

Selection and ordering data

				Innovations	
Type	Version	Width	Fits 3RV2 Frame Size	Screw Connection Order No.	
Auxiliary switches ³⁾			mm	Innovations	
3RV2901-1E  3RV2901-1G  3RV2901-1A 	Transverse auxiliary switches	1 CO 1 NO + 1 NC 2 NO	S00, S0, S2, S3	3RV2901-1D 1), 2) 3RV2901-1E 1) 3RV2901-1F	
	Solid-state compatible, transverse auxiliary switches for use in dusty atmosphere and in electronic circuits with low operating currents	1 CO		S00, S0, S2, S3	3RV2901-1G
	Covering caps for transverse auxiliary switch slots (pack of 10)			S00, S0, S2, S3	3RV2901-0H
	Lateral auxiliary switches (side mount)	1 NO + 1 NC 2 NO 2 NC	9 9 9	S00, S0, S2, S3	1), 2) 3RV2901-1A 1) 3RV2901-1B 1) 3RV2901-1C
	Width = 9 mm	2 NO + 2 NC	18		3RV2901-1J
Signaling switch ⁴⁾				Innovations	
3RV2921-1M 	Signaling switch (side mount) Individual tripped and short-circuit signaling Width = 18 mm	1 NO + 1 NC each	18	S00, S0, S2, S3 1), 2) 3RV2921-1M	
Auxiliary releases ⁵⁾				Innovations	
3RV2902-1AB4 	Undervoltage releases (side mount)	DC 24 V	S00, S0, S2, S3	3RV2902-1AB4	
	Width = 18 mm	AC 50 Hz 24 V 110 V — 230 V 400 V 415 V 500 V	AC 60 Hz — 120 V 208 V 240 V 440 V 480 V 600 V	S00, S0, S2, S3 3RV2902-1AB0 3RV2902-1AF0 1), 2) 3RV2902-1AM1 1), 2) 3RV2902-1AP0 3RV2902-1AV0 3RV2902-1AV1 3RV2902-1AS0	
	Undervoltage releases with leading auxiliary contacts 2 NO (side mount)	230 V 400 V 415 V	240 V 440 V 480 V	S00, S0, S2, S3 1) 3RV2922-1CP0 1) 3RV2922-1CV0 1), 2) 3RV2922-1CV1	
	Width = 18 mm	230 V 400 V 415 V	240 V 440 V 480 V	S00, S0, S2, S3 1) 3RV2922-1CP0 1) 3RV2922-1CV0 1), 2) 3RV2922-1CV1	
	Shunt releases (side mount)	AC 50/60 Hz 100% ON ⁶⁾ 20-24 V 90-110 V 210-240 V 350-415 V 500 V	AC 50/60 Hz 5 sec ON ⁷⁾ 20-70 V 70-190 V 190-330 V 330-500 V 500 V	S00, S0, S2, S3 1), 2) 3RV2902-1DB0 1), 2) 3RV2902-1DF0 1) 3RV2902-1DP0 3RV2902-1DV0 3RV2902-1DS0	
	Width = 18 mm				

1) This product is also available with spring terminals. The order no. must be changed in the 8th position to a "2": e.g. 3RV1901-2E or 3RV2901-2E

2) This product is also available with ring lug terminals. The order no. must be changed in the 8th position to a "4": e.g. 3RV2901-4E

3) Each motor starter protector can be fitted with one transverse and one lateral auxiliary switch. The lateral auxiliary switch 2 NO + 2 NC is used without transverse auxiliary switch.

4) One signaling switch can be mounted at the left of the motor starter protector. This accessory cannot be used on the 3RV27 and 3RV28 circuit breakers.

5) One auxiliary release can be mounted at the right of each MSP, motor starter protector.

6) The response voltage at the lower limit of the voltage range at 0.85 (T_u=60°C) is valid for 100% (infinite)

7) The response voltage at the lower limit of the voltage range at 0.9 (T_u=60°C) applies for a duty cycle of 5 seconds at AC 50/60 Hz and DC.

3RT Contactors

3RT2 and 3RH2 contactors and relays

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 guide 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 below.

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).

		3-pole contactors			Order No.
Auxiliary contacts	Version	3RT20 1 S00	3RT20 1 S00	3RT20 2 S0	
NO NC		10	01	11	
		2. 3. 4. 5.	5. 6. 7. 8.	3. 4. 5. 6.	
According to EN 50012 ¹⁾					
Auxiliary switches without NO contact					
-- 1		11	02	12	3RH29 11-.HA01
-- 2		12	03	13	3RH29 11-.HA02
-- 3		13	04	14	3RH29 11-.HA03
-- 4		14	--	--	3RH29 11-.FA04
Auxiliary switch with 1 NO contact					
1 --		20	11	21	3RH29 11-.HA10
1 1		21	12	22	3RH29 11-.HA11

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	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
Type		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
Type		Ident. No. 14	Ident. No. 14