Switching Devices – Contactors and Contactor Assemblies – Contactor Relays and Relays





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Note:

contactors

3/146

3RH1 contactor relays can be found

3TG10 power relays/miniature

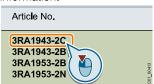
- in the Catalog Add-On IC 10 AO · 2016 at the Information and Download Center
- in the Interactive Catalog CA 01
- in the Industry Mall

Conversion tool

e. g. from 3RH11 to 3RH21, see www.siemens.com/sirius/conversion-tool

NEW

Click on the Article No. in the catalog PDF to access it in the Industry Mall and get all related information.



Or directly in the Internet, e. g. www.siemens.com/product?3RA1943-2C

Switching Devices – Contactors and Contactor Assemblies

Contactor Relays and Relays

Introduction

Overview

Size

More information

Homepage, see www.siemens.com/sirius Industry Mall, see www.siemens.com/product?3RH_3TH

For the conversion tool, e.g. from 3RH11 to 3RH21, see www.siemens.com/sirius/conversion-tool

The advantages at a glance











Туре	3RH21	3HH22	31H42	31H43	31H2
				Article No	Page

		Article No.	Page
SIRIUS 3RH2 contactor relays	5		
4-pole	Screw or spring-type terminals	3RH21	5/12, 5/13
8-pole		3RH22	5/12, 5/13
4-pole, latched		3RH24	5/12, 5/13
Coupling contactor relays	Coils for control by PLC	3RH21	5/14, 5/15
Contactor relays for railway applications	Coils with extended voltage range	3RH21	4/56
3TH4 contactor relays			
8-pole	Screw terminals	3TH42	5/20
10-pole		3TH43	5/21
Contactor relays for railway applications	Coils with extended voltage range	3TH42	4/58
3TH2 miniature contactor rela	ays		
4-pole	Screw terminals, flat connectors and solder pin connections	3TH20	5/28, 5/29
8-pole	Screw terminals	3TH22	5/28
4-pole, latched	Screw terminals	3TH27	5/28
Accessories for SIRIUS 3RH2	contactor relays		
Auxiliary switch blocks	On front	3RH29, 3RA281.	from 3/83, 3/96
	• Lateral	3RH29	3/93
Function modules (direct-on-line starting, star-delta (wye-delta) starting)	• On front	3RA281., 3RA283.	3/101
Surge suppressors	• On front	3RT2916	3/98, 3/99
Additional load modules	On front	3RT2916	3/114

Note:

For safety characteristics for contactors, see "Standards and approvals", page 16/6.

Switching Devices – Contactors and Contactor Assemblies Contactor Relays and Relays

Introduction

More information

Homepage, see www.siemens.com/relays

Industry Mall, see www.siemens.com/product?3RQ_3RS_LZ

For the conversion tool, e.g. from 3TX7 to 3RQ3, see

The advantages at a glance







Type 3RQ3 3RS18 LZS/LZX

		Article No.	Page
SIRIUS 3RQ3 coupling relays	, narrow design		
Coupling relays with relay output (not plug-in)	 Width 6.2 mm, 1 CO, versions with hard gold-plated contacts optionally available Output coupling links Input coupling links 	3RQ301 3RQ303	5/38 5/38
Coupling relays with plug-in relays	 Width 6.2 mm, 1 CO, versions with hard gold-plated contacts optionally available Output coupling links 	3RQ311	5/38
Coupling relays with semiconductor output (not plug-in)	 Width 6.2 mm, output 1 semiconductor, triac or transistor Output coupling links Input coupling links 	3RQ305, 3RQ306 3RQ307	5/38 5/38
SIRIUS 3RS18 coupling relays	s with industrial enclosure		
	 Protective separation up to 300 V between contacts and relay circuits 1, 2 or 3 changeover contacts Hard gold-plated contacts in combination and wide voltage range versions 	3RS18	5/41
LZS coupling relays with plug	j-in relays		
relays with 2, 3 and 4 changeover	 Switching capacity 12 A/10 A/6 A Width 27 mm Base with or without logical separation 	LZS:PT, LZX:PT	5/46 5/48
relays with 3 changeover	Switching capacity 10 A 11-pole circular base Width 38 mm	LZS:MT, LZX:MT	5/48
relays with 1 or 2 changeover	Switching capacity 16 A/8 A Width 15.5 mm Base with or without logical separation	LZS:RT, LZX:RT	5/49

Connection methods

The contactor relays and the relays are available with screw terminals (box terminals) or with spring-type terminals.

Devices of the 3TH2 series are also available with screw terminals, flat connectors and solder pin connectors.

The 3RQ3 coupling relays are supplied with screw terminals and spring-type (push-in) terminals. The plug-in bases for LZS/LZX coupling relays are also available with plug-in (push-in) terminals.

	Screw terminals
8	Spring-type terminals, spring-type terminals (push-in)
0	Flat connectors
ㅂ	Solder pin connections
	Plug-in terminals (push-in)
	The terminals are indicated in the corresponding tables by the symbols shown on orange backgrounds.

3RQ coupling relays: Spring-type terminals (push-in) with TOP-wiring

Push-in connections are a form of spring-type terminals allowing fast wiring without tools for rigid conductors or conductors equipped with end sleeves.

As with other spring-type terminals, a screwdriver (with 3.0 x 0.5 mm blade) is required to disconnect the conductor. The same tool can also be used to wire finely-stranded or stranded conductors with no end finishing.

The advantages of the push-in terminals are found, as with all spring-type terminals, in speed of assembly and disassembly and vibration-proof connection. There is no need for the checking and tightening required with screw terminals.

With the TOP wiring method, the wire inlet and terminals can be reached from the front. This helps to speed up the wiring process and eliminate wiring errors.

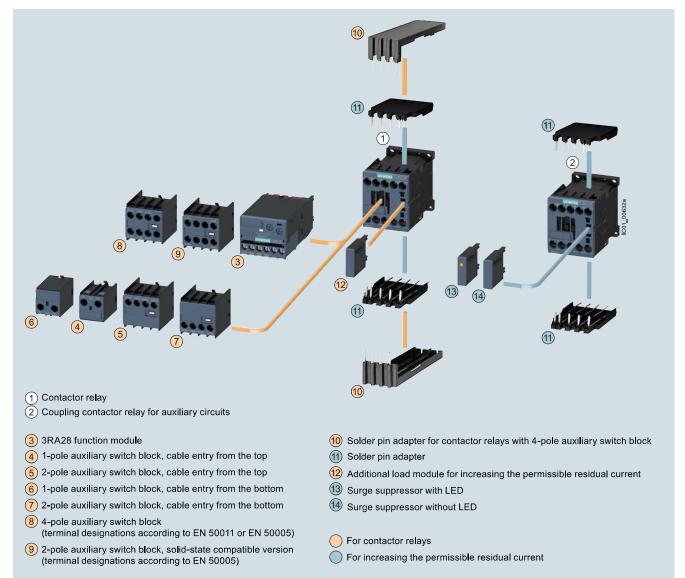
SUVA-certified safety contactors

We offer special safety contactors for use in safety-related applications. They have NC contacts with mirror contact function and they have SUVA certification. This means they have permanently fitted auxiliary switch blocks and cannot be operated manually. They thus comply with all requirements for use in safety applications.

SIRIUS 3RH2 contactor relays, 4- and 8-pole

Overview

Contactor relays, size S00, with accessories



SIRIUS 3RH2 contactor relays, 4- and 8-pole

Standards

IEC/EN 60947-1, IEC/EN 60947-4-1, IEC/EN 60947-5-1

The 3RH2 contactor relays are available with screw or springtype terminals. The basic unit contains four contacts with terminal designations according to EN 50011.

The 3RH2 contactor relays are suitable for use in any climate. They are finger-safe according to IEC 60529.

The 3RH21 coupling contactor relays for switching auxiliary circuits are tailored to the special requirements of working with electronic controls.

Contact reliability

High contact stability at low voltages and currents, suitable for solid-state circuits with currents \geq 1 mA at a voltage of \geq 17 V.

Surge suppression

RC elements, varistors, diodes or diode assemblies (combination of a diode and a Zener diode) can be plugged onto all 3RH2 contactor relays from the front for damping opening surges in the coil. The plug-in direction is determined by a coding device.

Coupling contactor relays have a low power consumption and an extended solenoid coil operating range.

Depending on the version, the solenoid coils of the coupling contactor relays are supplied without overvoltage damping (versions 3RH21..-. HB40 or 3RH21..-. MB40-0KT0) or with a diode or suppressor diode connected as standard.

Accessories

The accessories for the 3RT2 contactors in size S00 can also be used for the 3RH2 contactor relays (see from page 3/71 onwards).

Auxiliary switch blocks

The 3RH21 contactor relays (with the exception of coupling contactor relays) can be expanded by up to four contacts by the addition of mounted auxiliary switch blocks.

The auxiliary switch block can easily be snapped onto the front of the contactor relays. The auxiliary switch block has a centrally positioned release lever for disassembly.

The conventional front auxiliary contacts fulfill the characteristics of positively driven operation and are therefore suitable for safety applications.

Article No. scheme

Product versions		Article number
SIRIUS contactor relays		3RH2
Device type	e.g. 1 = 4-pole motor contactor	
Number of NO contacts	e.g. 2 = 2 NO	
Number of NC contacts	e.g. 2 = 2 NC	
Type of electrical connection	Screw terminals	1
	Spring-type terminals	2
Operating range/solenoid coil circuit	e.g. A = AC standard/without coil circuit	
Rated control supply voltage	e.g. P0 = 50/60 Hz 230 V AC	
Special version		
Example		3RH2 1 2 2 - 1 A P 0 0

Note:

The Article No. scheme shows an overview of product versions for better understanding of the logic behind the article numbers. For your orders, please use the article numbers quoted in the selection and ordering data.

SIRIUS 3RH2 contactor relays, 4- and 8-pole

Technical specifications

More information

For technical specifications, see

https://support.industry.siemens.com/cs/ww/en/ps/16188/td

FAQs, see https://support.industry.siemens.com/cs/ww/en/ps/16188/faq

Manuals, see

- System Manual "SIRIUS Modular System System Overview", https://support.industry.siemens.com/cs/WW/en/view/60311318
- Manual "SIRIUS SIRIUS 3RT Contactors/Contactor Assemblies" https://support.industry.siemens.com/cs/de/en/view/60306557

Type

Size

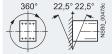
Contactor relays

3RH2

S00

Permissible mounting position

The contactor relays are designed for operation on a vertical mounting



Upright mounting position



NSB0_00477a Special version required

(in the case of coupling contactor relays and contactor relays with extended operating range 3RH2122-2K .40 on request)

Positively-driven operation of contacts in contactor relays

3RH2:

Yes, in the basic unit and the auxiliary switch block as well as between the basic unit and the mounted auxiliary switch block **(removable)** acc. to:

- ZH1/457
- IEC 60947-5-1, Appendix L

3RH22:

Yes, in the basic unit and the auxiliary switch block as well as between the basic unit and the mounted auxiliary switch block (permanently mounted) acc. to:

- IEC 60947-5-1, Appendix L

3RH2911-.NF. solid-state compatible auxiliary switch blocks have no positively-driven contacts.

Contact reliability

Explanations:

There is positively-driven operation if it is ensured that the NC and NO contacts cannot be closed at the same time.

ZH1/457

Safety Rules for Controls on Power-Operated Metalworking Presses.

 $I_{\rm e}$ = Rated operational current

IEC 60947-5-1, Appendix L Standard for low-voltage switchgear and controlgear; special requirements for positively-driven contacts

Contact reliability at 17 V, 1 mA acc. to IEC 60947-5-4 Contact endurance for AC-15/AC-14 and DC-13 utilization categories

The contact endurance is mainly dependent on the breaking current. It is assumed that the operating mechanisms are switched randomly, i.e. not synchronized with the phase angle of the supply system.

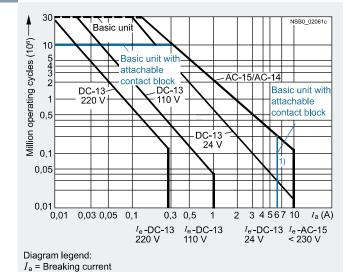
If magnetic circuits other than the contactor coil systems or solenoid valves are present, e.g. magnetic brakes, protective measures for the load circuits are necessary, e.g. in the form of RC elements and freewheel diodes.

The characteristic curves apply to

- 3RH21/3RH22 contactor relays1)

- 3RH24 latched contactor relays
 3RH2911 auxiliary switch blocks¹⁾
 Auxiliary switch blocks for snapping onto the front, max. 4-pole and for mounting onto the side in size S00

Frequency of contact faults < 10⁻⁸, i.e. < 1 fault per 100 million operating cycles



¹⁾ 3RH22, 3RH2911: $I_P = 6$ A for AC-15/AC-14 and DC-13.

		Comboston (colored		
Torre		Contactor relays	ODI IOO	001104
Type		3RH21	3RH22	3RH24
Size		S00		
General data				
Dimensions (W x H x D)				
Basic units Second terminals				
- Screw terminals	mm	45 x 58 x 73		90 x 58 x 73
- Spring-type terminals	mm	45 x 70 x 73		
Basic unit with mounted auxiliary switch block				
- Screw terminals	mm	45 x 58 x 117		
- Spring-type terminals	mm	45 x 70 x 121		
Basic unit with mounted function module or solid-state time-delay auxiliary switch block				
- Screw terminals	mm	45 x 58 x 147		
- Spring-type terminals	mm	45 x 70 x 147		
Mechanical endurance				
Basic units	Operat- ing cycles	30 million		5 million
Basic unit with mounted auxiliary switch block		10 million		5 million
	ing cyc l es			
Solid-state compatible auxiliary switch block	Operat- ing cycles	5 million		
Rated insulation voltage U _i (pollution degree 3)	V	690		
Rated impulse withstand voltage U _{imp}	kV	6		
Protective separation between the coil and the contacts in the basic unit, acc. to IEC 60947-1, Appendix N	V	400		
Permissible ambient temperature				
During operation	°C	- 25 +60		
During storage	°C	- 55 +80		
Degree of protection acc. to IEC 60529				
• On front		IP20 (screw terminals ar	nd spring-type terminals)	
Connecting terminal		IP20 (screw terminals ar	nd spring-type terminals)	
Touch protection acc. to IEC 60529		Finger-safe (screw termi	nals and spring-type terr	nina l s)
Shock resistance				
Rectangular pulse				
- AC operation	<i>g</i> /ms	7.3/5 and 4.7/10		
- DC operation	<i>g</i> /ms	10/5 and 5/10		
• Sine pulse	-			
- AC operation	g/ms	11.4/5 and 7.3/10		
- DC operation	g/ms	15/5 and 8/10		
Short-circuit protection				
Short-circuit test				
- With fuse links of operational class gG: DIAZED, type 5SB; NEOZED, type 5SE with short-circuit current $I_{\rm k}=$ 1 kA acc. to IEC 60947-5-1	А	10		
- With miniature circuit breakers with C characteristic with short-circuit current $I_{\rm k}=400$ A acc. to IEC 60947-5-1	Α	6		

		Contactor relays		
Туре		3RH21	3RH22	3RH24
Size		S00		
Conductor cross-sections				
Auxiliary conductors and coil terminals (1 or 2 conductors can be connected)		Screw terminals		
Solid or stranded	mm^2	2 x (0.5 1.5) ¹⁾ ; 2 x (0).75 2.5) ¹⁾ , ma	x. 2 x 4
Finely stranded with end sleeve	mm^2	2 x (0.5 1.5) ¹⁾ ; 2 x (0).75 2.5) ¹⁾	
AWG cables, solid or stranded	AWG	2 x (20 16) ¹⁾ ; 2 x (18	3 14) ¹⁾	
Terminal screw		M3 (for Pozidriv size 2	, Ø 5 6 mm)	
- Tightening torque	Nm	0.8 1.2 (7 10.3 l b.	in)	
Auxiliary conductors and coil terminals ²⁾ (1 or 2 conductors can be connected)		Spring-type tern	ninals	
Operating tool	mm	3.0 x 0.5; 3.5 x 0.5		
Solid or stranded	mm^2	2 x (0.5 4)		
Finely stranded with end sleeve	mm^2	2 x (0.5 2.5)		
Finely stranded without end sleeve	mm ²	2 x (0.5 2.5)		
AWG cables, solid or stranded	AWG	2 x (20 12)		
Auxiliary conductors for front and laterally mounted auxiliary switches ²⁾				
Operating tool	mm	3.0 x 0.5; 3.5 x 0.5		
Solid or stranded	mm^2	2 x (0.5 2.5)		
Finely stranded with end sleeve	mm^2	2 x (0.5 1.5)		
Finely stranded without end sleeve	mm^2	2 x (0.5 2.5)		
AWG cables, solid or stranded	AWG	2 x (20 14)		

If two different conductor cross-sections are connected to one clamping point, both cross-sections must lie in one of the ranges specified.
 Max. external diameter of the conductor insulation: 3.6 mm.
 On spring-type terminals with conductor cross-sections ≤ 1 mm² an "insulation stop" must be used, see page 3/115.

			Contactor relays
Туре			3RH2
Size			S00
Control			
Solenoid coil operating range			
AC operation	At 50 Hz At 60 Hz		0.8 1.1 x <i>U</i> _S 0.85 1.1 x <i>U</i> _S
DC operation	At +50 °C At +60 °C		0.8 1.1 x <i>U</i> _S 0.85 1.1 x <i>U</i> _S
Solenoid coil power consumption (for cold coil and $1.0 \times U_8$)			
• AC operation, 50 Hz			
- Closing		VA/p.f.	37/0.8
- Closed		VA/p.f.	5.7/0.25
• AC operation, 60 Hz			
- Closing		VA/p.f.	33/0.75
- Closed		VA/p.f.	4.4/0.25
DC operation Closing = Closed		W	4.0
Permissible residual current of the electronics (with 0 signal)			
• AC operation ¹⁾			$< 4 \text{ mA x} (230 \text{ V/}U_{\text{s}})$
For DC operation			$< 10 \text{ mA} \times (24 \text{ V/}U_8)$
Operating times for 1.0 x $U_s^{(2)}$ Total break time = OFF-delay + Arcing time			
Values apply with coil in cold state and at operating temperat operating range	ure for		
AC operation			
• Closing			
- ON-delay of NO contact 3RH24 minimum operating time		ms ms	9 22 ≥ 35
- OFF-delay of NC contact		ms	6.5 19
Opening			
OFF-delay of NO contact 3RH24 minimum operating time		ms ms	4.5 15 ≥ 30
- ON-delay of NC contact		ms	5 15
DC operation			
• Closing			
- ON-delay of NO contact 3RH24 minimum operating time		ms ms	35 50 ≥ 100
- OFF-delay of NC contact		ms	30 45
Opening			
- OFF-delay of NO contact 3RH24 minimum operating time		ms ms	7 12 ≥ 30
- ON-delay of NC contact		ms	13 18
Arcing time		ms	10 15

¹⁾ The 3RT2916-1GA00 additional load module is recommended for higher residual currents, see page 3/114.

²⁾ The OFF-delay times of the NO contacts and the ON-delay times of the NC contacts increase if the contactor coils are attenuated against voltage peaks (suppression diode 6x to 10x; diode assembly 2x to 6x; varistor +2 to 5 ms).

			Coupling contactor relays		
Type			3RH21HB40	3RH21JB40	3RH21KB40
Size			S00		
Control					
Solenoid coil operating range	•		0.7 1.25 x U _s		
Power consumption of the so (for cold coil and 1.0 x U_s) Closing = Closed at U_s = 24 V	lenoid coil	W	2.8		
Permissible residual current Of the electronics for 0 signal			<10 mA x (24 V/U _S)		
Overvoltage configuration of	the solenoid coil		No overvoltage damping	Built-in diode	Built-in suppressor diode
			J O J	- 	->\
Operating times at 1.0 x U _s					
• Closing delay	ON-delay NO OFF-delay NC	ms ms	35 60 25 40		
 Opening delay 	OFF-delay NO ON-delay NO	ms ms	7 20 10 30	38 65 30 90	7 20 10 30
Upright mounting position			On request		
			Coupling contactor relays		
Type			3RH21MB40-0KT0	3RH21VB40	3RH21SB40
Size			S00		
Control					
Solenoid coil operating range	9		0.85 1.85 x <i>U</i> _s		
Power consumption of the so (for cold coil and 1.0 x U_s) Closing = Closed at U_s = 24 V	lenoid coil	W	1.6		
Permissible residual current Of the electronics for 0 signal			< 8 mA x (24 V/U _S)		
Overvoltage configuration of	the solenoid coil		No overvoltage damping	Built-in diode	Built-in suppressor diode
			J O.	- 	- DK -
Operating times at 1.0 x U _s					
	ON-de l ay NO	ms	25 90 15 80		
Closing delay	OFF-delay NC	ms	15 60		
Closing delayOpening delay	OFF-delay NC ON-delay NO OFF-delay NC	ms ms	5 20 10 30	20 80 30 90	5 20 10 30

			Contactor relays
Туре			3RH2
Size			S00
Rated data of the auxiliary contacts			
Load rating with AC			
Rated operational currents I _e			
AC-12		Α	10
AC-15/AC-14, for rated operational voltage $U_{ m e}$	11. 1. 000 1/		401)
	Up to 230 V 400 V	A A	10 ¹⁾
	500 V	Α	3 2
	690 V	Α	1
Load rating with DC			
Rated operational currents I _e			
DC-12, for rated operational voltage $U_{\rm e}$			
• 1 conducting path	24 V 60 V	A A	10 6
	110 V	Â	3
	220 V	A	1
	440 V 600 V	A A	0.3 0.15
• 2 conducting paths in series	24 V	Α	10
	60 V	A	10
	110 V 220 V	A A	4 2
	440 V	Α	1.3
	600 V	Α	0.65
3 conducting paths in series	24 V 60 V	A A	10 10
	110 V	A	10
	220 V	A	3.6
	440 V 600 V	A A	2.5 1.8
DC-13, for rated operational voltage $U_{\rm e}$			
• 1 conducting path	24 V	А	10 ¹⁾
-	60 V	A	2
	110 V 220 V	A A	1 0.3
	440 V	Α	0.14
	600 V	A	0.1
2 conducting paths in series	24 V 60 V	A A	10 3.5
	110 V	A	1.3
	220 V 440 V	A A	0.9 0.2
	600 V	A	0.1
3 conducting paths in series	24 V	Α	10
-	60 V	A	4.7
	110 V 220 V	A A	3 1.2
	440 V	Α	0.5
Outlieble of forman	600 V	Α	0.26
Switching frequency			
Switching frequency z in operating cycles/hour	AO 16/20 / 5	1	4 000
Rated operation for utilization category Dependence of the quitable of response of the position for the property of the position of the	AC-12/DC-12 AC-15/AC-14	h ⁻¹ h ⁻¹	1 000 1 000
Dependence of the switching frequency z' on the operational current I' and operational voltage U':	DC-13	h ⁻¹	1 000
operational current I' and operational voltage U' : $z' = z \cdot (I_{\Theta}I') \cdot (U_{\Theta}IU')^{1.5} \cdot 1/h$			
No-load switching frequency		h ⁻¹	10 000
® and ® rated data			
Basic units and auxiliary switch blocks			
Rated control supply voltage		V AC	max. 600
Rated voltage		V AC	600
Switching capacity			A 600, Q 600
 Uninterrupted current at 240 V AC 		Α	10
1) applied applied to 6 A for AC 45/AC 44 and DC 49			

¹⁾ 3RH22, 3RH29: $I_{\rm e}$ = 6 A for AC-15/AC-14 and DC-13.

SIRIUS 3RH2 contactor relays, 4- and 8-pole

Selection and ordering data

AC operation ~

PU (UNIT, SET, M) = 1 PS* = 1 PG = 4 = 1 unit = 41A











3RH2122-1A..0

3RH2122-2A..0

3RH2244-1A..0

3RH2244-2A..0

3RH2422-1A..0

Rated operational current I_e/AC -15/AC-14 at 230 V	Contacts Ident. No.	Version	Rated control su voltage $U_{\rm s}$ at 50/60 Hz ¹⁾	pply SD	Screw terminals	(1)		Spring-type terminals	8
		\ \ \ \ \			Article No.	Price per PU		Article No.	Price per PU
Α		NO NO	V AC	d			d		

For screw fixing and snap-on mounting onto TH 35 standard mounting rail

Size S00

10	40E	4		24 110 230	* *	3RH2140-1AB00 3RH2140-1AF00 3RH2140-1AP00	2 5 •	3RH2140-2AB00 3RH2140-2AF00 3RH2140-2AP00
	31E	3	1	24 110 230	* *	3RH2131-1AB00 3RH2131-1AF00 3RH2131-1AP00	2	3RH2131-2AB00 3RH2131-2AF00 3RH2131-2AP00
	22E	2	2	24 110 230	* *	3RH2122-1AB00 3RH2122-1AF00 3RH2122-1AP00	2	3RH2122-2AB00 3RH2122-2AF00 3RH2122-2AP00

With permanently mounted auxiliary switch block (SUVA-certified safety contactor)

with permanently mount	ica aaxiiiai	y 500110		it (OO IA oci illica salety ooi	icaocoi	,		
6	44E	4	4	230	>	3RH2244-1AP00	2	3RH2244-2AP00
	62E	6	2	230		3RH2262-1AP00	2	3RH2262-2AP00

Latched

No lateral auxiliary switch	blocks car	n be mo	unted				
10	40 E	4		24	5	3RH2440-1AB00	
				110	5	3RH2440-1AF00	
				230	5	3RH2440-1AP00	
	31 E	3	1	24	5	3RH2431-1AB00	-
				110	5	3RH2431-1AF00	_
				230	5	3RH2431-1AP00	-
	22 E	2	2	24	5	3RH2422-1AB00	
				110	5	3RH2422-1AF00	-
				230	5	3RH2422-1AP00	-

 $^{^{1)}}$ Coil operating range - at 50 Hz: 0.8 to 1.1 x $U_{\rm S}$ - at 60 Hz: 0.85 to 1.1 x $U_{\rm S}.$

Other voltages according to page 3/69 on request.

Price per PU

Contactor Relays

SIRIUS 3RH2 contactor relays, 4- and 8-pole

DC operation ====

PU (UNIT, SET, M) = 1 PS* = 1 unit PG = 41A











3RH2122-1B

3RH2122-2B..0

3RH2244-1B..0

3RH2244-2B..0

3RH2422-1B.40

Rated operational current $I_{\rm e}/{\rm AC}$ -15/AC-14 at 230 V	Contacts Ident. No.	Versic	n	Rated control supply voltage $U_{\rm s}$	SD	Screw terminals	(1)	SD	Spring-type terminals
		\	}			Article No.	Price per PU		Article No.
Α		NO	NC	V DC	d			d	

For screw fixing and	snap-on	mounting	onto	TH 35	standard
mounting rail					

Size S00

10	40E	4		24 220	➤ 3RH2140-1BB40 ➤ 3RH2140-1BM40	5	3RH2140-2BB40 3RH2140-2BM40
	31E	3	1	24 220	3RH2131-1BB40 2 3RH2131-1BM40	5	3RH2131-2BB40 3RH2131-2BM40
	22E	2	2	24 220	> 3RH2122-1BB40 > 3RH2122-1BM40	5	3RH2122-2BB40 3RH2122-2BM40
With integrated diode							
10	40E	4		24	▶ 3RH2140-1FB40	>	3RH2140-2FB40
	31E	3	1	24	▶ 3RH2131-1FB40	>	3RH2131-2FB40
	22E	2	2	24	▶ 3RH2122-1FB40	>	3RH2122-2FB40
With permanently moun	ted auxilia	ry switc	h block	(SUVA-c	ertified safety contactor)		
6	44E	4	4	24	▶ 3RH2244-1BB40	>	3RH2244-2BB40
	62E	6	2	24	▶ 3RH2262-1BB40	>	3RH2262-2BB40
Latched							
No lateral auxiliary switch	blocks car	n be mou	inted				
10	40E	4		24	5 3RH2440-1BB40		-
				110	5 3RH2440-1BF40		
				220	5 3RH2440-1BM40		-
	31E	3	1	24	5 3RH2431-1BB40		
				110 220	5 3RH2431-1BF40 5 3RH2431-1BM40		
							-
	22E	2	2	24	2 3RH2422-1BB40		-
				110 220	5 3RH2422-1BF40 5 3RH2422-1BM40		_
				220	3H112422-1DW40		

Other voltages according to page 3/69 on request.

SIRIUS 3RH2 contactor relays, 4- and 8-pole

DC operation for direct control from the PLC

- Coupling contactor relays with adapted power consumptionSuitable for solid-state PLC outputs
- Cannot be expanded with auxiliary switch blocks

PU (UNIT, SET, M) = 1 PS* = 1 unit PS* PG = 41A





3RH21..-1.B40

3RH21..-2.B40

per PU pe	Rated operational current $I_{\rm e}/{\rm AC}$ -15/ AC-14 at 230 V	Auxiliary contacts Ident. No. acc. to EN 50011	Version		SD	Screw terminals	SD	Spring-type terminals	8
A NO NC d	•		I NO	h NC	d			Article No.	Price per PU

For screw fixing and snap-on mounting onto TH 35 standard mounting rail

Size S00

Diode, varistor or RC element, attachable

No auxiliary switch blocks can be mounted

Rated control supply voltage operating range 0.7 to 1.25 Power consumption of the state of the s	x Ü _s	24 V					
10	40E	4		5	3RH2140-1HB40	5	3RH2140-2HB40
	31E	3	1	5	3RH2131-1HB40	5	3RH2131-2HB40
	22E	2	2	5	3RH2122-1HB40	5	3RH2122-2HB40
Rated control supply voltage operating range 0.85 to 1.8 Power consumption of the state of the s	35 x U _s	24 V					
10	40E	4		5	3RH2140-1MB40-0KT0	5	3RH2140-2MB40-0KT0
	31E	3	1	2	3RH2131-1MB40-0KT0	5	3RH2131-2MB40-0KT0
	22E	2	2	5	3RH2122-1MB40-0KT0	5	3RH2122-2MB40-0KT0

Other voltages according to page 3/69 on request.

SIRIUS 3RH2 contactor relays, 4- and 8-pole

DC operation for direct control from the PLC

- Coupling contactor relays with adapted power consumption
- Suitable for solid-state PLC outputs
- Cannot be expanded with auxiliary switch blocks

PU (UNIT, SET, M) = 1 PS* = 1 unit PG = 41A





3RH21..-1.B40

3RH21..-2.B40

3RH2122-2VB40

Rated operational current $I_{\rm e}/{\rm AC}$ -15/ AC-14 at 230 V	Auxiliary contacts Ident. No. acc. to EN 50011	Version		SD	Screw terminals	SD	Spring-type terminals	<u> </u>
		\	}		Article No. Pric		Article No.	Price per PU
Α		NO	NC	d		d		

For screw fixing and snap-on mounting onto TH 35 standard mounting rail

Size S00

With integrated coil circuit (diode)

No auxiliary switch blocks can be mounted Rated control supply voltage $U_s = 24 \text{ V DC}$, operating range **0.7 to 1.25 x** $\ddot{U}_{\rm S}$ Power consumption of the solenoid coils **2.8 W** at 24 V 10 40E 3RH2140-1JB40 3RH2140-2JB40 3RH2131-1JB40 3RH2122-1JB40 3RH2131-2JB40 3RH2122-2JB40 31E 3 22E Rated control supply voltage $U_{\rm S}=24$ V DC, operating range **0.85 to 1.85 x U_{\rm S}** Power consumption of the solenoid coils **1.6 W** at 24 V 40E 3RH2140-1VB40 3RH2140-2VB40 31E 3RH2131-1VB40 3RH2131-2VB40

3RH2122-1VB40

With integrated coil circuit (suppressor diode)

22E

No auxiliary switch blocks can be mounted Rated control supply voltage $U_{\rm S}=24$ V DC, operating range **0.7 to 1.25** x $U_{\rm S}$ Power consumption of the solenoid coils **2.8** W at 24 V 40E 10 3RH2140-1KB40 3RH2140-2KB40 31E 3 3RH2131-1KB40 3RH2131-2KB40 3RH2122-1KB40 3RH2122-2KB40 22E Rated control supply voltage $U_{\rm S}$ = 24 V DC, operating range **0.85 to 1.85 x U_{\rm S}** Power consumption of the solenoid coils 1.6 W at 24 V 40E 10 4 3RH2140-1SB40 3RH2140-2SB40 3RH2131-1SB40 3RH2131-2SB40 31E 22E 3RH2122-1SB40 3RH2122-2SB40

Other voltages according to page 3/69 on request.

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