

Accessories and Spare Parts

For 3RT2, 3RH2 Contactors and Contactor Relays

General data

Overview

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

The auxiliary switch blocks from the 3RH29 series for mounting on the front and side can be used for the motor contactors in sizes S00 and S0 as well as for the contactor relays. The exact application possibilities are listed in the following tables.

The auxiliary switch blocks and their use are described in the sections "Motor Contactors" and "Contactor Relays".

Note:

The auxiliary switches according to EN 50012 also meet the requirements according to EN 50005.

Motor contactors

Contactor Size	Integrated auxiliary switches	Examples Version	All auxiliary contacts with mirror contact function according to EN 60947-4-1 EN 50005				EN 50012		
			Mountable on front	Laterally mountable	Mountable on front	Laterally mountable	Mountable on front	Laterally mountable	
			1-pole	2-pole	4-pole	2-pole	4-pole	2-pole	
			3RH29 11-1AA... 3RH29 11-1BA...	3RH29 11-1LA... 3RH29 11-1MA...	3RH29 11-.F... 3RH29 11-.H...	3RH29 11-.D... 3RH29 21-.D...	3RH29 11-.HA...	3RH29 11-.D... 3RH29 21-.D...	
S00	1 NO or 1 NC	A	1	--	--	1	--	--	
		B	--	1	1	--	1	--	
		C	--	--	--	2 (1 x left and 1 x right)	--	1 (right)	
S0	1 NO + 1 NC	A	1	--	--	1	--	--	
		B	--	1	1	--	1	--	
		C	--	--	--	2 (1 x left and 1 x right)	--	1 (right)	

Examples according to EN 50005

Version A, S00: S00 basic unit + one single-pole front-side auxiliary switch block + one 2-pole lateral auxiliary switch block

--> 3RT20 16-1AP01 + 3RH29 11-1AA01 + 3RH29 11-1DA11

Version B, S0: S0 basic unit + one 4-pole front-side auxiliary switch block

--> 3RT20 27-2AP00 + 3RH29 11-2HA22

Example according to EN 50012

Version C, S0: S0 basic unit + one 2-pole lateral auxiliary switch block, mounted on the right

--> 3RT20 26-2AP00 + 3RH29 11-2DA11

Note:

The front solid-state compatible auxiliary switches have no mirror contact functionality.

Contactor relays

Contactor relay Size	Integrated auxiliary switches	Examples Version	All front auxiliary contacts with positively-driven operation according to EN 60947-5-1 EN 50005				EN 50011	
			Mountable on front	Lateral ¹⁾	Mountable on front	Lateral ¹⁾		
			1-pole	2-pole	4-pole	2-pole	4-pole	
			3RH29 11-1AA... 3RH29 11-1BA...	3RH29 11-1LA... 3RH29 11-1MA...	3RH29 11-.F... 3RH29 11-.H...	3RH29 11-.DA... 3RH29 21-.DA...	3RH29 11-.GA...	
S00	2 NO + 2 NC or 3 NO + 1 NC or 4 NO	A	1	--	--	1	1	
		B	--	1	1	--	1	
		C	--	--	--	2 (1 x left and 1 x right)	1	

¹⁾ Lateral auxiliary contacts without positively-driven operation.

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General data

Terminal designations and identification numbers for auxiliary contacts

Terminal designations

The terminal designations have 2 digits, e.g. 13, 14, 21, 22:

- Tens position: Identification number
 - Related terminals have the same identification number
- Units position: Function number
 - 1-2 for normally closed contact (NC)
 - 3-4 for normally open (NO)

Identification numbers

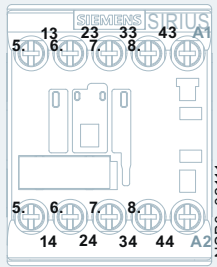
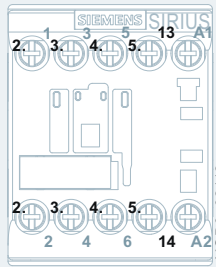
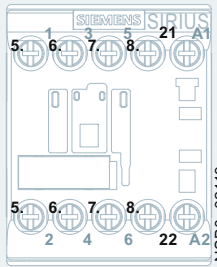
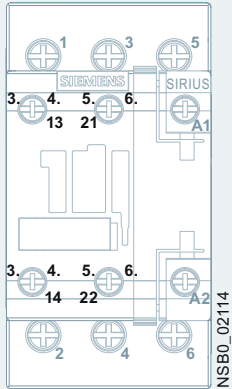
The identification number indicates the quantity and type of auxiliary contacts, e.g. 40, 31, 22, 13:

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

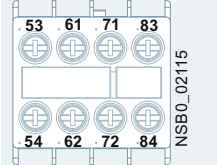
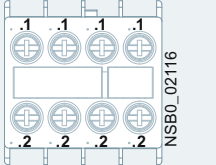
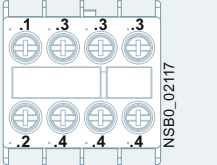
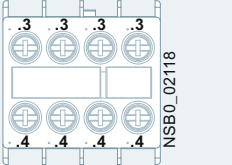
Examples:

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

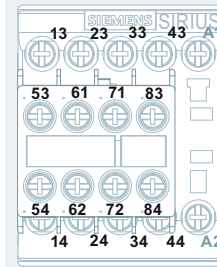
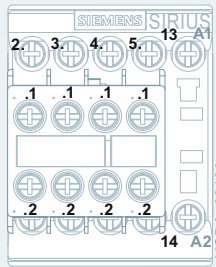
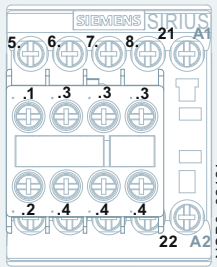
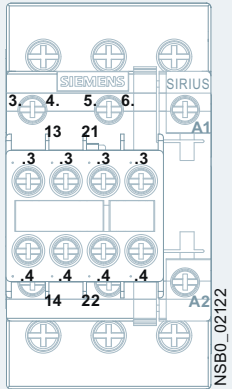
3RH2 contactor relays and 3RT2 motor contactors (basic units) – Overview of identification numbers

			
Contactor with integrated auxiliary contacts	3RH21 contactor relay, S00, with 4 normally open contacts (4 NO)	3RT20 motor contactor, S00, with 1 normally open contact (1 NO)	3RT20 motor contactor, S0, with 1 NO + 1 NC
Identification numbers for front auxiliary switches	5th 6th 7th 8th	2nd 3rd 4th 5th	3rd 4th 5th 6th
	(only with auxiliary switches acc. to EN 50005 and EN 50011)		(only with auxiliary switches acc. to EN 50005)

3RH29 auxiliary switch blocks – Overview of function numbers (examples)

			
Auxiliary switch block with auxiliary contacts	3RH29 auxiliary switch, 4 contacts 2 NO + 2 NC	3RH29 auxiliary switch, 4 contacts 4 NC	3RH29 auxiliary switch, 4 contacts 4 NO
Function numbers for front auxiliary switches	.3 .1 .1 .3 .4 .2 .2 .4	.1 .1 .1 .1 .2 .2 .2 .2	.1 .3 .3 .3 .2 .4 .4 .4

3RH29 basic units with mounted 3RH29 auxiliary switch blocks – Overview of terminal designations (examples)

			
Contactor with mounted auxiliary switch block	3RH29 auxiliary switch, 4 contacts 2 NO + 2 NC	3RH29 auxiliary switch, 4 contacts 4 NC	3RH29 auxiliary switch, 4 contacts 4 NO
Terminal designations of all auxiliary contacts	13 23 33 43 53 61 71 83 14 24 34 44 54 62 72 84	13 21 31 41 51 14 22 32 42 52	21 51 63 73 83 22 52 63 74 84