

Power contactors for switching motors

Accessories for 3RT2 contactors

General data

Options

Auxiliary switches: Terminal designations and identification numbers for auxiliary contacts

Terminal designations

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

- Tens digit: Identification number
 - Related terminals have the same identification number
- Units digit: Function digit
 - 1-2 for NC contact
 - 3-4 for NO contact

Key figures

The Ident. No. indicates the number and type of auxiliary contacts, e. g. 40, 31, 22, 13:

- 1st digit: Number of NO contacts
- 2nd digit: Number of NC contacts

Examples:

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

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

The auxiliary switch blocks of the series 3RH29 for mounting on the front and laterally can be used for both the power contactors and the contactor relays.

The possible combinations of basic unit and mounted auxiliary switch block can be found in the tables on the following pages.

At the intersection of the columns and rows (blue or green in the example) you will find the identification number of the combination of a basic device (column) and auxiliary switch block (line).

Additional auxiliary switch blocks		3-pole contactors		
Order No.	Auxiliary contacts	3RT20 1	3RT20 1	3RT20 2
Version	NO NC	S00	S00	S0
	NO NC	10	01	11
	 	 	 	 
		2. 3. 4. 5.	5. 6. 7. 8.	3. 4. 5. 6.
		in accordance with EN 50012 ¹⁾		
Auxiliary switches without NO contacts				
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⁾ Assemblies in accordance with EN 50012, EN 50011 or IEC 60947-5-1 are in **bold** type. All assemblies 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)

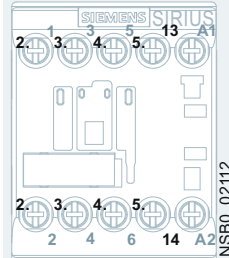
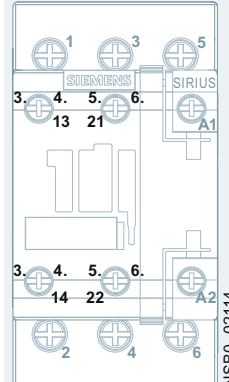
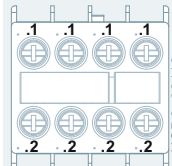
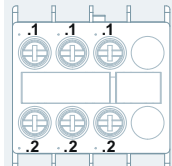
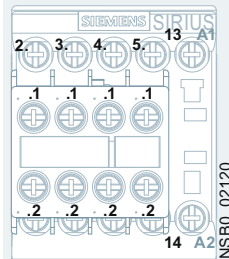
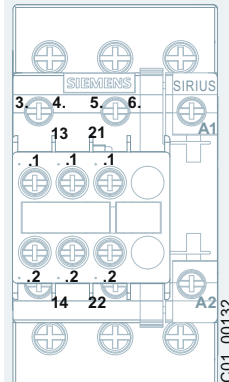
The result: 3RH29 11-.FA04 auxiliary switch block

Example 2

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

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

The result: 3RH29 11-.HA03 auxiliary switch block

	Example 1	Example 2
Type	3RT20 motor contactor, S00 with 1 NO contact (1 NO)	3RT20 motor contactor, S0 with 1 NO + 1 NC
		
Identification number	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
Assembly	3RT20 motor contactor, S00 with auxiliary switch block	3RT20 motor contactor, S0 with auxiliary 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	Code number 14	Code number 14

Power contactors for switching motors

Accessories for 3RT2 contactors

Auxiliary switch blocks

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		
	Version	3RT20 1	3RT20 1	3RT20 2	3RT23 1	3RT25 1	3RT23 2	3RT25 2	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
		in accordance with EN 50012 ¹⁾			in accordance with EN 50012 ¹⁾				in accordance with EN 50011 ¹⁾		

Auxiliary switches on the front

Without NO contacts

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
-----------------------	---	----	---	----	----	----	----	----	----	----	------------	------------	------------

¹⁾ Assemblies in accordance with EN 50012, EN 50011 or IEC 60947-5-1 are in **bold** type. All assemblies comply with EN 50005.

Power contactors for switching motors

Accessories for 3RT2 contactors

Auxiliary switch blocks

Additional auxiliary switch blocks		3-pole contactors			4-pole contactors				Contactor relays		
Order No.	Auxiliary contacts	S00	S0	S0	S00	S0	S0	S0	S00		
Version	NO NC	3RT20 1	3RT20 1	3RT20 2	3RT23 1	3RT25 1	3RT23 2	3RT25 2	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.
		in accordance with EN 50005			in accordance with EN 50005				in accordance with EN 50005		

Auxiliary switches on the front

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

Fully labeled¹⁾

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⁾ Connections from the top or from the bottom.

Power contactors for switching motors

Accessories for 3RT2 contactors

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, 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.
		in accordance with EN 50005			in accordance with EN 50005				in accordance with EN 50011 ¹⁾		

Auxiliary switches on the front

Fully labeled (for contactor relays)

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	--	--

Fully labeled; 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⁾ Assemblies in accordance with EN 50012, EN 50011 or IEC 60947-5-1 are in **bold** type. All assemblies comply with EN 50005.

Power contactors for switching motors

Accessories for 3RT2 contactors

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, 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.
		in accordance with EN 50012 ¹⁾			in accordance with EN 50012 ¹⁾				in accordance with EN 50011 ¹⁾		

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		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⁾ Assemblies in accordance with EN 50012, EN 50011 or IEC 60947-5-1 are in **bold** type. All assemblies comply with EN 50005.

Power contactors for switching motors

Accessories for 3RT2 contactors

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, 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.
		in accordance with EN 50012 ¹⁾			in accordance with EN 50012 ¹⁾				in accordance with EN 50011 ¹⁾		

Lateral auxiliary switches

For sizes S0, S00

		left	right										
3RH29 21-.DA20 + 3RH29 21-.DA11	2 --			41	32	42	31	31	42	42	--	--	--
3RH29 21-.DA20 + 3RH29 21-.DA02	2 --			32	23	33	22	22	33	--	--	--	--
3RH29 21-.DA11 + 3RH29 21-.DA02	1 1			23	14	24	13	--	--	--	--	--	--

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 sizes 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⁾ Assemblies in accordance with EN 50012, EN 50011 or IEC 60947-5-1 are in **bold** type. All assemblies comply with EN 50005.