

# Power Contactors for Switching Motors

## Accessories for 3RT2 Contactors

General

### Options

#### 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)

#### 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 power contactors as well as for contactor relays.

The possible combinations of basic unit and mounted auxiliary switch block can be found in the tables on pages 3/59 to 3/63.

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		
Order No.	Auxiliary contacts Version NO NC	3RT201 S00 10	3RT201 S00 01	3RT20. S0/S2 11
		2. 3. 4. 5.	5. 6. 7. 8.	3. 4. 5. 6.
According to EN 50012①				
Auxiliary switches without NO contact				
3RH2911-□HA01	- 1	11	02	12
3RH2911-□HA02	- 2	12	03	13
3RH2911-□HA03	- 3	13	04	14
3RH2911-□FA04	- 4	14	-	-
Auxiliary switch with 1 NO contact				
3RH2911-□HA10	1 -	20	11	21
		1 For screw terminals	2 For spring-type terminals	

#### Identification numbers

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

1. digit: number of normally open contacts (NO)
2. digit: number of normally closed contacts (NC)

Examples:

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

Type	Example 1 3RT20 motor contactor, S00 with 1 NO	Example 2 3RT20 motor contactor, S0 with 1 NO + 1 NC
Sequence digit	2. 3. 4. 5.	3. 4. 5. 6.
Type	Auxiliary switch with 4 NC, 3RH2911-.FA04	Auxiliary switch with 3 NC, 3RH2911-.HA03
Function digit	.1 .1 .1 .1 .2 .2 .2 .2	.1 .1 .1 .1 .2 .2 .2 .2
Type	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	.1 .1 .1 .1 .2 .2 .2 .2	.1 .1 .1 .1 .2 .2 .2 .2

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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

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## Accessories for 3RT2 Contactors

*Selection*

### Auxiliary switch blocks

Additional auxiliary switch blocks			3-pole contactors			4-pole contactors				Contactor relays			
Auxiliary contacts Version	NO NC		S00 3RT201	3RT201	S0/S2 3RT20.	S00 3RT231	3RT251	S0/S2 3RT23.	3RT25.	S00 3RH21,	3RH24		
	10	01	11	11	11	—	—	11	11	40E	31E	22E	
Order No.			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 50012 <sup>①</sup>			According to EN 50012 <sup>①</sup>				According to EN 50011 <sup>①</sup>			
Front auxiliary switches													
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

<sup>①</sup> 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 for 3RT2 Contactors

Selection

### Auxiliary switch blocks

Additional auxiliary switch blocks			3-pole contactors			4-pole contactors				Contactor relays				
Auxiliary contacts Version	S00	3RT201	3RT201	S0/S2	3RT20.	S00	3RT231	3RT251	S0/S2	3RT23.	3RT25.	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.
Order No.	According to EN 50005					According to EN 50005					According to EN 50005			
Front auxiliary switches														
With make-before-break <sup>①</sup>														
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	
With complete inscription <sup>②</sup>														
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	

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① Contacts with make-before-break do not have a mirror contact function.

# Power Contactors for Switching Motors

## Accessories for 3RT2 Contactors

*Selection*

### Auxiliary switch blocks

Additional auxiliary switch blocks		3-pole contactors			4-pole contactors				Contactor relays				
Auxiliary contacts Version	NO NC	S00 3RT201	3RT201	S0/S2 3RT20.	S00 3RT231	3RT251	S0/S2 3RT23.	3RT25.	S00 3RH21,	3RH24			
		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.		
Order No.		According to EN 50005			According to EN 50005				According to EN 50011①				
<b>Front auxiliary switches</b>													
<b>With complete inscription (for contactor relays)②</b>													
3RH2911-□GA40	4	—		—	—	—	—	—	—	80E	—	—	
3RH2911-□GA31	3	1		—	—	—	—	—	—	71E	—	—	
3RH2911-□GA22	2	2		—	—	—	—	—	—	62E	—	—	
3RH2911-□GA13	1	3		—	—	—	—	—	—	53E	—	—	
3RH2911-□GA04	—	4		—	—	—	—	—	—	44E	—	—	
<b>With complete inscription; special version</b>													
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	—	—
<b>Solid-state compatible</b>													
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.

# Power Contactors for Switching Motors

## Accessories for 3RT2 Contactors

*Selection*

### Auxiliary switch blocks

Additional auxiliary switch blocks			3-pole contactors			4-pole contactors				Contactor relays					
Auxiliary contacts Version			S00 3RT201	3RT201	S0/S2 3RT20.	S00 3RT231	3RT251	S0/S2 3RT23.	3RT25.	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.			
Order No.			According to EN 50012 <sup>①</sup>			According to EN 50012 <sup>①</sup>				According to EN 50011 <sup>①</sup>					
Lateral auxiliary switches															
For size S0/S2		Left	Right												
3RH2921-□DA20	2	1			41	32	42	31	31	42	42	—	—	—	
+ 3RH2921-□DA11	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 relays		Left	Right												
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 size S0/S2, S00		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		Left	Right												
3RH2921-□DE11	1	1											51X	42X	33X

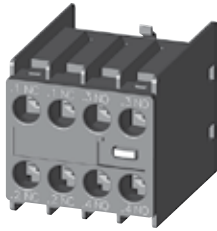
① Combinations according to EN 50012, EN 50011 and IEC 60947-5-1 are in **bold print**.  
All combinations comply with EN 50005.

# Power Contactors for Switching Motors

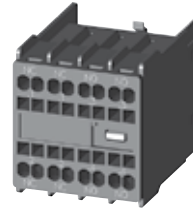
## Accessories for 3RT2 Contactors

Selection



### Auxiliary switch blocks



3RH2911-1HA22



3RH2911-2HA22

For contactors / contactor relays <sup>①</sup>	Auxiliary contacts Version		Screw terminals 	Spring-type terminals 	PS*	
	NO	NC				
Type	NO	NC	Order No.	Order No.		
<b>Auxiliary switch blocks for snapping onto the front</b>						
<b>Sizes S00 to S2<sup>②</sup></b>						
3RT2.1., 3RT2.2., 3RT2.3.	—	1		3RH2911-1HA01	3RH2911-2HA01	1 unit
3RH21, 3RH24	—	2		3RH2911-1HA02	3RH2911-2HA02	1 unit
	—	3		3RH2911-1HA03	3RH2911-2HA03	1 unit
	1	—		3RH2911-1HA10	3RH2911-2HA10	1 unit
	1	1		3RH2911-1HA11	3RH2911-2HA11	1 unit
	1	2		3RH2911-1HA12	3RH2911-2HA12	1 unit
	1	3		3RH2911-1HA13	3RH2911-2HA13	1 unit
	2	—		3RH2911-1HA20	3RH2911-2HA20	1 unit
	2	1		3RH2911-1HA21	3RH2911-2HA21	1 unit
	2	2		3RH2911-1HA22	3RH2911-2HA22	1 unit
	3	—		3RH2911-1HA30	3RH2911-2HA30	1 unit
	3	1		3RH2911-1HA31	3RH2911-2HA31	1 unit

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<sup>②</sup> The 3RH29 auxiliary switches are also available with ring terminal lug connection.  
The 8th digit of the article number must be changed from a "1" to a "4", e.g. 3RH2911-1HA22 → 3RH2911-4HA22.

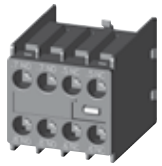
\* You can order this quantity or a multiple thereof.  
Illustrations are approximate

# Power Contactors for Switching Motors

## Accessories for 3RT2 Contactors

*Selection*

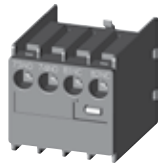
### Auxiliary switch blocks



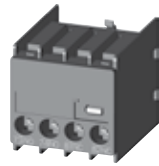
3RH2911-1FC22



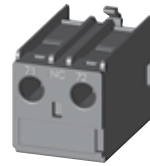
3RH2911-2FC22



3RH2911-1LA11



3RH2911-1MA11



3RH2911-1AA01



3RH2911-1BA01

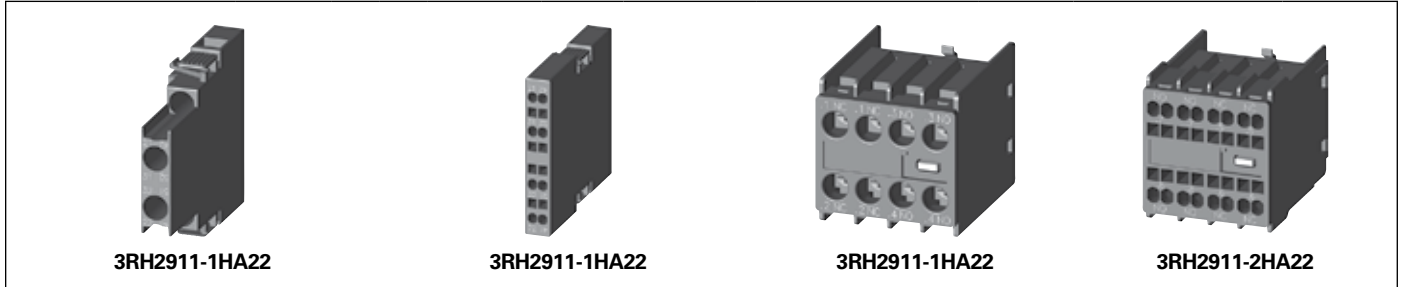
For contactors / contactor relays <sup>①</sup>	Connections Position	Auxiliary contacts Version				Screw terminals	Spring-type terminals	PS*	
Type		NO	NC	NO	NC	Order No.	Order No.		
<b>Auxiliary switch blocks for snapping onto the front</b>									
<b>Sizes S00 to S2</b>									
3RT2.1., 3RT2.2., 3RT2.3.		4	—	—	—		3RH2911-1FA40	3RH2911-2FA40	1 unit
3RH21, 3RH24		2	2	—	—		3RH2911-1FA22	3RH2911-2FA22	1 unit
		—	4	—	—		3RH2911-1FA04	3RH2911-2FA04	1 unit
		—	—	1	1		3RH2911-1FB11	3RH2911-2FB11	1 unit
		1	1	1	1		3RH2911-1FB22	3RH2911-2FB22	1 unit
		—	—	2	2		3RH2911-1FC22	3RH2911-2FC22	1 unit
<b>1- and 2-pole auxiliary switch blocks, cable entry from top or bottom</b>									
3RT2.1., 3RT2.2., 3RT2.3.	Top	1	—	—	—		3RH2911-1AA10	—	1 unit
	Bottom	1	—	—	—		3RH2911-1BA10	—	1 unit
3RH21, 3RH24	Top	—	1	—	—		3RH2911-1AA01	—	1 unit
	Bottom	—	1	—	—		3RH2911-1BA01	—	1 unit
	Top	1	1	—	—		3RH2911-1LA11	—	1 unit
	Bottom	1	1	—	—		3RH2911-1MA11	—	1 unit
	Top	2	—	—	—		3RH2911-1LA20	—	1 unit
	Bottom	2	—	—	—		3RH2911-1MA20	—	1 unit

# Power Contactors for Switching Motors

## Accessories for 3RT2 Contactors

Selection

### Auxiliary switch blocks



For contactors / contactor relays	Auxiliary contacts Version		Screw terminals	Spring-type terminals	PS*	
	NO	NC				
Type	NO	NC	Order No.	Order No.		
<b>Auxiliary switch blocks for snapping onto the front</b>						
<b>Sizes S00 to S2</b>						
3RT2.1., 3RT2.2., 3RT2.3.	4	—		3RH2911-1XA40-0MA0	3RH2911-2XA40-0MA0	1 unit
3RH21, 3RH24	3	1		3RH2911-1XA31-0MA0	3RH2911-2XA31-0MA0	1 unit
		2		3RH2911-1XA22-0MA0	3RH2911-2XA22-0MA0	1 unit
	—	4		3RH2911-1XA04-0MA0	3RH2911-2XA04-0MA0	1 unit
<b>Laterally mountable auxiliary switch blocks, mounting on the right and/or on the left</b>						
<b>Size S00</b>		<b>Left</b>	<b>Right</b>			
3RT2.1.	—	2		3RH2911-1DA02	3RH2911-2DA02	1 unit
	1	1		3RH2911-1DA11	3RH2911-2DA11	1 unit
	2	—		3RH2911-1DA20	3RH2911-2DA20	1 unit
<b>Sizes S0 and S2</b>		<b>Left</b>	<b>Right</b>			
3RT2.2., 3RT2.3.ⓐ	—	2		3RH2921-1DA02	3RH2921-2DA02	1 unit
	1	1		3RH2921-1DA11	3RH2921-2DA11	1 unit
	2	—		3RH2921-1DA20	3RH2921-2DA20	1 unit

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CONTACTORS

ⓐ With 3RT232., 3RT252., mountable only on the right.

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



# Power Contactors for Switching Motors

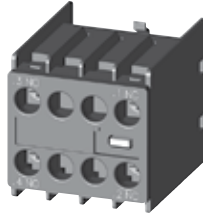
## Accessories for 3RT2 Contactors

Selection

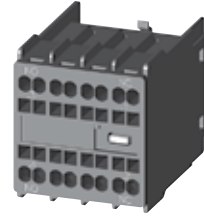
### Auxiliary switch blocks



3RH2911-2DE11



3RH2911-1NF..



3RH2911-2NF..

For contactors / contactor relays	Auxiliary contacts Version		Screw terminals	Spring-type terminals	PS*									
	NO	NC												
Type	NO	NC	Order No.	Order No.										
<b>Electronic compatible auxiliary switch blocks</b>														
<ul style="list-style-type: none"> <li>For operation in dusty atmospheres</li> <li>For electronic circuits with rated operational currents I<sub>e</sub>/AC-14 and DC-13 of 1 ... 300 mA at 3 ... 60 V</li> <li>Hard gold-plated contacts</li> <li>Mirror contacts acc. to IEC 60947-4-1, Appendix F, for auxiliary switches for mounting on the side (The following applies for auxiliary switch blocks with contactors of size S0 and S2 the NC contacts are mirror contacts)</li> </ul>														
<b>Auxiliary switch blocks for snapping onto the front<sup>Ⓢ</sup></b>														
<b>Sizes S00 to S2</b>														
3RT2.1., 3RT2.2., 3RT2.3. 3RH21	—	2 <sup>Ⓢ</sup>		3RH2911-1NF02	3RH2911-2NF02	1 unit								
	1	1 <sup>Ⓢ</sup>		3RH2911-1NF11	3RH2911-2NF11	1 unit								
	2	—		3RH2911-1NF20	3RH2911-2NF20	1 unit								
<b>Laterally mountable auxiliary switch blocks, mounting on the right and/or on the left</b>														
<b>Size S00</b>														
3RT2.1.	1	1	<table border="0"> <tr> <td></td> <td>41   53</td> <td></td> <td>23   31</td> </tr> <tr> <td></td> <td>42   54</td> <td></td> <td>24   32</td> </tr> </table>		41   53		23   31		42   54		24   32	—	3RH2911-2DE11	1 unit
	41   53		23   31											
	42   54		24   32											
<b>Sizes S0 and S2</b>														
3RT2.2., 3RT2.3.	1	1	<table border="0"> <tr> <td></td> <td>51   63</td> <td></td> <td>33   41</td> </tr> <tr> <td></td> <td>52   64</td> <td></td> <td>34   42</td> </tr> </table>		51   63		33   41		52   64		34   42	—	3RH2921-2DE11	1 unit
	51   63		33   41											
	52   64		34   42											

<sup>Ⓢ</sup> The 3RH2911-.NF.. auxiliary switches are also available with ring terminal lug connection. In the 8th position of the article number, the "1" must be replaced with "4", e.g.: 3RH2911-1NF11 → 3RH2911-4NF11