

Standards

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

The 3RH2 contactor relays are available with screw, ring terminal lug or spring-type 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 ≥ 1 mA at a voltage of ≥ 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 either without overvoltage damping (versions 3RH21...HB40 or 3RH21...MB40-0KT0) or with a diode or suppressor diode connected as standard.

Article No. scheme

Digit of the article No.	1st - 3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	16th
SIRIUS contactor relays	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. generation			2											
Device type (e.g. 1 = 4-pole contactor relay, 2 = 8-pole contactor relay)			<input type="checkbox"/>											
Number of NO contacts (e.g. 2 = 2 NO)				<input type="checkbox"/>										
Number of NC contacts (e.g. 2 = 2 NC)					<input type="checkbox"/>									
Connection type (1 = screw, 2 = spring)							<input type="checkbox"/>							
Operating range / solenoid coil circuit (e.g. A = AC standard / without coil circuit)								<input type="checkbox"/>						
Rated control supply voltage (e.g. P0 = 230 V, 50 Hz)									<input type="checkbox"/>	<input type="checkbox"/>				
No significance											<input type="checkbox"/>			
Special version												<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Example	3	R	H	2	1	2	2	-	1	A	P	0	0	

Note:

The Article No. scheme is presented here merely for information purposes and for better understanding of the logic behind the article numbers.

For your orders, please use the article numbers quoted in the catalog in the Selection and ordering data.

Accessories

The accessories for the 3RT2 contactors in size S00 can also be used for the 3RH2 contactor relays (see [Accessories for 3RT2 contactors, from page 3/54 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.

Manuals

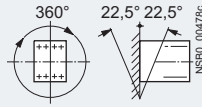

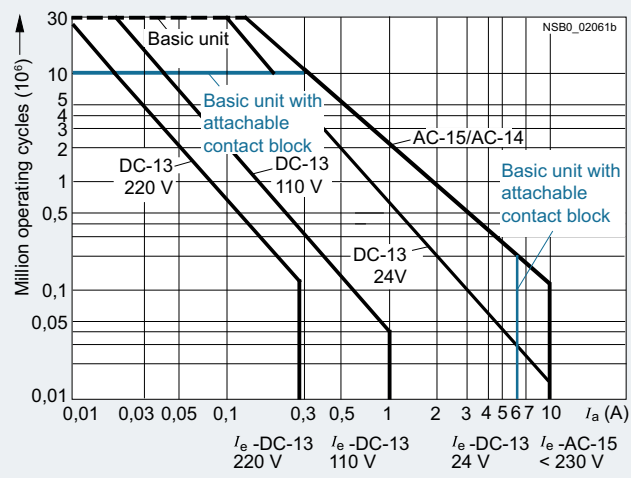
For more information, see

- System manual "SIRIUS Innovations – System Overview", <https://support.industry.siemens.com/cs/ww/en/view/60311318>
- Manual "SIRIUS Innovations – SIRIUS 3RT2 Contactors/ Contactor Assemblies", <https://support.industry.siemens.com/cs/ww/en/view/60306557>

Contactors Relays

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

Technical specifications

Type	Contactors relays
Size	3RH2
	S00
Permissible mounting position	
The contactor relays are designed for operation on a vertical mounting surface.	
Upright mounting position	 <p>Special version required (3RH2122-2K.40 coupling contactor relays and contactor relays with extended operating range on request)</p>
Positively-driven operation of contacts in contactor relays	
<p>3RH2: Yes, in the basic unit and the auxiliary switch block as well as between the basic unit and the front-mounted auxiliary switch block (removable) according to:</p> <ul style="list-style-type: none"> ZH1/457 IEC 60947-5-1, Appendix L <p>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) according to:</p> <ul style="list-style-type: none"> ZH1/457 IEC 60947-5-1, Appendix L <p><u>Note:</u> 3RH2911-.NF. solid-state compatible auxiliary switch blocks have no positively-driven contacts.</p>	<p>Explanations: There is positively-driven operation if it is ensured that the NC and NO contacts cannot be closed at the same time.</p> <p>ZH1/457 Safety Rules for Controls on Power-Operated Metalworking Presses.</p> <p>IEC 60947-5-1, Appendix L Low-voltage switchgear and controlgear; special requirements for positively-driven contacts</p>
Contact reliability	
Contact reliability at 17 V, 1 mA acc. to IEC 60947-5-4	Frequency of contact faults $<10^{-8}$ i.e. <1 fault per 100 million operating cycles
Contact endurance for AC-15/AC-14 and DC-13 utilization categories	
<p>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.</p> <p>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.</p> <p>The characteristic curves apply to</p> <ul style="list-style-type: none"> 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 	 <p>Diagram legend: I_a = Breaking current I_e = Rated operational current</p>

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




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

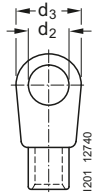
Type Size	Contactor relays				
	3RH21 S00	3RH22	3RH24		
General data					
Dimensions (W x H x D)					
<ul style="list-style-type: none"> Basic units <ul style="list-style-type: none"> Screw terminals Spring-type terminals Basic unit with mounted auxiliary switch block <ul style="list-style-type: none"> Screw terminals Spring-type terminals Basic unit with mounted function module or solid-state time-delay auxiliary switch block <ul style="list-style-type: none"> Screw terminals Spring-type terminals 		mm	45 x 58 x 73	--	90 x 58 x 73
		mm	45 x 70 x 73	--	
		mm	45 x 58 x 117	--	
		mm	45 x 70 x 121	--	
		mm	45 x 58 x 147	--	
		mm	45 x 70 x 147	--	
Mechanical endurance					
Basic units	Operating cycles	30 million	5 million		
Basic unit with mounted auxiliary switch block	Operating cycles	10 million	5 million		
Solid-state compatible auxiliary switch block	Operating 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 and spring-type terminals) ¹⁾			
Connecting terminal		IP20 (screw terminals and spring-type terminals) ¹⁾			
Touch protection acc. to IEC 60529		Finger-safe (screw terminals and spring-type terminals) ¹⁾			
Shock resistance					
Rectangular pulse					
- AC operation	g/ms	7.3/5 and 4.7/10			
- DC operation	g/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 $I_k = 1$ kA acc. to IEC 60947-5-1	A	10			
- with miniature circuit breaker with C characteristic with short-circuit current $I_k = 400$ A acc. to IEC 60947-5-1	A	6			

¹⁾ Ring terminal lug connections: Degree of protection IP20 on front as well as touch protection from the front only possible with terminal cover and insulating sleeve, connecting terminal degree of protection IP00.

Contactors Relays

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

Type Size	Contactor relays		
	3RH21 S00	3RH22	3RH24
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⁾ , max. 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 ... 14) ¹⁾	
• Terminal screw		M3 (for Pozidriv size 2, Ø 5 ... 6 mm)	
- Tightening torque	Nm	0.8 ... 1.2 (7 ... 10.3 lb.in)	
Auxiliary conductor and coil terminals²⁾ (1 or 2 conductors can be connected)		 Spring-type terminals	
• Operating devices ³⁾	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 switches²⁾			
• Operating devices ³⁾	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)	
Auxiliary conductor and coil terminals		 Ring terminal lug connections	
• Terminal screw	mm	M3, Pozidriv size 2	
• Operating devices	Nm	Ø 5 ... 6	
• Tightening torque	mm	0.8 ... 1.2	
• Usable ring terminal lugs	mm	d ₂ = min. 3.2	
- DIN 46234 without insulation sleeve	mm	d ₃ = max. 7.5	
- DIN 46225 without insulation sleeve			
- DIN 46237 with insulation sleeve			
- JIS C2805 Type R without insulation sleeve			
- JIS C2805 Type RAV with insulation sleeve			
- JIS C2805 Type RAP with insulation sleeve			



- ¹⁾ If two different conductor cross-sections are connected to one clamping point, both cross-sections must lie in one of the ranges specified.
- ²⁾ Max. external diameter of the conductor insulation: 3.6 mm.
An insulation stop must be used for spring-type terminals with conductor cross-sections ≤ 1 mm²; see "Accessories for 3RT2 contactors", page 3/92.
- ³⁾ Tool for opening the spring-type terminals, see [Accessories for 3RT2 contactors on page 3/92](#).

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




Type	Control		Contactor relays
Size			3RH2 S00
Solenoid coil operating range			
• AC operation	At 50 Hz At 60 Hz		0.8 ... 1.1 x U_s 0.85 ... 1.1 x U_s
• DC operation	At +50 °C At +60 °C		0.8 ... 1.1 x U_s 0.85 ... 1.1 x U_s
Power consumption of the solenoid coils (for cold coil and 1.0 x U_s)			
• 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	W		4.0
Closing = Closed			
Permissible residual current of the electronics (with 0 signal)			
• For AC operation ¹⁾			< 4 mA x (230 V/ U_s)
• For DC operation			< 10 mA x (24 V/ U_s)
Operating times for 1.0 x U_s²⁾ Total break time = Opening delay + Arcing time Values apply with coil in cold state and at operating temperature for operating range			
<u>AC operation</u>			
• Closing			
- ON-delay of NO contact	ms		9 ... 22
3RH24 minimum operating time	ms		≥ 35
- OFF-delay of NC contact	ms		6.5 ... 19
• Opening			
- OFF-delay of NO contact	ms		4.5 ... 15
3RH24 minimum operating time	ms		≥ 30
- ON-delay of NC contact	ms		5 ... 15
<u>DC operation</u>			
• Closing			
- ON-delay of NO contact	ms		35 ... 50
3RH24 minimum operating time	ms		≥ 100
- OFF-delay of NC contact	ms		30 ... 45
• Opening			
- OFF-delay of NO contact	ms		7 ... 12
3RH24 minimum operating time	ms		≥ 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 [Accessories for 3RT2 contactors, page 3/91](#).

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

Contactors Relays

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

Type Size		Coupling contactor relays		
		3RH21...HB40 S00	3RH21...JB40	3RH21...KB40
Control				
Solenoid coil operating range		0.7 ... 1.25 x U_s		
Power consumption of the solenoid coil W (for cold coil and 1.0 x U_s) Closing = Closed at $U_s = 24$ V		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 
Operating times for 1.0 x U_s				
• Closing delay	ON-delay NO ms	35 ... 60		
	OFF-delay NC ms	25 ... 40		
• Opening delay	OFF-delay NO ms	7 ... 20	38 ... 65	7 ... 20
	ON-delay NO ms	10 ... 30	30 ... 90	10 ... 30
Upright mounting position		On request		

Type Size		Coupling contactor relays		
		3RH21...MB40-0KT0 S00	3RH21...VB40	3RH21...WB40
Control				
Solenoid coil operating range		0.85 ... 1.85 x U_s		
Power consumption of the solenoid coil W (for cold coil and 1.0 x U_s) Closing = Closed at $U_s = 24$ V		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 
Operating times for 1.0 x U_s				
• Closing delay	ON-delay NO ms	25 ... 90		
	OFF-delay NC ms	15 ... 80		
• Opening delay	ON-delay NO ms	5 ... 20	20 ... 80	5 ... 20
	OFF-delay NC ms	10 ... 30	30 ... 90	10 ... 30
Upright mounting position		On request		

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

		Contactor relays	
Type		3RH2	
Size		S00	
Rated data of the auxiliary contacts			
Load rating with AC			
Rated operational currents I_e			
AC-12	A	10	
AC-15/AC-14 for rated operational voltage U_s	Up to 230 V A	10 ¹⁾	
	400 V A	3	
	500 V A	2	
	690 V A	1	
Load rating with DC			
Rated operational currents I_e			
DC-12 for rated operational voltage U_s			
• 1 conducting path	24 V A	10	
	60 V A	6	
	110 V A	3	
	220 V A	1	
	440 V A	0.3	
	600 V A	0.15	
• 2 conducting paths in series	24 V A	10	
	60 V A	10	
	110 V A	4	
	220 V A	2	
	440 V A	1.3	
	600 V A	0.65	
• 3 conducting paths in series	24 V A	10	
	60 V A	10	
	110 V A	10	
	220 V A	3.6	
	440 V A	2.5	
	600 V A	1.8	
DC-13 for rated operational voltage U_s			
• 1 conducting path	24 V A	10 ¹⁾	
	60 V A	2	
	110 V A	1	
	220 V A	0.3	
	440 V A	0.14	
	600 V A	0.1	
• 2 conducting paths in series	24 V A	10	
	60 V A	3.5	
	110 V A	1.3	
	220 V A	0.9	
	440 V A	0.2	
	600 V A	0.1	
• 3 conducting paths in series	24 V A	10	
	60 V A	4.7	
	110 V A	3	
	220 V A	1.2	
	440 V A	0.5	
	600 V A	0.26	
Switching frequency			
Switching frequency z in operating cycles/hour			
• Rated operation for utilization category	AC-12/DC-12	h ⁻¹	1 000
Dependence of the switching frequency z' on the operational current I' and operational voltage U' :	AC-15/AC-14	h ⁻¹	1 000
	DC-13	h ⁻¹	1 000
$z' = z \cdot (I_e/I') \cdot (U_e/U')^{1.5} \cdot 1/h$			
• 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	A	10	

1) 3RH22, 3RH29: $I_e = 6$ A for AC-15/AC-14 and DC-13.

Contactor Relays

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

Selection and ordering data

AC operation

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



3RH2122-1A..0

3RH2122-2A..0

3RH2244-1A..0

3RH2244-2A..0

3RH2422-1A..0

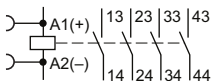
Rated operational current I_e /AC-15/ AC-14 at 230 V	Contacts		Rated control supply voltage U_s ²⁾ at 50/60 Hz ²⁾	DT	Screw terminals ¹⁾		DT	Spring-type terminals	
	Ident. No.	Version			Article No.	Price per PU		Article No.	Price per PU
			V AC						

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

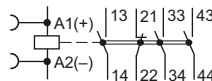
Size S00

Terminal designations according to EN 50011 (auxiliary switch blocks cannot be mounted)

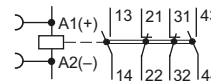
4 NO, Ident. No. **40E**



3 NO + 1 NC, Ident. No. **31E**



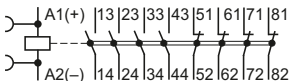
2 NO + 2 NC, Ident. No. **22E**



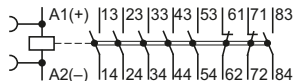
10	40E	4	--	24 110 230	▶	3RH2140-1AB00 3RH2140-1AF00 3RH2140-1AP00	B	3RH2140-2AB00 3RH2140-2AF00 3RH2140-2AP00
	31E	3	1	24 110 230	▶	3RH2131-1AB00 3RH2131-1AF00 3RH2131-1AP00	B	3RH2131-2AB00 3RH2131-2AF00 3RH2131-2AP00
	22E	2	2	24 110 230	▶	3RH2122-1AB00 3RH2122-1AF00 3RH2122-1AP00	B	3RH2122-2AB00 3RH2122-2AF00 3RH2122-2AP00

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

4 NO + 4 NC, Ident. No. **44E**



6 NO + 2 NC, Ident. No. **62E**

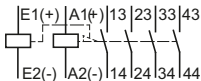


6	44E	4	4	230	▶	3RH2244-1AP00	A	3RH2244-2AP00
	62E	6	2	230	▶	3RH2262-1AP00	A	3RH2262-2AP00

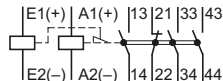
• Latched

Terminal designations according to EN 50011

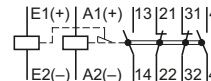
4 NO, Ident. No. **40E**



3 NO + 1 NC, Ident. No. **31E**



2 NO + 2 NC, Ident. No. **22E**



10	40E	4	--	24 110 230	B	3RH2440-1AB00 3RH2440-1AF00 3RH2440-1AP00	---
	31E	3	1	24 110 230	B	3RH2431-1AB00 3RH2431-1AF00 3RH2431-1AP00	---
	22E	2	2	24 110 230	B	3RH2422-1AB00 3RH2422-1AF00 3RH2422-1AP00	---

¹⁾ Ring terminal lugs for the 3RH21 and 3RH22 contactor relays on request.

²⁾ Coil operating range
 - at 50 Hz: 0.8 to 1.1 x U_s
 - at 60 Hz: 0.85 to 1.1 x U_s .

Other voltages according to page 3/53 on request.

For accessories, see 3RT2 contactors, from page 3/54 onwards.

Contactors Relays

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



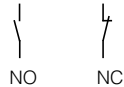
3RH21...-1.B40



3RH21...-2.B40

Rated operational current I_e /AC-15/ AC-14 at 230 V	Auxiliary contacts Ident. No. acc. to EN 50011	Version	DT	Screw terminals	DT	Spring-type terminals
				Article No.	Price per PU	Article No. Price per PU

A



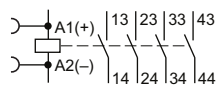
For screw fixing and snap-on mounting onto TH 35 standard mounting rail

Size S00

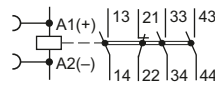
Diode, varistor or RC element, attachable

Terminal designations according to EN 50011 (auxiliary switch blocks cannot be mounted)

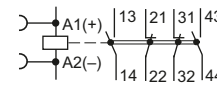
4 NO, Ident. No. **40E**



3 NO + 1 NC, Ident. No. **31E**



2 NO + 2 NC, Ident. No. **22E**



Rated control supply voltage $U_s = 24$ V DC

Operating range **0.7 to 1.25** x U_s

Power consumption of the solenoid coils **2.8 W** at 24 V

10	40E	4	--	B	3RH2140-1HB40	B	3RH2140-2HB40
	31E	3	1	B	3RH2131-1HB40	B	3RH2131-2HB40
	22E	2	2	B	3RH2122-1HB40	B	3RH2122-2HB40

Rated control supply voltage $U_s = 24$ V DC

Operating range **0.85 to 1.85** x U_s

Power consumption of the solenoid coils **1.6 W** at 24 V

10	40E	4	--	B	3RH2140-1MB40-OKT0	B	3RH2140-2MB40-OKT0
	31E	3	1	B	3RH2131-1MB40-OKT0	B	3RH2131-2MB40-OKT0
	22E	2	2	B	3RH2122-1MB40-OKT0	B	3RH2122-2MB40-OKT0

Other voltages [according to page 3/53](#) on request.

For accessories, [see 3RT2 contactors, from page 3/54 onwards](#).

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

Rated operational current I_e /AC-15/ AC-14 at 230 V	Auxiliary contacts Ident. No. acc. to EN 50011	Version	DT	Screw terminals		Spring-type terminals	
				Article No.	Price per PU	Article No.	Price per PU
		 					

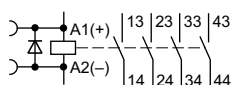
A

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

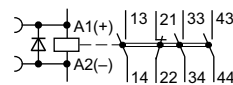
Size S00**With integrated coil circuit (diode)**

Terminal designations according to EN 50011 (auxiliary switch blocks cannot be mounted)

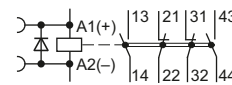
4 NO, Ident. No. **40E**



3 NO + 1 NC, Ident. No. **31E**



2 NO + 2 NC, Ident. No. **22E**



Rated control supply voltage $U_s = 24$ V DC

Operating range **0.7 to 1.25 x U_s**

Power consumption of the solenoid coils **2.8 W** at 24 V

10	40E	4	--	B	3RH2140-1JB40	B	3RH2140-2JB40
	31E	3	1	▶	3RH2131-1JB40	▶	3RH2131-2JB40
	22E	2	2	▶	3RH2122-1JB40	B	3RH2122-2JB40

Rated control supply voltage $U_s = 24$ V DC

Operating range **0.85 to 1.85 x U_s**

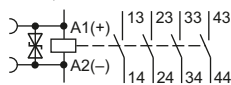
Power consumption of the solenoid coils **1.6 W** at 24 V

10	40E	4	--	B	3RH2140-1VB40	B	3RH2140-2VB40
	31E	3	1	B	3RH2131-1VB40	B	3RH2131-2VB40
	22E	2	2	B	3RH2122-1VB40	B	3RH2122-2VB40

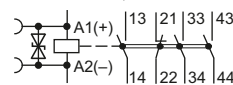
With integrated coil circuit (suppressor diode)

Terminal designations according to EN 50011 (auxiliary switch blocks cannot be mounted)

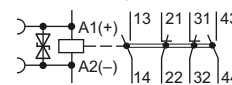
4 NO, Ident. No. **40E**



3 NO + 1 NC, Ident. No. **31E**



2 NO + 2 NC, Ident. No. **22E**



Rated control supply voltage $U_s = 24$ V DC

Operating range **0.7 to 1.25 x U_s**

Power consumption of the solenoid coils **2.8 W** at 24 V

10	40E	4	--	B	3RH2140-1KB40	B	3RH2140-2KB40
	31E	3	1	▶	3RH2131-1KB40	▶	3RH2131-2KB40
	22E	2	2	▶	3RH2122-1KB40	▶	3RH2122-2KB40

Rated control supply voltage $U_s = 24$ V DC

Operating range **0.85 to 1.85 x U_s**

Power consumption of the solenoid coils **1.6 W** at 24 V

10	40E	4	--	B	3RH2140-1SB40	B	3RH2140-2SB40
	31E	3	1	B	3RH2131-1SB40	B	3RH2131-2SB40
	22E	2	2	B	3RH2122-1SB40	B	3RH2122-2SB40

Other voltages [according to page 3/53](#) on request.

For accessories, [see 3RT2 contactors, from page 3/54 onwards](#).