RT2026-2NB30 3RT2026-2NF30 3RT2026-2NP30
32	15	50	11	1	1	21 ... 28 95 ... 130 200 ... 280 ²⁾	▶ ▶ ▶	3RT2027-1NB30 3RT2027-1NF30 3RT2027-1NP30	▶ 5 ▶	3RT2027-2NB30 3RT2027-2NF30 3RT2027-2NP30
38	18.5	50	11	1	1	21 ... 28 95 ... 130 200 ... 280 ²⁾	▶ 5 ▶	3RT2028-1NB30 3RT2028-1NF30 3RT2028-1NP30	5 5 ▶	3RT2028-2NB30 3RT2028-2NF30 3RT2028-2NP30

¹⁾ Coil operating range: 0.7 x $U_{s \min}$ to 1.3 x $U_{s \max}$.

²⁾ The following applies to $U_{s \max} = 280$ V: Upper limit = 1.1 x $U_{s \max}$.

Other voltages according to page 3/73 on request.

For accessories and spare parts, see pages 3/75 to 3/123.

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW **IE3/IE4 ready**

AC/DC operation (50/60 Hz AC and DC)

- Extended operating range of the solenoid coil 0.8 to 1.1 x U_s
- Reduced power consumption when closing and in the closed state

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B



3RT203.-1N.30



3RT203.-3N.30



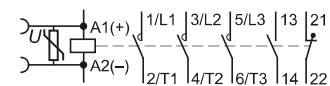
3RT203.-1N.34

Rated data		Auxiliary contacts		Rated control supply voltage U_s ¹⁾	SD	Screw terminals	SD	Spring-type terminals
AC-2 and AC-3, t_c : Up to 60° C	Operational current I_e up to	Ratings of three-phase motors at 50 Hz and	AC-1, t_c : 40° C	Operational current I_e up to	Ident. No.	Version	Article No.	Price per PU
400 V	400 V	400 V	690 V		NO	NC		
A	kW	A		V AC/DC	d		d	

For screw fixing and snap-on mounting onto TH 35 standard mounting rail

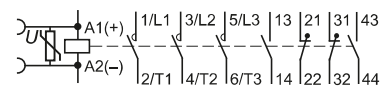
Size S2

With integrated coil circuit (varistor)



Operational current I_e (A)	Power (kW)	Operational current I_e (A)	Ident. No.	Version	Rated control supply voltage U_s (V)	SD	Article No.	Price per PU	
40	18.5	60	11	1	20 ... 33	▶	3RT2035-1NB30	▶	
					83 ... 155	5	3RT2035-1NF30	5	3RT2035-3NF30
					175 ... 280	5	3RT2035-1NP30	5	3RT2035-3NP30
50	22	70	11	1	20 ... 33	▶	3RT2036-1NB30	▶	
					83 ... 155	5	3RT2036-1NF30	5	3RT2036-3NF30
					175 ... 280	5	3RT2036-1NP30	5	3RT2036-3NP30
65	30	80	11	1	20 ... 33	▶	3RT2037-1NB30	▶	
					83 ... 155	5	3RT2037-1NF30	5	3RT2037-3NF30
					175 ... 280	5	3RT2037-1NP30	5	3RT2037-3NP30
80	37	90	11	1	20 ... 33	▶	3RT2038-1NB30	▶	
					83 ... 155	5	3RT2038-1NF30	5	3RT2038-3NF30
					175 ... 280	5	3RT2038-1NP30	2	3RT2038-3NP30

With removable mounted auxiliary switch block and integrated coil circuit (varistor)



Operational current I_e (A)	Power (kW)	Operational current I_e (A)	Ident. No.	Version	Rated control supply voltage U_s (V)	SD	Article No.	Price per PU
40	18.5	60	22	2	20 ... 33	▶	3RT2035-1NB34	--
					83 ... 155	5	3RT2035-1NF34	--
					175 ... 280	5	3RT2035-1NP34	--
50	22	70	22	2	20 ... 33	▶	3RT2036-1NB34	--
					83 ... 155	5	3RT2036-1NF34	--
					175 ... 280	5	3RT2036-1NP34	--
65	30	80	22	2	20 ... 33	▶	3RT2037-1NB34	--
					83 ... 155	5	3RT2037-1NF34	--
					175 ... 280	5	3RT2037-1NP34	--
80	37	90	22	2	20 ... 33	▶	3RT2038-1NB34	--
					83 ... 155	5	3RT2038-1NF34	--
					175 ... 280	5	3RT2038-1NP34	--

¹⁾ Coil operating range: 0.8 x $U_{s \min}$ to 1.1 x $U_{s \max}$.

Other voltages according to page 3/73 on request.

For accessories and spare parts, see pages 3/75 to 3/123.

Power Contactors for Switching Motors

IE3/IE4 ready SIRIUS 3RT contactors, 3-pole up to 250 kW

AC/DC operation (50/60 Hz AC and DC)

- Extended operating range of the solenoid coil 0.8 to $1.1 \times U_s$
- Reduced power consumption when closing and in the closed state

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B



3RT203.-1NB34-3MA0



3RT203.-3NB34-3MA0



3RT203.-1NB30-0CC0



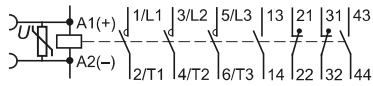
3RT203.-3NB30-0CC0

Rated data	Auxiliary contacts	Rated control supply voltage $U_s^{1)}$	SD	Screw terminals	SD	Spring-type terminals
AC-2 and AC-3, t_c : Up to 60 °C Operational current I_e up to 400 V	AC-1, t_c : 40 °C Operational current I_e up to 690 V					
Ratings of three-phase motors at 50 Hz and 400 V	Ident. No. Version			Article No.	Price per PU	Article No. Price per PU
A kW	NO NC	V AC/DC	d			

For screw fixing and snap-on mounting onto TH 35 standard mounting rail

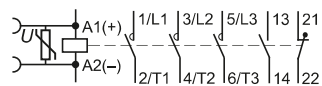
Size S2

With permanently mounted auxiliary switch block and integrated coil circuit (varistor)



40	18.5	60	22	2	2	20 ... 33	5	3RT2035-1NB34-3MA0	5	3RT2035-3NB34-3MA0
50	22	70	22	2	2	20 ... 33	2	3RT2036-1NB34-3MA0	5	3RT2036-3NB34-3MA0
65	30	80	22	2	2	20 ... 33	▶	3RT2037-1NB34-3MA0	5	3RT2037-3NB34-3MA0
80	37	90	22	2	2	20 ... 33	▶	3RT2038-1NB34-3MA0	2	3RT2038-3NB34-3MA0

With voltage tap-off and integrated coil circuit (varistor)



40	18.5	60	11	1	1	20 ... 33	2	3RT2035-1NB30-0CC0	2	3RT2035-3NB30-0CC0
50	22	70	11	1	1	20 ... 33	2	3RT2036-1NB30-0CC0	2	3RT2036-3NB30-0CC0
65	30	80	11	1	1	20 ... 33	2	3RT2037-1NB30-0CC0	2	3RT2037-3NB30-0CC0
80	37	90	11	1	1	20 ... 33	2	3RT2038-1NB30-0CC0	2	3RT2038-3NB30-0CC0

¹⁾ Coil operating range: $0.8 \times U_{s \text{ min}}$ to $1.1 \times U_{s \text{ max}}$.

Other voltages according to page 3/73 on request.

For accessories and spare parts, see pages 3/75 to 3/123.

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW **IE3/IE4 ready** **NEW**

AC/DC operation (50/60 Hz AC and DC)

- Extended operating range of the solenoid coil 0.8 to $1.1 \times U_s$
- Reduced power consumption when closing and in the closed state

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B



3RT204.-1N.30



3RT204.-3N.30



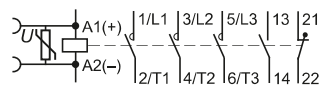
3RT204.-1N.34

Rated data		Auxiliary contacts		Rated control supply voltage U_s ¹⁾	SD	Screw terminals	SD	Spring-type terminals		
AC-2 and AC-3, t_c : Up to 60° C	Operational current I_e up to	Ratings of three-phase motors at 50 Hz and	AC-1, t_c : 40 °C	Operational current I_e up to	Ident. No.	Version	Article No.	Price per PU	Article No.	Price per PU
400 V	400 V	400 V	690 V	20 ... 33	NO	NC				
A	kW	A		V AC/DC			d		d	

For screw fixing and snap-on mounting onto TH 35 standard mounting rail

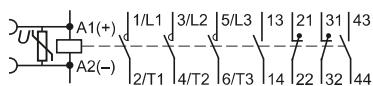
Size S3

With integrated coil circuit (varistor)



80	37	125	11	1	1	20 ... 33	X	3RT2045-1NB30	X	3RT2045-3NB30
						83 ... 155	X	3RT2045-1NF30	X	3RT2045-3NF30
						175 ... 280	X	3RT2045-1NP30	X	3RT2045-3NP30
95	45	130	11	1	1	20 ... 33	X	3RT2046-1NB30	X	3RT2046-3NB30
						83 ... 155	X	3RT2046-1NF30	X	3RT2046-3NF30
						175 ... 280	X	3RT2046-1NP30	X	3RT2046-3NP30
110	55	130	11	1	1	20 ... 33	X	3RT2047-1NB30	X	3RT2047-3NB30
						83 ... 155	X	3RT2047-1NF30	X	3RT2047-3NF30
						175 ... 280	X	3RT2047-1NP30	X	3RT2047-3NP30

With removable mounted auxiliary switch block and integrated coil circuit (varistor)



80	37	125	22	2	2	20 ... 33	X	3RT2045-1NB34	--	
						83 ... 155	X	3RT2045-1NF34	--	
						175 ... 280	X	3RT2045-1NP34	--	
95	45	130	22	2	2	20 ... 33	X	3RT2046-1NB34	--	
						83 ... 155	X	3RT2046-1NF34	--	
						175 ... 280	X	3RT2046-1NP34	--	
110	55	130	22	2	2	20 ... 33	X	3RT2047-1NB34	--	
						83 ... 155	X	3RT2047-1NF34	--	
						175 ... 280	X	3RT2047-1NP34	--	

¹⁾ Coil operating range: $0.8 \times U_{s \text{ min}}$ to $1.1 \times U_{s \text{ max}}$.

Other voltages according to page 3/73 on request.

For accessories and spare parts, see pages 3/75 to 3/123.

Power Contactors for Switching Motors

NEW IE3/IE4 ready SIRIUS 3RT contactors, 3-pole up to 250 kW

AC/DC operation (50/60 Hz AC and DC)

- Extended operating range of the solenoid coil 0.8 to $1.1 \times U_s$
- Reduced power consumption when closing and in the closed state

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B



3RT204.-1NB34-3MA0



3RT204.-3NB34-3MA0



3RT204.-1NB30-0CC0



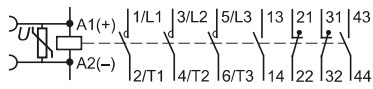
3RT204.-3NB30-0CC0

Rated data		Auxiliary contacts		Rated control supply voltage $U_s^{1)}$	SD	Screw terminals		SD	Spring-type terminals	
AC-2 and AC-3, t_c : Up to 60 °C	AC-1, t_c : 40 °C	Ident. No.	Version			Article No.	Price per PU		Article No.	Price per PU
Operational current I_e up to 400 V	Operational current I_e up to 690 V			V AC/DC	d			d		
A	A	NO	NC							
kW										

For screw fixing and snap-on mounting onto TH 35 standard mounting rail

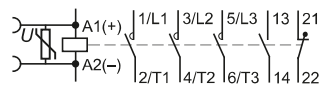
Size S3

With permanently mounted auxiliary switch block and integrated coil circuit (varistor)



80	37	125	22	2	2	20 ... 33	X	3RT2045-1NB34-3MA0	X	3RT2045-3NB34-3MA0
95	45	130	22	2	2	20 ... 33	X	3RT2046-1NB34-3MA0	X	3RT2046-3NB34-3MA0
110	55	130	22	2	2	20 ... 33	X	3RT2047-1NB34-3MA0	X	3RT2047-3NB34-3MA0

With voltage tap-off and integrated coil circuit (varistor)



80	37	125	11	1	1	20 ... 33	X	3RT2045-1NB30-0CC0	X	3RT2045-3NB30-0CC0
95	45	130	11	1	1	20 ... 33	X	3RT2046-1NB30-0CC0	X	3RT2046-3NB30-0CC0
110	55	130	11	1	1	20 ... 33	X	3RT2047-1NB30-0CC0	X	3RT2047-3NB30-0CC0

¹⁾ Coil operating range: $0.8 \times U_{s \text{ min}}$ to $1.1 \times U_{s \text{ max}}$.

Other voltages according to page 3/73 on request.

For accessories and spare parts, see pages 3/75 to 3/123.

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW **IE3/IE4 ready**

AC/DC operation (50/60 Hz AC and DC)

- Withdrawable coils with integrated coil switch (varistor)
- Auxiliary and control conductors: Screw or spring-type terminals
- Main conductors: Busbar connections, for 3RT1054 (55 kW) box terminals¹⁾



3RT105.



3RT106.



3RT107.

Size	Rated data				AC-1, t_i : 40 °C	Auxiliary contacts, lateral	Rated control supply voltage U_s	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
	AC-2 and AC-3, t_i : Up to 60° C				Operational current I_e up to	Operational current I_e up to	Version						
	500 V	230 V	400 V	500 V	690 V	690 V	NO NC	V AC/DC	d				
	A	kW	kW	kW	kW	A							

Conventional operating mechanisms

	Screw terminals										Spring-type terminals for coil and auxiliary switch terminals			
S6	115	37	55	75	110	160	2	2	110 ... 127 220 ... 240	▶	3RT1054-1AF36 3RT1054-1AP36	1	1 unit	41B
	150	45	75	90	132	185	2	2	110 ... 127 220 ... 240	▶	3RT1055-6AF36 3RT1055-6AP36	1	1 unit	41B
	185	55	90²⁾	110	160	215	2	2	110 ... 127 220 ... 240	▶	3RT1056-6AF36 3RT1056-6AP36	1	1 unit	41B
S10	225	55	110	160	200	275	2	2	110 ... 127 220 ... 240	▶	3RT1064-6AF36 3RT1064-6AP36	1	1 unit	41B
	265	75	132	160	250	330	2	2	110 ... 127 220 ... 240	▶	3RT1065-6AF36 3RT1065-6AP36	1	1 unit	41B
	300	90	160²⁾	200	250	330	2	2	110 ... 127 220 ... 240	▶	3RT1066-6AF36 3RT1066-6AP36	1	1 unit	41B
S12	400	132	200	250	400	430	2	2	110 ... 127 220 ... 240	▶	3RT1075-6AF36 3RT1075-6AP36	1	1 unit	41B
	500	160	250²⁾	355	400	610	2	2	110 ... 127 220 ... 240	▶	3RT1076-6AF36 3RT1076-6AP36	1	1 unit	41B
S6	115	37	55	75	110	160	2	2	110 ... 127 220 ... 240	5	3RT1054-3AF36 3RT1054-3AP36	1	1 unit	41B
	150	45	75	90	132	185	2	2	110 ... 127 220 ... 240	5	3RT1055-2AF36 3RT1055-2AP36	1	1 unit	41B
	185	55	90²⁾	110	160	215	2	2	110 ... 127 220 ... 240	5	3RT1056-2AF36 3RT1056-2AP36	1	1 unit	41B
S10	225	55	110	160	200	275	2	2	110 ... 127 220 ... 240	5	3RT1064-2AF36 3RT1064-2AP36	1	1 unit	41B
	265	75	132	160	250	330	2	2	110 ... 127 220 ... 240	5	3RT1065-2AF36 3RT1065-2AP36	1	1 unit	41B
	300	90	160²⁾	200	250	330	2	2	110 ... 127 220 ... 240	5	3RT1066-2AF36 3RT1066-2AP36	1	1 unit	41B
S12	400	132	200	250	400	430	2	2	110 ... 127 220 ... 240	5	3RT1075-2AF36 3RT1075-2AP36	1	1 unit	41B
	500	160	250²⁾	355	400	610	2	2	110 ... 127 220 ... 240	5	3RT1076-2AF36 3RT1076-2AP36	1	1 unit	41B

¹⁾ Alternatively, the 3RT1054 contactor (55 kW) can also be supplied with busbar connections instead of box terminals. In the 8th position of the article number, the "1" must be replaced with "6" for screw terminals, e. g. 3RT1054-6A..., for spring-type terminals, the "3" must be replaced with "2", e. g. 3RT1054-2A....
²⁾ When using 3RT10.6-... contactors with IE3/IE4 motors from 8.5 times the starting current, use the versions with solid-state operating mechanism 3RT10.6-N..., see page 3/71. For more information about dimensioning and configuring, see page 3/6.

Other voltages according to page 3/74 on request.

For accessories and spare parts, see pages 3/75 to 3/123.

Power Contactors for Switching Motors

IE3/IE4 ready SIRIUS 3RT contactors, 3-pole up to 250 kW

AC/DC operation (50/60 Hz AC and DC)

- Withdrawable coils with integrated coil switch (varistor)
- Auxiliary and control conductors: screw or spring-type terminals
- Main conductors: Busbar connections, for 3RT1054 (55 kW) box terminals¹⁾



3RT105.



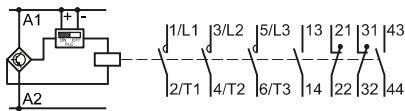
3RT106.



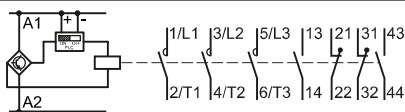
3RT107.

Size	Rated data	AC-1, t_i : 40 °C	Auxiliary contacts, lateral	Rated control supply voltage U_s	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
	AC-2 and AC-3, t_i : Up to 60° C	Operational current I_e up to	Operational current I_e up to	Version						
		500 V	690 V	NO NC						
		230 V	500 V	V AC/DC	d					
		400 V	690 V							
		kW	kW							

Solid-state operating mechanisms · with 24 V DC control signal input e.g. for control from the PLC



											Screw terminals			
S6	115	37	55	75	110	160	2	2	96 ... 127 200 ... 277	2	3RT1054-1NF36 3RT1054-1NP36	1	1 unit	41B
	150	45	75	90	132	185	2	2	96 ... 127 200 ... 277	2	3RT1055-6NF36 3RT1055-6NP36	1	1 unit	41B
	185	55	90	110	160	215	2	2	96 ... 127 200 ... 277	2	3RT1056-6NF36 3RT1056-6NP36	1	1 unit	41B
S10	225	55	110	160	200	275	2	2	96 ... 127 200 ... 277	2	3RT1064-6NF36 3RT1064-6NP36	1	1 unit	41B
	265	75	132	160	250	330	2	2	96 ... 127 200 ... 277	2	3RT1065-6NF36 3RT1065-6NP36	1	1 unit	41B
	300	90	160	200	250	330	2	2	96 ... 127 200 ... 277	5	3RT1066-6NF36 3RT1066-6NP36	1	1 unit	41B
S12	400	132	200	250	400	430	2	2	96 ... 127 200 ... 277	2	3RT1075-6NF36 3RT1075-6NP36	1	1 unit	41B
	500	160	250	355	400	610	2	2	96 ... 127 200 ... 277	2	3RT1076-6NF36 3RT1076-6NP36	1	1 unit	41B



											Spring-type terminals for coil and auxiliary switch terminals			
S6	115	37	55	75	110	160	2	2	96 ... 127 200 ... 277	5	3RT1054-3NF36 3RT1054-3NP36	1	1 unit	41B
	150	45	75	90	132	185	2	2	96 ... 127 200 ... 277	5	3RT1055-2NF36 3RT1055-2NP36	1	1 unit	41B
	185	55	90	110	160	215	2	2	96 ... 127 200 ... 277	5	3RT1056-2NF36 3RT1056-2NP36	1	1 unit	41B
S10	225	55	110	160	200	275	2	2	96 ... 127 200 ... 277	5	3RT1064-2NF36 3RT1064-2NP36	1	1 unit	41B
	265	75	132	160	250	330	2	2	96 ... 127 200 ... 277	5	3RT1065-2NF36 3RT1065-2NP36	1	1 unit	41B
	300	90	160	200	250	330	2	2	96 ... 127 200 ... 277	5	3RT1066-2NF36 3RT1066-2NP36	1	1 unit	41B
S12	400	132	200	250	400	430	2	2	96 ... 127 200 ... 277	5	3RT1075-2NF36 3RT1075-2NP36	1	1 unit	41B
	500	160	250	355	400	610	2	2	96 ... 127 200 ... 277	5	3RT1076-2NF36 3RT1076-2NP36	1	1 unit	41B

¹⁾ Alternatively, the 3RT1054 contactor (55 kW) can also be supplied with busbar connections instead of box terminals. In the 8th position of the article number, the "1" must be replaced with "6" for screw terminals, e. g. 3RT1054-6N..., for spring-type terminals, the "3" must be replaced with "2", e. g. 3RT1054-2N...

Other voltages according to page 3/74 on request.

For accessories and spare parts, see pages 3/75 to 3/123.

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW **IE3/IE4 ready**

AC/DC operation (50/60 Hz AC and DC)

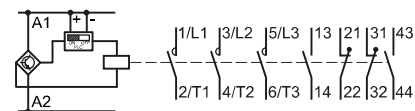
- Withdrawable coils with integrated coil switch (varistor)
- Auxiliary and control conductors: Screw terminals
- Main conductors: Busbar connections, for 3RT1054 (55 kW) box terminals¹⁾
- Indication of remaining lifetime (RLT)



3RT1056-6P..

Size	Rated data					AC-1, t_{ij} : 40 °C	Auxiliary contacts, lateral		Rated control supply voltage U_s	SD	Screw terminals	PU (UNIT, SET, M)	PS*	PG
	Operational current I_e up to	Ratings of three-phase motors at 50 Hz and					Operational current I_e up to	Version						
	500 V	230 V	400 V	500 V	690 V	690 V	NO	NC	V AC/DC	d	Article No.	Price per PU		
	A	kW	kW	kW	kW	A								

Solid-state operating mechanisms · with 24 V DC control signal input · with indication of remaining lifetime (RLT) e. g. for control from the PLC



S6	115	37	55	75	110	160	1	1	96 ... 127 200 ... 277	5 5	3RT1054-1PF35 3RT1054-1PP35	1 1	1 unit 1 unit	41B 41B
	150	45	75	90	132	185	1	1	96 ... 127 200 ... 277	5 5	3RT1055-6PF35 3RT1055-6PP35	1 1	1 unit 1 unit	41B 41B
	185	55	90	110	160	215	1	1	96 ... 127 200 ... 277	5 5	3RT1056-6PF35 3RT1056-6PP35	1 1	1 unit 1 unit	41B 41B
S10	225	55	110	160	200	275	1	1	96 ... 127 200 ... 277	5 5	3RT1064-6PF35 3RT1064-6PP35	1 1	1 unit 1 unit	41B 41B
	265	75	132	160	250	330	1	1	96 ... 127 200 ... 277	5 5	3RT1065-6PF35 3RT1065-6PP35	1 1	1 unit 1 unit	41B 41B
	300	90	160	200	250	330	1	1	96 ... 127 200 ... 277	5 5	3RT1066-6PF35 3RT1066-6PP35	1 1	1 unit 1 unit	41B 41B
S12	400	132	200	250	400	430	1	1	96 ... 127 200 ... 277	5 5	3RT1075-6PF35 3RT1075-6PP35	1 1	1 unit 1 unit	41B 41B
	500	160	250	355	400	610	1	1	96 ... 127 200 ... 277	5 5	3RT1076-6PF35 3RT1076-6PP35	1 1	1 unit 1 unit	41B 41B

¹⁾ Alternatively, the 3RT1054 contactor (55 kW) can also be supplied with busbar connections instead of box terminals. In the 8th position of the article number, the "1" must be replaced with "6", e.g. 3RT1054-6.....

Other voltages according to page 3/74 on request.

For accessories and spare parts, see pages 3/75 to 3/123.

Options

Rated control supply voltages for 3RT2 contactors, possible on request (change of the 10th and 11th digits of the article number)

Delivery time on request

Rated control supply voltage U_s	Contactor type	3RT201, 3RH2	3RT202	3RT203	3RT204
	Size	S00	S0	S2	S3

Sizes S00 to S3

AC operation¹⁾

Solenoid coils for 50 Hz (exception: Size S00: 50 and 60 Hz²⁾)

24 V AC	B0	B0	B0	B0
42 V AC	D0	D0	D0	D0
48 V AC	H0	H0	H0	H0
110 V AC	F0	F0	F0	F0
230 V AC	P0	P0	P0	P0
240 V AC	U0	U0	U0	U0
400 V AC	V0	V0	V0	V0

Solenoid coils for 50 and 60 Hz²⁾

24 V AC	B0	C2	C2	C2
42 V AC	D0	D2	D2	D2
48 V AC	H0	H2	H2	H2
110 V AC	F0	G2	G2	G2
220 V AC	N2	N2	N2	N2
230 V AC	P0	L2	L2	L2

Solenoid coils (for USA and Canada³⁾)

50 Hz	60 Hz				
110 V AC	120 V AC	K6	K6	K6	K6
220 V AC	240 V AC	P6	P6	P6	P6

Solenoid coils (for Japan)

50/60 Hz ⁴⁾	60 Hz ⁵⁾				
100 V AC	110 V AC	G6	G6	G6	G6
200 V AC	220 V AC	N6	N6	N6	N6
400 V AC	440 V AC	R6	R6	R6	R6

DC operation¹⁾

12 V DC	A4	A4	--	--
24 V DC	B4	B4	--	--
42 V DC	D4	D4	--	--
48 V DC	W4	W4	--	--
60 V DC	E4	E4	--	--
110 V DC	F4	F4	--	--
125 V DC	G4	G4	--	--
220 V DC	M4	M4	--	--
230 V DC	P4	P4	--	--

Examples

AC operation	3RT2023-1AP00	Contactor with screw terminals; with solenoid coil for 50 Hz for rated control supply voltage 230 V AC.
	3RT2023-1AG20	Contactor with screw terminals; with solenoid coil for 50/60 Hz for rated control supply voltage 110 V AC.
DC operation	3RT2025-2BB40	Contactor with spring-type terminals; for rated control supply voltage 24 V DC.
	3RT2025-2BG40	Contactor with spring-type terminals; for rated control supply voltage 125 V DC.

¹⁾ For deviating coil voltages and operating ranges of sizes S00 and S0, a SITOP 24 V DC power supply with wide-range input can be used for the coil control, see page 15/1 onwards.

²⁾ Coil operating range
- at 50 Hz: 0.8 to 1.1 x U_s
- at 60 Hz: 0.85 to 1.1 x U_s .

³⁾ Coil operating range
- Size S00:
at 50 Hz: 0.85 to 1.1 x U_s
at 60 Hz: 0.8 to 1.1 x U_s
- Sizes S0 to S3: at 50 Hz and 60 Hz: 0.8 to 1.1 x U_s .

⁴⁾ Coil operating range
- Size S00
at 50/60 Hz: 0.85 to 1.1 x U_s
- Size S0
at 50 Hz: 0.8 to 1.1 x U_s
at 60 Hz: 0.85 to 1.1 x U_s .

⁵⁾ Coil operating range at 60 Hz: 0.8 to 1.1 x U_s .

Rated control supply voltage	Contactor type	3RT2.2.-.N	Rated control supply voltage	Contactor type	3RT2.3.-.N	3RT2.4.-.N
$U_{s \min} \dots U_{s \max}^{1)}$	Size	S0	$U_{s \min} \dots U_{s \max}^{1)}$	Size	S2	S3

Sizes S00 to S3

AC/DC operation (50/60 Hz AC, DC)

21 ... 28 V AC/DC	B3	20 ... 33 V AC/DC	B3	B3
95 ... 130 V AC/DC	F3	83 ... 155 V AC/DC	F3	F3
200 ... 280 V AC/DC ²⁾	P3	175 ... 280 V AC/DC	P3	P3

¹⁾ Coil operating range
- Size S0: 0.7 x $U_{s \min}$ to 1.3 x $U_{s \max}$
- Sizes S2 and S3: 0.8 x $U_{s \min}$ to 1.1 x $U_{s \max}$.

²⁾ The following applies to S0 and $U_{s \max} = 280$ V: Upper limit = 1.1 x $U_{s \max}$.

Power Contactors for Switching Motors

SIRIUS 3RT contactors, 3-pole up to 250 kW

Rated control supply voltages for 3RT1 contactors, possible on request (change of the 10th and 11th digits of the article number)

Delivery time on request

Rated control supply voltage U_s	Contactor type	3RT1.5.-.A, 3RT1.6.-.A, 3RT1.7.-.A	Rated control supply voltage U_s	Contactor type	3RT1.5.-.N, 3RT1.6.-.N, 3RT1.7.-.N	3RT1.5.-.P, 3RT1.6.-.P, 3RT1.7.-.P
$U_{s \min} \dots U_{s \max}$	Size	S6 to S12	$U_{s \min} \dots U_{s \max}$	Size	S6 to S12	S6 to S12

Sizes S6 to S12

AC/DC operation (50/60 Hz AC, DC)

Conventional operating mechanisms¹⁾

23 ... 26 V AC/DC	B3
42 ... 48 V AC/DC	D3
110 ... 127 V AC/DC	F3
200 ... 220 V AC/DC	M3
220 ... 240 V AC/DC	P3
240 ... 277 V AC/DC	U3
380 ... 420 V AC/DC	V3
440 ... 480 V AC/DC	R3
500 ... 550 V AC/DC	S3
575 ... 600 V AC/DC	T3

Solid-state operating mechanisms²⁾

21 ... 27.3 V AC/DC	B3	--
96 ... 127 V AC/DC	F3	F3
200 ... 277 V AC/DC	P3	P3

¹⁾ Operating range: $0.8 \times U_{s \min}$ to $1.1 \times U_{s \max}$.

²⁾ Operating range: $0.7 \times U_{s \min}$ to $1.25 \times U_{s \max}$.

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays

General data

Overview

Extensive accessories and spare parts are available for SIRIUS 3RT power contactors and SIRIUS 3RH2 contactor relays.

These components are easily fitted to the contactors without the use of any tools according to requirements.

Overview graphics with mountable accessories

- For 3RT2 contactors, [see pages 3/7 to 3/10](#)
- For 3RT1 contactors, [see pages 3/11 to 3/14](#)
- For 3RH2 contactor relays, [see page 5/5](#)

Version	For contactors 3RT2, Sizes S00 to S3; 3RH2, Size S00	3RT1, Sizes S6 to S12	Selection and ordering data Page
Accessories for 3RT contactors and 3RH2 contactor relays			
Auxiliary switch blocks			
Instantaneous			
• Solid-state compatible auxiliary switch blocks	3RH29.1	3RH19.1	3/87 ... 3/99
Delayed			
• Pneumatic time-delay auxiliary switch blocks	3RT2926-2P..1	--	3/100
• Solid-state time-delay auxiliary switch blocks	3RA2813, 3RA2814, 3RA2815	3RT1926-2E/-2F/-2G	3/100, 3/101
Surge suppressors			
• Without LED	3RT29.6-1B/-1C/-1D/-1E	3RT19.6-1C	3/102, 3/103
• With LED	3RT29.6-1J/-1L/-1M	--	3/103
Modules for contactor control			
Coupling links for control by PLC	3RH29.4-.GP11	--	3/104
3RA28 function modules			
• For direct on-line starting: ON delay or OFF-delay	3RA2811, 3RA2812, 3RA2831, 3RA2832	--	3/105
• For star-delta (wye-delta) starting	3RA2816	--	3/105
3RA27 function modules for IO-Link or AS-Interface			
• For direct-on-line, reversing or star-delta (wye-delta) starting	3RA271.-.A/.B/.C	--	3/106
Mechanical latching blocks	3RT2926-3A.31	--	3/108
OFF-delay devices for contactors with AC/DC and DC operation	3RT2916-2B.01	--	3/108
Link modules			
Link modules from motor starter protector to contactor	3RA.9.1	--	7/49
Safety main current connectors for two contactors	3RA29.6-1A	--	3/109
Assembly kits			
• For reversing contactor assemblies	3RA29.3-2AA.	3RA19.3-2A	3/109
• For contactor assemblies for star-delta (wye-delta) starting	3RA29...2BB., 3RA29.3-2C	3RA1953-3G, 3RA19.3-2./-3.	3/110, 3/111
Single wiring modules			
Star jumpers (links for paralleling), 3-pole	3RA.9.3-3.A.	3RA19.3-3.	3/112
Mechanical interlock kits for two contactors	3RT.9.6-4BA3.	3RT19.6-4BA31	3/112
Mechanical interlocks for contactor assemblies	3RA29.2-2H	--	3/113
Mechanical interlocks for contactor assemblies	3RA2934-2B	3RA1954-2.	3/113
Mechanical connectors for contactor assemblies	3RA29.2-2.	3RA1932-2D	3/113
Terminal modules/adapters			
Links for paralleling for main circuits	3RT.9.6-4BB.1	--	3/114
Single-phase infeed terminals	3RA2943-3L	--	3/114
Three-phase infeed terminals	3RA2913-3K, 3RV29.5-5A.	--	3/114
• with increased clearances and creepage distances	3RV2935-5E	--	3/114
Three-phase busbars	3RV1915-1AB	--	3/114
Auxiliary terminals	--	3TX7500-0A	3/114
Box terminal blocks	--	3RT19...4G	3/114
Solder pin adapters for contactor assembly on printed circuit boards	3RT1916-4KA.	--	3/115
Coil connection modules for connections from top or from below	3RT2926-4R.1.	--	3/115
Motor feeder connector	3RT1900-4RE01	--	3/115
Covers			
Terminal covers	3RT29.6-4EA.	3RT19.6-4EA., 3TX65.6-3B	3/116
Sealable covers	3RT2916-4MA10	3RT1926-4MA10	3/116

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays

General data

Version	For contactors 3RT2, Sizes S00 to S3; 3RH2, Size S00	3RT1, Sizes S6 to S12	Selection and ordering data Page
Accessories for 3RT contactors and 3RH2 contactor relays (continued)			
Miscellaneous accessories			
Base plates			
• For reversing contactor assemblies	--	3RT19.2-2A	3/117
• For contactor assemblies for star-delta (wye-delta) starting	3RA29.2-2F	3RA19.2-2.	3/117
Adapters for screw fixing	3RT1926-4P	--	3/117
EMC suppression modules	3RT2916-1P..	--	3/117
Additional load modules	3RT2916-1GA00	--	3/118
LED modules for displaying contactor operation	3RT2926-1QT00	3RT1926-1QT00	3/118
Control kit for manual operation	3RT29.6-4MC00	--	3/118
Insulation stop for securely holding back the conductor insulation for conductors up to 1 mm²	3RT2916-4JA02	3RT1916-4JA02	3/119
Tools for opening spring-type terminals	3RA2908-1A	3RA2908-1A	3/119
Blank labels	3RT2900-1SB.0	3RT1900-1S..0	3/119
Spare Parts for 3RT2 Contactors			
Solenoid coils	3RT29...5...1	--	3/120, 3/121
Withdrawable coils	--	3RT19...5....	3/122
Contacts with fixing parts	3RT29...6.	3RT19...6.	3/123
Arc chambers	--	3RT19...7.	3/123

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays

Overview

Auxiliary switches

The auxiliary switches can be designed as positively driven contacts in 3RH contactor relays or also as mirror contacts in the case of 3RT power contactors.

For more information on positively driven operation and mirror contacts, see [Manuals](#) → "More information", page 3/82, and in the selection and ordering data from page 3/87 onwards.

Solid-state time-delay auxiliary switch blocks for mounting on 3RT2 contactors and 3RH2 contactor relays

See pages 3/82 and 3/100

The 3RA28 solid-state time-delay auxiliary switches which can be mounted onto the contactor are designed for applications in the range from 24 to 240 V AC/DC (wide voltage range). Both the electrical and mechanical connection are made by simple snapping on and locking.

The time-delay auxiliary switch is supplied with power directly by two plug-in contacts through the coil terminals of the contactor, in parallel with A/A2.

A protection circuit (varistor) is integrated in each module.

A sealable cover is available to protect against careless adjustment of the set times.

Note:

Mounting more auxiliary switches to the contactor is not permitted.

Surge suppressors

- Without LED (also for spring-type terminals)
Sizes S00 to S3, see page 3/102
- With LED (also for spring-type terminals):
Sizes S00 to S3, see page 3/103

All 3RT2 contactors and 3RH2 contactor relays can be retrofitted with RC elements or varistors for damping opening surges in the coil. Diodes or diode assemblies (comprising noise suppression diodes and Zener diodes for short break times) can be used.

The surge suppressors are plugged onto the front of size S00 contactors. Space is provided for them next to a snap-on auxiliary switch block.

Varistors, RC elements or diode assemblies can be plugged onto the front of size S0 to S3 contactors.

Coupling contactors are supplied either without overvoltage damping or with a suppressor diode, varistor or diode connected as standard, according to the version.

Note:

The OFF-delay of the NO contact and the ON-delay of the NC contact are increased if the contactor coils are attenuated against voltage peaks (noise suppression diode 6 to 10 times; diode assembly 2 to 6 times, varistor +2 to 5 ms).

Coupling links for control by PLC

See pages 3/84 and 3/104

- Operation with 24 V DC
- Operating range 17 to 30 V
- Low power consumption of 0.5 W
- An LED indicates the switching state.

The 3RH2924-1GP11 coupling link has an integrated surge suppressor (varistor) for the contactor coil being switched and is mounted onto the size S0 contactor coil via a coil connection module.

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays

Accessories

3RA28 function modules for mounting on 3RT2 contactors and 3RH2 contactor relays

See pages 3/85 and 3/105

Simply by being plugged in place, the SIRIUS function modules enable different functionalities required for the assembly of starters to be realized in the feeder. The function modules and wiring kits thus help to reduce the wiring work within the feeder practically to zero.

SIRIUS function modules for direct-on-line starting

The electronic timing relays which can be mounted onto the contactor are available in these versions:

- Sizes S00 and S0 for applications in the range from 24 to 240 V AC/DC (wide voltage range)
- Sizes S2 and S3 for applications in either the range from 24 to 90 V AC/DC or 90 to 240 V AC/DC

Both the electrical and mechanical connection are made by simple snapping on and locking.

A protection circuit (varistor) is integrated in each module.

The electronic timing relay with semiconductor output uses two contact legs to actuate the contactor underneath by means of a semiconductor after the set time t has elapsed.

The switching state feedback is performed by a mechanical switching state indicator (plunger). In addition, the auxiliary switches in the contactors are freely accessible and can be used for feedbacks to the control system or for signal lamps.

A sealable cover is available to protect against careless adjustment of the set times.

The snap-on function modules for direct-on-line starting are used above all for realizing timing functions independently of the control system.

With the OFF-delay variant of the timing relay it is possible for example for the fan motor for cooling a main drive to be switched off with a delay so that sufficient cooling after operation is guaranteed; the programmer of the control system does not need to worry about such technical details of the plant.

The ON-delay timing relays enable for example the time-delayed starting of several drives so that the summation starting current does not rise too high, which could result in voltage failure.

The use of snap-on function modules for direct-on-line starting results in the following advantages:

- Reduction of control current wiring
- Prevention of wiring errors
- Reduction of testing costs
- Implementation of timing functions independently of the control system
- Less space required in the control cabinet compared to a separate timing relay
- No additive protection circuit required (varistor integrated)

Assembly of reversing starters

We offer ready-made wiring kits for the assembly of reversing starters. Use of these wiring kits offers further advantages; see page 3/161.

SIRIUS function modules for star-delta (wye-delta) starting

Both interlocking and timing functions are required for the assembly of star-delta (wye-delta) starters. With the function modules for star-delta (wye-delta) starting and the matching link modules for the main circuit, these starters can be assembled easily and with absolutely no errors.

The entire sequence in the control circuit is integrated in the snap-on modules. This covers:

- An adjustable star time t from 0.5 to 60 s
- A non-adjustable dead interval of 50 ms
- Electrical contacting of the contactors by means of coil pick-off (contact legs)
- Feedback of the switching state at the contactor using a mechanical switch position indicator (plunger)
- Electrical interlocking between the contactors

These modules do not require their own terminals and can therefore be used for contactors with both screw and spring-type terminals in all the sizes S00 to S3. To start the star-delta (wye-delta) starter, only the first of the three contactors (line contactor) is actuated, like in the case of a direct-on-line starter. All other functions then take place inside the individual modules.

This also offers advantages if the timing function was previously implemented in a controller, as it again results in a significant reduction in the number of PLC outputs, the programming work and the wiring outlay.

The kits for the main circuit include the mechanical interlock, the star jumper, the wiring modules at the top and at the bottom, and the required connectors or connecting clips.

A protection circuit (varistor) is integrated in the basic module.

The function modules for star-delta (wye-delta) starting are mostly used where current-limiting measures for starting a drive are required and a high level of availability is essential at the same time. This technology has been used with success for several decades and has the additional advantage of requiring relatively little know-how. Through the use of function modules, the assembly work with simple standard components is even easier and absolutely error-free.

The use of function modules for star-delta (wye-delta) starting results in the following advantages:

- Operation solely through the line contactor A1/A2 – no further control current wiring needed
- Prevention of wiring errors
- Reduction of testing costs
- Integrated electrical interlocking saves costs and prevents errors
- Less space needed in the control cabinet compared to using a separate timing relay
- Adjustable starting in star mode from 0.5 to 60 s
- Independent of the contactor's control supply voltage (24 to 240 V AC/DC)
- Varistor integrated – no additive protection circuit required
- Mechanically coded assembly enables easy configuration and reliable wiring
- Fewer versions – one module kit for screw and spring-type connection and for all the contactor sizes S00 to S3
- Mechanical interlocking (with wiring kit for the main circuit)

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays

SIRIUS 3RA27 function modules for IO-Link or AS-Interface for mounting on 3RT2 contactors

See pages 3/86 and 3/106

The SIRIUS 3RA27 function modules enable the assembly of starters and contactor assemblies for direct-on-line, reversing and star-delta (wye-delta) starting without any additional, complicated wiring of the individual components. They include the key control functions required for the particular feeder, e.g. timing and interlocking, and can be connected to the control system via either IO-Link or AS-Interface.

The electrical and mechanical connection to the contactor is established by snapping on and locking. An additive protection circuit for the individual contactors can be dispensed with completely because a varistor is integrated in the modules. Feedback from the contactor contacts is performed with Hall sensors which provide reliable feedback concerning the switching state even under extremely dusty conditions.

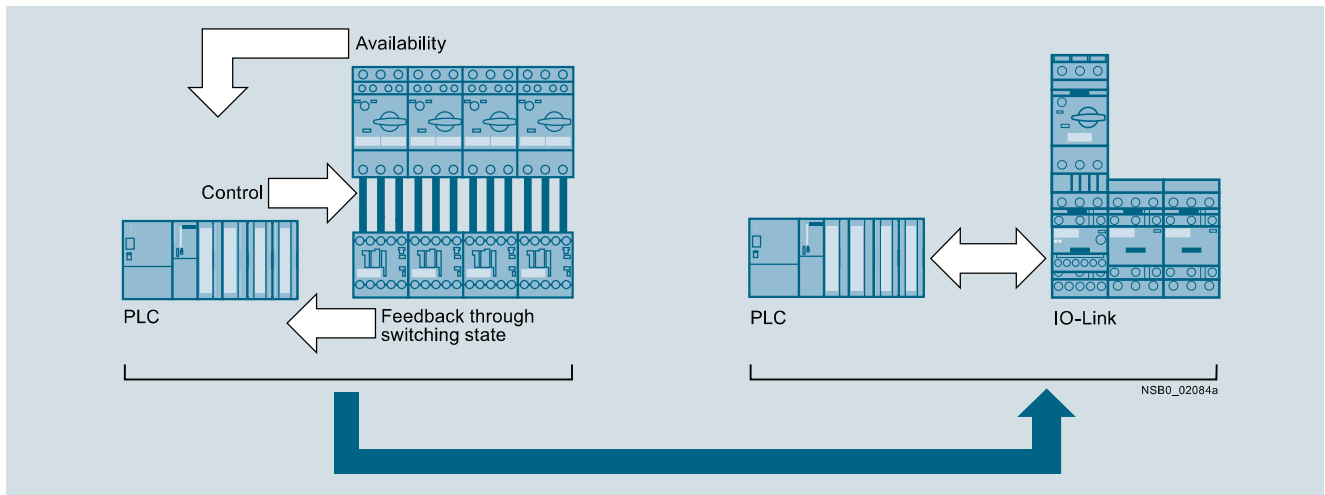
The starters are connected to the higher-level control system through IO-Link, with the possibility of connecting up to four starters as a group to one port of the IO-Link master,

or optionally via AS-Interface, Specification V2.1 or higher, in A/B technology. As a result, up to 62 starters can be connected to one master and the address is entered in the normal manner with an addressing unit.

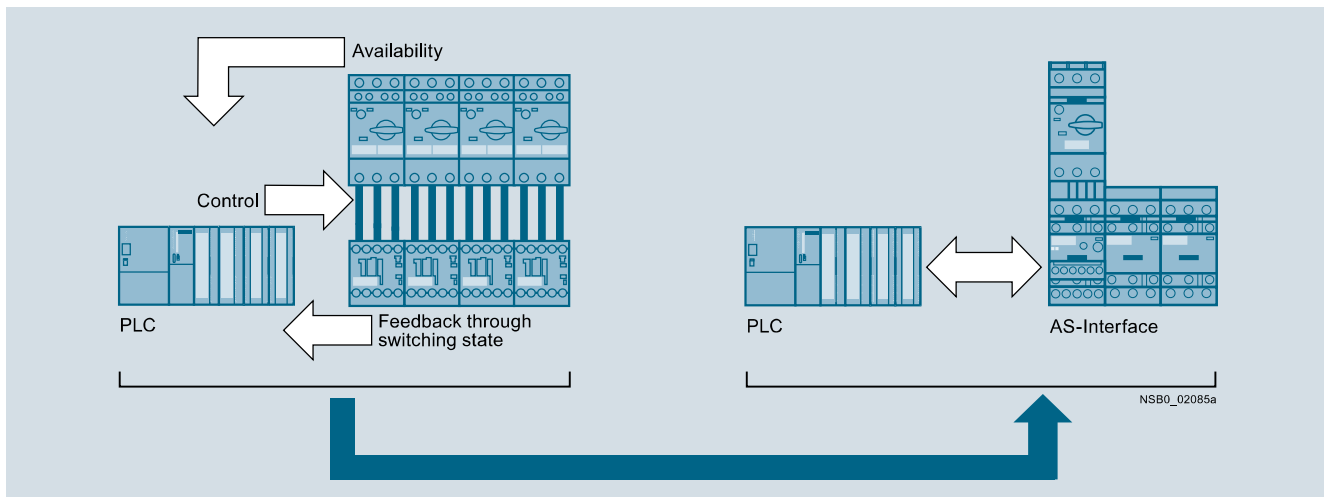
Through this type of connection to the control system, a maximum of wiring is saved. In the case of AS-Interface, the wiring amounts to the control supply voltage and the two individual wires for AS-Interface.

The following essential signals are thus transmitted:

- Availability of the feeder in response to an indirect inquiry from the motor starter protector/circuit breaker
- Starter control
- Feedback concerning the switching state of the starter



Signal transmission through IO-Link



Signal transmission through AS-Interface



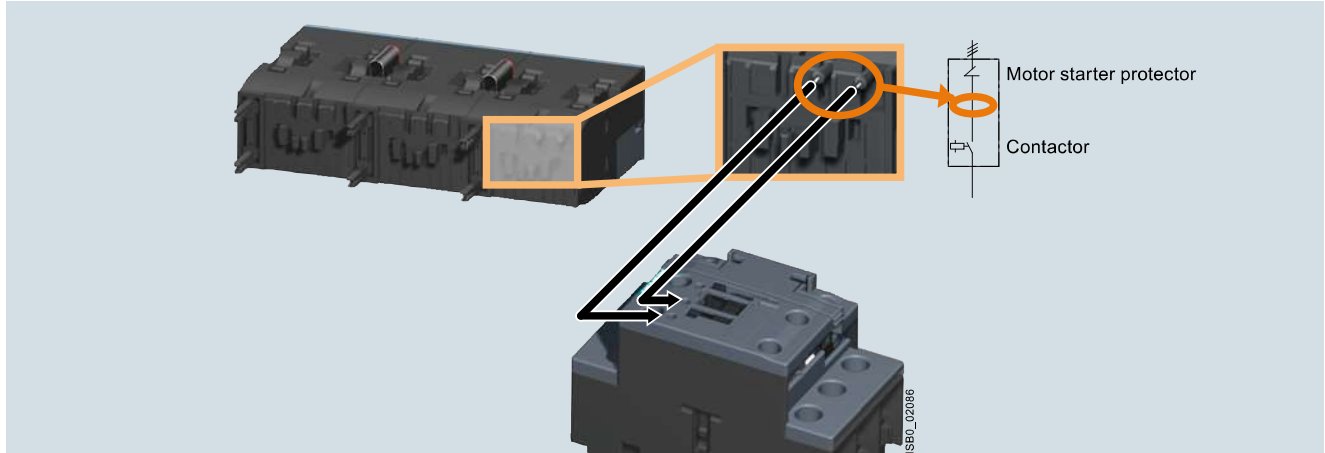
Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays

Accessories

The inquiry from the motor starter protector/circuit breaker does not take place through additive wiring between the auxiliary switch and the module but by means of a voltage inquiry at the contactor input.

This requires special versions of the contactors with voltage tap-off (see pages 3/58, 3/62, 3/67 and 3/69).



Availability signal through voltage tap-off

The following benefits result from the use of SIRIUS 3RA27 function modules:

- Reduction of control current wiring. In the case of IO-Link to no more than three cables for four feeders.
- Elimination of testing costs and wiring errors
- Reduction of configuration work
- Parameter server functionality
- Integration in TIA means unambiguous IO-Link diagnostics if a fault occurs

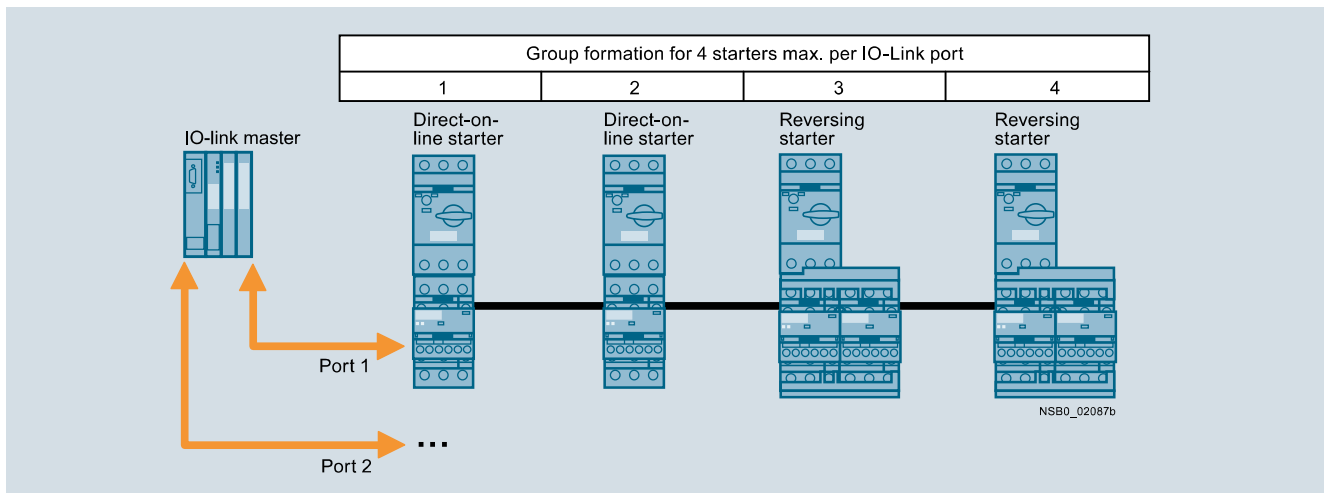
- Dispensing with IO modules saves space in the control cabinet
- All essential timing and interlocking functions for reversing duty and star-delta (wye-delta) starting are integrated
- No additive protection circuit required

For more information on IO-Link and AS-Interface, see "Industrial Communication", from page 2/1 onwards.

SIRIUS 3RA2711 function modules for IO-Link for mounting on 3RT2 contactors

By grouping up to four starters, it is possible to connect up to 16 starters to one master of the ET 200SP or S7-1200. In this case all the signals of the individual controls are made available directly in the process image of the input through only three individual wires per starter group. If the same potential is present

at the ET 200SP or S7-1200 master and at the switching devices, the wiring can be reduced further by connecting the supply voltage of the contactor coils to the communication wires via jumpers.



Group formation with IO-Link

In case of a malfunction, the corresponding error signals are also sent directly to the PLC in acyclic mode. This is in addition to transmission of the switching signals and status signals.

Possible error signals:

- Switching element defective
- No main voltage (motor starter protector tripped)
- No control supply voltage
- Limit position on the right / on the left
- Manual mode
- Process image fault

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays

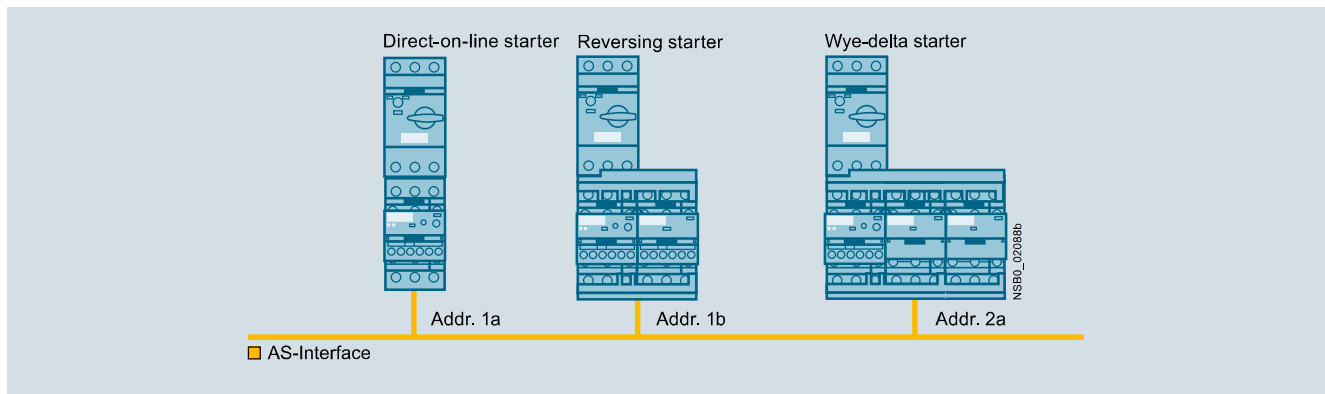
Accessories

This easy integration of the starters in the TIA world does not limit the flexibility in the field in the least. For example, all function modules have special terminals in order to enable direct local disconnection. These terminals can be connected for example to a position switch. The input interrupts the voltage supply to the contactor coil directly, i.e. without going through the PLC. These terminals are jumpered in the as-delivered state.

Local manual operation of the complete starter group is also straightforward using a hand-held device. The latter is easily connected to the last starter and can be built into the front panel of the control cabinet if required. This offers significant advantages particularly for commissioning.

SIRIUS function modules with IO-Link are used above all in machines and plants in which there are several motor feeders in one control cabinet. Using IO-Link, the connection of these feeders to the automation level is easy, quick and error-free. And with IO modules no longer needed, the width of the PLC is far smaller.

SIRIUS 3RA2712 function modules for AS-Interface for mounting on 3RT2 contactors



Topology with AS-Interface

This easy integration of the starters in the TIA world does not limit the flexibility in the field in the least. For example, all function modules have special terminals in order to enable direct local disconnection. These terminals can be connected for example to a position switch. The input interrupts the voltage supply to the contactor coil directly, i.e. without going through the PLC. These terminals are jumpered in the as-delivered state.

SIRIUS function modules with AS-Interface are recommended above all in machines and plants requiring easy connection of several different sensors and actuators both inside and outside the control cabinet to the higher-level control system. And with IO modules no longer needed, the width of the PLC is far smaller.

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays

Accessories

Technical specifications

More information	
Technical specifications <ul style="list-style-type: none"> For SIRIUS 3RT2 contactors and SIRIUS 3RH2 contactor relays, see https://support.industry.siemens.com/cs/ww/en/ps/16208/td For SIRIUS 3RT1 contactors, see https://support.industry.siemens.com/cs/ww/en/ps/16209/td FAQs <ul style="list-style-type: none"> For SIRIUS 3RT2 contactors and SIRIUS 3RH2 contactor relays, see https://support.industry.siemens.com/cs/ww/en/ps/16208/faq For SIRIUS 3RT1 contactors, see https://support.industry.siemens.com/cs/ww/en/ps/16209/faq 	Manuals, see <ul style="list-style-type: none"> System Manual "SIRIUS – System Overview", https://support.industry.siemens.com/cs/WWW/en/view/60311318 Manual "SIRIUS – SIRIUS 3RT Contactors/Contactor Assemblies", https://support.industry.siemens.com/cs/WWW/en/view/60306557 "SIRIUS manual - SIRIUS 3RA28 Function Modules for mounting on 3RT2 Contactors", https://support.industry.siemens.com/cs/ww/en/view/60279150 Manual "SIRIUS 3RA2711 Function Modules for IO-Link", https://support.industry.siemens.com/cs/ww/en/view/39319600 Manual "SIRIUS 3RA2712 Function Modules for AS-Interface", https://support.industry.siemens.com/cs/ww/en/view/39318922



Solid-state time-delay auxiliary switch blocks for mounting on 3RT202 to 3RT204 contactors (sizes S00 to S3) and 3RH2 contactor relays (size S00)

Type	3RA2813	3RA2814	3RA2815
Function	ON-delay	OFF-delay with control signal	OFF-delay without control signal
General data			
Dimensions (basic unit with mounted solid-state time-delay auxiliary switch block)	See 3RT2 contactors (pages 3/23, 3/29, 3/34, 3/39) and 3RH2 contactor relays (page 5/8)		
Rated insulation voltage U_i Pollution degree 3, overvoltage category III	V AC	300	
Rated impulse withstand voltage U_{imp}	kV AC	4	
Permissible ambient temperature			
• During operation	°C	-25 ... +60	
• During storage	°C	-40 ... +80	
Degree of protection acc. to IEC 60529		IP20	
Shock resistance Half-sine acc. to IEC 60068-2-27	g/ms	15/11	
Vibration resistance acc. to IEC 60068-2-6	Hz/mm	10 ... 55/0.35	
Electromagnetic compatibility (EMC)		IEC 61000-6-2, IEC 61000-6-4, IEC 61812-1, IEC 60947-4-1	
Overvoltage protection		Varistor integrated	
Permissible mounting position		Any (for the mounting position of 3RT2 contactors, see pages 3/23, 3/29, 3/34, 3/39; for the mounting position of 3RH2 contactor relays, see page 5/7)	
Control			
Operating range of excitation		0.85 ... 1.1 x U_s , 0.95 ... 1.05 times the rated frequency	
Rated power	W	1	
• Power consumption at 230 V AC, 50 Hz	VA	2	
Recovery time	ms	150	--
Minimum ON period	ms	--	35
Setting accuracy , typ., with reference to upper limit of scale		± 15 %	
Repeat accuracy , max.		± 1 %	
Load side			
Rated operational currents I_e			
• AC-15 at 24 ... 250 V, 50 Hz	A	3	
• DC-13	A	1	
- At 24 V	A	0.2	
- At 125 V	A	0.1	
- At 250 V	A		
Mechanical endurance	Operat- ing cycles	10 x 10 ⁶	
Electrical endurance at AC-15, 250 V, 3 A	Operat- ing cycles	100 000	
Switching frequency for load			
• With I_e at 230 V AC	h ⁻¹	2 500	
• With 3RT2 contactor at 230 V AC	h ⁻¹	2 500	
Residual current , max.	mA	--	
Voltage drop , max., with conducting output	VA	--	
Short-circuit protection			
• Fuse links, operational class gG: DIAZED, type 5SB	A	4	


Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays

Accessories

Type	3RA2813	3RA2814	3RA2815
Function	ON-delay	OFF-delay with control signal	OFF-delay without control signal
Conductor cross-sections			
Connection type (1 or 2 conductors can be connected)			
<ul style="list-style-type: none"> • Solid • Finely stranded with end sleeve (DIN 46228-1) • AWG cables, solid or stranded • Terminal screws • Tightening torque 	mm ²	 Screw terminals	
	mm ²	1 x (0.5 ... 4), 2 x (0.5 ... 2.5)	
	mm ²	1 x (0.5 ... 2.5), 2 x (0.5 ... 1.5)	
	AWG	2 x (20 ... 14)	
	Nm	M3 (for standard screwdriver size 2 or Pozidriv 2)	
		0.8 ... 1.2	
Connection type (1 or 2 conductors can be connected)			
<ul style="list-style-type: none"> • Solid • Finely stranded with end sleeve (DIN 46228-1) • Finely stranded without end sleeve • AWG cables, solid or stranded • Operating devices 	mm ²	 Spring-type terminals	
	mm ²	2 x (0.25 ... 1.5)	
	mm ²	2 x (0.25 ... 1.5)	
	mm ²	2 x (0.25 ... 1.5)	
	AWG	2 x (24 ... 16)	
	mm	3.0 x 0.5	

Solid-state time-delay auxiliary switch blocks, for snapping onto 3RT1 contactors



Type	3RT1926-2E, 3RT1926-2F, 3RT1926-2G	Type	3RT1926-2E, 3RT1926-2F, 3RT1926-2G								
Size	S6 to S12	Size	S6 to S12								
General data		Load side									
Dimensions (W x H x D)	mm 45 x 26 x 50	Rated operational currents I_e									
Rated insulation voltage U_i	V AC 250	<ul style="list-style-type: none"> • AC-15, 230 V, 50 Hz • DC-13, 24 V • DC-13, 110 V • DC-13, 230 V 	<table border="0"> <tr><td>A</td><td>3</td></tr> <tr><td>A</td><td>1</td></tr> <tr><td>A</td><td>0.2</td></tr> <tr><td>A</td><td>0.1</td></tr> </table>	A	3	A	1	A	0.2	A	0.1
A	3										
A	1										
A	0.2										
A	0.1										
Pollution degree 3 Overvoltage category III according to IEC 60664-1		Short-circuit protection									
Permissible ambient temperature		Fuse links, operational class gG: DIAZED, type 5SB	A 4								
<ul style="list-style-type: none"> • During operation • During storage 	<table border="0"> <tr><td>°C</td><td>-25 ... +60</td></tr> <tr><td>°C</td><td>-40 ... +80</td></tr> </table>	°C	-25 ... +60	°C	-40 ... +80	Mechanical endurance	Operating cycles 10 x 10 ⁶				
°C	-25 ... +60										
°C	-40 ... +80										
Degree of protection acc. to IEC 60529	IP20	Switching frequency for load									
Terminals	IP20	<ul style="list-style-type: none"> • with I_e at 230 V AC • With 3RT2016 contactor at 230 V AC 	<table border="0"> <tr><td>h⁻¹</td><td>2 500</td></tr> <tr><td>h⁻¹</td><td>5 500</td></tr> </table>	h ⁻¹	2 500	h ⁻¹	5 500				
h ⁻¹	2 500										
h ⁻¹	5 500										
Shock resistance Half-sine acc. to IEC 60068-2-27	g/ms 15/11	Conductor cross-sections									
Vibration resistance acc. to IEC 60068-2-6	Hz/mm 10 ... 55/0,35	Connection type (1 or 2 conductors can be connected)									
Electromagnetic compatibility (EMC)	IEC 61812-1	<ul style="list-style-type: none"> • Solid • Finely stranded with end sleeve • AWG cables, solid or stranded • Terminal screws • Tightening torque 	 Screw terminals								
Permissible mounting position	Any (see 3RT1 contactors, page 3/44)	mm ²	2 x (0.5 ... 1.5) 2 x (0.75 ... 4)								
Control		mm ²	2 x (0.5 ... 2.5)								
Operating range of excitation	0.85 ... 1.1 x U_s , 0.95 ... 1.05 times the rated frequency	AWG	2 x (18 ... 14)								
Rated power	W 2	M3									
Power consumption at 230 V AC, 50 Hz	VA 4	Nm	0.8 ... 1.2								
Recovery time	ms 150										
Minimum ON period	ms 200 (OFF-delay)										
Setting accuracy, typ. with reference to upper limit of scale	% ± 15										
Repeat accuracy, max.	% ± 1										

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays

Accessories

Coupling links for control by PLC



Type		3RH2924-1GP11	3RH2914-.GP11
Mounting on contactors of size		S0	S00 to S3
General data			
Standards		IEC 60947	
Rated insulation voltage U_i (pollution degree 3)	V	300	
Protective separation between coil and contacts acc. to IEC 60947-1, Appendix N	V AC	Up to 300	
Degree of protection acc. to IEC 60529		IP20	
• Connections		IP20	
Permissible ambient temperature			
• During operation	°C	-25 ... +60	
• During storage	°C	-40 ... +80	
Control side			
Rated control supply voltage U_s	V DC	24	
Operating range	V DC	17 ... 30	
Power consumption at U_s	W	0.5	
Nominal current input	mA	20	
Release voltage	V	≥ 4	
Function display		Yellow LED	
Protection circuit		Varistors	
Load side			
Mechanical endurance	Operat- ing cycles	20 million	10 million
Electrical endurance at I_e	Operat- ing cycles	0.1 million	
Switching frequency	h^{-1}	5 000 operating cycles/h	
Make-time	ms	Approx. 7	
Break-time	ms	Approx. 4	
Bounce time	ms	Approx. 2	
Contact material		AgSnO ₂	
Switching voltage	V AC/DC	24 ... 250	
Rated operational current I_e			
• AC-15/AC-14 at 230 V	A	3	
• DC-13 at 230 V	A	0.1	
Permissible residual current of the electronics (with 0 signal)	mA	2.5	
Conductor cross-sections			
Connection type (1 or 2 conductors can be connected)		 Screw terminals	
• Solid	mm ²	2 x (0.5 ... 2.5)	
• Finely stranded with end sleeve (DIN 46228-1)	mm ²	2 x (0.5 ... 1.5)	
• Terminal screws		M3	
Connection type (1 or 2 conductors can be connected)		 Spring-type terminals	
• Solid	mm ²	--	2 x (0.25 ... 1.5)
• Finely stranded with end sleeve (DIN 46228-1)	mm ²	--	2 x (0.25 ... 1.5)
• Finely stranded without end sleeve	mm ²	--	2 x (0.25 ... 1.5)
• AWG cables, solid or stranded	AWG	--	2 x (24 ... 16)
• Operating devices	mm	--	3.0 x 0.5

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays

Accessories

3RA28 function modules for mounting on 3RT2 contactors and 3RH2 contactor relays



Type		3RA2811	3RA2831	3RA2812	3RA2832	3RA2816
Mounting on contactors of size		S00, S0	S2, S3	S00, S0	S2, S3	S00 to S3
Function		For direct-on-line starting				For star-delta (wye-delta) starting
		ON-delay		OFF-delay with control signal		
General data						
Dimensions (basic unit with mounted function module)		See 3RT2 contactors (pages 3/23, 3/29, 3/34, 3/39) and 3RH2 contactor relays (page 5/8)				
Rated insulation voltage U_i Pollution degree 3 Overvoltage category III	V AC	300				
Rated impulse withstand voltage U_{imp}	kV AC	4				
Overvoltage protection		Varistor integrated				
Recovery time	ms	50				150
Minimum ON period	ms	--		35		--
Setting accuracy With reference to upper limit of scale	Typ.	± 15 %				
Repeat accuracy	Max.	± 1 %				
Degree of protection acc. to IEC 60529		IP20				
Permissible ambient temperature						
• During operation	°C	-25 ... +60				
• During storage	°C	-40 ... +80				
Shock resistance Half-sine acc. to IEC 60068-2-27	g/ms	15/11				
Vibration resistance acc. to IEC 60068-2-6	Hz/mm	10 ... 55/0.35				
Electromagnetic compatibility (EMC)		IEC 61000-6-2, IEC 61000-6-4, IEC 61812-1, IEC 60947-4-1				
Permissible mounting position		Any (for the mounting position of 3RT2 contactors, see pages 3/23, 3/29, 3/34, 3/39; for the mounting position of 3RH2 contactor relays, see page 5/7)				
Control side						
Operating range of excitation		0.85 ... 1.1 x U_s , 0.95 ... 1.05 times the rated frequency				
Rated power	W	1				
• Power consumption at 230 V AC, 50 Hz	VA	1				2
Load side						
Mechanical endurance	Operating cycles	100 x 10 ⁶				10 x 10 ⁶
Electrical endurance						
• With 3RT2028 contactor	Operating cycles	100 000				--
• At AC-15, 250 V, 3 A	Operating cycles	--				100 000
Switching frequency for load						
• With I_e at 230 V AC	h ⁻¹	2 500				--
• With 3RT2 contactor at 230 V AC	h ⁻¹	2 500				--
Residual current	Max.	mA	5	--	--	--
Voltage drop With conducting output	Max.	VA	3.5	--	--	--
DIAZED fuse protection	Operational class gG	A	--	--	--	4
Conductor cross-sections						
Connection type (1 or 2 conductors can be connected)		 Screw terminals				
• Solid	mm ²	1 x (0.5 ... 4), 2 x (0.5 ... 2.5)				--
• Finely stranded with end sleeve (DIN 46228-1)	mm ²	1 x (0.5 ... 2.5), 2 x (0.5 ... 1.5)				--
• AWG cables, solid or stranded	AWG	2 x (20 ... 14)				--
• Terminal screws		M3 (for standard screwdriver size 2 or Pozidriv 2)				--
• Tightening torque	Nm	0.8 ... 1.2				--
Connection type (1 or 2 conductors can be connected)		 Spring-type terminals				
• Operating devices	mm	3.0 x 0.5				--
• Solid	mm ²	2 x (0.25 ... 1.5)				--
• Finely stranded with end sleeve (DIN 46228-1)	mm ²	2 x (0.25 ... 1.5)				--
• Finely stranded without end sleeve	mm ²	2 x (0.25 ... 1.5)				--
• AWG cables, solid or stranded	AWG	2 x (24 ... 16)				--

Power Contactors for Switching Motors



Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays

Accessories

3RA27 function modules for IO-Link for mounting on 3RT2 contactors

Type		3RA2711	
General data			
Dimensions		See 3RT2 contactors on pages 3/23, 3/29, 3/34 and 3/39	
Suitable for IO-Link masters acc. to specification		1.1	
Permissible ambient temperature			
• During operation	Acc. to IEC 60947-1	°C	-25 ... +60
• During storage	Acc. to IEC 60721-3-1	°C	-40 ... +80
• During transport	Acc. to IEC 60721-3-2	°C	-40 ... +80
Degree of protection		IP20	
Operating voltage U_{HI}		V DC	24 ± 20 %
Max. length of the cables for the input Y1–Y2		Acc. to EN 50295	m
Electromagnetic compatibility (EMC)		IEC 61000-6-2, IEC 61000-6-4, IEC 60947-4-1	
Conductor cross-sections			
Connection type (1 or 2 conductors can be connected)		 Screw terminals	
• Solid	mm ²	1 x (0.5 ... 4), 2 x (0.5 ... 2.5)	
• Finely stranded with end sleeve (DIN 46228-1)	mm ²	1 x (0.5 ... 2.5), 2 x (0.5 ... 1.5)	
• AWG cables, solid or stranded	AWG	2 x (20 ... 14)	
• Terminal screws		M3 (for standard screwdriver Ø 6 mm or Pozidriv 2)	
• Tightening torque of the terminal screws	Nm	0.8 ... 1.2	
Connection type (1 or 2 conductors can be connected)		 Spring-type terminals	
• Operating devices	mm	3.0 x 0.5	
• Solid	mm ²	2 x (0.25 ... 1.5)	
• Finely stranded with end sleeve (DIN 46228-1)	mm ²	2 x (0.25 ... 1.5)	
• Finely stranded without end sleeve	mm ²	2 x (0.25 ... 1.5)	
• AWG cables, solid or stranded	AWG	2 x (24 ... 16)	

3RA27 function modules for AS-Interface for mounting on 3RT2 contactors

Type		3RA2712	
General data			
Dimensions		See 3RT2 contactors on pages 3/23, 3/29, 3/34 and 3/39	
Slave type		A/B slave	
Suitable for AS-i masters acc. to specification		2.1 or higher	
AS-i slave profile IO.ID.ID2		7.A.E	
ID1 code (factory setting)		7	
Permissible ambient temperature			
• During operation	Acc. to IEC 60947-1	°C	-25 ... +60
• During storage	Acc. to IEC 60721-3-1	°C	-40 ... +80
• During transport	Acc. to IEC 60721-3-2	°C	-40 ... +80
Degree of protection		IP20	
Operational voltage			
• AS-Interface	V	26.5 ... 31.6	
• AUX PWR 24 V DC	V	24 ± 20 %	
Current consumption, max.			
• AS-Interface	mA	30	
• AUX PWR			
- Maximum pick-up/hold current	Size S00	mA	200/200
	Size S0	mA	300/300
	Size S2	mA	1 300/50
	Size S3	mA	4 000/70
Max. length of the cables for the input Y1–Y2		Acc. to EN 50295	m
Electromagnetic compatibility (EMC)		IEC 61000-6-2, IEC 61000-6-4, IEC 60947-4-1	
Conductor cross-sections			
Connection type (1 or 2 conductors can be connected)		 Screw terminals	
• Solid	mm ²	1 x (0.5 ... 4), 2 x (0.5 ... 2.5)	
• Finely stranded with end sleeve (DIN 46228-1)	mm ²	1 x (0.5 ... 2.5), 2 x (0.5 ... 1.5)	
• AWG cables, solid or stranded	AWG	2 x (20 ... 14)	
• Terminal screws		M3 (for standard screwdriver Ø 6 mm or Pozidriv 2)	
• Tightening torque of the terminal screws	Nm	0.8 ... 1.2	
Connection type (1 or 2 conductors can be connected)		 Spring-type terminals	
• Operating devices	mm	3.0 x 0.5	
• Solid	mm ²	2 x (0.25 ... 1.5)	
• Finely stranded with end sleeve (DIN 46228-1)	mm ²	2 x (0.25 ... 1.5)	
• Finely stranded without end sleeve	mm ²	2 x (0.25 ... 1.5)	
• AWG cables, solid or stranded	AWG	2 x (24 ... 16)	

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays

Accessories

Auxiliary switch blocks, instantaneous

Selection and ordering data

Auxiliary switch: Terminal designations and identification numbers for auxiliary contacts

Terminal designations

The terminal designations are 2-digit, e.g. 13, 14, 21, 22:

- Tens digit: Sequence digit
 - Related terminals have the same sequence digit
- Units digit: Function digit
 - 1-2 for normally closed contacts (NC)
 - 3-4 for normally open contacts (NO)

Identification numbers

The identification number indicates the number and type of the auxiliary contacts, e.g. 40, 31, 22, 13:

- 1st digit: number of normally open contacts (NO)
- 2nd digit: number of normally closed contacts (NC)

Examples:

- 31 = 3 NO + 1 NC
- 40 = 4 NO

Selection aid for mountable auxiliary switch blocks for power contactors and contactor relays

The auxiliary switch blocks of the 3RH29 series for mounting on the front and side can be used for 3RT2 power contactors as well as for 3RH2 contactor relays.

The possible combinations of basic unit and mounted auxiliary switch block can be found in the tables; see pages 3/88 to 3/92.

Where the columns and lines intersect (blue and green in the example) you will find the identification number for the combination of basic unit (column) and auxiliary switch block (line).

Additional auxiliary switch blocks		3-pole contactors		
Article number	Auxiliary contacts	3RT201	3RT201	3RT202 to 3RT204
	Version	S00	S00	S0 to S3
	NO NC	10	01	11
		2, 3, 4, 5.	5, 6, 7, 8.	3, 4, 5, 6.
According to EN 50012¹⁾				
Auxiliary switch blocks without NO contacts				
3RH2911-□HA01	-- 1	11	02	12
3RH2911-□HA02	-- 2	12	03	13
3RH2911-□HA03	-- 3	13	04	14
3RH2911-□FA04	-- 4	14	--	--
Auxiliary switch blocks with 1 NO contact				
3RH2911-□HA10	1 --	20	11	21

- 1** For screw terminals
- 2** For spring-type terminals

¹⁾ Combinations according to EN 50012, EN 50011 and IEC 60947-5-1 are in **bold** print. All combinations comply with EN 50005.

Example 1

Basic unit: 3-pole 3RT2017 motor contactor with 1 NO

Required: 1 NO + 4 NC (Ident. No. 14)

Result: 3RH2911-.FA04 auxiliary switch block

Example 2

Basic unit: 3-pole 3RT2023 motor contactor with 1 NO + 1 NC

Required: 1 NO + 4 NC (Ident. No. 14)

Result: Auxiliary switch block 3RH2911-.HA03

	Example 1	Example 2
Type	3RT20 motor contactor, S00 with 1 NO	3RT20 motor contactor, S0 with 1 NO + 1 NC
Sequence digit	2. 3. 4. 5.	3. 4. 5. 6.
Type	Auxiliary switch blocks with 4 NC, 3RH2911-.FA04	Auxiliary switch blocks with 3 NC, 3RH2911-.HA03
Function digit	.1 .1 .1 .1 .2 .2 .2 .2	.1 .1 .1 .2 .2 .2
Combination	3RT20 motor contactor, S00 with aux. switch block	3RT20 motor contactor, S0 with aux. switch block
Terminal designation	13 21 31 41 51 14 22 32 42 52	13 21 31 41 51 14 22 32 42 52
Result	Ident. No. 14	Ident. No. 14

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays
Accessories

Auxiliary switch blocks, instantaneous

Additional auxiliary switch blocks		3-pole contactors			4-pole contactors				Contactor relays		
Article number	Auxiliary contacts Version	S00 3RT201	S0 to S3 3RT202, 3RT203, 3RT2.4	S00 3RT231	3RT251	S0, S2 3RT232, 3RT233	3RT252, 3RT253	S00 3RH21, 3RH24			
	NO NC	10	01	11	--	--	11	11	40E	31E	22E
		2, 3, 4, 5, 6, 7, 8	3, 4, 5, 6	1, 2, 3, 4	1, 2, 3, 4	3, 4, 5, 6	3, 4, 5, 6	5, 6, 7, 8	5, 6, 7, 8	5, 6, 7, 8	5, 6, 7, 8
		According to EN 50012¹⁾			According to EN 50012¹⁾				According to EN 50011¹⁾		

Auxiliary switch blocks, front

Without NO contact

3RH2911-□HA01	--	1		11	02	12	01	01	12	12	41X	32X	23X
3RH2911-□HA02	--	2		12	03	13	02	02	13	--	42E	33X	24
3RH2911-□HA03	--	3		13	04	14	03	--	--	--	43	34	--
3RH2911-□FA04	--	4		14	--	--	--	--	--	--	44E	--	--

With 1 NO contact

3RH2911-□HA10	1	--		20	11	21	10	10	21	21	50E	41E	32E
3RH2911-□HA11	1	1		21	12	22	11	11	22	22	51X	42X	33X
3RH2911-□HA12	1	2		22	13	23	12	12	23	--	52	43	34
3RH2911-□HA13	1	3		23	14	24	13	--	--	--	53X	44X	--

With 2 NO contacts

3RH2911-□HA20	2	--		30	21	31	20	20	31	31	60E	51X	42X
3RH2911-□HA21	2	1		31	22	32	21	21	32	32	61	52	43
3RH2911-□HA22	2	2		32	23	33	22	22	33	--	62X	53	44X
3RH2911-□FA22	2	2		32	23	33	22	22	33	--	62X	53	44X

With 3 NO contacts

3RH2911-□HA30	3	--		40	31	41	30	30	41	41	70	61	52
3RH2911-□HA31	3	1		41	32	42	31	31	42	42	71X	62X	53X

With 4 NO contacts

3RH2911-□FA40	4	--		50	41	51	40	40	51	51	80E	71X	62X
---------------	---	----	--	----	----	----	----	----	----	----	------------	------------	------------










¹⁾ Combinations according to EN 50012, EN 50011 and IEC 60947-5-1 are in **bold** print. All combinations comply with EN 50005.

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays




Accessories

Auxiliary switch blocks, instantaneous









Additional auxiliary switch blocks		3-pole contactors			4-pole contactors				Contactor relays				
Article number	Auxiliary contacts Version	S00 3RT201	S0 to S3 3RT202, 3RT203, 3RT2.4	S00	3RT231	3RT251	S0, S2 3RT232, 3RT233	3RT252, 3RT253	S00 3RH21, 3RH24				
	NO NC	10	01	11		--	--	11		40E	31E	22E	
													
		2. 3. 4. 5.	5. 6. 7. 8.	3. 4. 5. 6.				3. 4. 5. 6.		5. 6. 7. 8.	5. 6. 7. 8.	5. 6. 7. 8.	
		According to EN 50005			According to EN 50005				According to EN 50005				

Auxiliary switch blocks, front

With make-before-break¹⁾

3RH2911-□FB11	1	1		21	12	22	11	11	22	22	51	42	33
3RH2911-□FB22	2	2		32	23	33	22	22	33	--	62	53	44
3RH2911-□FC22	2	2		32	23	33	22	22	33	--	62	53	44

Complete inscription with terminals from top or bottom

3RH2911-1AA10	1	--		20	11	21	10	10	21	21	50	41	32
3RH2911-1BA10	1	--		20	11	21	10	10	21	21	50	41	32
3RH2911-1AA01	--	1		11	02	12	01	01	12	12	41	32	23
3RH2911-1BA01	--	1		11	02	12	01	01	12	12	41	32	23
3RH2911-1LA11	1	1		21	12	22	11	11	22	22	51	42	33
3RH2911-1MA11	1	1		21	12	22	11	11	22	22	51	42	33
3RH2911-1LA20	2	--		30	21	31	20	20	31	31	60	51	42
3RH2911-1MA20	2	--		30	21	31	20	20	31	31	60	51	42

¹⁾ Contacts with make-before-break have no mirror contact function.



Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays
Accessories

Auxiliary switch blocks, instantaneous

Additional auxiliary switch blocks		3-pole contactors			4-pole contactors				Contactor relays		
Article number	Auxiliary contacts Version	S00 3RT201	S0 to S3 3RT202, 3RT203, 3RT2.4	S00 3RT231	3RT251	S0, S2 3RT232, 3RT233	3RT252, 3RT253	S00 3RH21, 3RH24			
	NO NC	10 01	11	--	--	11	11	40E	31E	22E	
		2, 3, 4, 5, 5, 6, 7, 8.	3, 4, 5, 6.	1, 2, 3, 4.	1, 2, 3, 4.	3, 4, 5, 6.	3, 4, 5, 6.	5, 6, 7, 8	5, 6, 7, 8.	5, 6, 7, 8.	
		According to EN 50005			According to EN 50005				According to EN 50011 ¹⁾		

Auxiliary switch blocks, front

With complete inscription (for contactor relays)²⁾

3RH2911-□GA40	4	--		--	--	--	--	--	--	80E	--	--
3RH2911-□GA31	3	1		--	--	--	--	--	--	71E	--	--
3RH2911-□GA22	2	2		--	--	--	--	--	--	62E	--	--
3RH2911-□GA13	1	3		--	--	--	--	--	--	53E	--	--
3RH2911-□GA04	--	4		--	--	--	--	--	--	44E	--	--

Complete inscription

3RH2911-□XA40 -0MA0	4	--		50	41	51	40	40	51	51	80E	71X	62X
3RH2911-□XA31 -0MA0	3	1		41	32	42	31	31	42	42	71E	62X	53
3RH2911-□XA22 -0MA0	2	2		32	23	33	22	22	33	--	62E	53	44X
3RH2911-□XA04 -0MA0	--	4		14	--	--	--	--	--	--	44E	--	--

Solid-state compatible

3RH2911-□NF02	--	2		12	03	13	02	02	13	--	42	33	24
3RH2911-□NF11	1	1		21	12	22	11	11	22	22	51	42	33
3RH2911-□NF20	2	--		30	21	31	20	20	31	31	60	51	42

¹⁾ Combinations according to EN 50011 and IEC 60947-5-1 are in **bold** print.
All combinations comply with EN 50005.









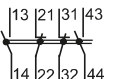
²⁾ For selection and ordering data, see page 3/95.

Power Contactors for Switching Motors
















Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays










Accessories

Auxiliary switch blocks, instantaneous

Additional auxiliary switch blocks		3-pole contactors			4-pole contactors				Contactor relays				
Article number	Auxiliary contacts Version	S00 3RT201	S0 to S3 3RT202, 3RT203, 3RT2.4		S00 3RT231	3RT251	S0, S2 3RT232, 3RT233		3RT252, 3RT253		S00 3RH21		
	NO NC	10	01	11	--	--	11	11	40E	31E	22E		
													
		2. 3. 4. 5.	5. 6. 7. 8.	3. 4. 5. 6.			3. 4. 5. 6.	3. 4. 5. 6.	5. 6. 7. 8.	5. 6. 7. 8.	5. 6. 7. 8.		
		According to EN 50012¹⁾			According to EN 50012¹⁾		According to EN 50012¹⁾		According to EN 50011¹⁾				

Lateral auxiliary switch blocks

For size S00		Left	Right										
3RH2911-□DA02	-- 2			12	--	--	02	02	--	--	--	--	--
3RH2911-□DA02	-- 4			14	--	--	--	--	--	--	--	--	--
3RH2911-□DA11	1 1			21	--	--	11	11	--	--	--	--	--
3RH2911-□DA11	2 2			32	--	--	22	22	--	--	--	--	--
3RH2911-□DA20	2 --			30	--	--	20	20	--	--	--	--	--
3RH2911-□DA20	4 --			50	--	--	40	40	--	--	--	--	--
3RH2911-□DA20 + 3RH2911-□DA11	2 -- 1 1			41	--	--	31	31	--	--	--	--	--
3RH2911-□DA20 + 3RH2911-□DA02	2 -- -- 2			32	--	--	22	22	--	--	--	--	--
3RH2911-□DA11 + 3RH2911-□DA02	1 1 -- 2			23	--	--	13	--	--	--	--	--	--

For sizes S0 to S3		Left	Right										
3RH2921-□DA02	-- 2			12	03	13	02	02	13	--	--	--	--
3RH2921-□DA02	-- 4			14	--	--	--	--	--	--	--	--	--
3RH2921-□DA11	1 1			21	12	22	11	11	22	22	--	--	--
3RH2921-□DA11	2 2			32	23	33	22	22	33	--	--	--	--
3RH2921-□DA20	2 --			30	21	31	20	20	31	31	--	--	--
3RH2921-□DA20	4 --			50	41	51	40	40	51	51	--	--	--

¹⁾ Combinations according to EN 50012, EN 50011 and IEC 60947-5-1 are in **bold** print. All combinations comply with EN 50005.

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays Accessories

Auxiliary switch blocks, instantaneous

Additional auxiliary switch blocks		3-pole contactors			4-pole contactors				Contactor relays		
Article number	Auxiliary contacts Version	S00 3RT201	S0 to S3 3RT202, 3RT203, 3RT2.4	S00 3RT231	3RT251	S0, S2 3RT232, 3RT233, 3RT253	S00 3RH21				
	NO NC	10	01	11	--	--	11	11	40E	31E	22E
		2. 3. 4. 5.	5. 6. 7. 8.	3. 4. 5. 6.	1. 2. 3. 4.	1. 2. 3. 4.	3. 4. 5. 6.	3. 4. 5. 6.	5. 6. 7. 8.	5. 6. 7. 8.	5. 6. 7. 8.
		According to EN 50012¹⁾			According to EN 50012¹⁾		According to EN 50012¹⁾		According to EN 50011¹⁾		

Lateral auxiliary switch blocks

For sizes S00 to S3		Left	Right												
3RH2921-□DA20	2	--			41	32	42	31	31	42	42	--	--	--	
+ 3RH2921-□DA11	1	1													
3RH2921-□DA20	2	--			32	23	33	22	22	33	--	--	--	--	
+ 3RH2921-□DA02	--	2													
3RH2921-□DA11	1	1			23	14	24	13	--	--	--	--	--	--	
+ 3RH2921-□DA02	--	2													

For contactor relays²⁾

For size S00		Left												
3RH2921-□DA02	--	2		--	--	--	--	--	--	--	--	42Z	33X	24
3RH2921-□DA11	1	1		--	--	--	--	--	--	--	--	51X	42X	33X
3RH2921-□DA20	2	--		--	--	--	--	--	--	--	--	60Z	51X	42X

Solid-state compatible

For size S00		Left	Right												
3RH2911-2DE11	1	1			21	--	--	11	11	--	--	--	--	--	
3RH2911-2DE11	2	2			32	--	--	22	22	--	--	--	--	--	

For sizes S00 to S3		Left	Right												
3RH2921-2DE11	1	1			21	12	22	11	11	22	22	--	--	--	
3RH2921-2DE11	2	2			32	23	33	22	22	33	--	--	--	--	

For contactor relays ²⁾		Left												
3RH2921-2DE11	1	1		--	--	--	--	--	--	--	--	51X	42X	33X

¹⁾ Combinations according to EN 50012, EN 50011 and IEC 60947-5-1 are in **bold** print. All combinations comply with EN 50005.

²⁾ Without positively driven operation.

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays

Accessories

Auxiliary switch blocks, instantaneous

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B



3RH2911-1HA22



3RH2911-2HA22

For contactors/ contactor relays ¹⁾	Auxiliary contacts Version	SD	Screw terminals	SD	Spring-type terminals
			Article No.		Price per PU
Type	NO NC	d		d	

Auxiliary switch blocks for snapping onto the front

Sizes S00 to S3

3RT2.1, 3RT2.2, 3RT2.3, 3RT2.4	--	1		▶	3RH2911-1HA01	▶	3RH2911-2HA01
3RH21, 3RH24	--	2		▶	3RH2911-1HA02	▶	3RH2911-2HA02
	--	3		5	3RH2911-1HA03	5	3RH2911-2HA03
	1	--		▶	3RH2911-1HA10	▶	3RH2911-2HA10
	1	1		▶	3RH2911-1HA11	▶	3RH2911-2HA11
	1	2		▶	3RH2911-1HA12	▶	3RH2911-2HA12
	1	3		▶	3RH2911-1HA13	▶	3RH2911-2HA13
	2	--		▶	3RH2911-1HA20	▶	3RH2911-2HA20
	2	1		▶	3RH2911-1HA21	▶	3RH2911-2HA21
	2	2		▶	3RH2911-1HA22	▶	3RH2911-2HA22
	3	--		5	3RH2911-1HA30	5	3RH2911-2HA30
	3	1		▶	3RH2911-1HA31	▶	3RH2911-2HA31

¹⁾ For detailed information on use, see page 3/88.

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays Accessories

Auxiliary switch blocks, instantaneous

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B



For contactors/ contactor relays ¹⁾	Connections Position	Auxiliary contacts Version	SD	Screw terminals	SD	Spring-type terminals
Type		NO NC NO NC	d	Article No. Price per PU	d	Article No. Price per PU

Auxiliary switch blocks for snapping onto the front

Sizes S00 to S3

3RT2.1, 3RT2.2, 3RT2.3, 3RT2.4	--	4	--	--	--		▶ 3RH2911-1FA40	▶ 3RH2911-2FA40
3RH21, 3RH24	--	2	2	--	--		▶ 3RH2911-1FA22	▶ 3RH2911-2FA22
	--	--	4	--	--		▶ 3RH2911-1FA04	▶ 3RH2911-2FA04
	--	--	--	1	1		▶ 3RH2911-1FB11	▶ 3RH2911-2FB11
	--	1	1	1	1		▶ 3RH2911-1FB22	▶ 3RH2911-2FB22
	--	--	--	2	2		▶ 3RH2911-1FC22	▶ 3RH2911-2FC22

1- and 2-pole auxiliary switch blocks, cable entry from top or bottom

3RT2.1, 3RT2.2, 3RT2.3, 3RT2.4	Top	1	--	--	--		▶ 3RH2911-1AA10	--
	Bottom	1	--	--	--		▶ 3RH2911-1BA10	--
3RH21, 3RH24	Top	--	1	--	--		▶ 3RH2911-1AA01	--
	Bottom	--	1	--	--		▶ 3RH2911-1BA01	--
	Top	1	1	--	--		▶ 3RH2911-1LA11	--
	Bottom	1	1	--	--		▶ 3RH2911-1MA11	--
	Top	2	--	--	--		▶ 3RH2911-1LA20	--
	Bottom	2	--	--	--		▶ 3RH2911-1MA20	--

¹⁾ For detailed information on use, see pages 3/88 and 3/89.

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays

Accessories

Auxiliary switch blocks, instantaneous

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B



3RH2911-1GA22



3RH2911-2GA22

For contactor relays ¹⁾	Contactor relay with auxiliary switch block	Auxiliary contacts	SD	Screw terminals		SD	Spring-type terminals	
	Ident. No.	Version		Article No.	Price per PU		Article No.	Price per PU
Type		NO NC	d			d		

Auxiliary switch blocks for snapping onto the front

Size S00

Blocks for the assembly of contactor relays with 8 contacts

3RH2140, 3RH2440, Ident. No. 40E	80E	4	--		▶	3RH2911-1GA40	▶	3RH2911-2GA40
	71E	3	1		▶	3RH2911-1GA31	▶	3RH2911-2GA31
	62E	2	2		▶	3RH2911-1GA22	▶	3RH2911-2GA22
	53E	1	3		▶	3RH2911-1GA13	▶	3RH2911-2GA13
	44E	--	4		▶	3RH2911-1GA04	▶	3RH2911-2GA04

¹⁾ For detailed information on use, see page 3/90.

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B



3RH2911-1XA22-0MA0



3RH2911-2XA22-0MA0

For contactors/ contactor relays ¹⁾	Auxiliary contacts	Version	SD	Screw terminals		SD	Spring-type terminals	
	Version			Article No.	Price per PU		Article No.	Price per PU
Type		NO NC	d			d		

Auxiliary switch blocks for snapping onto the front

Sizes S00 to S3

3RT2.1, 3RT2.2, 3RT2.3, 3RT2.4	4	--		▶	3RH2911-1XA40-0MA0	▶	3RH2911-2XA40-0MA0
3RH21, 3RH24	3	1		▶	3RH2911-1XA31-0MA0	▶	3RH2911-2XA31-0MA0
	2	2		▶	3RH2911-1XA22-0MA0	▶	3RH2911-2XA22-0MA0
	--	4		▶	3RH2911-1XA04-0MA0	5	3RH2911-2XA04-0MA0

¹⁾ For detailed information on use, see page 3/90.



Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays Accessories

Auxiliary switch blocks, instantaneous

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B



3RH1921-1C...



3RH1921-2C...

For contactors	Auxiliary contacts	SD	Screw terminals	SD	Spring-type terminals	
	Ident. No.	Version	Article No.	Price per PU	Article No.	Price per PU
Type	NO	NC	NO	NC	d	d

Auxiliary switch blocks for snapping onto the front

Sizes S6 to S12¹⁾

4-pole auxiliary switch blocks				• Acc. to EN 50012					
3RT1.5 ... 3RT1.7	22	2	2	--	--	5	3RH1921-1XA22-0MA0	20	3RH1921-2XA22-0MA0
1-pole auxiliary switch blocks				• Acc. to EN 50005 and EN 50012					
3RT1.5 ... 3RT1.7	10	1	--	--	--		▶ 3RH1921-1CA10		▶ 3RH1921-2CA10
	01	--	1	--	--		▶ 3RH1921-1CA01		▶ 3RH1921-2CA01
	10	--	--	1	--		▶ 3RH1921-1CD10		--
	01	--	--	--	1		▶ 3RH1921-1CD01		--

¹⁾ Exception: 3RT12.

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays

Accessories

Auxiliary switch blocks, instantaneous

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B



3RH2911-1DA02



3RH2911-2DA02

For contactors ¹⁾	Auxiliary contacts	SD	Screw terminals	SD	Spring-type terminals
	Version				
			Article No.		Article No.
Type	NO NC	d	Price per PU	d	Price per PU

Laterally mountable auxiliary switch blocks, mounting on the right and/or on the left, 2-pole

Size S00			Left	Right				
3RT2.1	--	2			2	3RH2911-1DA02	2	3RH2911-2DA02
	1	1			2	3RH2911-1DA11	2	3RH2911-2DA11
	2	--			2	3RH2911-1DA20	2	3RH2911-2DA20
Sizes S0 to S3			Left	Right				
3RT2.2 ²⁾ , 3RT2.3, 3RT2.4	--	2			2	3RH2921-1DA02	2	3RH2921-2DA02
	1	1			2	3RH2921-1DA11	2	3RH2921-2DA11
	2	--			2	3RH2921-1DA20	2	3RH2921-2DA20

¹⁾ For detailed information on use, see pages 3/91 and 3/92.

²⁾ With 3RT232. and 3RT252. contactors, mountable only on the right.



Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays Accessories

Auxiliary switch blocks, instantaneous

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B



3RH1921-1DA11,
 3RH1921-1JA11,
 3RH1921-1EA...,
 3RH1921-1KA...



3RH1921-2DA11,
 3RH1921-2JA11,
 3RH1921-2EA...,
 3RH1921-2KA...

For contactors	Auxiliary contacts	SD	Screw terminals	SD	Spring-type terminals	
	Version		Article No.	Price per PU	Article No.	Price per PU
Type	NO NC	d				

Lateral auxiliary switch blocks, mounting on the left or right, 2-pole

Left	Right			
Sizes S6 to S12				
First auxiliary switch block				
• Acc. to EN 50012				
3RT1.5 ... 3RT1.7	1 1			▶ 3RH1921-1DA11
• Acc. to EN 50005				
3RT1.5 ... 3RT1.7	2 --			▶ 3RH1921-1EA20
	1 1			▶ 3RH1921-1EA11
	-- 2			▶ 3RH1921-1EA02
Second auxiliary switch block				
• Acc. to EN 50012				
3RT1.5 ... 3RT1.7	1 1			▶ 3RH1921-1JA11
• Acc. to EN 50005				
3RT1.5 ... 3RT1.7	2 --			▶ 3RH1921-1KA20
	1 1			▶ 3RH1921-1KA11
	-- 2			▶ 3RH1921-1KA02

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays

Accessories

Auxiliary switch blocks, instantaneous

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B



3RH2911-1NF..



3RH2911-2NF..



3RH2911-2DE11



3RH1921-2DE11,
3RH1921-2JE11

For contactors/ contactor relays ¹⁾	Contacts Version	SD	Screw terminals	SD	Spring-type terminals
Type	NO NC	d	Article No.	Price per PU	Article No. Price per PU

Solid-state compatible auxiliary switch blocks, 2-pole

- For operation in dusty atmospheres
- For solid-state circuits with rated operational currents $I_{e/AC-14}$ and DC-13 from 1 ... 300 mA at 3 ... 60 V
- Hard gold-plated contacts
- Laterally mountable auxiliary switches and auxiliary switches for snapping onto the front for 3RT2 contactors, sizes S0 to S3, are designed as mirror contacts according to IEC 60947-4-1, Appendix F.

Auxiliary switch blocks for snapping onto the front

Sizes S00 to S3

3RT2.1, 3RT2.2, 3RT2.3, 3RT2.4	--	2		2	3RH2911-1NF02	2	3RH2911-2NF02
3RH21, 3RH24	1	1		▶	3RH2911-1NF11	▶	3RH2911-2NF11
	2	--		▶	3RH2911-1NF20	▶	3RH2911-2NF20

Lateral auxiliary switch blocks, mounting on the right and/or on the left acc. to EN 50012

Size S00

	Left	Right		
Auxiliary switch block				
3RT2.1	1	1		2 3RH2911-2DE11

Sizes S0 to S3

	Left	Right		
Auxiliary switch block				
3RT2.2, 3RT2.3, 3RT2.4	1	1		2 3RH2921-2DE11

Sizes S6 to S12

	Left	Right		
First auxiliary switch block				
3RT1.5 ... 3RT1.7	1	1		▶ 3RH1921-2DE11
Second auxiliary switch block				
3RT1.5 ... 3RT1.7	1	1		▶ 3RH1921-2JE11

¹⁾ For detailed information on use, see pages 3/90 and 3/92.

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays Accessories

Auxiliary switch blocks, delayed

Selection and ordering data

For contactors	Time setting range <i>t</i>	SD	Screw terminals	⊕	PU (UNIT, SET, M)	PS*	PG
Type	s	d	Article No.	Price per PU			
Pneumatic time-delay auxiliary switch blocks for mounting on 3RT2 contactors							
Size S0							
Auxiliary contacts 1 NO and 1 NC¹⁾							
ON-delay							
3RT202	0.1 ... 30	10	3RT2926-2PA01		1	1 unit	41B
	0.1 ... 30 ²⁾	10	3RT2926-2PA01-OMT0		1	1 unit	41B
	1 ... 60	10	3RT2926-2PA11		1	1 unit	41B
	1 ... 60 ²⁾	10	3RT2926-2PA11-OMT0		1	1 unit	41B
OFF-delay							
3RT202	0.1 ... 30	10	3RT2926-2PR01		1	1 unit	41B
	0.1 ... 30 ²⁾	10	3RT2926-2PR01-OMT0		1	1 unit	41B
	1 ... 60	10	3RT2926-2PR11		1	1 unit	41B
	1 ... 60 ²⁾	10	3RT2926-2PR11-OMT0		1	1 unit	41B

Pneumatic time-delay auxiliary switch blocks for mounting on 3RT2 contactors



3RT2926-2P...

¹⁾ In addition to these, no other auxiliary contacts are permitted.
²⁾ Certificate for furnaces according to EN 50156-1 on request.

For technical specifications, see manual "SIRIUS – SIRIUS 3RT Contactors/Contactor Assemblies", <https://support.industry.siemens.com/cs/WW/en/view/60306557>.

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B



3RA2813-1FW10



3RA2813-2AW10

For contactors	Rated control supply voltage <i>U_s</i> ¹⁾	Time setting range <i>t</i>	Output/Auxiliary contacts	SD	Screw terminals	⊕	SD	Spring-type terminals	⊕	
Type	V	s		d	Article No.	Price per PU	d	Article No.	Price per PU	
Solid-state time-delay auxiliary switch blocks²⁾ for mounting on 3RT2 contactors and 3RH2 contactor relays										
Sizes S00 to S3										
The electrical connection between the solid-state time-delay auxiliary switch and the contactor or contactor relay underneath is established automatically when it is snapped on and locked.										
ON-delay (varistor integrated)										
3RT2 ³⁾⁴⁾ , 3RH21 ³⁾ , 3RH24	24 ... 240 AC/DC	0.05 ... 100, (1, 10, 100 selectable)	1 CO 1 NO + 1 NC	2 2	3RA2813-1AW10 3RA2813-1FW10		2 2	3RA2813-2AW10 3RA2813-2FW10		
OFF-delay with control signal (varistor integrated)										
3RT2 ³⁾⁴⁾ , 3RH21 ³⁾ , 3RH24	24 ... 240 AC/DC	0.05 ... 100, (1, 10, 100 selectable)	1 CO 1 NO + 1 NC	2 2	3RA2814-1AW10 3RA2814-1FW10		2 2	3RA2814-2AW10 3RA2814-2FW10		
OFF-delay without control signal⁵⁾ (varistor integrated)										
3RT2 ³⁾⁴⁾ , 3RH21 ³⁾ , 3RH24	24 ... 240 AC/DC	0.05 ... 100, (1, 10, 100 selectable)	1 CO 1 NO + 1 NC	2 2	3RA2815-1AW10 3RA2815-1FW10		2 2	3RA2815-2AW10 3RA2815-2FW10		

Sizes S00 to S3

The electrical connection between the solid-state time-delay auxiliary switch and the contactor or contactor relay underneath is established automatically when it is snapped on and locked.

ON-delay (varistor integrated)

3RT2 ³⁾⁴⁾ , 3RH21 ³⁾ , 3RH24	24 ... 240 AC/DC	0.05 ... 100, (1, 10, 100 selectable)	1 CO 1 NO + 1 NC	2 2	3RA2813-1AW10 3RA2813-1FW10		2 2	3RA2813-2AW10 3RA2813-2FW10	
--	------------------	---------------------------------------	---------------------	--------	--	--	--------	--	--

OFF-delay with control signal (varistor integrated)

3RT2 ³⁾⁴⁾ , 3RH21 ³⁾ , 3RH24	24 ... 240 AC/DC	0.05 ... 100, (1, 10, 100 selectable)	1 CO 1 NO + 1 NC	2 2	3RA2814-1AW10 3RA2814-1FW10		2 2	3RA2814-2AW10 3RA2814-2FW10	
--	------------------	---------------------------------------	---------------------	--------	--	--	--------	--	--

OFF-delay without control signal⁵⁾ (varistor integrated)

3RT2 ³⁾⁴⁾ , 3RH21 ³⁾ , 3RH24	24 ... 240 AC/DC	0.05 ... 100, (1, 10, 100 selectable)	1 CO 1 NO + 1 NC	2 2	3RA2815-1AW10 3RA2815-1FW10		2 2	3RA2815-2AW10 3RA2815-2FW10	
--	------------------	---------------------------------------	---------------------	--------	--	--	--------	--	--

¹⁾ AC voltage values apply for 50 Hz and 60 Hz.
²⁾ The solid-state time-delay auxiliary switch blocks are also available as 3RA28 function modules for mounting on 3RT2 contactors and 3RH2 contactor relays; see page 3/105.
³⁾ Cannot be fitted onto coupling relays and coupling contactor relays.
⁴⁾ From product version E04 onwards, 3RA281. solid-state time-delayed auxiliary switch blocks can be used for 3RT2.4 contactors.
⁵⁾ Setting of output contacts in as-supplied state not defined (bistable relay). Application of the control supply voltage once results in contact change-over to the correct setting.



For technical specifications, see page 3/82.

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays

Accessories

Auxiliary switch blocks, delayed

For contactors	Auxiliary contacts	Rated control supply voltage U_s ¹⁾	Time setting range t	SD	Screw terminals 	PU (UNIT, SET, M)	PS*	PG		
Type		V	s	d	Article No.	Price per PU				
Solid-state time-delay auxiliary switch blocks										
For mounting on 3RT1 contactors										
Sizes S6 to S12										
ON-delay²⁾										
 3RT1926-2,...	3RT10, 3RT14	24 AC/DC	0.05 ... 1	10	3RT1926-2EJ11		1	1 unit	41H	
			0.5 ... 10	▶	3RT1926-2EJ21		1	1 unit	41H	
			5 ... 100	2	3RT1926-2EJ31		1	1 unit	41H	
	100 ... 127 AC	0.05 ... 1	15	3RT1926-2EC11	1		1 unit	41H		
		0.5 ... 10	▶	3RT1926-2EC21	1		1 unit	41H		
		5 ... 100	10	3RT1926-2EC31	1		1 unit	41H		
	200 ... 240 AC	0.05 ... 1	5	3RT1926-2ED11	1		1 unit	41H		
		0.5 ... 10	▶	3RT1926-2ED21	1		1 unit	41H		
		5 ... 100	5	3RT1926-2ED31	1		1 unit	41H		
	OFF-delay without control signal²⁾³⁾									
	3RT10, 3RT14	24 AC/DC	0.05 ... 1	▶	3RT1926-2FJ11		1	1 unit	41H	
			0.5 ... 10	▶	3RT1926-2FJ21		1	1 unit	41H	
5 ... 100			▶	3RT1926-2FJ31	1	1 unit	41H			
100 ... 127 AC/DC		0.05 ... 1	5	3RT1926-2FK11	1	1 unit	41H			
		0.5 ... 10	▶	3RT1926-2FK21	1	1 unit	41H			
		5 ... 100	5	3RT1926-2FK31	1	1 unit	41H			
200 ... 240 AC/DC		0.05 ... 1	5	3RT1926-2FL11	1	1 unit	41H			
		0.5 ... 10	2	3RT1926-2FL21	1	1 unit	41H			
		5 ... 100	2	3RT1926-2FL31	1	1 unit	41H			
Star-delta (wye-delta) starting (varistor integrated)²⁾										
3RT10, 3RT14	1 NO delayed + 1 NO instantaneous, dead time 50 ms	24 AC/DC	1.5 ... 30	▶	3RT1926-2GJ51	1	1 unit	41H		
		100 ... 127 AC	1.5 ... 30	▶	3RT1926-2GC51	1	1 unit	41H		
		200 ... 240 AC	1.5 ... 30	▶	3RT1926-2GD51	1	1 unit	41H		

¹⁾ The AC voltages are valid for 50 and 60 Hz.

²⁾ Connecting terminals A1 and A2 for the control supply voltage of the solid-state time-delay auxiliary switch must be connected to the associated contactor by means of connecting cables.

³⁾ Setting of output contacts in as-supplied state not defined (bistable relay). Application of the control supply voltage once results in contact change-over to the correct setting.

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays Accessories

Surge suppressors

Selection and ordering data

For contactors	Version	Rated control supply voltage U_s ¹⁾		SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
		AC operation	DC operation						
Type		V AC	V DC	d					

Surge suppressors without LED (also for spring-type terminals)

Size S00



3RT2916-1B.00

For plugging onto the front side of the contactors (with and without auxiliary switch blocks)

For contactors	Version	Rated control supply voltage U_s ¹⁾	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
		AC operation	DC operation					
Type		V AC	V DC	d				
3RT2.1, 3RH2	Varistors	24 ... 48	24 ... 70	▶	3RT2916-1BB00	1	1 unit	41B
		48 ... 127	70 ... 150	▶	3RT2916-1BC00	1	1 unit	41B
		127 ... 240	150 ... 250	▶	3RT2916-1BD00	1	1 unit	41B
		240 ... 400	--	▶	3RT2916-1BE00	1	1 unit	41B
		400 ... 600	--	2	3RT2916-1BF00	1	1 unit	41B
3RT2.1, 3RH2	RC element	24 ... 48	24 ... 70	▶	3RT2916-1CB00	1	1 unit	41B
		48 ... 127	70 ... 150	▶	3RT2916-1CC00	1	1 unit	41B
		127 ... 240	150 ... 250	▶	3RT2916-1CD00	1	1 unit	41B
		240 ... 400	--	2	3RT2916-1CE00	1	1 unit	41B
		400 ... 600	--	2	3RT2916-1CF00	1	1 unit	41B
3RT2.1, 3RH2	Noise suppression diode	--	12 ... 250	▶	3RT2916-1DG00	1	1 unit	41B
3RT2.1, 3RH2	Diode assemblies (diode and Zener diode) For DC operation	--	12 ... 250	▶	3RT2916-1EH00	1	1 unit	41B

Size S0



3RT2926-1E.00

For plugging onto the front side of the contactors (before installing the auxiliary switch block)

For contactors	Version	Rated control supply voltage U_s ¹⁾	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
		AC operation	DC operation					
Type		V AC	V DC	d				
3RT2.2	Varistors²⁾	24 ... 48	24 ... 70	▶	3RT2926-1BB00	1	1 unit	41B
		48 ... 127	70 ... 150	▶	3RT2926-1BC00	1	1 unit	41B
		127 ... 240	150 ... 250	▶	3RT2926-1BD00	1	1 unit	41B
		240 ... 400	--	▶	3RT2926-1BE00	1	1 unit	41B
		400 ... 600	--	2	3RT2926-1BF00	1	1 unit	41B
3RT2.2	RC elements	24 ... 48	24 ... 70	▶	3RT2926-1CB00	1	1 unit	41B
		48 ... 127	70 ... 150	▶	3RT2926-1CC00	1	1 unit	41B
		127 ... 240	150 ... 250	▶	3RT2926-1CD00	1	1 unit	41B
		240 ... 400	--	2	3RT2926-1CE00	1	1 unit	41B
		400 ... 600	--	2	3RT2926-1CF00	1	1 unit	41B
3RT2.2	Diode assemblies For DC operation	--	24	▶	3RT2926-1ER00	1	1 unit	41B
		--	30 ... 250	▶	3RT2926-1ES00	1	1 unit	41B

Sizes S2 and S3



3RT2936-1B.00

For plugging onto the front side of the contactors (before installing the auxiliary switch block)

For contactors	Version	Rated control supply voltage U_s ¹⁾	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
		AC operation	DC operation					
Type		V AC	V DC	d				
3RT2.3, 3RT2.4	Varistors²⁾³⁾	24 ... 48	--	▶	3RT2936-1BB00	1	1 unit	41B
		48 ... 127	--	▶	3RT2936-1BC00	1	1 unit	41B
		127 ... 240	--	▶	3RT2936-1BD00	1	1 unit	41B
		240 ... 400	--	5	3RT2936-1BE00	1	1 unit	41B
		400 ... 600	--	5	3RT2936-1BF00	1	1 unit	41B
3RT2.3	RC elements	24 ... 48	24 ... 70	▶	3RT2936-1CB00	1	1 unit	41B
		48 ... 127	70 ... 150	▶	3RT2936-1CC00	1	1 unit	41B
		127 ... 240	150 ... 250	▶	3RT2936-1CD00	1	1 unit	41B
		240 ... 400	--	5	3RT2936-1CE00	1	1 unit	41B
		400 ... 600	--	5	3RT2936-1CF00	1	1 unit	41B
3RT2.4	RC elements <i>NEW</i>	24 ... 48	24 ... 70	▶	3RT2946-1CB00	1	1 unit	41B
		48 ... 127	70 ... 150	▶	3RT2946-1CC00	1	1 unit	41B
		127 ... 240	150 ... 250	▶	3RT2946-1CD00	1	1 unit	41B
		240 ... 400	--	▶	3RT2946-1CE00	1	1 unit	41B
		400 ... 600	--	5	3RT2946-1CF00	1	1 unit	41B
3RT2.3, 3RT2.4	Diode assemblies³⁾ For DC operation	--	24	▶	3RT2936-1ER00	1	1 unit	41B
		--	30 ... 250	▶	3RT2936-1ES00	1	1 unit	41B

¹⁾ Can be used for AC operation for 50/60 Hz.
Please inquire about further voltages.

²⁾ The varistor is already integrated on the AC/DC contactors.

³⁾ From product version E03 onwards, 3RT2936-1B/-1E surge suppressors can be used for 3RT2.4 contactors.

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays

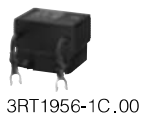
Accessories

Surge suppressors

For con- tactors	Version	Rated control supply voltage U_s ¹⁾		SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
		AC operation	DC operation						
Type		V AC	V DC	d					

Surge suppressors without LED

Sizes S6 to S12



For connecting to withdrawable coil for contactors with
 • conventional operating mechanism 3RT1...-A...
 • solid-state operating mechanism 3RT1...-N...

For con- tactors	Version	Rated control supply voltage U_s ¹⁾		SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
		AC operation	DC operation						
Type		V AC	V DC	d					
RC elements									
3RT1.5		24 ... 48	24 ... 70	▶	3RT1956-1CB00		1	1 unit	41B
...		48 ... 127	70 ... 150		3RT1956-1CC00		1	1 unit	41B
3RT1.7		127 ... 240	150 ... 250		3RT1956-1CD00		1	1 unit	41B
		240 ... 400	--		3RT1956-1CE00		1	1 unit	41B
		400 ... 600	--		3RT1956-1CF00		1	1 unit	41B
Screw terminals									
Spring-type terminals									
3RT1.5		24 ... 48	24 ... 70	▶	3RT1956-1CB02		1	1 unit	41B
...		48 ... 127	70 ... 150		3RT1956-1CC02		1	1 unit	41B
3RT1.7		127 ... 240	150 ... 250		3RT1956-1CD02		1	1 unit	41B
		240 ... 400	--		3RT1956-1CE02		1	1 unit	41B
		400 ... 600	--		3RT1956-1CF02		1	1 unit	41B

¹⁾ Can be used for AC operation for 50/60 Hz. Please inquire about further voltages.

For con- tactors	Version	Rated control supply voltage U_s ¹⁾		Power consumption P of the LED at U_s	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
		AC operation	DC operation							
Type		V AC	V DC	mW	d					

Surge suppressors with LED (also for spring-type terminals)

Size S00



For plugging onto the front side of the contactors
(with and without auxiliary switch blocks)

3RT2.1, 3RH2	Varistors	24 ... 48	12 ... 24	10 ... 120	▶	3RT2916-1JJ00		1	1 unit	41B
		48 ... 127	24 ... 70	20 ... 470		3RT2916-1JK00		1	1 unit	41B
		127 ... 240	70 ... 150	50 ... 700		3RT2916-1JL00		1	1 unit	41B
		--	150 ... 250	160 ... 950		3RT2916-1JP00		1	1 unit	41B
3RT2.1, 3RH2	Noise suppression diodes	--	24 ... 70	20 ... 470	▶	3RT2916-1LM00		1	1 unit	41B
		--	50 ... 150	50 ... 700		3RT2916-1LN00		1	1 unit	41B
		--	150 ... 250	160 ... 950		3RT2916-1LP00		1	1 unit	41B

Size S0



For plugging onto the front side of the contactors
(before installing the auxiliary switch block)

3RT2.2	Varistors	24 ... 48	12 ... 24	10 ... 120	▶	3RT2926-1JJ00		1	1 unit	41B
		48 ... 127	24 ... 70	20 ... 470		3RT2926-1JK00		1	1 unit	41B
		127 ... 240	70 ... 150	50 ... 700		3RT2926-1JL00		1	1 unit	41B
3RT2.2	Diode assemblies	--	24	20 ... 470	▶	3RT2926-1MR00		1	1 unit	41B

Sizes S2 and S3



For plugging onto the front side of the contactors
(before installing the auxiliary switch block)

3RT2.3, 3RT2.4	Varistors²⁾	24 ... 48	12 ... 24	10 ... 120	▶	3RT2936-1JJ00		1	1 unit	41B
		48 ... 127	24 ... 70	20 ... 470		3RT2936-1JK00		1	1 unit	41B
		127 ... 240	70 ... 150	50 ... 700		3RT2936-1JL00		1	1 unit	41B

¹⁾ Can be used for AC operation for 50/60 Hz. Please inquire about further voltages.





²⁾ From product version E03 onwards, 3RT2936 surge suppressors can be used for 3RT2.4 contactors.

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays
Accessories

Modules for contactor control

Selection and ordering data

For contactors	Version	SD	Screw terminals 	PU (UNIT, SET, M)	PS*	PG
Type		d	Article No.	Price per PU		
Coupling links for control by PLC						
Size S0						
						
3RT2.2			For mounting onto the coil terminals of the contactors (for contactors with screw terminals only) With LED for the switching state and with integrated varistor for damping opening surges • 24 V DC control, 17 ... 30 V DC operating range	3RH2924-1GP11	1	1 unit 41B
Sizes S00 to S3						
						
3RT2.1, 3RT2.2, 3RT2.3, 3RT2.4 3RH2		5	For mounting on the front side of contactors with AC, DC or AC/DC operation • 24 V DC control, 17 ... 30 V DC operating range	3RH2914-1GP11	1	1 unit 41B
3RT2.1, 3RT2.2, 3RT2.3, 3RT2.4 3RH2		5	• 24 V DC control, 17 ... 30 V DC operating range	Spring-type terminals  3RH2914-2GP11	1	1 unit 41B

For technical specifications, see page 3/84.

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays

Accessories

Modules for contactor control

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B





3RA2811-2CW10



3RA2812-1DW10



3RA2816-0EW20

For contactors	Size	Version	Rated control supply voltage $U_g^{1)}$	Time setting range t	SD	Screw terminals 	SD	Spring-type terminals 	
Type			V AC/DC	s	d	Article No.	Price per PU	Article No.	Price per PU
3RA28 function modules for mounting on 3RT2 contactors and 3RH2 contactor relays									
For direct-on-line starting									
3RT2.1 ²⁾ , 3RT2.2 ²⁾ , 3RH21 ²⁾ , 3RH24	S00, S0	ON-delay Two-wire design, varistor integrated	24 ... 240	0.05 ... 100 (1, 10, 100; selectable)	2	3RA2811-1CW10	2	3RA2811-2CW10	
The electrical connection between the function module and the contactor underneath is established automatically when it is snapped on and locked.									
3RT2.3 ²⁾ , 3RT2.4 ²⁾³⁾	S2, S3		24 ... 90 90 ... 240	0.05 ... 100 (1, 10, 100; selectable)	2	3RA2831-1DG10 3RA2831-1DH10	2 2	3RA2831-2DG10 3RA2831-2DH10	
The electrical connection between the function module and the contactor underneath is established automatically when it is snapped on and locked.									
3RT2.1 ²⁾ , 3RT2.2 ²⁾ , 3RH21 ²⁾ , 3RH24	S00, S0	OFF-delay with control signal Varistor integrated	24 ... 240	0.05 ... 100 (1, 10, 100; selectable)	2	3RA2812-1DW10	2	3RA2812-2DW10	
The electrical connection between the function module and the contactor underneath is established automatically when it is snapped on and locked.									
3RT2.3 ²⁾ , 3RT2.4 ²⁾³⁾	S2, S3		24 ... 90 90 ... 240	0.05 ... 100 (1, 10, 100; selectable)	2	3RA2832-1DG10 3RA2832-1DH10	2 2	3RA2832-2DG10 3RA2832-2DH10	
The electrical connection between the function module and the contactor underneath is established automatically when it is snapped on and locked.									
For star-delta (wye-delta) starting									
3RT2.1, 3RT2.2, 3RT2.3 ²⁾ , 3RT2.4 ²⁾⁴⁾	S00 ... S3	Varistor integrated	24 ... 240	0.5 ... 60 (10, 30, 60; selectable)	2	3RA2816-0EW20	2	3RA2816-0EW20	
The electrical connection between the function module and the contactor assembly is established automatically by snapping on and plugging in the connecting cables.									
Accessories									
3RA28	S00 ... S3	Sealable covers			2	3RA2910-0	2	3RA2910-0	

- 1) AC voltage values apply for 50 Hz and 60 Hz.
 2) Cannot be fitted onto coupling relays and coupling contactor relays.
 3) From product version E03 onwards, 3RA283. function modules can be used for 3RT2.4 contactors.
 4) From product version E04 onwards, 3RA2816 function modules can be used for 3RT2.4 contactors.

For technical specifications, see page 3/85.

Assembly of reversing starters

We offer ready-made wiring kits for the assembly of reversing starters. Use of these wiring kits offers further advantages; see page 3/161.

Manual

For the manual "SIRIUS – SIRIUS 3RA28 function modules for mounting on 3RT2 contactors", see <https://support.industry.siemens.com/cs/ww/en/view/60279150>.

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays Accessories

Modules for contactor control

PU (UNIT, SET, M) = 1
 PS* = 1 unit
 PG = 41B





3RA2711-1AA00 3RA2711-2AA00 3RA2711-1BA00

3RA2711-2BA00

3RA2712-1CA00

3RA2711-2CA00

For contactors	Version	SD	Screw terminals 	SD	Spring-type terminals 	
Type		d	Article No.	Price per PU	d Article No.	Price per PU
SIRIUS 3RA27 function modules for direct-on-line starting						
3RT201	IO-Link connection	2	3RA2711-1AA00	2	3RA2711-2AA00	
...	Includes one module connector for assembling an IO-Link group					
3RT204 ¹⁾	AS-Interface connection	2	3RA2712-1AA00	2	3RA2712-2AA00	
SIRIUS 3RA27 function modules for reversing starting²⁾						
3RT201	IO-Link connection	2	3RA2711-1BA00	2	3RA2711-2BA00	
...	comprising one basic and one coupling module and an additional module connector ³⁾ for assembling an IO-Link group					
3RT204 ¹⁾	AS-Interface connection	2	3RA2712-1BA00	2	3RA2712-2BA00	
	comprising one basic and one coupling module					
	Assembly kits for making 3-pole contactor assemblies					
	See page 3/109					
SIRIUS 3RA27 function modules for star-delta (wye-delta) starting⁴⁾						
3RT201	IO-Link connection	2	3RA2711-1CA00	2	3RA2711-2CA00	
...	comprising one basic and two coupling modules and an additional module connector ³⁾ for assembling an IO-Link group					
3RT204 ¹⁾	AS-Interface connection	2	3RA2712-1CA00	2	3RA2712-2CA00	
	comprising one basic and two coupling modules					
	Assembly kits for making 3-pole contactor assemblies					
	See page 3/110					

¹⁾ From product version E06 onwards, 3RA271. function modules can be used for 3RT2.4 contactors.

²⁾ For prewired reversing contactor assemblies with voltage tap-off, [see pages 3/162 to 3/165](#). When these contactor assemblies are used, the assembly kit for the wiring is already integrated.

³⁾ 3RA2711-0EE17 module connectors for size S3 must be ordered separately; [see page 3/107](#).

⁴⁾ For complete contactor assemblies for star-delta (wye-delta) starting including function modules, [see pages 3/179 to 3/182](#).

For technical specifications for 3RA27 function modules, [see page 3/86](#).

For contactors with voltage tap-off, [see pages 3/58, 3/62, 3/67 and 3/69](#).

For IO-Link masters and AS-Interface masters, routers and power supply units [see "Industrial Communication", from page 2/1 onwards](#).

Manuals

- Manual "SIRIUS – SIRIUS 3RA2711 Function Modules for IO-Link": [see https://support.industry.siemens.com/cs/ww/en/view/39319600](https://support.industry.siemens.com/cs/ww/en/view/39319600)
- Manual "SIRIUS – SIRIUS 3RA2712 Function Modules for AS-Interface": [see https://support.industry.siemens.com/cs/ww/en/view/39318922](https://support.industry.siemens.com/cs/ww/en/view/39318922)

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays

Accessories

Modules for contactor control




For function modules	Version	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Type		d					
Accessories for 3RA27 function modules							
3RA271.-...A00	Module connector set Comprising: • Two module connectors, (14-pole, short) • Two interface covers	2	3RA2711-0EE10		1	1 unit	41B
3RA271.-...A00	Module connectors • 14-pole - 6 cm - 9 cm - 13 cm - 26 cm - 33.5 cm • 10-pole, 9 cm for additional auxiliary voltage infeed <u>Note:</u> For selection of module connectors, see Manual "SIRIUS – SIRIUS 3RA2711 Function Modules for IO-Link", https://support.industry.siemens.com/cs/ww/en/view/39319600	NEW 2 2 NEW 2 2 2	3RA2711-0EE17 3RA2711-0EE06 3RA2711-0EE18 3RA2711-0EE07 3RA2711-0EE08 3RA2711-0EE16		1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	41B 41B 41B 41B 41B 41B
3RA271.-...A00	Interface covers (Set of 5)	2	3RA2711-0EE15		1	1 unit	41B
3RA271.-...A00	Sealable covers	2	3RA2910-0		1	5 units	41B
Operator panel for communication via IO-Link							
3RA2711-...A00	Operator panel (set) Comprising: • 1 x operator panel • 1 x enabling module • 1 x interface cover • 1 x fixing terminal	10	3RA6935-0A		1	1 unit	42F
3RA2711-...A00	Connection cables For connecting the operator panel to the coupling module Length 2 m, 10- to 14-pole	2	3RA2711-0EE11		1	1 unit	41B
3RA2711-...A00	Enabling modules (replacement)	10	3RA6936-0A		1	1 unit	42F
3RA2711-...A00	Interface covers (replacement)	10	3RA6936-0B		1	5 units	42F

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays
Accessories

Modules for contactor control

For contactors	Rated control supply voltage U_s	Time setting range t	SD	Screw terminals 	PU (UNIT, SET, M)	PS*	PG
Type	V	s	d	Article No.	Price per PU		

Mechanical latching blocks (no switching state change in the event of voltage drop)

Size S0

For snapping onto the front of contactors

The contactor remains in the energized state after a power failure.



3RT2926-3A.31

3RT202	24 AC/DC	--	5	3RT2926-3AB31		1	1 unit	41B
	110 AC/DC	--	5	3RT2926-3AF31		1	1 unit	41B
	230 AC/DC	--	5	3RT2926-3AP31		1	1 unit	41B

OFF-delay devices for contactors with AC/DC and DC operation

Sizes S00 to S3

Non-adjustable delay time



3RT2916-2B.01

3RT201.-1BF4., 3RT202.-1BF4., 3RT203.-1NF3., 3RH2...-1BF40	110 AC/DC	S00: > 0.1 S0: > 0.08 S2: > 0.25	5	3RT2916-2BK01		1	1 unit	41B
3RT201.-1BM4./1BP4., 3RT202.-1BM4./1BP4., 3RT203.-1NP3., 3RH2...-1BM40/1BP40	220/230 AC/DC	S00: > 0.5 S0: > 0.3 S2: > 0.8	5	3RT2916-2BL01		1	1 unit	41B
3RT201.-1BB4., 3RT202.-1BB4., 3RT203.-1NB3., 3RT2.4.-1NB3., 3RH2...-1BB40	24 DC	S00: > 0.2 S0: > 0.1 S2: > 0.1 S3: > 0.05	2	3RT2916-2BE01		1	1 unit	41B

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays

Accessories

[Link modules](#)


Selection and ordering data

For contactors	Size	Version	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
----------------	------	---------	----	-------------	--------------	-------------------	-----	----

Type

d

Safety main circuit connectors for two contactors

	3RT2.1	S00	For series connection of two contactors	2	3RA2916-1A		1	1 unit	41B
	3RT2.2	S0		2	3RA2926-1A		1	1 unit	41B
	3RT2.3	S2		2	3RA2936-1A		1	1 unit	41B

3RA2926-1A

PU (UNIT, SET, M) = 1
 PS* = 1 unit (unless otherwise specified)
 PG = 41B






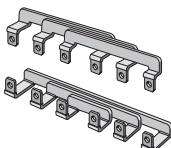
For contactors	Size	Version	SD	Article No.	Price per PU	SD	Article No.	Price per PU
----------------	------	---------	----	-------------	--------------	----	-------------	--------------

Type

d

d

Assembly kits for reversing contactor assemblies for making 3-pole contactor assemblies

				Screw terminals 	Spring-type terminals 
	3RT201	S00-S00	The assembly kit contains: mechanical interlock, two connecting clips for two contactors, wiring modules on the top and bottom • For main, auxiliary and control circuits ▶	3RA2913-2AA1	3RA2913-2AA2
	3RA2923-2AA1	3RT202	S0-S0	The assembly kit contains: mechanical interlock, two connecting clips for two contactors, wiring modules on the top and bottom • For main, auxiliary and control circuits ¹⁾ ▶ • Only for main circuit ²⁾	3RA2923-2AA1
	3RT203	S2-S2	The assembly kit contains: two connectors for two contactors, wiring modules on the top and bottom (The 3RA2934-2B mechanical interlock must be ordered separately; see page 3/113) • For main and auxiliary circuits ▶ • Only for main circuit ³⁾	3RA2933-2AA1	--
	3RA2923-2AA2	3RT2.4	S3-S3	The kit contains: two connectors for two contactors, wiring modules on the top and bottom (The 3RA2934-2B mechanical interlock must be ordered separately; see page 3/113) • For main and auxiliary circuits NEW ▶ • Only for main circuit ³⁾ NEW	--
	3RT105	S6-S6	The kit contains: wiring modules on the top	3RA1953-2A	3RA1953-2A
	3RT1.6	S10-S10	and bottom	3RA1963-2A	3RA1963-2A
	3RT1.7	S12-S12		3RA1973-2A	3RA1973-2A
3RA2933-2AA1	3RT105	S6-S6	The kit contains: wiring modules on the top	3RA1953-2A	3RA1953-2A
	3RT1.6	S10-S10	and bottom	3RA1963-2A	3RA1963-2A
	3RT1.7	S12-S12		3RA1973-2A	3RA1973-2A
	3RA1953-2A				

¹⁾ Use of the 3RA2923-2AA1 assembly kit in conjunction with the 3RT202.-.....-3MA0 contactors is limited because the auxiliary switches in the basic unit are not allowed to be used on account of the permanently mounted auxiliary switch block.

²⁾ Version in size S0 with spring-type terminals:
Only the wiring modules for the main circuit are included.
No connecting clips are included for the auxiliary and control circuit.

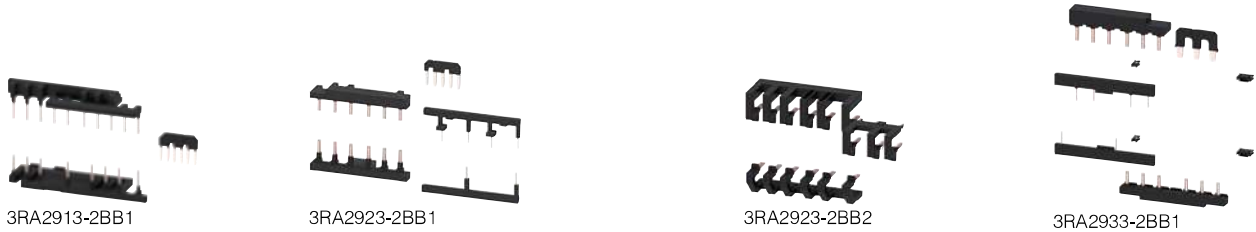
³⁾ Version in sizes S2 and S3 with spring-type terminals in the auxiliary and control circuits: Only the wiring modules for the main circuit are included.
A cable set is included for the auxiliary circuit.

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays Accessories

Link modules

PU (UNIT, SET, M) = 1
 PS* = 1 unit (unless otherwise specified)
 PG = 41B



For con- tactors	Size	Version	SD	Screw terminals	SD	Spring-type terminals		
Type			d	Article No.	Price per PU	d	Article No.	Price per PU
Assembly kits¹⁾ for contactor assemblies for star-delta (wye-delta) starting for making 3-pole contactor assemblies								
3RT201	S00-S00-S00	The assembly kit contains: mechanical interlock, four connecting clips for three contactors, a star jumper, wiring modules on the top and bottom						
		<ul style="list-style-type: none"> For main, auxiliary and control circuits 	▶	3RA2913-2BB1		▶	3RA2913-2BB2	
3RT202	S0-S0-S0	The assembly kit contains: mechanical interlock, four connecting clips for three contactors, a star jumper, wiring modules on the top and bottom						
		<ul style="list-style-type: none"> For main, auxiliary and control circuits Only for main circuit 	▶	3RA2923-2BB1		▶	3RA2923-2BB2	
3RT202	S0-S0-S0	The assembly kit contains: mechanical interlock, four connecting clips for three contactors, a star jumper, wiring modules on the top and bottom, three-phase infeed terminal						
		<ul style="list-style-type: none"> For main, auxiliary and control circuits 	5	3RA2924-2BB1				
3RT203	S2-S2-S0	The kit ²⁾ contains: two connectors for three contactors, an S0 star jumper, a spacer, wiring modules on the top and bottom (S2-S0) for the main circuit, a cable set for the auxiliary circuit, a cable for connecting the A2 coil contact from the line contactor to the A2 coil contact of the delta contactor						
			▶	3RA2933-2C		▶	3RA2933-2C	
3RT203	S2-S2-S2	The kit ²⁾ contains: four connectors for three contactors, an S2 star jumper, a cable for connecting the A2 coil contact from the line contactor to the A2 coil contact of the delta contactor and						
		<ul style="list-style-type: none"> Wiring modules on the top and bottom for the main circuit and the auxiliary circuit Wiring modules on the top and bottom for the main circuit, a cable set for the auxiliary circuit 	▶	3RA2933-2BB1				
				--		5	3RA2933-2BB2	
3RT2.4	S3-S3-S2	The kit ²⁾ contains: two connectors for three contactors, an S2 star jumper, a spacer, wiring modules on the top and bottom (S3-S2) for the main circuit, a cable set for the auxiliary circuit, a cable for connecting the A2 coil contact from the line contactor to the A2 coil contact of the delta contactor						
			▶	3RA2943-2C		▶	3RA2943-2C	
3RT2.4	S3-S3-S3	The kit ²⁾ contains: four connectors for three contactors, an S3 star jumper, a cable for connecting the A2 coil contact from the line contactor to the A2 coil contact of the delta contactor and						
		<ul style="list-style-type: none"> Wiring modules on the top and bottom for the main circuit and the auxiliary circuit Wiring modules on the top and bottom for the main circuit, a cable set for the auxiliary circuit 	▶	3RA2943-2BB1				
				--		▶	3RA2943-2BB2	

¹⁾ When using the function modules for contactor assemblies for star-delta (wye-delta) starting, the wiring modules for the auxiliary current are not required.

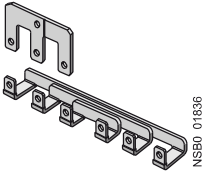
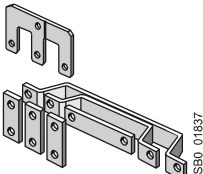

²⁾ The 3RA2934-2B mechanical interlock for sizes S2 and S3 must be ordered separately; see page 3/113.

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays

Accessories

Link modules

For contactors	Size	Version	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Type			d					
Assembly kits for contactor assemblies for star-delta (wye-delta) starting for making 3-pole contactor assemblies								
			The kit contains: link rails at bottom (a double infeed between the line contactor and the delta contactor is recommended.)					
 3RA1953-2B	3RT1.5, 3RT2.4	S6-S6-S3 for connection with box terminal	The S3 star jumper must be ordered separately; see page 3/112.	NEW X	3RA1953-3G	1	1 unit	41B
	3RT1.5	S6-S6-S6 for connection with box terminal	--		3RA1953-2B	1	1 unit	41B
 3RA1953-2N, 3RA1963-2B, 3RA1973-2B	3RT1.5	S6-S6-S6 for connection without box terminal	--		3RA1953-2N	1	1 unit	41B
	3RT1.6, 3RT1.5	S10-S10-S6 for connection with box terminal	The S6 star jumper must be ordered separately; see page 3/112.		3RA1963-3E	1	1 unit	41B
 3RA1963-3E	3RT1.6	S10-S10-S10 for connection without box terminal	--		3RA1963-2B	1	1 unit	41B
	3RT1.7, 3RT1.6	S12-S12-S10 for connection with box terminal	The S10 star jumper must be ordered separately; see page 3/112.		3RA1973-3E	1	1 unit	41B
	3RT1.7	S12-S12-S12 for connection without box terminal	--		3RA1973-2B	1	1 unit	41B

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays Accessories

Link modules

PU (UNIT, SET, M) = 1
 PS* = 1 unit (unless otherwise specified)
 PG = 41B



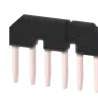
3RA2913-3DA1



3RA2913-3DA2



3RT1933-3D



3RT1916-4BA31



3RT2916-4BA32



3RT1936-4BA31

For con- tactors	Size	Version	SD	Article No.	Price per PU	SD	Article No.	Price per PU
Type			d			d		

Single wiring modules for making 3 and 4-pole contactor assemblies

				Screw terminals	Spring-type terminals		
3RT201	S00-S00	<ul style="list-style-type: none"> Top (in-phase) Bottom (with phase reversal) 	PS = 5 units PS = 5 units	5 5	3RA2913-3DA1 3RA2913-3EA1	5 5	3RA2913-3DA2 3RA2913-3EA2
3RT202	S0-S0	<ul style="list-style-type: none"> Top (in-phase) Bottom (with phase reversal) 	PS = 5 units PS = 5 units	5 5	3RA2923-3DA1 3RA2923-3EA1	5 5	3RA2923-3DA2 3RA2923-3EA2
3RT203	S2-S2	<ul style="list-style-type: none"> Top (in-phase) Contactor clearance 10 mm Bottom (with phase reversal) Contactor clearance 10 mm 	PS = 5 units PS = 5 units	▶ ▶	3RA1933-3D 3RA1933-3E	▶ ▶	3RA1933-3D 3RA1933-3E
3RT2.4	S3-S3	<ul style="list-style-type: none"> Top (in-phase) Contactor clearance 10 mm Bottom (with phase reversal) Contactor clearance 10 mm 		▶ ▶	3RA1943-3D 3RA1943-3E	▶ ▶	3RA1943-3D 3RA1943-3E
3RT105	S6-S6	<ul style="list-style-type: none"> Top (in-phase, for connection with box terminal) Contactor clearance 10 mm Top (with phase reversal, for connection without box terminal) Contactor clearance 10 mm 		2 2	3RA1953-3D 3RA1953-3P	2 2	3RA1953-3D 3RA1953-3P

Star jumpers (links for paralleling), 3-pole






				Screw terminals	Spring-type terminals		
3RT201	S00	With through-hole		▶	3RT1916-4BA31	2	3RT2916-4BA32
3RT202	S0	The links for paralleling can be reduced by one pole.		▶	3RT1926-4BA31	2	3RT2926-4BA32
3RT203	S2			▶	3RT1936-4BA31	▶	3RT1936-4BA31
3RT2.4	S3	Without connecting terminal		▶	3RT1946-4BA31	▶	3RT1946-4BA31
3RT1.5	S6			▶	3RT1956-4BA31	▶	3RT1956-4BA31
3RT1.6, 3RT1.7	S10, S12			▶	3RT1966-4BA31	▶	3RT1956-4BA31

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays

Accessories

Link modules










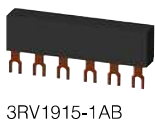

For contactors	Size	Version	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	
Type			d						
Mechanical interlock kits for two contactors for making 3 and 4-pole contactor assemblies									
	3RT201, 3RT231	S00-S00		The interlocking assembly kits can be used without a contactor clearance.	5	3RA2912-2H	1	10 units	41B
	3RT202, 3RT232	S0-S0		One assembly kit consists of a mechanical interlock and two connecting clips.	5	3RA2922-2H	1	10 units	41B
3RA29.2-2H									
Mechanical interlocks for contactor assemblies									
				A contactor clearance of 10 mm must be considered when using the following mechanical interlocks.					
	3RT203, 3RT2.4	S2-S2-S0, S2-S2-S2, S3-S3-S2, S3-S3-S3		Mechanical interlocks <u>Note:</u> The mechanical interlock for sizes S2 and S3 must be ordered separately.	▶	3RA2934-2B	1	1 unit	41B
	3RA2934-2B								
	3RT105 with 3RT2.4	S6 (3RT1)- S6 (3RT1)- S3 (3RT2)		Adapter in addition to the mechanical interlock The mechanical interlock is only possible together with this 3RA1954-2G adapter and the 3RA1954-2A mechanical interlock. Two connectors are included with the adapter, the interlock must be ordered separately.	▶	3RA1954-2G	1	1 unit	41B
	3RA1954-2A								
	3RT1.5, 3RT1.6, 3RT1.7	S6 S10 S12		Mechanical interlocks Without auxiliary contacts; Contactor sizes S6, S10 and S12 can be interlocked with each other as required. No adaption of mounting depth is necessary.	▶	3RA1954-2A	1	1 unit	41B
	3RA1954-2A								
Mechanical connectors for contactor assemblies									
				Two connectors are required for each assembly. The contactor clearance must be considered when selecting the connectors.					
	3RT203, 3RT2.4	S2-S2, S3-S3		For 3-pole contactors • Without contactor clearance • With 10 mm contactor clearance	▶	3RA2932-2C	1	10 units	41B
	3RT1.5	S6-S6		• With 10 mm contactor clearance (1 unit corresponds to 2 parts for 1 assembly)	▶	3RA1932-2D	1	10 units	41B
	3RA1932-2D								
3RT233	S2-S2			For 4-pole contactors • With 20 mm contactor clearance	2	3RA2932-2G	1	10 units	41B

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays Accessories

Terminal modules/adapters

Selection and ordering data









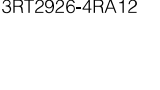


For contactors	Size	Version	SD	Screw terminals	⊕	PU (UNIT, SET, M)	PS*	PG	
Type			d	Article No.	Price per PU				
									
3RT1916-4BB31									
									
3RT2926-4BB31									
									
3RT1936-4BB31									
									
3RT1946-4BB31									
									
3RT1916-4BB41									
Links for paralleling for main circuits									
The links for paralleling (insulated) can be reduced by one pole. With connecting terminal									
3-pole									
3RT201	S00	• Max. conductor cross-section: 25 mm ² , stranded	▶	3RT1916-4BB31		1	1 unit	41B	
3RT202	S0	• Max. conductor cross-section: 50 mm ² , stranded	▶	3RT2926-4BB31		1	1 unit	41B	
3RT203	S2	• Max. conductor cross-section: 120 mm ² , stranded	▶	3RT1936-4BB31		1	1 unit	41B	
3RT2.4	S3	• Max. conductor cross-section: 185 mm ² , stranded A cover plate is included for touch protection (can only be used when the box terminal is removed).	NEW ▶	3RT1946-4BB31		1	1 unit	41B	
4-pole									
3RT231, 3RT251	S00	• Max. conductor cross-section: 25 mm ² , stranded	▶	3RT1916-4BB41		1	1 unit	41B	
									
3RA2913-3K									
									
3RV2925-5AB									
									
3RV2935-5A									
									
3RV2935-5E									
									
3RV1915-1AB									
									
3RT195.-4G									
Single-phase infeed terminals									
3RT2.4	S3	Conductor cross-section: 95 mm ²	NEW	2	3RA2943-3L		1	1 unit	41B
Three-phase infeed terminals									
Infeed terminal blocks for the line contactor for large conductor cross-sections									
3RT201	S00	• Max. conductor cross-section: up to 10 mm ² , AWG 12 ... 8	▶	2	3RA2913-3K		1	10 units	41B
3RT202	S0	• Max. conductor cross-section: up to 25 mm ² , AWG 10 ... 2/0	▶		3RV2925-5AB		1	1 unit	41E
3RT203	S2	• Max. conductor cross-section: up to 70 mm ² , AWG 10 ... 2/0	▶		3RV2935-5A		1	1 unit	41E
Three-phase infeed terminals with increased clearances and creepage distances									
3RT203	S2	Max. conductor cross-section: up to 70 mm ² , AWG 10 ... 2/0	▶		3RV2935-5E		1	1 unit	41E
Three-phase busbars									
3RT202	S0	Bridging phase-by-phase of all input terminals of the line contactor (Q11) and delta contactor (Q13)	▶		3RV1915-1AB		1	1 unit	41E
Auxiliary terminals, three-pole									
3RT1.5	S6	For connection of auxiliary and control cables (0.5 ... 2.5 mm ²) to the main conductor terminals		5	3TX7500-0A		1	1 unit	41B
Box terminal blocks									
For round and ribbon cables									
Connectable cross-sections of the contactors: see Technical Specifications, page 3/48.									
3RT1.5	S6	• Up to 70 mm ² , as standard on 3RT1054-1 contactor (55 kW)	▶		3RT1955-4G		1	1 unit	41B
		• Up to 120 mm ²	▶		3RT1956-4G		1	1 unit	41B
3RT1.6, 3RT1.7	S10, S12	• Up to 240 mm ² With auxiliary conductor connection up to 2.5 mm ²	▶		3RT1966-4G		1	1 unit	41B

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays

Accessories

Terminal modules/adapters







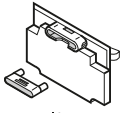
For contactors	Size	Version	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Type			d					
Solder pin adapters for mounting contactors on printed circuit boards up to 5.5 kW / 12 A								
	3RT2.1, 3RH21	S00		Assembly kit for soldering contactors with an integrated auxiliary contact onto a printed circuit board <u>Note:</u> For 1 contactor, 1 set is required.	2	3RT1916-4KA1	1 4 units	41B
	3RT1916-4KA1							
	3RT2.1, 3RH21	S00		Assembly kit for soldering contactors with 4-pole mounted auxiliary switch block onto a printed circuit board. <u>Note:</u> For 1 contactor, 1 set is required.	5	3RT1916-4KA2	1 4 units	41B
								
								
	3RT1916-4KA2							
Coil connection modules for connections from top or from below								
	3RT2.2, 3RT2.3, 3RT2.4	S0 to S3		<ul style="list-style-type: none"> • Connection from top • Connection from below • Connection diagonally 	2	3RT2926-4RA11	1 1 unit	41B
					2	3RT2926-4RB11	1 1 unit	41B
					2	3RT2926-4RC11	1 1 unit	41B
	3RT2.2	S0		<ul style="list-style-type: none"> • Connection from top • Connection from below 	2	3RT2926-4RA12	1 1 unit	41B
					2	3RT2926-4RB12	1 1 unit	41B
	3RT2926-4RA12							
For contactors	Size	Version	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Type			d					
Motor feeder connectors for contactors with screw terminals								
	3RT2.1, 3RH2	S00		Adapters for contactors Ambient temperature $t_{u\ max.} = 60\ ^\circ\text{C}$	5	3RT1916-4RD01	1 1 unit	41B
	3RT2.2	S0		<ul style="list-style-type: none"> • Rated operational current I_e at AC-3/400 V: 20 A 	5	3RT1926-4RD01	1 1 unit	41B
	3RT2.1, 3RT2.2, 3RH2	S00, S0		Motor feeder connectors for contactor	5	3RT1900-4RE01	1 1 unit	41B
				<ul style="list-style-type: none"> • Rated operational current I_e at AC-3/400 V: 25 A 				
3RT1916-4RD01								
3RT1926-4RD01								
3RT1900-4RE01								

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays Accessories

Covers

Selection and ordering data

For con- tactors	Size	Version	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Type			d					
Terminal covers								
Motor feeder connectors for contactors with screw terminals (box terminals) (2 units required per contactor)								
	3RT203	S2	• For 3-pole contactors	2	3RT2936-4EA2	1	1 unit	41B
	3RT2.4	S3		NEW ▶	3RT2946-4EA2	1	1 unit	41B
	3RT1.5	S6¹⁾		▶	3RT1956-4EA2	1	1 unit	41B
	3RT1.6, 3RT1.7	S10¹⁾, S12¹⁾		▶	3RT1966-4EA2	1	1 unit	41B
	3RT233, 3RT253	S2	• For 4-pole contactors (scope of supply: one 3-pole and two 1-pole terminal covers are supplied)	5	3RT2936-4EA4	1	1 unit	41B
	3RT1956-4EA2							
Covers for contactors with cable lugs and busbar connections For complying with the phase clearances and as touch protection if box terminal is removed (2 units required per contactor)								
	3RT1.5	S6¹⁾	• Length: 100 mm	▶	3RT1956-4EA1	1	1 unit	41B
	3RT1.6, 3RT1.7	S10¹⁾, S12¹⁾	• Length: 120 mm	▶	3RT1966-4EA1	1	1 unit	41B
	3RT1.5	S6	• For the assembly kits for 3RA1953-.. con- tactor assemblies for star-delta (wye-delta) starting (page 3/111) or the 3RA1953-3. single-wiring modules (page 3/112) - Length: 38 mm	▶	3RT1956-4EA4	1	1 unit	41B
	3TX6526-3B							
Terminal covers								
	3RT1.5	S6	• Cover the three busbar connections, between contactor and 3RB2 overload relay - Length: 27 mm	▶	3RT1956-4EA3	1	1 unit	41B
	3RT1.6, 3RT1.7	S10²⁾, S12²⁾	- Length: 42 mm	▶	3RT1966-4EA3	1	1 unit	41B
	3RT1.5	S6	• can be screwed on free screw end; covers one busbar connection (1 set = 6 units) - M8	5	3TX6526-3B	1	1 unit	41B
	3RT1.6, 3RT1.7	S10, S12	- M10	5	3TX6546-3B	1	1 unit	41B
	Sealable covers							
	3RT2.1, 3RT2.2, 3RT2.3, 3RT2.4, 3RH2 ³⁾	S00 ... S3	for preventing manual operation (Not suitable for coupling relays)	2	3RT2916-4MA10	1	5 units	41B
	3RT1.5 ... 3RT1.7 ³⁾	S6 ... S12		15	3RT1926-4MA10	1	5 units	41B
	3RT1926-4MA10							

¹⁾ Also fits on contactors of sizes S6 to S12 with box terminals.

²⁾ The 3RT1966-4EA3 cover is required in addition for use in reversing contactor assemblies and contactor assemblies for star-delta (wye-delta) starting.

³⁾ Exception: contactors and contactor relays with auxiliary switch block mounted onto the front.



Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays

Accessories

Miscellaneous accessories




Selection and ordering data

For con- tactors	Size	Version	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Type			d					
Base plates								
For reversing contactor assemblies								
3RT1.5	S6	For customer assembly of reversing	5	3RA1952-2A		1	1 unit	41B
3RT1.6	S10	contactor assemblies	5	3RA1962-2A		1	1 unit	41B
3RT1.7	S12		5	3RA1972-2A		1	1 unit	41B
For contactor assemblies for star-delta (wye-delta) starting								
3RT2/ 3RT2/ 3RT2	S2-S2-S0, S2-S2-S2 S3-S3-S2, S3-S3-S3	For configuring contactor assemblies for star-delta (wye-delta) starting	2	3RA2932-2F		1	1 unit	41B
			NEW 3	3RA2942-2F		1	1 unit	41B
3RT1/ 3RT1/ 3RT2	S6-S6-S3	For customer assembly of contactor assemblies for star-delta (wye-delta) start- ing with laterally mounted timing relay	5	3RA1952-2E		1	1 unit	41B
3RT1/ 3RT1/ 3RT1	S6-S6-S6 S10-S10-S6 S10-S10-S10 S12-S12-S10 S12-S12-S12	10 mm distance between the contactors	5	3RA1952-2F		1	1 unit	41B
			5	3RA1962-2E		1	1 unit	41B
			5	3RA1962-2F		1	1 unit	41B
			5	3RA1972-2E		1	1 unit	41B
			5	3RA1972-2F		1	1 unit	41B
Adapters for screw fixing								
3RT2.2	S0	Screw adapters for securing the contac- tors, 2 units required per contactor (1 pack contains 10 sets for 10 contactors)	15	3RT1926-4P		1	10 units	41B
EMC suppression modules; three-phase, up to 7.5 kW								
For contactors with AC or DC operation								
 3RT2916-1PA.	3RT201	S00	RC elements (3 x 220 Ω/0.22 μF) • Up to 400 V • Up to 575 V • Up to 690 V	Screw terminals 				
				▶	3RT2916-1PA1	1	1 unit	41B
				2	3RT2916-1PA2	1	1 unit	41B
	15	3RT2916-1PA3	1	1 unit	41B			
	3RT201	S00	Varistors • Up to 400 V • Up to 575 V • Up to 690 V	2	3RT2916-1PB1	1	1 unit	41B
				2	3RT2916-1PB2	1	1 unit	41B
15				3RT2916-1PB3	1	1 unit	41B	

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays Accessories

Miscellaneous accessories




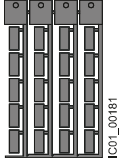
For con- tactors	Size	Version	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG					
Type			d										
Additional load modules													
	3RT2.1, 3RH2	S00	▶	3RT2916-1GA00		1	1 unit	41B					
									For plugging onto the front side of the contactors with or without auxiliary switch blocks For increasing the permissible residual current and for limiting the residual voltage. It ensures the safe opening of contactors with direct control via 230 V AC semiconductor outputs of SIMATIC controllers. It acts simultaneously as a surge suppressor. Rated voltage: 50/60 Hz AC, 180 ... 255 V Operating range: 0.8 ... 1.1 x U _g				
LED modules for displaying contactor operation													
	3RT2 3RT1.5 ... 3RT1.7	S00 ... S3	5	3RT2926-1QT00		1	5 units	41B					
		S6 ... S12							5	3RT1926-1QT00	1	5 units	41B
		The connecting leads have to be extended. The LED module is connected to coil terminals A1 and A2 of the contactor and indicates its energized state. Yellow LED. Rated voltage: 24 ... 240 V AC/DC with reverse polarity protection.											
Control kit													
	3RT2.1, 3RH2	S00	2	3RT2916-4MC00		1	5 units	41B					
		S0							2	3RT2926-4MC00	1	5 units	41B
		S2							2	3RT2936-4MC00	1	5 units	41B

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays

Accessories

Miscellaneous accessories

For contactors	Size	Version	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Type			d					
Insulation stop for securely holding back the conductor insulation on conductors up to 1 mm²								
 <p>Insulation stop strip. can be inserted in cable entry of the spring-type terminal (two strips per contactor required)</p>				Spring-type terminals 				
3RT2916-4JA02	3RT2.1, 3RH2	S00	5	3RT2916-4JA02		1	20 units	41B
	3RT2.2 ... 3RT2.4, 3RT1, 3RH29	S0 ... S12	5	3RT1916-4JA02		1	20 units	41B
<ul style="list-style-type: none"> • For basic units, removable individually • For auxiliary and control current on basic units and for mountable 3RH29 auxiliary switches, removable in pairs 								
Tools for opening spring-type terminals								
 <p>Screwdrivers for all SIRIUS devices with spring-type terminals</p> <p>Length: approx. 200 mm; 3.0 mm x 0.5 mm; titanium gray/black, partially insulated</p>				3RA2908-1A				
3RA2908-1A	3RT	S00 ... S12	2			1	1 unit	41B
Blank labels								
 <p>Unit labeling plates for SIRIUS devices¹⁾</p>								
	3RT2	S00 ... S3	20	3RT2900-1SB10		100	816 units	41B
			20	3RT2900-1SB20		100	340 units	41B
	3RT1	S6 ... S12	15	3RT1900-1SB10		100	816 units	41B
			20	3RT1900-1SB20		100	340 units	41B
3RT2900-1SB20								
<p>Adhesive labels for SIRIUS devices</p>								
	3RT2	S00 ... S3	5	3RT2900-1SB60		100	3 060 units	41B
	3RT1	S6 ... S12	15	3RT1900-1SB60		100	3 060 units	41B
			15	3RT1900-1SD60		100	3 060 units	41B

¹⁾ PC labeling system for individual inscription of unit labeling plates available from: murrplastik Systemtechnik GmbH (see page 16/20).

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays
Spare Parts

Solenoid coils

Selection and ordering data

Screw terminals and spring-type terminals



3RT2924-5A.01

For contactors	Rated control supply voltage U_s			SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
	50 Hz	50/60 Hz	60 Hz						
Type	V	V	V	d					
Solenoid coils · AC operation									
Size S0									
3RT2023-.A,	24	--	--	5	3RT2924-5AB01		1	1 unit	41B
3RT2024-.A,	42	--	--	5	3RT2924-5AD01		1	1 unit	41B
3RT2025-.A	48	--	--	5	3RT2924-5AH01		1	1 unit	41B
	110	--	--	5	3RT2924-5AF01		1	1 unit	41B
	230	--	--	5	3RT2924-5AP01		1	1 unit	41B
	400	--	--	5	3RT2924-5AV01		1	1 unit	41B
	--	24	--	5	3RT2924-5AC21		1	1 unit	41B
	--	42	--	5	3RT2924-5AD21		1	1 unit	41B
	--	48	--	5	3RT2924-5AH21		1	1 unit	41B
	--	110	--	5	3RT2924-5AG21		1	1 unit	41B
	--	220	--	5	3RT2924-5AN21		1	1 unit	41B
	--	230	--	5	3RT2924-5AL21		1	1 unit	41B
	--	--	24	5	3RT2924-5AC11		1	1 unit	41B
	110	--	120	5	3RT2924-5AK61		1	1 unit	41B
	220	--	240	5	3RT2924-5AP61		1	1 unit	41B
	--	100	110	5	3RT2924-5AG61		1	1 unit	41B
	--	200	220	5	3RT2924-5AN61		1	1 unit	41B
	--	400	440	5	3RT2924-5AR61		1	1 unit	41B
3RT2026-.A,	24	--	--	5	3RT2926-5AB01		1	1 unit	41B
3RT2027-.A,	42	--	--	5	3RT2926-5AD01		1	1 unit	41B
3RT2028-.A	48	--	--	5	3RT2926-5AH01		1	1 unit	41B
3RT2325-.A,	110	--	--	5	3RT2926-5AF01		1	1 unit	41B
3RT2326-.A,	230	--	--	5	3RT2926-5AP01		1	1 unit	41B
3RT2327-.A	400	--	--	5	3RT2926-5AV01		1	1 unit	41B
3RT2526-.A	--	24	--	5	3RT2926-5AC21		1	1 unit	41B
	--	42	--	5	3RT2926-5AD21		1	1 unit	41B
	--	48	--	5	3RT2926-5AH21		1	1 unit	41B
	--	110	--	5	3RT2926-5AG21		1	1 unit	41B
	--	220	--	5	3RT2926-5AN21		1	1 unit	41B
	--	230	--	5	3RT2926-5AL21		1	1 unit	41B
	--	--	24	5	3RT2926-5AC11		1	1 unit	41B
	110	--	120	5	3RT2926-5AK61		1	1 unit	41B
	220	--	240	5	3RT2926-5AP61		1	1 unit	41B
	--	100	110	5	3RT2926-5AG61		1	1 unit	41B
	--	200	220	5	3RT2926-5AN61		1	1 unit	41B
	--	400	440	5	3RT2926-5AR61		1	1 unit	41B

Note:

Contactors with AC and AC/DC coils have different depths. It is only possible to replace the coils on AC contactors with AC coils, and on AC/DC contactors with AC/DC coils. It is not possible to replace the coils on DC contactors.

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays

Spare Parts

Solenoid coils

Screw terminals and spring-type terminals



3RT2934-5A.01



3RT2934-5N.31

For contactors	Rated control supply voltage U_s				SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
	50 Hz	50/60 Hz	60 Hz	DC						
Type	V	V	V		d					
Solenoid coils - AC operation										
Size S2										
3RT203.-.A,	24	--	--	--	5	3RT2934-5AB01		1	1 unit	41B
3RT233.-.A,	42	--	--	--	5	3RT2934-5AD01		1	1 unit	41B
3RT253.-.A	48	--	--	--	5	3RT2934-5AH01		1	1 unit	41B
	110	--	--	--	5	3RT2934-5AF01		1	1 unit	41B
	230	--	--	--	5	3RT2934-5AP01		1	1 unit	41B
	400	--	--	--	5	3RT2934-5AV01		1	1 unit	41B
	--	24	--	--	5	3RT2934-5AC21		1	1 unit	41B
		42	--	--	5	3RT2934-5AD21		1	1 unit	41B
		48	--	--	5	3RT2934-5AH21		1	1 unit	41B
		110	--	--	5	3RT2934-5AG21		1	1 unit	41B
		220	--	--	5	3RT2934-5AN21		1	1 unit	41B
		230	--	--	5	3RT2934-5AL21		1	1 unit	41B
	110	--	120	--	5	3RT2934-5AK61		1	1 unit	41B
	220	--	240	--	5	3RT2934-5AP61		1	1 unit	41B
	--	--	480	--	5	3RT2934-5AV61		1	1 unit	41B
	--	--	600	--	5	3RT2934-5AT61		1	1 unit	41B
	--	100	110	--	5	3RT2934-5AG61		1	1 unit	41B
	--	200	220	--	5	3RT2934-5AN61		1	1 unit	41B
	--	400	440	--	5	3RT2934-5AR61		1	1 unit	41B
Size S3 NEW										
3RT2.4.-.A	24	--	--	--	X	3RT2944-5AB01		1	1 unit	41B
	42	--	--	--	X	3RT2944-5AD01		1	1 unit	41B
	48	--	--	--	X	3RT2944-5AH01		1	1 unit	41B
	110	--	--	--	X	3RT2944-5AF01		1	1 unit	41B
	230	--	--	--	X	3RT2944-5AP01		1	1 unit	41B
	400	--	--	--	X	3RT2944-5AV01		1	1 unit	41B
	--	24	--	--	X	3RT2944-5AC21		1	1 unit	41B
		42	--	--	X	3RT2944-5AD21		1	1 unit	41B
		48	--	--	X	3RT2944-5AH21		1	1 unit	41B
		110	--	--	X	3RT2944-5AG21		1	1 unit	41B
		220	--	--	X	3RT2944-5AN21		1	1 unit	41B
		230	--	--	X	3RT2944-5AL21		1	1 unit	41B
	110	--	120	--	X	3RT2944-5AK61		1	1 unit	41B
	220	--	240	--	X	3RT2944-5AP61		1	1 unit	41B
	--	--	480	--	X	3RT2944-5AV61		1	1 unit	41B
	--	--	600	--	X	3RT2944-5AT61		1	1 unit	41B
	--	100	110	--	X	3RT2944-5AG61		1	1 unit	41B
	--	200	220	--	X	3RT2944-5AN61		1	1 unit	41B
	--	400	440	--	X	3RT2944-5AR61		1	1 unit	41B
Solenoid coils - AC/DC operation, with varistor										
Size S2										
3RT203.-.A,	--	20 ... 33	--	20 ... 33	5	3RT2934-5NB31		1	1 unit	41B
3RT233.-.A,	--	30 ... 42	--	30 ... 42	5	3RT2934-5ND31		1	1 unit	41B
3RT253.-.A	--	48 ... 80	--	48 ... 80	5	3RT2934-5NE31		1	1 unit	41B
	--	83 ... 155	--	83 ... 155	5	3RT2934-5NF31		1	1 unit	41B
	--	175 ... 280	--	175 ... 280	5	3RT2934-5NP31		1	1 unit	41B
Size S3 NEW										
3RT2.4.-.A	--	20 ... 33	--	20 ... 33	X	3RT2944-5NB31		1	1 unit	41B
	--	30 ... 42	--	30 ... 42	X	3RT2944-5ND31		1	1 unit	41B
	--	48 ... 80	--	48 ... 80	X	3RT2944-5NE31		1	1 unit	41B
	--	83 ... 155	--	83 ... 155	X	3RT2944-5NF31		1	1 unit	41B
	--	175 ... 280	--	175 ... 280	X	3RT2944-5NP31		1	1 unit	41B

Note:

It is only possible to replace the coils on AC contactors with AC coils, and on AC/DC contactors with AC/DC coils.

* You can order this quantity or a multiple thereof.
Illustrations are approximate.

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays
Spare Parts

Solenoid coils

PU (UNIT, SET, M) = 1
PS* = 1 unit
PG = 41B

For contactors	Rated control supply voltage U_s	SD	Screw terminals	SD	Spring-type terminals			
Size	Type	V	d	Article No.	Price per PU	d	Article No.	Price per PU

Withdrawable coils



3RT1955-5A...1

Conventional operating mechanisms for AC/DC

S6	3RT105, 3RT145	23 ... 26 AC/DC	5	3RT1955-5AB31	5	3RT1955-5AB32
		42 ... 48 AC/DC	5	3RT1955-5AD31	5	3RT1955-5AD32
		110 ... 127 AC/DC	5	3RT1955-5AF31	5	3RT1955-5AF32
		200 ... 220 AC/DC	5	3RT1955-5AM31	5	3RT1955-5AM32
		220 ... 240 AC/DC	5	3RT1955-5AP31	5	3RT1955-5AP32
		240 ... 277 AC/DC	5	3RT1955-5AU31	5	3RT1955-5AU32
		380 ... 420 AC/DC	5	3RT1955-5AV31	5	3RT1955-5AV32
		440 ... 480 AC/DC	5	3RT1955-5AR31	5	3RT1955-5AR32
		500 ... 550 AC/DC	5	3RT1955-5AS31	5	3RT1955-5AS32
		575 ... 600 AC/DC	5	3RT1955-5AT31	5	3RT1955-5AT32
S10	3RT106, 3RT146	23 ... 26 AC/DC	5	3RT1965-5AB31	5	3RT1965-5AB32
		42 ... 48 AC/DC	5	3RT1965-5AD31	5	3RT1965-5AD32
		110 ... 127 AC/DC	5	3RT1965-5AF31	5	3RT1965-5AF32
		200 ... 220 AC/DC	5	3RT1965-5AM31	5	3RT1965-5AM32
		220 ... 240 AC/DC	5	3RT1965-5AP31	5	3RT1965-5AP32
		240 ... 277 AC/DC	5	3RT1965-5AU31	5	3RT1965-5AU32
		380 ... 420 AC/DC	5	3RT1965-5AV31	5	3RT1965-5AV32
		440 ... 480 AC/DC	5	3RT1965-5AR31	5	3RT1965-5AR32
		500 ... 550 AC/DC	5	3RT1965-5AS31	5	3RT1965-5AS32
		575 ... 600 AC/DC	5	3RT1965-5AT31	5	3RT1965-5AT32
S12	3RT107, 3RT147	23 ... 26 AC/DC	5	3RT1975-5AB31	5	3RT1975-5AB32
		42 ... 48 AC/DC	5	3RT1975-5AD31	5	3RT1975-5AD32
		110 ... 127 AC/DC	5	3RT1975-5AF31	5	3RT1975-5AF32
		200 ... 220 AC/DC	5	3RT1975-5AM31	5	3RT1975-5AM32
		220 ... 240 AC/DC	5	3RT1975-5AP31	5	3RT1975-5AP32
		240 ... 277 AC/DC	5	3RT1975-5AU31	5	3RT1975-5AU32
		380 ... 420 AC/DC	5	3RT1975-5AV31	5	3RT1975-5AV32
		440 ... 480 AC/DC	5	3RT1975-5AR31	5	3RT1975-5AR32
		500 ... 550 AC/DC	5	3RT1975-5AS31	5	3RT1975-5AS32
		575 ... 600 AC/DC	5	3RT1975-5AT31	5	3RT1975-5AT32



3RT1955-5N...1

Solid-state operating mechanisms for AC/DC with 24 V DC control signal input, e.g. for control by PLC

S6	3RT105, 3RT145	21 ... 27.3 AC/DC	5	3RT1955-5NB31	5	3RT1955-5NB32
		96 ... 127 AC/DC	5	3RT1955-5NF31	5	3RT1955-5NF32
		200 ... 277 AC/DC	5	3RT1955-5NP31	5	3RT1955-5NP32
S10	3RT106, 3RT146	21 ... 27.3 AC/DC	5	3RT1965-5NB31	5	3RT1965-5NB32
		96 ... 127 AC/DC	5	3RT1965-5NF31	5	3RT1965-5NF32
		200 ... 277 AC/DC	5	3RT1965-5NP31	5	3RT1965-5NP32
S12	3RT107, 3RT147	21 ... 27.3 AC/DC	5	3RT1975-5NB31	5	3RT1975-5NB32
		96 ... 127 AC/DC	5	3RT1975-5NF31	5	3RT1975-5NF32
		200 ... 277 AC/DC	5	3RT1975-5NP31	5	3RT1975-5NP32
<ul style="list-style-type: none"> • Additionally with PLC relay output and remaining lifetime indicator (RLT) (withdrawable coil with laterally mounted solid-state module) 						
S6	3RT105, 3RT145	96 ... 127 AC/DC	5	3RT1955-5PF31		--
		200 ... 277 AC/DC	5	3RT1955-5PP31		--
S10	3RT106, 3RT146	96 ... 127 AC/DC	5	3RT1965-5PF31		--
		200 ... 277 AC/DC	5	3RT1965-5PP31		--
S12	3RT107, 3RT147	96 ... 127 AC/DC	5	3RT1975-5PF31		--
		200 ... 277 AC/DC	5	3RT1975-5PP31		--

Solid-state operating mechanisms for DC with 24 ... 110 V DC control signal input e. g. for control by PLC with extended operating range **NEW**

(see also traction contactors on page 4/67)

S6	3RT105...X...- OLA2	24 DC	--	5	3RT1955-5XB42
		72 DC	--	5	3RT1955-5XJ42
		110 DC	--	5	3RT1955-5XF42
S10	3RT106...X...- OLA2	24 DC	--	5	3RT1965-5XB42
		72 DC	--	5	3RT1965-5XJ42
		110 DC	--	5	3RT1965-5XF42
S12	3RT107...X...- OLA2	24 DC	--	5	3RT1975-5XB42
		72 DC	--	5	3RT1975-5XJ42
		110 DC	--	5	3RT1975-5XF42

Power Contactors for Switching Motors

Accessories and Spare Parts for SIRIUS 3RT Contactors and SIRIUS 3RH2 Contactor Relays

Spare Parts

Contacts and arc chambers

Selection and ordering data

For contactors	Version	SD	Article No.	Price per PU	PU (UNIT, SET, M)	PS*	PG
Size	Type	d					
Contacts with fixing parts							
For contactors with 3 main contacts							
S2	3RT2035	Main contacts (3 NO contacts) for utilization category AC-3 (1 set = 3 movable and 6 fixed switching elements with fixing parts)	5	3RT2935-6A	1	1 unit	41B
	3RT2036		5	3RT2936-6A	1	1 unit	41B
	3RT2037		5	3RT2937-6A	1	1 unit	41B
	3RT2038		5	3RT2938-6A	1	1 unit	41B
S3	3RT2.45		NEW X	3RT2945-6A	1	1 unit	41B
	3RT2.46		NEW X	3RT2946-6A	1	1 unit	41B
	3RT2.47		NEW X	3RT2947-6A	1	1 unit	41B
S6	3RT1054		▶	3RT1954-6A	1	1 unit	41B
	3RT1055		▶	3RT1955-6A	1	1 unit	41B
	3RT1056		▶	3RT1956-6A	1	1 unit	41B
S10	3RT1064		▶	3RT1964-6A	1	1 unit	41B
	3RT1065		▶	3RT1965-6A	1	1 unit	41B
	3RT1066		▶	3RT1966-6A	1	1 unit	41B
S12	3RT1075		▶	3RT1975-6A	1	1 unit	41B
	3RT1076		2	3RT1976-6A	1	1 unit	41B
S6	3RT1456	Main contacts (3 NO contacts) for utilization category AC-1 (1 set = 3 movable and 6 fixed switching elements with fixing parts)	5	3RT1956-6D	1	1 unit	41B
S10	3RT1466		5	3RT1966-6D	1	1 unit	41B
S12	3RT1476		2	3RT1976-6D	1	1 unit	41B
For contactors with 4 main contacts							
S2	3RT2336	Main contacts (4 NO contacts) for utilization category AC-1 (1 set = 3 moving and 6 fixed switching elements and replacement pole with fixing parts)	5	3RT2936-6E	1	1 unit	41B
	3RT2337		5	3RT2937-6E	1	1 unit	41B
Arc chambers							
For contactors with 3 main contacts							
S6	3RT1054	For contactors with AC/DC coil only	5	3RT1954-7A	1	1 unit	41B
	3RT1055		5	3RT1955-7A	1	1 unit	41B
	3RT1056		5	3RT1956-7A	1	1 unit	41B
	3RT1456		5	3RT1956-7B	1	1 unit	41B
S10	3RT1064		5	3RT1964-7A	1	1 unit	41B
	3RT1065		5	3RT1965-7A	1	1 unit	41B
	3RT1066		5	3RT1966-7A	1	1 unit	41B
	3RT1466		5	3RT1966-7B	1	1 unit	41B
S12	3RT1075		5	3RT1975-7A	1	1 unit	41B
	3RT1076		5	3RT1976-7A	1	1 unit	41B
	3RT1476		5	3RT1976-7B	1	1 unit	41B