

# Switching Devices – Contactors and Contactor Assemblies – for Switching Motors

## Introduction



Size Type		S2 3RT203				S3 3RT204					
3RT20 contactors											
Type AC, DC operation		3RT2035 (p. 3/57, 3/66, 3/68)		3RT2036 3RT2037		3RT2038		3RT2045 (p. 3/58, 3/66, 3/69)		3RT2046 3RT2047	
AC-3											
I <sub>e</sub> /AC-3/400 V		A	40	50	65	80	80	95	110		
400 V		kW	18.5	22	30	37	37	45	55		
230 V		kW	11	15	18.5	22	22	22	30		
690 V		kW	22	22	37	45	55	75	90		
1 000 V		kW	--	--	--	--	37	37	37		
AC-4 (at I <sub>a</sub> = 6 × I <sub>e</sub> )											
400 V		kW	18.5	22	30	37	37	45	55		
400 V (200 000 operating cycles)		kW	11.6	12.6	14.7	15.8	17.9	22	24.3		
AC-1 (40 °C, ≤ 690 V)											
I <sub>e</sub>		A	60	70	80	90	125	130	130		
Accessories for contactors											
Auxiliary switches		• On front • Lateral	3RH29, 3RA28 3RH29				3RH29, 3RA28 3RH29				
Function modules		• Direct-on-line starting • IO-Link, AS-Interface	3RA283. 3RA271.-.AA00				3RA283. 3RA271.-.AA00				
Surge suppressors			3RT2936				3RT2936 <sup>1)</sup> , 3RT2946				
Terminal covers			3RT2936-4EA2				3RT2946-4EA2				
3RU2 and 3RB overload relays											
3RU thermal overload relays			3RU2136	11 ... 80 A			3RU2146	28 ... 100 A			
3RB electronic overload relays											
• For standard applications			3RB3036, 3RB3133	12.5 ... 80 A			3RB3046, 3RB3143	12.5 ... 115 A			
• For High-Feature applications			3RB22, 3RB23 and 3RB24 with current measuring module 3RB2906-2JG1	10 ... 100 A			3RB22, 3RB23 and 3RB24 with current measuring module 3RB2906-2JG1	10 ... 100 A			
3RV20 motor starter protectors											
Motor starter protectors			3RV2031, 3RV2032		9.5 ... 80 A		3RV2041, 3RV2042		28 ... 100 A		
Link modules			3RA2931				3RA1941				
3RA23 reversing contactor assemblies											
Complete units		Type	3RA2335 (p. 3/154)	3RA2336	3RA2337	3RA2338	3RA2345 (p. 3/155)	3RA2346	3RA2347		
400 V		kW	18.5	22	30	37	37	45	55		
Assembly kits/wiring modules			3RA2933-2AA.				3RA2943-2AA.				
Function modules			3RA271.-.BA00				3RA271.-.BA00				
Mechanical interlocks			3RA2934-2B				3RA2934-2B				
3RA24 contactor assemblies for star-delta (wye-delta) starting											
Complete units		Type	3RA2434 (p. 3/171)	3RA2435	3RA2436	3RA2437	3RA2444 (p. 3/172)	3RA2445	3RA2446		
400 V		kW	22/30	37	45	55	55	75	90		
Assembly kits/wiring modules			3RA2933-2BB./-2C				3RA2943-2BB./-2C				
Function modules			3RA271.-.CA00				3RA271.-.CA00				

<sup>1)</sup> From product version E03 onwards, 3RT2936-1B/-1E surge suppressors can be used for 3RT2.4 contactors. When using an AC/DC coil, the surge suppressor is already integrated in the electronics.

### Note:

Safety characteristics for contactors, see "Standards and approvals", page 16/6.

# Switching Devices – Contactors and Contactor Assemblies – for Switching Motors

## Power Contactors for Switching Motors

### General data

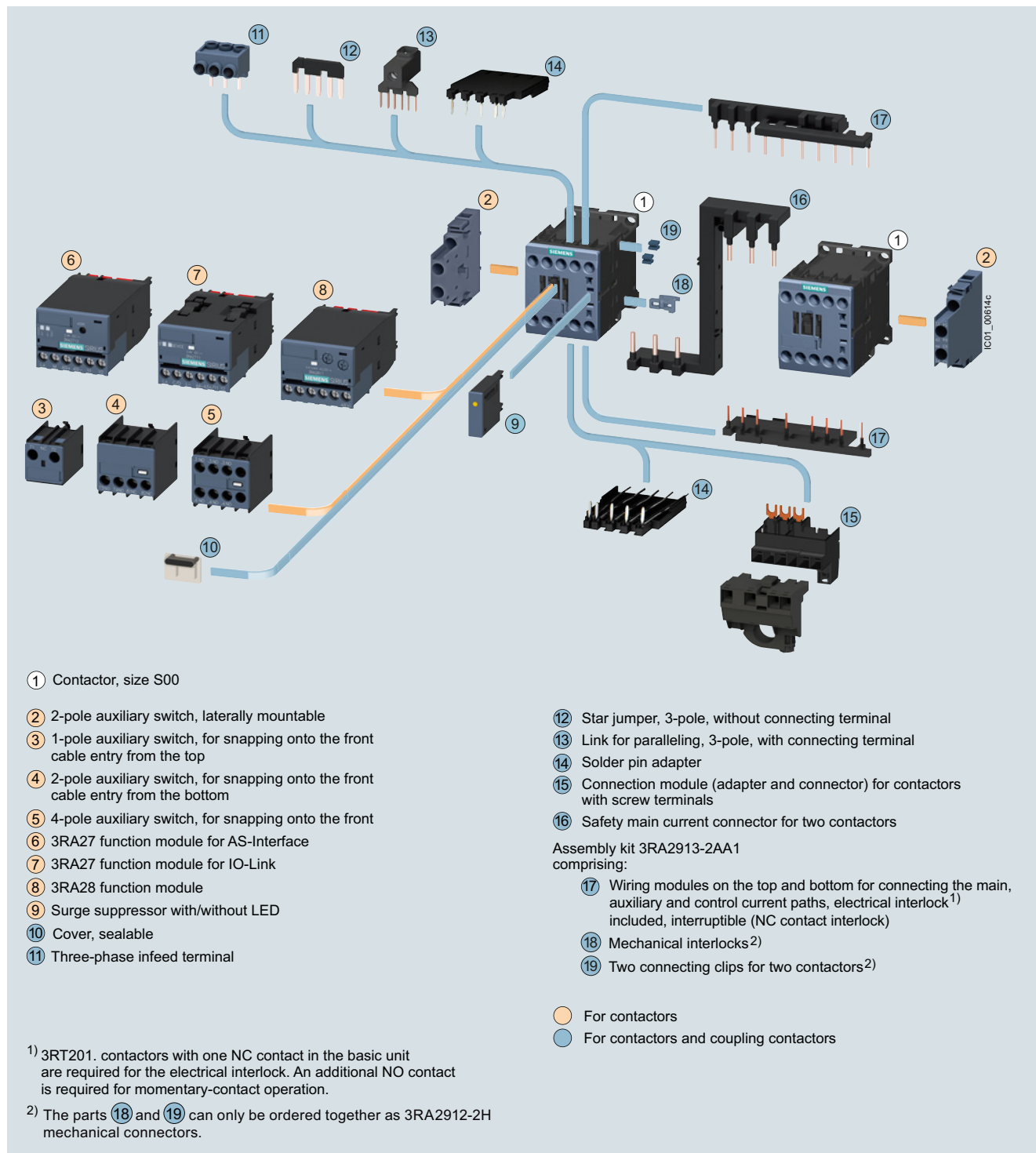
#### Overview

##### 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.

##### 3RT2.1 contactors · Size S00 with mountable accessories

The figure shows the version with screw terminals



Accessories and spare parts, see pages 3/75 to 3/124.

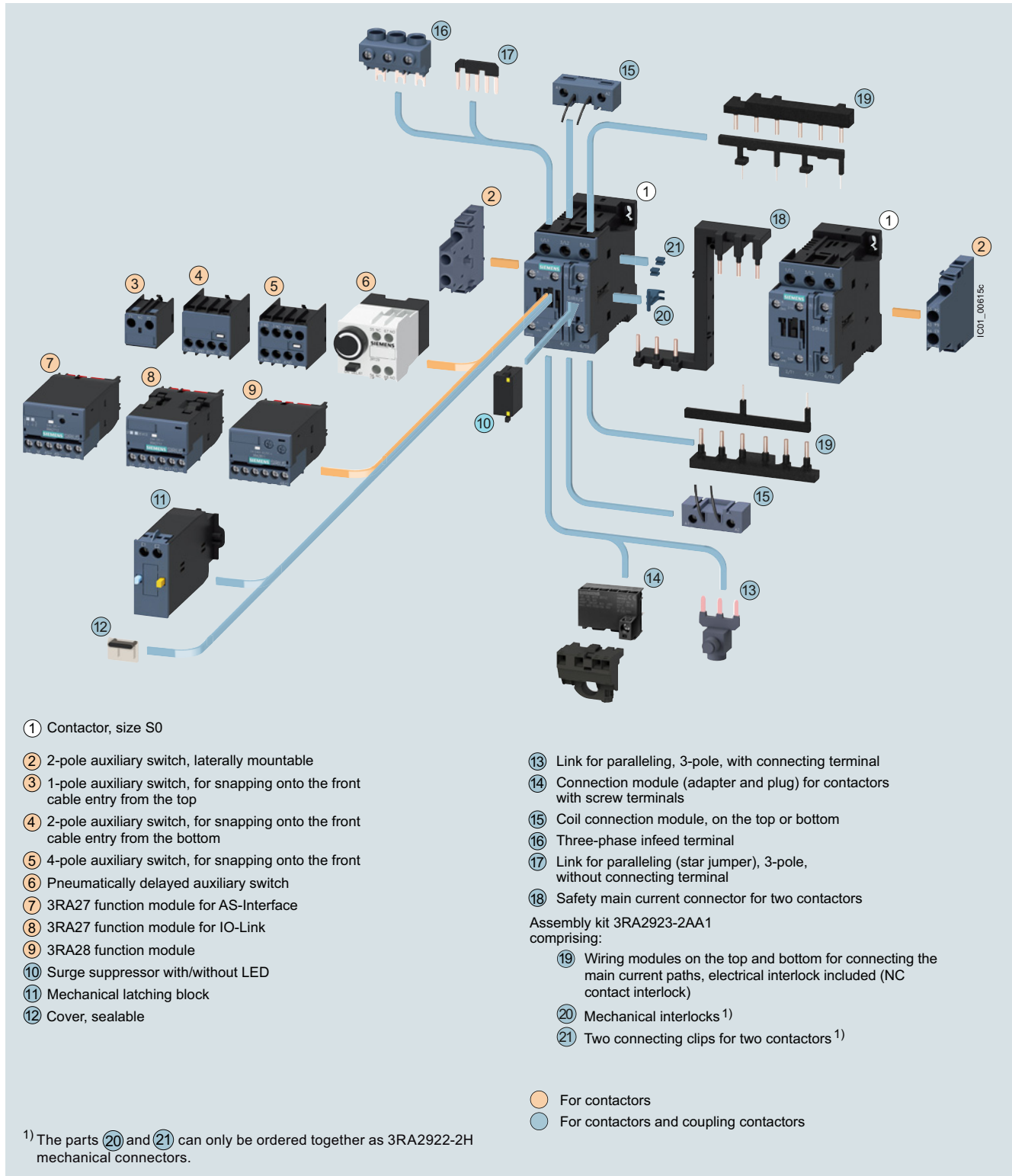
# Switching Devices – Contactors and Contactor Assemblies – for Switching Motors

## Power Contactors for Switching Motors

General data

### 3RT2.2 contactors · Size S0 with mountable accessories

The figure shows the version with screw terminals



Accessories and spare parts, see pages 3/75 to 3/124.

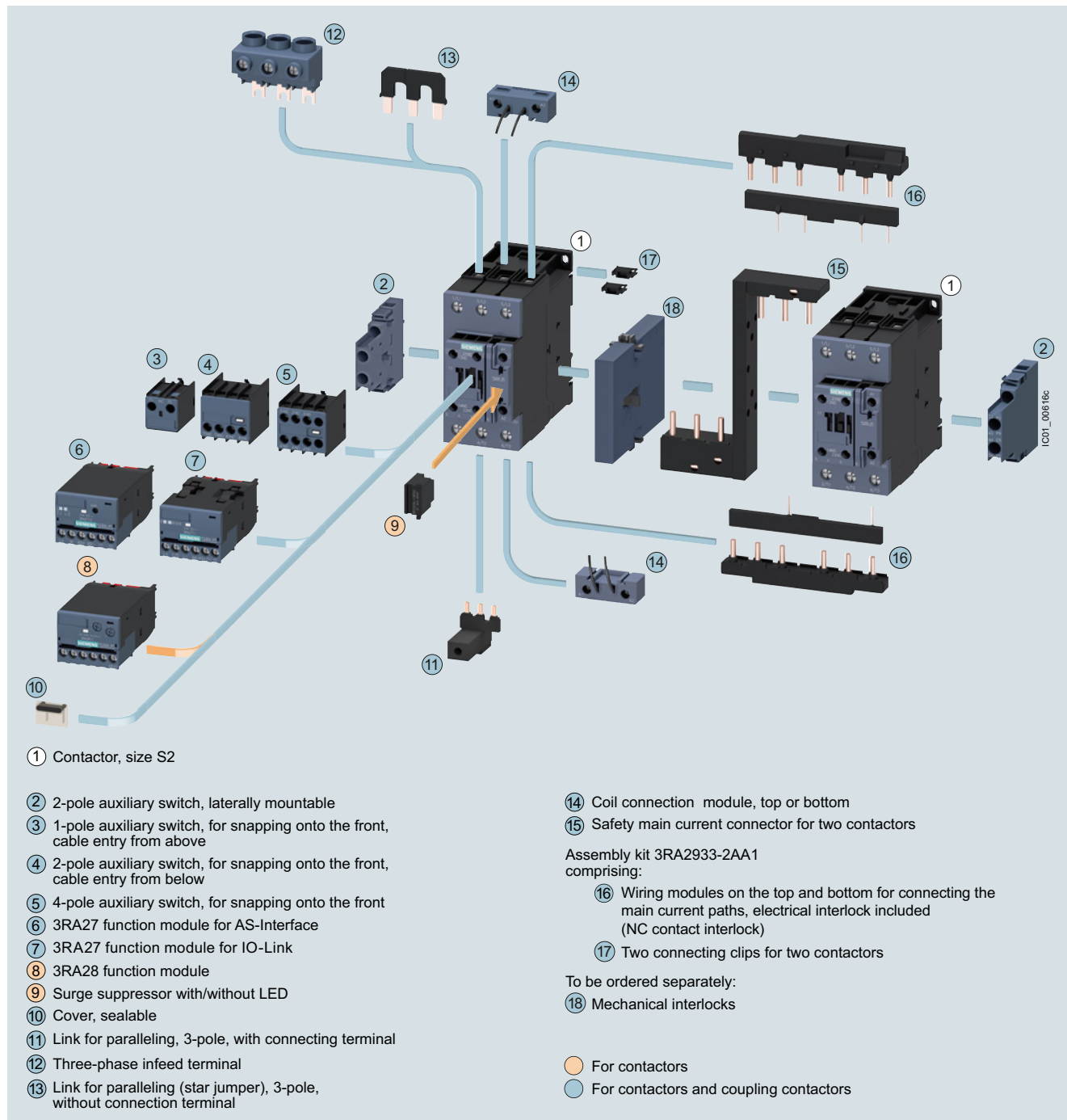
## Switching Devices – Contactors and Contactor Assemblies – for Switching Motors

### Power Contactors for Switching Motors

#### General data

#### 3RT2.3 contactors · Size S2 with mountable accessories

The figure shows the version with screw terminals



Accessories and spare parts, [see pages 3/75 to 3/124](#).

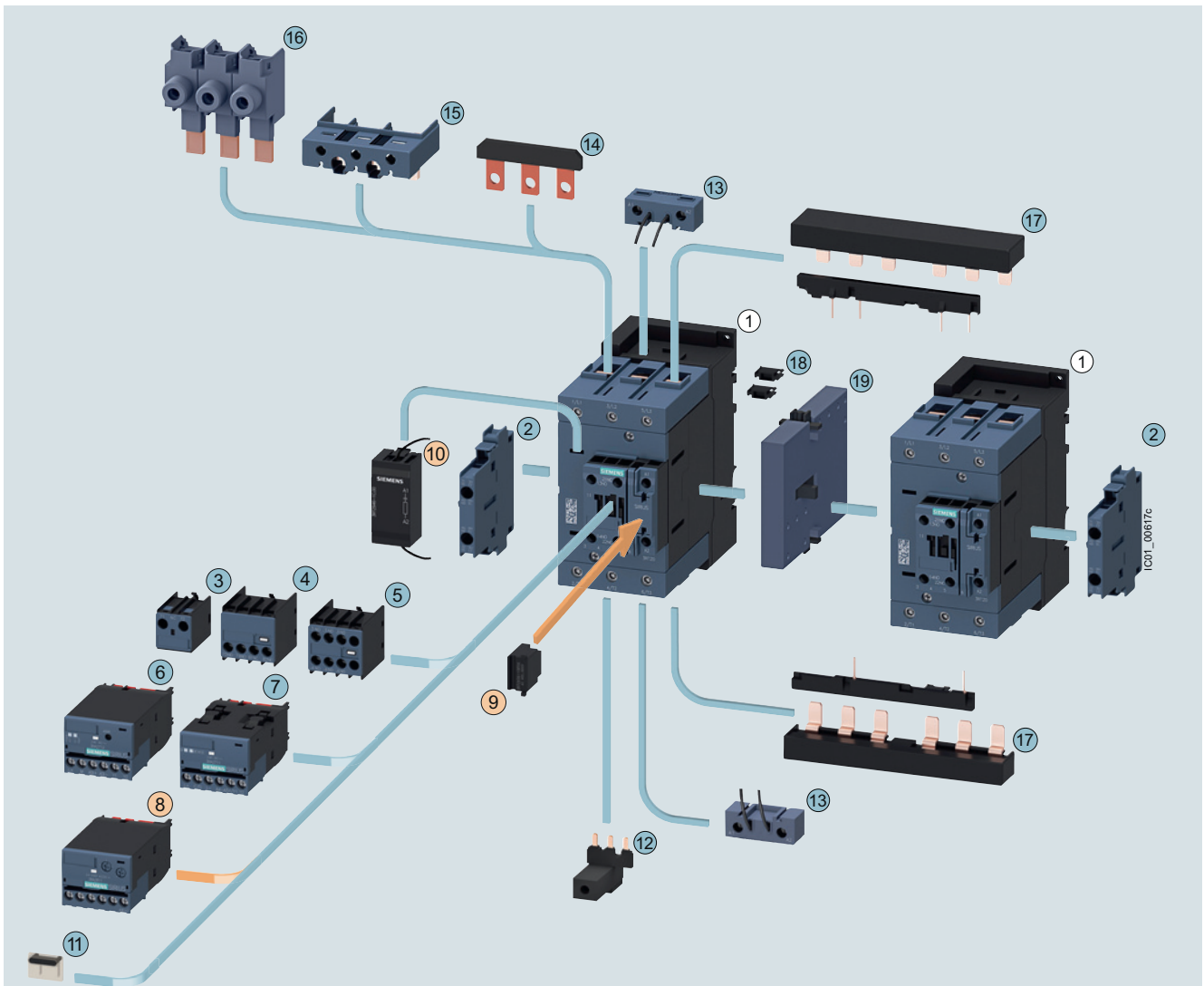
# Switching Devices – Contactors and Contactor Assemblies – for Switching Motors

## Power Contactors for Switching Motors

General data

### 3RT2.4 contactors · Size S3 with mountable accessories

The figure shows the version with screw terminals



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 2-pole auxiliary switch block, for snapping onto the front, cable entry from below

⑤ 4-pole auxiliary switch block, for snapping onto the front

⑥ 3RA27 function module for AS-Interface

⑦ 3RA27 function module for IO-Link

⑧ 3RA28 function module

⑨ Surge suppressor with/without LED (Varistor, diode assembly), can be plugged in on the front

⑩ Surge suppressor without LED (RC element), can be plugged in on the front in the recesses on the left next to the connection block

⑪ Cover, sealable

⑫ Links for paralleling, 3-pole, with connecting terminal

⑬ Coil connection module, top or bottom

⑭ Links for paralleling (star jumper), 3-pole without connecting terminal

⑮ Auxiliary terminal, 3-pole

⑯ Single-phase infeed terminals (3 units)

Assembly kit 3RA2943-2AA1

comprising:

⑰ Wiring modules on the top and bottom for connecting the main, auxiliary and control current paths, electrical interlock<sup>1)</sup> included, interruptible (NC contact interlock)

⑱ Two connectors for two contactors

To be ordered separately:

⑲ Mechanical interlock

○ For contactors

● For contactors and coupling contactors

<sup>1)</sup> 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.

Accessories and spare parts, see pages 3/75 to 3/124.

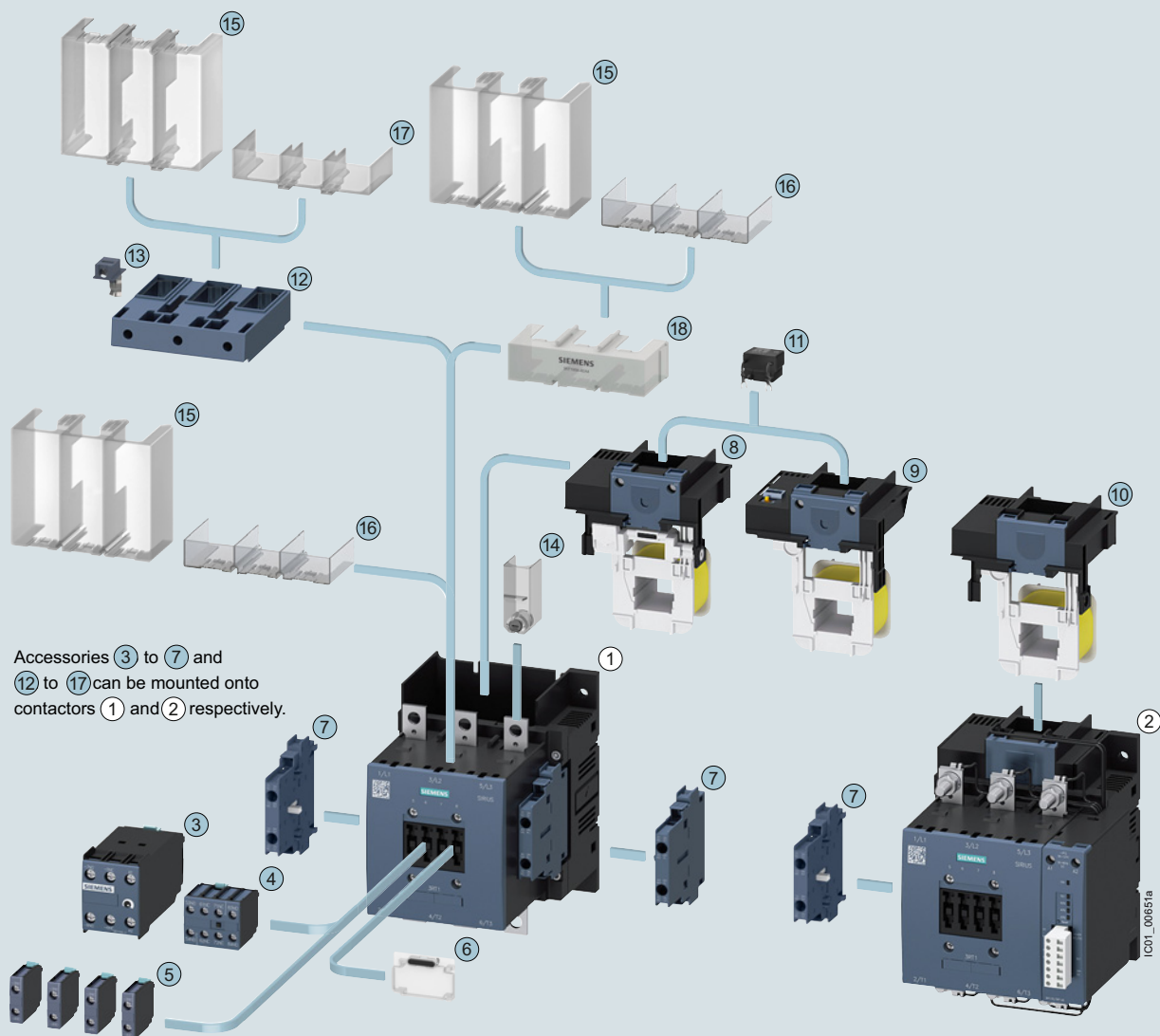


# Switching Devices – Contactors and Contactor Assemblies – for Switching Motors

## Power Contactors for Switching Motors

### General data

#### 3RT105 and 3RT145 contactors · Size S6 with mountable accessories



① 3RT105 and 3RT145 air-break contactors, size S6 (version without withdrawable coil)

② 3RT105-.P and 3RT145-.P air-break contactors with solid-state operating mechanism and remaining lifetime indicator, size S6 (version with withdrawable coil and laterally mountable add-on module)

#### Can be mounted onto the front of contactors ① and ②

- ③ 3RT1926: Auxiliary switch block, electronically delayed (ON-delay or OFF-delay or star-delta (wye-delta) starting)
- ④ 3RH192: 4-pole auxiliary switch
- ⑤ 3RH192: 1-pole auxiliary switch (max. four can be snapped on)
- ⑥ 3RT1926-4MA10: Cover, sealable

#### Can be mounted onto the side of contactors ① and ②

- ⑦ 3RH192: 2-pole auxiliary switch

#### Can be inserted in top of contactors

- ⑧ 3RT1955-5A.3.: Withdrawable coil, standard operating mechanism
- ⑨ 3RT1955-5N.3.: Withdrawable coil, solid-state operating mechanism
- ⑩ 3RT1955-5P.3.: Withdrawable coil, solid-state operating mechanism and remaining lifetime indicator

#### Can be plugged onto the top of contactor operating mechanisms ⑧ and ⑨

- ⑪ 3RT1956-1C: Surge suppressor (RC element)

#### Can be mounted onto the top or bottom on busbars or box terminals of contactors ① and ②

- ⑫ 3RT1956-4G: Box terminal block
- ⑬ 3TX7500-0A: Auxiliary terminal, 1-pole
- ⑭ 3TX6526-3B: Terminal cover (can be screwed on), covers one busbar connection
- ⑮ 3RT1956-4EA1: Terminal cover for busbar connection and on box terminal
- ⑯ 3RT1956-4EA3: Terminal cover for busbar connection
- ⑰ 3RT1956-4EA2: Terminal cover on box terminal
- ⑱ 3RT1956-4EA4: Terminal cover for busbar connection, covers ⑮, ⑯ and ⑱ can be mounted

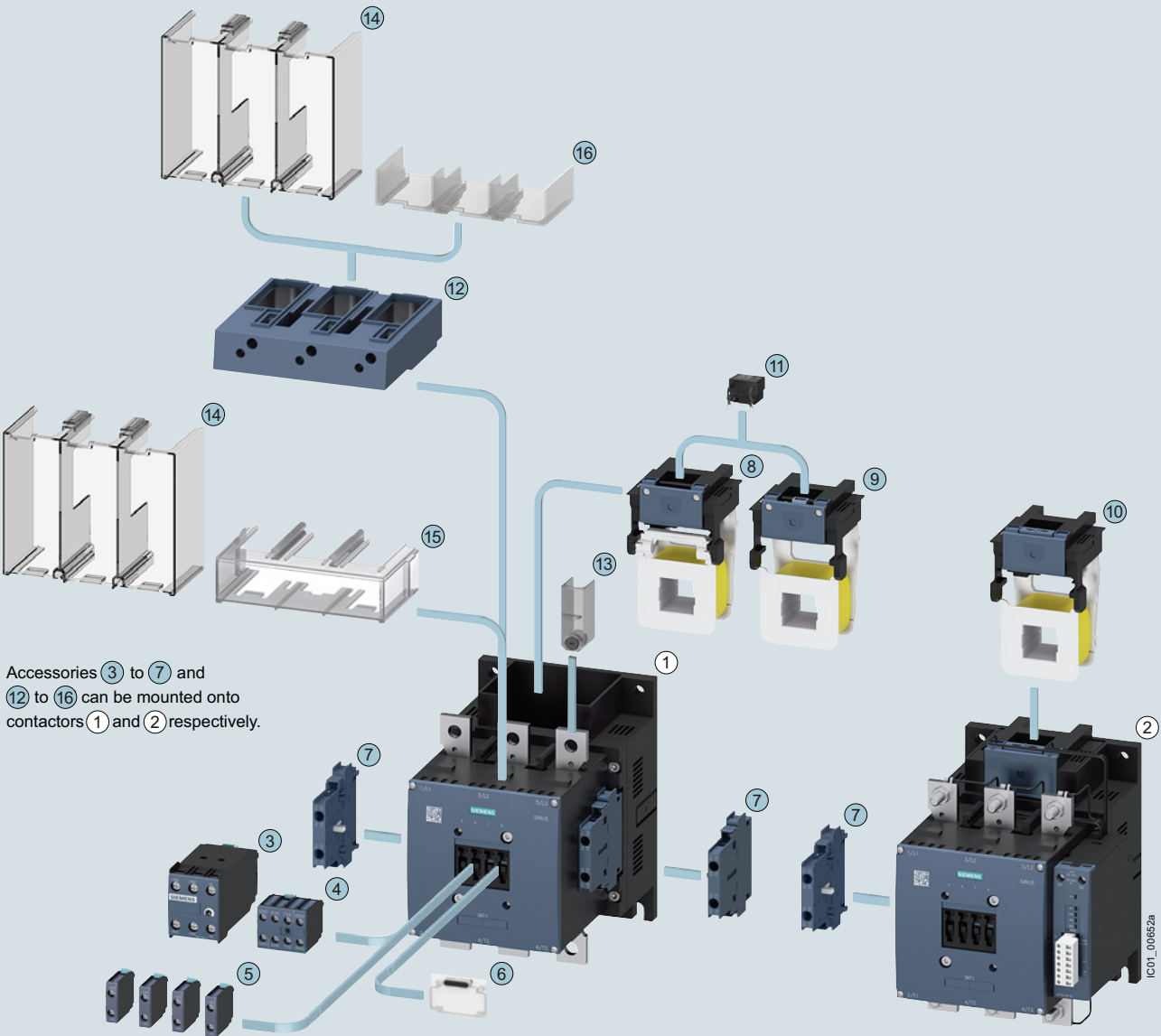
Accessories and spare parts, see pages 3/75 to 3/124.

# Switching Devices – Contactors and Contactor Assemblies – for Switching Motors

## Power Contactors for Switching Motors

General data

### 3RT106 and 3RT146 contactors · Size S10 with mountable accessories



Accessories ③ to ⑦ and ⑫ to ⑯ can be mounted onto contactors ① and ② respectively.

- ① 3RT106 and 3RT146 air-break contactors, size S10 (version without withdrawable coil)
- ② 3RT106-.P and 3RT146-.P air-break contactors with solid-state operating mechanism and remaining lifetime indicator, size S10 (version with withdrawable coil and laterally mountable add-on module)

#### Can be mounted onto the front of contactors ① and ②

- ③ 3RT1926: Auxiliary switch, electronically delayed (ON-delay or OFF-delay or star-delta (wye-delta) starting)
- ④ 3RH192: 4-pole auxiliary switch
- ⑤ 3RH192: 1-pole auxiliary switch (max. four can be snapped on)
- ⑥ 3RT1926-4MA10: Cover, sealable

#### Can be mounted onto the side of contactors ① and ②

- ⑦ 3RH192: 2-pole auxiliary switch

#### Can be inserted in the top of contactors

- ⑧ 3RT1965-5A.3.: Withdrawable coil, standard operating mech.
- ⑨ 3RT1965-5N.3.: Withdrawable coil, solid-state operating mech.
- ⑩ 3RT1965-5P.3.: Withdrawable coil, solid-state operating mech. and remaining lifetime indicator

#### Can be plugged onto the top of contactor operating mechanisms ⑧ and ⑨

- ⑪ 3RT1956-1C: Surge suppressor (RC element)

#### Can be mounted at the top or bottom on busbars or box terminals of contactors ① and ②

- ⑫ 3RT1966-4G: Box terminal block
- ⑬ 3TX6546-3B: Terminal cover (can be screwed on), covers one busbar connection
- ⑭ 3RT1966-4EA1: Terminal cover for busbar connection and on box terminal
- ⑮ 3RT1966-4EA3: Terminal cover for busbar connection
- ⑯ 3RT1966-4EA2: Terminal cover on box terminal

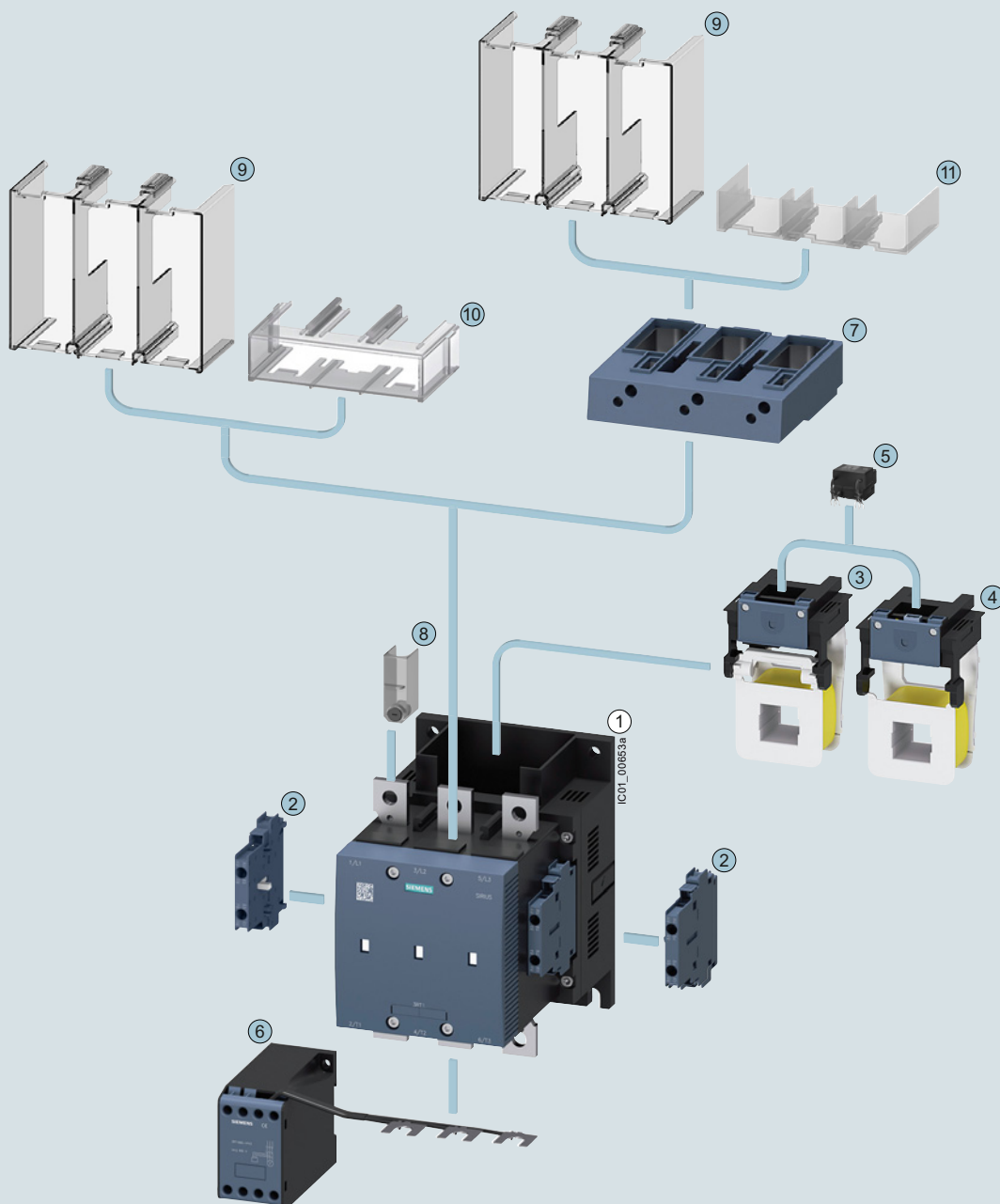
Accessories and spare parts, [see pages 3/75 to 3/124](#).

## Switching Devices – Contactors and Contactor Assemblies – for Switching Motors

### Power Contactors for Switching Motors

#### General data

#### 3RT126 vacuum contactors · Size S10 with mountable accessories



- ① 3RT126 vacuum contactor, size S10  
(version without withdrawable coil)

**Can be mounted onto side of contactor**

- ② 3RH192: 2-pole auxiliary switch

**Can be inserted in top of contactor**

- ③ 3RT1966-5A.3.: Withdrawable coil, standard operating mechanism  
④ 3RT1966-5N.3.: Withdrawable coil, solid-state operating mechanism

**Can be plugged onto top of contactor operating mechanisms**

- ⑤ 3RT1956-1C: Surge suppressor (RC element)

**Can be mounted at bottom on busbars**

- ⑥ 3RT1966-1PV.: Main current path surge suppression module

**Can be mounted onto the top or bottom on busbars or box terminals**

- ⑦ 3RT1966-4G: Box terminal block  
⑧ 3TX6546-3B: Terminal cover (can be screwed on), covers one busbar connection  
⑨ 3RT1966-4EA1: Terminal cover for busbar connection and on box terminal  
⑩ 3RT1966-4EA3: Terminal cover for busbar connection  
⑪ 3RT1966-4EA2: Terminal cover on box terminal

Accessories and spare parts, [see pages 3/75 to 3/124 and 3/137 to 3/140.](#)

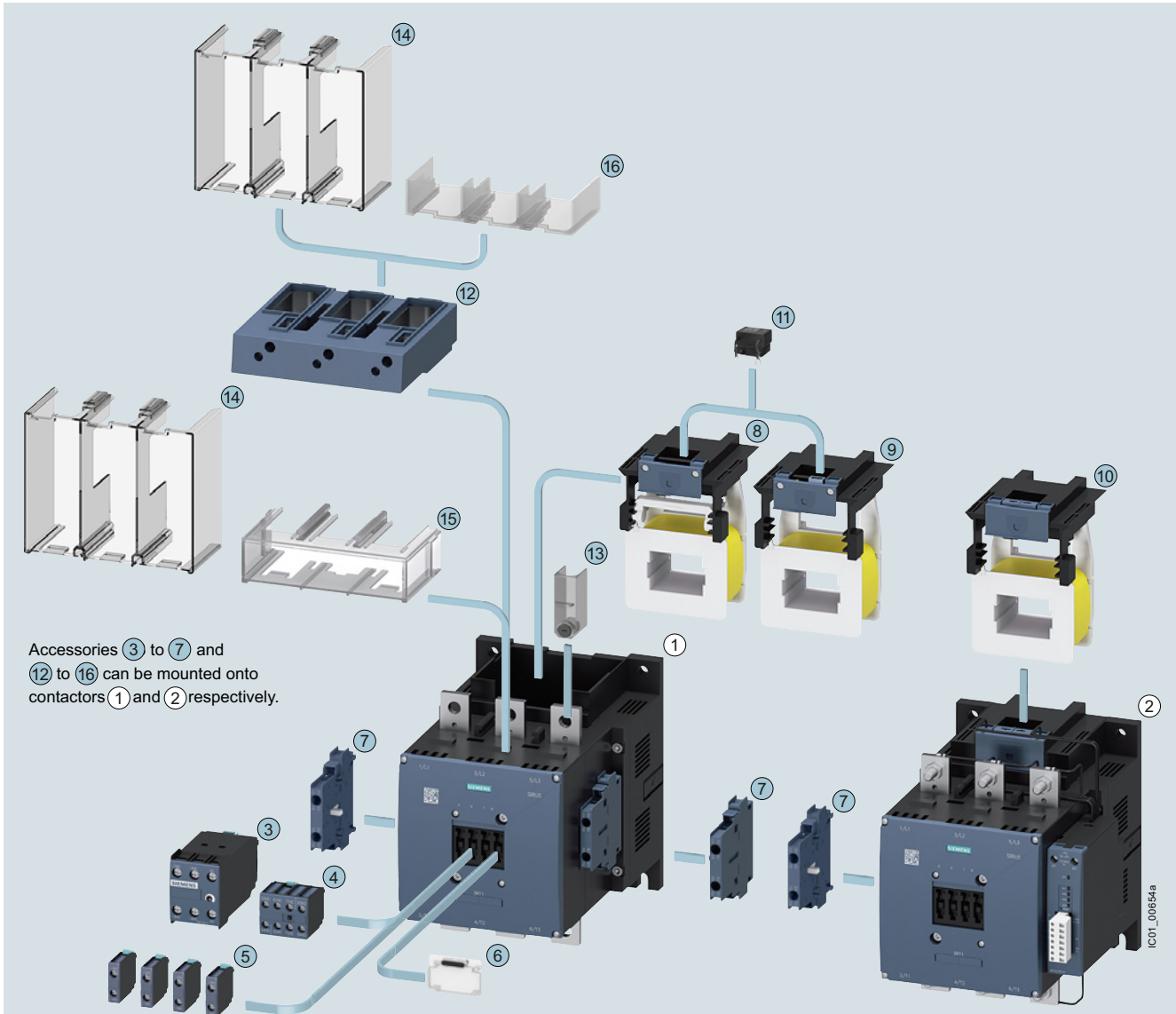


# Switching Devices – Contactors and Contactor Assemblies – for Switching Motors

## Power Contactors for Switching Motors

General data

### 3RT107 and 3RT147 contactors · Size S12 with mountable accessories



- ① 3RT107 and 3RT147 air-break contactors, size S12 (version without withdrawable coil)
- ② 3RT107.-P and 3RT147.-P air-break contactors with solid-state operating mechanism and remaining lifetime indicator, size S12 (version with withdrawable coil and laterally mountable add-on module)

#### Can be mounted onto the front of contactors ① and ②

- ③ 3RT1926: Auxiliary switch, electronically delayed (ON-delay or OFF-delay or star-delta (wye-delta) starting)
- ④ 3RH192: 4-pole auxiliary switch
- ⑤ 3RH192: 1-pole auxiliary switch (max. four can be snapped on)
- ⑥ 3RT1926-4MA10: Cover, sealable

#### Can be mounted onto the side of contactors ① and ②

- ⑦ 3RH192: 2-pole auxiliary switch

#### Can be inserted in top of contactors

- ⑧ 3RT1975-5A.3.: Withdrawable coil, standard operating mech.
- ⑨ 3RT1975-5N.3.: Withdrawable coil, solid-state operating mech.
- ⑩ 3RT1975-5P.3.: Withdrawable coil, solid-state operating mech. and remaining lifetime indicator

#### Can be plugged onto top of contactor operating mechanisms ⑧ and ⑨

- ⑪ 3RT1956-1C: Surge suppressor (RC element)

#### Can be mounted at the top or bottom on busbars or box terminals of contactors ① and ②

- ⑫ 3RT1966-4G: Box terminal block
- ⑬ 3TX6546-3B: Terminal cover (can be screwed on), covers one busbar connection
- ⑭ 3RT1966-4EA1: Terminal cover for busbar connection and on box terminal
- ⑮ 3RT1966-4EA3: Terminal cover for busbar connection
- ⑯ 3RT1966-4EA2: Terminal cover on box terminal

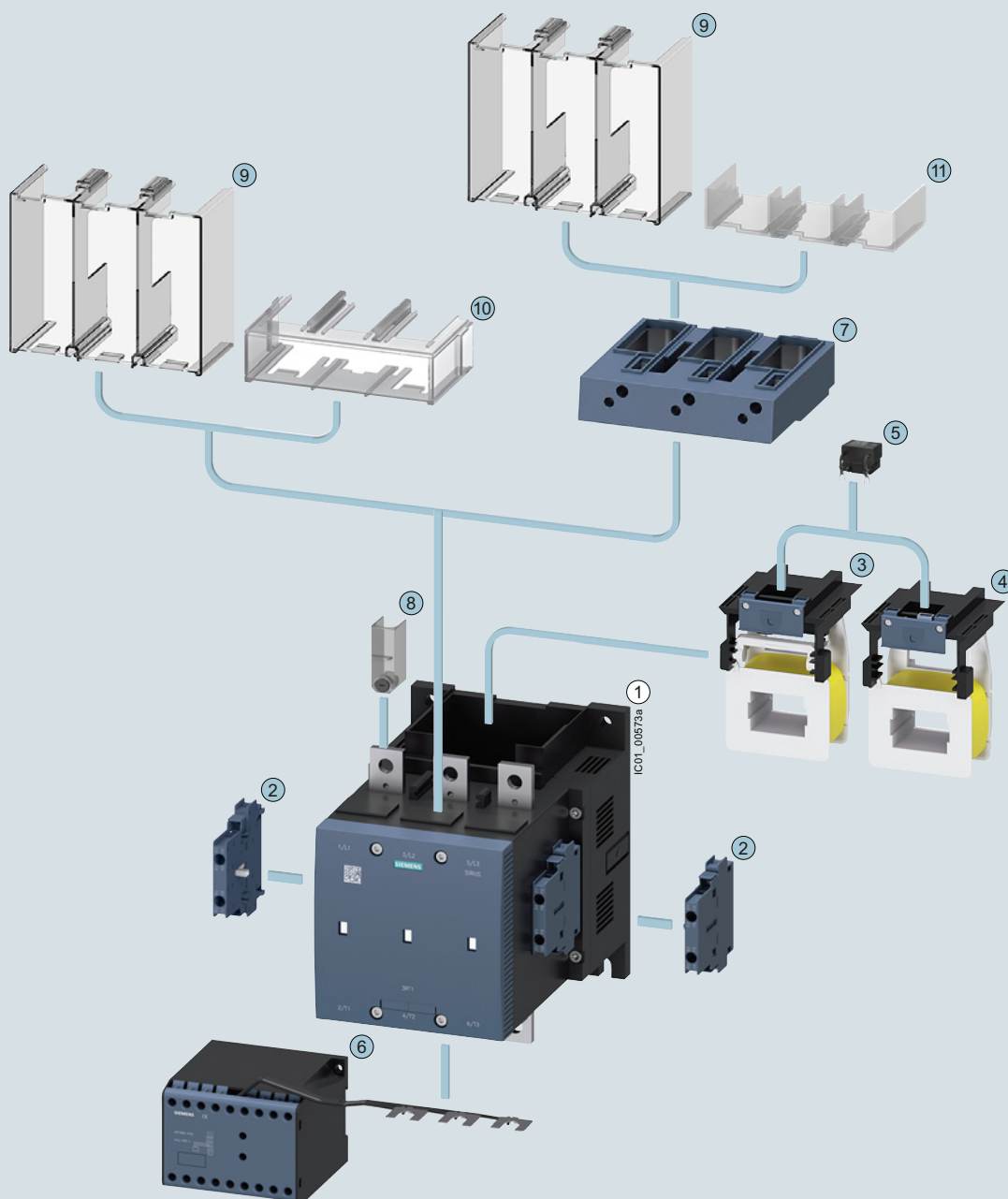
Accessories and spare parts, [see pages 3/75 to 3/124](#).

## Switching Devices – Contactors and Contactor Assemblies – for Switching Motors

### Power Contactors for Switching Motors

#### General data

#### 3RT127 vacuum contactors · Size S12 with mountable accessories



- ① 3RT127 Vacuum contactor, size S12  
(version without withdrawable coil)

**Can be mounted onto the side of contactor**

- ② 3RH192: 2-pole auxiliary switch

**Can be inserted in top of contactors**

- ③ 3RT1975-5A.3.: Withdrawable coil, standard operating mechanism  
④ 3RT1975-5N.3.: Withdrawable coil, solid-state operating mechanism

**Can be plugged onto the top of contactor operating mechanisms**

- ⑤ 3RT1956-1C: Surge suppressor (RC element)

**Can be mounted at bottom on busbars**

- ⑥ 3RT1966-1PV.: Main current path surge suppression module

**Can be mounted at the top or bottom on busbars or box terminals**

- ⑦ 3RT1966-4G: Box terminal block

- ⑧ 3TX6546-3B: Terminal cover (can be screwed on), covers one busbar connection

- ⑨ 3RT1956-4EA1: Terminal cover for busbar connection and on box terminal

- ⑩ 3RT1966-4EA3: Terminal cover for busbar connection

- ⑪ 3RT1966-4EA2: Terminal cover on box terminal

Accessories and spare parts, see pages 3/75 to 3/124 and 3/137 to 3/140.

# Switching Devices – Contactors and Contactor Assemblies – for Switching Motors

## Power Contactors for Switching Motors

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

### Overview

Version	Size	Ratings of three-phase motors at 50 Hz and 400 V  kW	Connection methods  Screw terminals	Methods  Spring-loaded terminals	Type	Page
Power contactors for switching motors						
AC operation						
Basic unit	S00	3 ... 7.5	✓	✓	3RT201.-.A.0.	3/54
• With permanently mounted auxiliary switch			✓	✓	3RT201.-.AP04-3MA0	3/54
• With permanently mounted auxiliary switch and varistor plugged into the front			✓	✓	3RT201.-.CP04-3MA0	3/54
Basic unit	S0	4 ... 18.5	✓	✓	3RT202.-.A.00	3/55
• With removable auxiliary switch			✓	✓	3RT202.-.A.04	3/56
• With permanently mounted auxiliary switch and varistor plugged in			✓	✓	3RT202.-.CL24-3MA0	3/56
Basic unit	S2	18.5 ... 37	✓	✓	3RT203.-.A.00	3/57
• With removable auxiliary switch			✓	--	3RT203.-1A.04	3/57
• With permanently mounted auxiliary switch and integrated coil circuit			✓	✓	3RT203.-.CL24-3MA0	3/57
Basic unit	S3	37 ... 55	✓	✓	3RT20.-.A.00	3/58
• With removable auxiliary switch			✓	--	3RT204.-1A.04	3/58
• With permanently mounted auxiliary switch and integrated coil circuit			✓	--	3RT204.-1CL24-3MA0	3/58
DC operation						
Basic unit	S00	3 ... 7.5	✓	✓	3RT201.-.B.4.	3/59
• With integrated coil circuit			✓	✓	3RT201.-..B4.	3/59
• With permanently mounted auxiliary switch			✓	✓	3RT201.-.BB44-3MA0	3/60
• With permanently mounted auxiliary switch and integrated coil circuit			✓	✓	3RT201.-.FB44-3MA0	3/60
• With voltage tap-off			✓	✓	3RT201.-.BB4.-0CC0	3/60
Basic unit	S0	4 ... 18.5	✓	✓	3RT202.-.B.40	3/63
• With coil circuit plugged into front			✓	✓	3RT202.-..B40	3/63
• With removable auxiliary switch			✓	✓	3RT202.-.BB44	3/63
• With permanently mounted auxiliary switch and integrated coil circuit			✓	✓	3RT202.-..B44-3MA0	3/64
• With voltage tap-off			✓	✓	3RT202.-.BB40-0CC0	3/64
DC operation for direct control by PLC (coupling relays)						
Basic unit	S00	3 ... 5.5	✓	✓	3RT201.-..B4.	3/61
Basic unit with integrated coil circuit	S00	3 ... 5.5	✓	✓	3RT201.-..B4.	3/61, 3/62
	S0	4 ... 15	✓	✓	3RT202.-.KB40	3/65
	S2	18.5 ... 37	✓	✓	3RT203.-.KB40	3/66
	S3	37 and 45	✓	✓	3RT204.-.KB40	3/66
AC/DC operation (50/60 Hz AC or DC)						
Basic unit with integrated coil circuit	S0	5.5 ... 18.5	✓	✓	3RT202.-.N.30	3/67
Basic unit with integrated coil circuit	S2	18.5 ... 37	✓	✓	3RT203.-.N.30	3/68
• With removable auxiliary switch			✓	--	3RT203.-1N.34	3/68
• With permanently mounted auxiliary switch			✓	✓	3RT203.-.NB34-3MA0	3/68
• With voltage tap-off			✓	✓	3RT203.-.NB30-0CC0	3/68
Basic unit with integrated coil circuit	S3	37 ... 55	✓	✓	3RT204.-.N.30	3/69
• With removable auxiliary switch			✓	--	3RT204.-1N.34	3/69
• With permanently mounted auxiliary switch			✓	✓	3RT204.-.NB34-3MA0	3/69
• With voltage tap-off			✓	✓	3RT204.-.NB30-0CC0	3/69
Basic unit with integrated coil circuit	S6 ... S12	55 ... 250	✓ <sup>1)</sup>	✓	3RT10.-.A.36	3/70
• Standard operating mechanism with economy circuit for AC and DC operation						
• Solid-state operating mechanism with the option of control via a separate 24 V DC control signal input						
- Fail-safe control signal input for safety-related applications up to SIL CL 3	S6 ... S12	55 ... 250	✓ <sup>1)</sup>	--	3RT10.-.S.36	3/71
- Standard control signal input			✓ <sup>1)</sup>	✓	3RT10.-.N.36	3/72
- Standard control signal input, with remaining lifetime indicator (RLT)			✓ <sup>1)</sup>	--	3RT10.-.P.35	3/72

-- Version not possible

✓ Version possible

<sup>1)</sup> Connection method:

- Main circuit: Busbar connection (optionally with box terminals),
- Auxiliary/control circuit: Screw terminals or spring-loaded terminals.

## Switching Devices – Contactors and Contactor Assemblies – for Switching Motors

## Introduction



Size Type	<b>S6</b> 3RT105			<b>S10</b> 3RT1.6			<b>S12</b> 3RT1.7		
<b>3RT10 contactors · 3RT12 vacuum contactors</b>									
Type AC, DC operation	<b>3RT1054</b> <b>3RT1055</b> <b>3RT1056</b> (p. 3/70 ... 3/72)			<b>3RT1064</b> <b>3RT1065</b> <b>3RT1066</b> (p. 3/70 ... 3/72)			<b>3RT1075</b> <b>3RT1076</b> (p. 3/70 ... 3/72)		
Type	--   --   --			<b>3RT1264</b> <b>3RT1265</b> <b>3RT1266</b> (p. 3/134)			<b>3RT1275</b> <b>3RT1276</b> (p. 3/134)		
<b>AC-3</b>									
$I_e$ /AC-3/400 V	A	115	150	185	225	265	300	400	500
<b>400 V</b>	<b>kW</b>	<b>55</b>	<b>75</b>	<b>90</b>	<b>110</b>	<b>132</b>	<b>160</b>	<b>200</b>	<b>250</b>
230 V	kW	37	45	55	55	75	90	132	160
690 V	3RT10/3RT12 kW	110	132	160	200	250	250	400	400/500
1 000 V	3RT10/3RT12 kW	75	90	90	90/315	132/355	132/400	250/560	250/710
<b>AC-4</b> (at $I_a = 6 \times I_e$ )									
<b>400 V</b>	<b>kW</b>	<b>55</b>	<b>75</b>	<b>90</b>	<b>110</b>	<b>132</b>	<b>160</b>	<b>200</b>	<b>250</b>
400 V	3RT10/3RT12 kW	29	38	45	54/78	66/93	71/112	84/140	98/161
(200 000 operating cycles)									
<b>AC-1</b> (40 °C, ≤ 690 V)									
$I_e$	3RT10/3RT12 A	<b>160</b>	<b>185</b>	<b>215</b>	<b>275/330</b>	<b>330</b>	<b>330</b>	<b>430/610</b>	<b>610</b>
<b>3RT14 AC-1 contactors</b>									
Type	<b>3RT1456</b> (p. 4/15, 4/16)				<b>3RT1466</b> <b>3RT1467</b> (p. 4/15, 4/16)		<b>3RT1476</b> (p. 4/15, 4/16)		
$I_e$ /AC-1/40 °C≤ 690 V	A	<b>275</b>				<b>400</b> <b>500</b>		<b>690</b>	
<b>Accessories for contactors</b>									
<b>Auxiliary switches</b> <ul style="list-style-type: none"><li>• On front</li><li>• Lateral</li></ul>	<b>3RH19, 3RT1926</b> <b>3RH19</b>				(p. 3/96, 3/101) (p. 3/98, 3/99)				
<b>Surge suppressors</b>	<b>3RT1956-1C</b> (RC element)				(p. 3/103)				
<b>Terminal covers</b>	<b>3RT1956-4EA.</b> (p. 3/117)				<b>3RT1966-4EA.</b>		(p. 3/117)		
<b>Box terminal blocks</b>	<b>3RT1955-4G, 3RT1956-4G</b> (p. 3/115)				<b>3RT1966-4G</b>		(p. 3/115)		
<b>3RB2 overload relays</b>									
<b>3RB electronic overload relays</b> <ul style="list-style-type: none"><li>• For standard applications</li><li>• For High-Feature applications</li></ul>	<b>3RB2056</b> 50 ... 200 A (p. 7/117, 7/118) <b>3RB2153</b> 50 ... 200 A (p. 7/119)  <b>3RB22, 3RB23 and 3RB24</b> (p. 7/128) <b>with current measuring module 3RB2956-2TH2</b> (p. 7/140) 20 ... 200 A				<b>3RB2066</b> 55 ... 250 A or 160 ... 630 A (p. 7/117, 7/118) <b>3RB2163</b> 55 ... 250 A or 160 ... 630 A (p. 7/119)  <b>3RB22, 3RB23 and 3RB24</b> (p. 7/128) <b>with current measuring module 3RB2966-2WH2</b> (p. 7/140) 63 ... 630 A				
<b>3RV10 molded case motor starter protectors</b>									
<b>Molded case motor starter protectors</b>	<b>3RV1063</b> 40 ... 200 A (p. 7/75)				<b>3RV1073</b> 160 ... 400 A (p. 7/75)		<b>3RV1083</b> 252 ... 630 A (p. 7/75)		
<b>Reversing contactor assemblies<sup>1)</sup></b>									
<b>Complete units</b>	Type	--							
<b>400 V</b>	<b>kW</b>	<b>55</b>	<b>75</b>	<b>90</b>	<b>110</b>	<b>132</b>	<b>160</b>	<b>200</b>	<b>250</b>
<b>Assembly kits/wiring modules</b>	<b>3RA1953-2A</b> (p. 3/109)				<b>3RA1963-2A</b> (p. 3/109)		<b>3RA1973-2A</b> (p. 3/109)		
<b>Mechanical interlocks</b>	<b>3RA1954-2A</b> (p. 3/113)								
<b>Contactor assemblies for star-delta (wye-delta) starting<sup>1)</sup></b>									
<b>Complete units</b>	Type	--							
<b>400 V</b>	<b>kW</b>	--							
<b>Assembly kits/wiring modules</b>	<b>3RA1953-2B</b> (p. 3/111)				<b>3RA1963-2B</b> (p. 3/111)		<b>3RA1973-2B</b> (p. 3/111)		

<sup>1)</sup> Contactor assemblies for customer assembly:  
 - Reversing contactor assemblies, see pages 3/157 to 3/159,  
 - Contactor assemblies for star-delta (wye-delta) starting, see pages 3/174 to 3/179.

**Note:**

Safety characteristics for contactors, see "Standards and approvals", page 16/6.

# Switching Devices – Contactors and Contactor Assemblies – for Switching Motors

## Introduction



Size  
Type

**14**  
**3TF6**

### 3TF68/3TF69 vacuum contactors

Type	<b>3TF68</b> (p. 3/135, 3/136)	<b>3TF69</b> (p. 3/135, 3/136)
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### AC-3

$I_e$ /AC-3/400 V	A	630	820
<b>400 V</b>	<b>kW</b>	<b>335</b>	<b>450</b>
230 V	kW	200	260
690 V	kW	600	800
1 000 V	kW	600	800

### AC-4 (at $I_a = 6 \times I_e$ )

<b>400 V</b>	<b>kW</b>	<b>355</b>	<b>400</b>
400 V	kW	168	191
(200 000 operating cycles)			

### AC-1 (40 °C, ≤ 690 V)

$I_e$	A	<b>700</b>	<b>910</b>
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### Accessories for contactors

<b>Auxiliary switches</b>			
• Lateral	<b>3TY7561</b>		(p. 3/137)
<b>Surge suppressors</b>	<b>3TX7572</b>		(p. 3/138)
<b>Terminal covers</b>	<b>3TX7686, 3TX7696</b>		(p. 3/138)

### 3RB2 overload relays

<b>3RB electronic overload relays</b>			
• For standard applications	<b>3RB2066, 3RB2163</b>	55 ... 250 A or 160 ... 630 A (p. 7/117, 7/118) (p. 7/119)	<b>3RB22, 3RB23 and 3RB24 with current measuring module 3RB2906-2.G1 with 3UF series transformer up to 820 A</b> (p. 7/128, 7/136) (p. 7/140)
• For High-Feature applications	<b>3RB22, 3RB23 and 3RB24 with current measuring module 3RB2966-2WH2</b>	63 ... 630 A (p. 7/140)	63 ... 820 A

### 3RV10 molded case motor starter protectors

<b>Molded case motor starter protectors</b>	<b>3RV1083</b>	252 ... 630 A	(p. 7/75)
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### Reversing contactor assemblies

<b>Complete units</b>	Type	--	
<b>400 V</b>	<b>kW</b>	<b>335</b>	
<b>Assembly kits/wiring modules</b>	<b>3TX7680-1A</b>		(Industry Mall)
<b>Mechanical interlocks</b>	<b>3TX7686-1A</b>		(Industry Mall)

### Contactor assemblies for star-delta (wye-delta) starting

<b>Complete units</b>	Type	--	
<b>400 V</b>	<b>kW</b>	<b>630</b>	
<b>Assembly kits/wiring modules</b>	<b>3TX7680-1B</b>		(Industry Mall)

Note:

Safety characteristics for contactors, see "Standards and approvals", page 16/6.