

Power Contactors for Switching Motors

Accessories for 3RT2 Contactors

General data

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)

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 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 3/45 to 3/48.

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	3RT20 1	3RT20 1	3RT20 2
	Version	S00	S00	S0
	NO NC	10	01	11
		2. 3. 4. 5.	5. 6. 7. 8.	3. 4. 5. 6.
According to EN 50012¹⁾				

Auxiliary switches without NO contact					
3RH29 11-.HA01	-- 1		11	02	12
3RH29 11-.HA02	-- 2		12	03	13
3RH29 11-.HA03	-- 3		13	04	14
3RH29 11-.FA04	-- 4		14	--	--

Auxiliary switches with 1 NO contact					
3RH29 11-.HA10	1 --		20	11	21
3RH29 11-.HA11	1 1		21	12	22

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 3RT20 17 motor contactor with 1 NO

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

Result: 3RH29 11-.FA04 auxiliary switch block

Example 2

Basic unit: 3-pole 3RT20 23 motor contactor with 1 NO + 1 NC

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

Result: 3RH29 11-.HA03 auxiliary switch block

	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 with 4 NC, 3RH29 11-.FA04	Auxiliary switch with 3 NC, 3RH29 11-.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 design.	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

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Selection and ordering data

Additional auxiliary switch blocks		3-pole contactors			4-pole contactors				Contactor relays			
Order No.	Auxiliary contacts	S00	S0	S0	S00	S0	S0	S0	S00	3RH21		
	Version	3RT20 1	3RT20 1	3RT20 2	3RT23 1	3RT25 1	3RT23 2	3RT25 2	3RH21	40E	31E	22E
	NO NC	10	01	11	--	--	11	11				
		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 50011¹⁾			

Front auxiliary switches

Without NO contact

3RH29 11-.HA01	--	1		11	02	12	01	01	12	12	41X	32X	23X
3RH29 11-.HA02	--	2		12	03	13	02	02	13	--	42E	33X	24
3RH29 11-.HA03	--	3		13	04	14	03	--	--	--	43	34	--
3RH29 11-.FA04	--	4		14	--	--	--	--	--	--	44E	--	--

With 1 NO contact

3RH29 11-.HA10	1	--		20	11	21	10	10	21	21	50E	41E	32E
3RH29 11-.HA11	1	1		21	12	22	11	11	22	22	51X	42X	33X
3RH29 11-.HA12	1	2		22	13	23	12	12	23	--	52	43	34
3RH29 11-.HA13	1	3		23	14	24	13	--	24	24	53X	44X	--

With 2 NO contacts

3RH29 11-.HA20	2	--		30	21	31	20	20	31	31	60E	51X	42X
3RH29 11-.HA21	2	1		31	22	32	21	21	32	32	61	52	43
3RH29 11-.HA22	2	2		32	23	33	22	22	33	--	62X	53	44X
3RH29 11-.FA22	2	2		32	23	33	22	22	33	--	62X	53	44X

With 3 NO contacts

3RH29 11-.HA30	3	--		40	31	41	30	30	41	41	70	61	52
3RH29 11-.HA31	3	1		41	32	42	31	31	42	42	71X	62X	53X

With 4 NO contacts

3RH29 11-.FA40	4	--		50	41	51	40	40	51	51	80E	71X	62X
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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.

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Auxiliary switch blocks

Additional auxiliary switch blocks		3-pole contactors			4-pole contactors				Contactor relays		
Order No.	Auxiliary contacts Version NO NC	S00 3RT20 1 10	3RT20 1 01	S0 3RT20 2 11	S00 3RT23 1 --	3RT25 1 --	S0 3RT23 2 11	3RT25 2 11	S00 3RH21 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 50005		

Front auxiliary switches

With make-before-break

3RH29 11-.FB11	-- 1		21	12	22	11	11	22	22	51	42	33
3RH29 11-.FB22	-- 2		32	23	33	22	22	33	--	62	53	44
3RH29 11-.FC22	-- 3		32	23	33	22	22	33	--	62	53	44

With complete inscription¹⁾

3RH29 11-1AA10	1 --		20	11	21	10	10	21	21	50	41	32
3RH29 11-1BA10	1 --		20	11	21	10	10	21	21	50	41	32
3RH29 11-1AA01	-- 1		11	02	12	01	01	12	12	41	32	23
3RH29 11-1BA01	-- 1		11	02	12	01	01	12	12	41	32	23
3RH29 11-1LA11	1 1		21	12	22	11	11	22	22	51	42	33
3RH29 11-1MA11	1 1		21	12	22	11	11	22	22	51	42	33
3RH29 11-1LA20	2 --		30	21	31	20	20	31	31	60	51	42
3RH29 11-1MA20	2 --		30	21	31	20	20	31	31	60	51	42

¹⁾ For terminals from the top or bottom; see page 3/51.

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Auxiliary switch blocks

Additional auxiliary switch blocks		3-pole contactors			4-pole contactors				Contactor relays		
Order No.	Auxiliary contacts Version NO NC	S00 3RT20 1	3RT20 1	S0 3RT20 2	S00 3RT23 1	3RT25 1	S0 3RT23 2	3RT25 2	S00 3RH21		
		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 50011¹⁾		

Front auxiliary switches

With complete inscription
(for contactor relays²⁾)

3RH29 11-.GA40	4	--		--	--	--	--	--	--	80E	--	--
3RH29 11-.GA31	3	1		--	--	--	--	--	--	71E	--	--
3RH29 11-.GA22	2	2		--	--	--	--	--	--	62E	--	--
3RH29 11-.GA13	1	3		--	--	--	--	--	--	53E	--	--
3RH29 11-.GA04	--	4		--	--	--	--	--	--	44E	--	--

Complete inscription,
special version

3RH29 11-.XA40 -0MA0	4	--		50	41	51	40	40	51	51	80E	71X	62X
3RH29 11-.XA31 -0MA0	3	1		41	32	42	31	31	42	42	71E	62X	53
3RH29 11-.XA22 -0MA0	2	2		32	23	33	22	22	33	--	62E	53	44X
3RH29 11-.XA04 -0MA0	--	4		14	--	--	--	--	--	--	44E	--	--

Solid-state compatible

3RH29 11-.NF02	--	2		12	03	13	02	02	13	--	42	33	24
3RH29 11-.NF11	1	1		21	12	22	11	11	22	22	51	42	33
3RH29 11-.NF20	2	--		30	21	31	20	20	31	31	60	51	42

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

²⁾ Ordering data see [Accessories for 3RH2 Contactor Relays, Chapter 5](#).

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Auxiliary switch blocks

Additional auxiliary switch blocks		3-pole contactors			4-pole contactors			Contactor relays			
Order No.	Auxiliary contacts	S00		S0	S00		S0	S00			
	Version	3RT20 1	3RT20 1	3RT20 2	3RT23 1	3RT25 1	3RT23 2	3RT25 2	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 50011¹⁾			

Lateral auxiliary switches

For size S00		Left	Right												
3RH29 11-.DA02	-- 2			12	--	--	02	02	--	--	--	--	--	--	
3RH29 11-.DA02	-- 2			14	--	--	--	--	--	--	--	--	--	--	
3RH29 11-.DA11	1 1			21	--	--	11	11	--	--	--	--	--	--	
3RH29 11-.DA11	1 1			32	--	--	22	22	--	--	--	--	--	--	
3RH29 11-.DA20	2 --			30	--	--	20	20	--	--	--	--	--	--	
3RH29 11-.DA20	2 --			50	--	--	40	40	--	--	--	--	--	--	
3RH29 11-.DA20 + 3RH29 11-.DA11	2 -- 1 1			41	--	--	31	31	--	--	--	--	--	--	
3RH29 11-.DA20 + 3RH29 11-.DA02	2 -- -- 2			32	--	--	22	22	--	--	--	--	--	--	
3RH29 11-.DA11 + 3RH29 11-.DA02	1 1 -- 2			23	--	--	13	--	--	--	--	--	--	--	
For size S0, S00		Left	Right												
3RH29 21-.DA02	-- 2			12	03	13	02	02	13	--	--	--	--	--	
3RH29 21-.DA02	-- 2			14	--	--	--	--	--	--	--	--	--	--	
3RH29 21-.DA11	1 1			21	12	22	11	11	22	22	--	--	--	--	
3RH29 21-.DA11	1 1			32	23	33	22	22	33	--	--	--	--	--	
3RH29 21-.DA20	2 --			30	21	31	20	20	31	31	--	--	--	--	
3RH29 21-.DA20	2 --			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.

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Auxiliary switch blocks

Additional auxiliary switch blocks		3-pole contactors			4-pole contactors				Contactor relays		
Order No.	Auxiliary contacts	S00		S0	S00		S0	S00			
	Version	3RT20 1	3RT20 1	3RT20 2	3RT23 1	3RT25 1	3RT23 2	3RT25 2	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 50011¹⁾		

Lateral auxiliary switches

For size S0, S00		Left	Right										
3RH29 21-.DA20	2 --			41	32	42	31	31	42	42	--	--	--
+ 3RH29 21-.DA11	1 1												
3RH29 21-.DA20	2 --			32	23	33	22	22	33	--	--	--	--
+ 3RH29 21-.DA02	-- 2												
3RH29 21-.DA11	1 1			23	14	24	13	--	--	--	--	--	--
+ 3RH29 21-.DA02	-- 2												

For contactor relays		Left											
3RH29 21-.DA02	-- 2		--	--	--	--	--	--	--	--	42Z	33X	24
3RH29 21-.DA11	1 1		--	--	--	--	--	--	--	--	51X	42X	33X
3RH29 21-.DA20	2 --		--	--	--	--	--	--	--	--	60Z	51X	42X

Solid-state compatible

For size S00		Left	Right										
3RH29 11-2DE11	1 1			21	--	--	11	11	--	--	--	--	--
3RH29 11-2DE11	1 1			32	--	--	22	22	--	--	--	--	--

For size S0, S00		Left	Right										
3RH29 21-2DE11	1 1			21	12	22	11	11	22	22	--	--	--
3RH29 21-2DE11	1 1			32	23	33	22	22	33	--	--	--	--

For contactor relays		Left											
3RH29 21-.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.