

## **SIEMENS**

3RH2140-1AP00 **Data sheet** 



contactor relay, 4 NO, 230 V AC, 50/60 Hz, screw terminal, frame size S00

product brand name	SIRIUS
product designation	Auxiliary contactor
product type designation	3RH2
General technical data	
size of contactor	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current without load current share typical	1.43 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
shock resistance at rectangular impulse	
• at AC	7,3g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	30 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
of the contactor with added auxiliary switch block typical	10 000 000
reference code according to IEC 81346-2	К
Substance Prohibitance (Date)	10/01/2009
Weight	0.233 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	49.2 kg
global warming potential [CO2 eq] during manufacturing	1.15 kg
global warming potential [CO2 eq] during operation	48.2 kg
global warming potential [CO2 eq] after end of life	-0.139 kg
Main circuit	
no-load switching frequency	
• at AC	10 000 1/h
• at DC	10 000 1/h

3RH21401AP00 Page 1/6

9/9/2025

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Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	230 V
at 60 Hz rated value	230 V
control supply voltage frequency	
• 1 rated value	50 Hz
2 rated value	60 Hz
	00 HZ
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	37 VA
inductive power factor with closing power of the coil	0.8
apparent holding power of magnet coil at AC	5.7 VA
inductive power factor with the holding power of the coil	0.25
closing delay	
• at AC	8 33 ms
opening delay	
• at AC	4 15 ms
arcing time	10 15 ms
Auxiliary circuit	
	0
number of NC contacts for auxiliary contacts	
instantaneous contact	0
number of NO contacts for auxiliary contacts	4
instantaneous contact	4
identification number and letter for switching elements	40 E
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at 1 current path at DC-12	
• at 24 V rated value	10 A
at 110 V rated value	3 A
at 220 V rated value	1A
at 440 V rated value	0.3 A
• at 600 V rated value	0.15 A
operational current with 2 current paths in series at DC-12	40.4
at 24 V rated value	10 A
at 60 V rated value	10 A
• at 110 V rated value	4 A
• at 220 V rated value	2 A
• at 440 V rated value	1.3 A
at 600 V rated value	0.65 A
operational current with 3 current paths in series at DC-12	
at 24 V rated value	10 A
• at 60 V rated value	10 A
at 110 V rated value	10 A
at 220 V rated value	3.6 A
at 440 V rated value	2.5 A
at 600 V rated value	1.8 A
operating frequency at DC-12 maximum	1 000 1/h
operational current at 1 current path at DC-13	40.4
at 24 V rated value	10 A
• at 110 V rated value	1 A
• at 220 V rated value	0.3 A
• at 440 V rated value	0.14 A
at 600 V rated value	0.1 A

3RH21401AP00 Page 2/6

9/9/2025

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تهران، کیلومتر ۲۱ بزرگراه لشگری (جاده مخصوص کرج) روبـروی پالایشگاه نفت پارس، پلاک ۱۲



* at 24 V ratio value   10 A   13 A   10 V ratio value   10 A   10 V ratio value   10 A   10 V ratio value   10 A   10 A   10 V ratio value   12 A   11 V value value   12 A		
1 11 10 Victed value 1 22 Visted value 1 14 40 Visted value 1 15 A 1 24 Visted value 1 16 Visted value 1 16 Visted value 1 16 Visted value 1 17 A 1 11 10 Visted value 1 17 A 1 11 10 Visted value 1 18 A 1	• at 24 V rated value	10 A
e at 220 V rated value 2.2 A 3.1 A 3.2 A V rated value 3.1 A 3.2 A V rated value 3.3 A 4.2 C V rated value 4.7 A 4.7 A 4.7 A 4.2 C V rated value 5.4 C V rated value 1.2 A 5.4 C V rated value 1.2 A 5.5 A 6.2 C V rated value 1.2 A 6.2 C V rated value 1.2 A 6.3 C V rated value 1.4 A V rated value 1.5 A 6.4 C V rated value 1.5 A 6.5 A 6.6 C V rated value 1.6 A V rated value 1.7 A 6.6 C V rated value 1.8 A V rated value 1.9 A V rated value 1.9 A V rated value 1.0 C A 6. C V rated value 1.0 C V rated value	<ul> <li>at 60 V rated value</li> </ul>	3.5 A
e at 440 V rated value e at 600 V rated value operational current with 3 current paths in series at DC-13 e at 24 V rated value e at 60 V rated value e at 60 V rated value e at 7A e at 110 V rated value e at 460 V rated value e at 600 V rated value e at 600 V rated value e at 600 V rated value 0.5 A e at 600 V rated value 0.5 A cortex rating for contact rate value 0.6 A poperating frequency at DC-13 maximum 1 000 1 h contact rate lightly of auxiliary contacts 1 faulty swytching per 100 million (17 V, 1 mA)  ULCSA ratings contact rating of auxiliary contacts 1 faulty swytching per 100 million (17 V, 1 mA)  ULCSA ratings contact rating of auxiliary contacts according to UL  Short-crust protection of the auxiliary virtual virtual protection of the auxiliary swytch required rate line link for short-circuit protection of the auxiliary swytch required fastening method  fastening method  fastening method 45 mm  depth required spacing  • with suit-by-side mounting - forwards 10 mm - at the side 0 mms - forwards 10 mm - at the side 0 mms - forwards 10 mm - at the side 0 mms - forwards 10 mm - at the side 0 mms - forwards 10 mm - at the side 0 mms - forwards 10 mm - at the side 0 mms - forwards 10 mm - at the side 0 mms - forwards 10 mm - at the side 0 mms - forwards 10 mm - at the side 0 mms - forwards 10 mm - at the side 0 mms - forwards 10 mm - at the side 0 mms - forwards 10 mm - at the side 0 mms - forwards 10 mm - at the side 0 mms - forwards 10 mm - forwards 10 mm - sold or stranded - finely stranded with core and processing 0 for AWC cabels for auxiliary and control circuit vype of electrical connection for auxiliary and control circuit vype of electrical connection for auxiliary and control circuit vype of electrical connection for auxiliary and control circuit vype of electrical connection for auxiliary and control circuit vype of electrical connection for auxiliary and control circuit vype of electrical connection for auxiliary contacts 0 con	at 110 V rated value	1.3 A
e at 60 07 rated value operational current with 3 current paths in series at DC-13  • III 40 V rated value • III 60 V rated value • III 10 V rated value • Val	at 220 V rated value	0.9 A
a 24 V rated value   4.7 A   3.4	at 440 V rated value	0.2 A
a dt 24 V rated value at 80 V rated value at 220 V rated value 1.2 A at 220 V rated value 2.3 A at 220 V rated value 2.6 A at 40 V rated value 2.7 A 3.6 A 3.7 A 3.7 A 3.7 A 3.8 A 3.8 A 3.8 A 3.9 A 3.9 A 3.9 A 3.9 A 3.0 B 3.0 A 3.0 B	at 600 V rated value	0.1 A
e at 10 V rated value e at 110 V rated value 1.2 A 1.2 A 1.2 A 2.4 HAV V rated value 2.5 A 2.6 A 2.7 C rated value 2.7 C rated value 2.8 A 2.8 A 2.9 C rated value 2.8 A 2.8 A 2.9 C rated value 2.8 A 2.8 A 2.9 C rated value 2.8 A 2.8 A 2.8 C rate value 2.8 C rate	operational current with 3 current paths in series at DC-13	
at 110 V rated value at 220 V rated value at 220 V rated value at 200 V rated value borating frequency at DC-13 maximum contact reliability of auxiliary contacts to 1500 for 15	at 24 V rated value	10 A
at 1220 V rated value at 440 V rated value at 440 V rated value 0.26 A 2 0.00 V rated value 1 0.00 V rated value 2 0.26 A 2 0.00 V rated value 2 0.26 A 2 0.00 V rated value 3 0.00 V rated value 4 0.00 V rated value 5 0	at 60 V rated value	4.7 A
e at 460 V rated value  at 460 V rated value  perating frequency at DC-13 maximum  1000 1/h  contact reliability of auxiliary contacts  1 faulty switching per 100 million (17 V, 1 mA)  ULCSA rating  contact rating of auxiliary contacts according to UL  A600 / 0600  Short-circuit protection  design of the minicitue circuit breaker for short-circuit protection of an auxiliary contact up 10 280 V  design of the face link for short-circuit protection of the auxiliary  design of the face link for short-circuit protection of the auxiliary  design of the face link for short-circuit protection of the auxiliary  design of the face link for short-circuit protection of the auxiliary  design of the face link for short-circuit protection of the auxiliary  design of the face link for short-circuit protection of the auxiliary  design of the face link for short-circuit protection of the auxiliary  design of the face link for short-circuit protection of the auxiliary  design of the face link for short-circuit protection of the auxiliary  design of the face link for short-circuit protection of the auxiliary  design of the face link for short-circuit protection of the auxiliary  design of the face link for short-circuit protection of the auxiliary  design of the face link for short-circuit protection of the auxiliary  design of the face link for short-circuit protection  design of the refuse law link for short-circuit protection  design of the refuse law link for short-circuit protection  design of the refuse law link for short-circuit protection  design of the refuse law link for short-circuit protection  design of the refuse law link for short-circuit protection  design of the refuse law link for short-circuit protection  design of the refuse law link for short-circuit protection  design of the refuse law link for short-circuit protection  design of the refuse law link for short-circuit protection  design of the refuse law link for short-circuit protection of the auxiliary and corticuit circuit law link for short-circuit protec	at 110 V rated value	3 A
• at 600 V rated value     operating frequency at DC-13 maximum     ontact raibality of auxillary contacts     1 faulty switching per 100 million (17 V.1 mA)     UL/OSA ratings     ontact rating of auxillary contacts according to UL     Short-circuit protection     design of the ministruc circuit breaker for short-circuit protection     of the auxillary contact saccording to UL     Short-circuit protection     design of the ministruc circuit breaker for short-circuit protection of the auxillary     with a required spacing     institution/ mounting/ dimensions     mounting position	at 220 V rated value	1.2 A
• at 600 V rated value     operating frequency at DC-13 maximum     ontact raibality of auxillary contacts     1 faulty switching per 100 million (17 V.1 mA)     UL/OSA ratings     ontact rating of auxillary contacts according to UL     Short-circuit protection     design of the ministruc circuit breaker for short-circuit protection     of the auxillary contact saccording to UL     Short-circuit protection     design of the ministruc circuit breaker for short-circuit protection of the auxillary     with a required spacing     institution/ mounting/ dimensions     mounting position	at 440 V rated value	0.5 A
operating frequency at DC-13 maximum contact rollability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) ULGSA ratings contact rating of auxiliary contacts according to UL A600 / G600 Short-circuit protection design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required beautiful protection of the auxiliary contacts    for auxiliary contacts		
Contact reliability of auxiliary contacts according to UL   A600 / Q600		
contact rating of auxiliary contacts according to UL  A600 / 0600  design of the ministure circuit breaker for short-circuit protection of the auxiliary cricuit up to 230 V  design of the fuse link for short-circuit protection of the auxiliary switch required  instillation/mounting/dimensions  mounting position  ### 1-180° rotation possible on vertical mounting surface: can be titled forward and backward by 4/- 22.5° on vertical mounting surface.  fastening method backward by 4/- 22.5° on vertical mounting surface: can be titled forward and backward by 4/- 22.5° on vertical mounting surface.  fastening method screw and snap-on mounting onto 35 mm DIN rail belief to the first standard by 4/- 22.5° on vertical mounting surface.  fastening method screw and snap-on mounting onto 35 mm DIN rail belief to the first standard by 4/- 22.5° on vertical mounting surface.  fastening method screw and snap-on mounting onto 35 mm DIN rail belief to the first standard by 4/- 22.5° on vertical mounting surface.  fastening method screw and snap-on mounting onto 35 mm DIN rail belief to with side-by-side mounting.  ### 10 mm  ### 10 m		
contact rating of auxiliary contacts according to UL Short-circuit protection design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V design of the flew link for short-circuit protection of the auxiliary switch required design of the flew link for short-circuit protection of the auxiliary switch required facility in the second of the auxiliary switch required facility in the second of the auxiliary switch required fastening method fastening method screw and srap-on mounting onto 35 mm DIN rall height 57.5 mm width 45 mm depth 73 mm required spacing  • with side-by-side mounting - forwards 10 mm - odwnwards 10 mm - odwnwards 10 mm - other side - forwards 10 mm - other side - downwards 10 mm - other side - downwards 10 mm - other side - downwards 10 mm - other side - forwards - other side - other		readly emissing per roomanon (17 V, 1 mm)
Short-circuit protection   design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V   design of the fuse link for short-circuit protection of the auxiliary circuit up to 230 V   design of the fuse link for short-circuit protection of the auxiliary switch required		A600 / O600
design of the ministure circuit breaker for short-circuit protection of the auxiliary circuit up to 230 Y  design of the tuse link for short-circuit protection of the auxiliary shorts required shorts requir		7,000 / 2,000
design of the fuse link for short-circuit protection of the auxiliary switch required installation/mounting/dimensions  mounting position	design of the miniature circuit breaker for short-circuit protection	C characteristic: 10 A; 0.4 kA
mounting position #/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by 1-/-22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail feeting the graph of the properties of the prope	design of the fuse link for short-circuit protection of the auxiliary	gG: 10 A (690 V, 1 kA)
mounting position  #+180" rotation possible on vertical mounting surface; can be titled forward and backward by Y+22.5" on vertical mounting surface; can be titled forward and backward by Y+2.25" on vertical mounting surface; can be titled forward and backward by Y+2.25" on vertical mounting surface; can be titled forward and backward by Y+2.25" on vertical mounting surface; can be titled forward and backward by Y+2.25" on vertical mounting surface; can be titled forward and backward by Y+2.25" on vertical mounting surface; can be titled forward and backward by Y+2.25" on vertical mounting surface; can be titled forward and backward by Y+2.25" on vertical mounting surface; can be titled forward and backward by Y+2.25" on vertical mounting surface; can be titled mounting surface; can be surfaced mounting surface surfaced mounting surface; can be surfaced mounti		
fastening method screw and snap-on mounting surface fastening method for the spacing width depth 73 mm  required spacing  • with side-by-side mounting — forwards — upwards — downwards — of orgrounded parts — forwards — the side — of orgrounded parts — forwards — upwards — at the side — downwards — at the side — downwards — at the side — downwards — 10 mm — of or live parts — forwards — 10 mm — of or live parts — forwards — 10 mm — of or live parts — forwards — 10 mm — of or live parts — forwards — upwards — 10 mm — of or live parts — forwards — upwards — 10 mm — of or live parts — forwards — upwards — 10 mm — of or live parts — some for proventing to the side — downwards — upwards — upwards — the side — of ormactable conductor cross-sections — of or auxiliary contacts  • for auxiliary contacts  Safety related data  product function — positively driven operation according to IEC 60947-5-1 — solid for saley function — positively driven operation according to IEC 60947-5-1 — suitablify for use safety-related switching OFF — yes service life maximum — of dangerous failures — with low demand rate according to SN 31920  40 %		1/4000
height width		backward by +/- 22.5° on vertical mounting surface
width 45 mm  depth 73 mm  required spacing  • with side-by-side mounting  - forwards 10 mm  - upwards 10 mm  - at the side 0 mm  • for grounded parts  - forwards 10 mm  - at the side 0 mm  - at the side 6 mm  - downwards 10 mm  - at the side 6 mm  - at the side 6 mm  - downwards 10 mm  - at the side 6 mm  - for live parts  - forwards 10 mm  - at the side 6 mm  - downwards 10 mm  - at the side 6 mm  - forwards 10 mm  - at the side 6 mm  - connections/ for live parts  - forwards 10 mm  - at the side 6 mm  - downwards 10 mm  - at the side 6 mm  Connections/ Terminals  type of electrical connection for auxiliary and control circuit screw-type terminals  type of connectable conductor cross-sections  • for auxiliary contacts  - solid or stranded  - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  - finely stranded with core end processing 2x (20 15, mm²), 2x (0.75 2.5 mm²)  • or AWG cables for auxiliary contacts 2x (20 16, x (18 14), 2x 12  Safety related data  product function  • positively driven operation according to IEC 60947-5-1 Yes  suitability for use safety-related switching OFF Yes  service life maximum  - on the propertion of dangerous failures  • with low demand rate according to SN 31920  40 %		·
required spacing  • with side-by-side mounting  — forwards — upwards — downwards — of the side — for grounded parls — forwards — upwards — upwards — upwards — at the side — downwards — at the side — downwards — at the side — downwards — 10 mm — at the side — downwards — 10 mm  • for live parts — forwards — 10 mm  • for live parts — forwards — upwards — upwards — upwards — upwards — upwards — downwards — 10 mm — downwards — upwards — of num		
required spacing  • with side-by-side mounting  — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — upwards — upwards — upwards — at the side — downwards — at the side — downwards — 10 mm — at the side — downwards — 10 mm  • for live parts — forwards — 10 mm  • for live parts — forwards — 10 mm — downwards — 10 mm — downwards — upwards — 10 mm — downwards — at the side — formations — the side — formations — at the side — format		
<ul> <li>with side-by-side mounting</li> <li>— forwards</li> <li>— upwards</li> <li>— 10 mm</li> <li>— downwards</li> <li>— at the side</li> <li>0 mm</li> <li>• for grounded parts</li> <li>— forwards</li> <li>— upwards</li> <li>— upwards</li> <li>— 10 mm</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> <li>— at the side</li> <li>— downwards</li> <li>— for live parts</li> <li>— for live parts</li> <li>— for wards</li> <li>— upwards</li> <li>— upwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> <li>— 6 mm</li> </ul> Connections/ I Ferminals type of electrical connection for auxiliary and control circuit type of of electrical connection for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections <ul> <li>• for auxiliary contacts</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²</li> <li>— finely stranded with core end processing</li> <li>2x (20 16), 2x (18 14), 2x 12</li> </ul> Safety related data product function <ul> <li>positively driven operation according to IEC 60947-5-1</li> <li>ves</li> <li>suitable for safety function</li> <li>yes</li> </ul> suitable for safety function <ul> <li>Yes</li> </ul> suitable for safety funct	·	73 mm
forwards		
- upwards	<ul> <li>with side-by-side mounting</li> </ul>	
- downwards	— forwards	10 mm
- at the side  • for grounded parts  - forwards  - upwards  - at the side  - downwards  • for live parts  - forwards  - upwards  • for live parts  - forwards  - upwards  - downwards  - upwards  - downwards  - downwards  - downwards  - at the side  - formards  - upwards  - downwards  - at the side  - formals  - type of electrical connection for auxiliary and control circuit  - solid or stranded  - solid or stranded  - finely stranded with core end processing  • for AWG cables for auxiliary contacts  - for AWG cables for auxiliary contacts  - solid or stranded  - finely stranded with core end processing  • for AWG cables for auxiliary contacts  - solid or stranded  - finely stranded with core end processing  • for AWG cables for auxiliary contacts  - solid or stranded  - finely stranded with core end processing  • for AWG cables for auxiliary contacts  - solid or stranded  - finely stranded with core end processing  • for safety related data  - product function  • positively driven operation according to IEC 60947-5-1  • suitabile for safety function  • positively driven operation according to IEC 60947-5-1  • suitability for use safety-related switching OFF  yes  suitability for use safety-related switching OFF  yes  suitability for use safety-related switching OFF  yes  service life maximum  proportion of dangerous failures  • with low demand rate according to SN 31920  40 %	— upwards	10 mm
• for grounded parts  — forwards — upwards — at the side — downwards — of rilve parts — forwards — for live parts — forwards — to mm — upwards — to mm — upwards — forwards — forwards — upwards — upwards — upwards — upwards — upwards — to mm — upwards — the side — of mm  Connections/ Terminals  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  • for AWG cables for auxiliary contacts  2x (20 16), 2x (18 14), 2x 12  Safety related data  product function • positively driven operation according to IEC 60947-5-1 • suitable for safety function • positively driven operation according to IEC 60947-5-1 • suitable for safety function • positively driven operation according to IEC 60947-5-1 • suitable for safety function • positively driven operation according to IEC 60947-5-1 • suitable for safety function • positively driven operation according to IEC 60947-5-1 • suitable for safety function • positively driven operation according to IEC 60947-5-1 • we suitable for safety function • positively driven operation according to IEC 60947-5-1 • we suitable for safety function • positively driven operation according to IEC 60947-5-1 • we suitable for safety function • positively driven operation according to IEC 60947-5-1 • with low demand rate according to SN 31920 • 40 %	— downwards	10 mm
forwards 10 mm 10 mm upwards 10 mm at the side 6 mm downwards 10 mm downwards 10 mm downwards 10 mm downwards 10 mm upwards 10 mm upwards 10 mm upwards 10 mm at the side 6 mm downwards 10 mm at the side 6 mm downwards 10 mm at the side 6 mm downwards 10 mm at the side 10 mm downwards 10 mm at the side 10 mm downwards 10 mm at the side 10 mm	— at the side	0 mm
- upwards - at the side - downwards 10 mm  • for live parts - forwards 10 mm  - upwards 10 mm  - downwards 10 mm  - downwards 10 mm  - at the side 6 mm  Connections/ Terminals  type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts 2x (20 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (20 1.5 mm²), 2x (0.75 2.5 mm²)  • for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 2x 12  Safety related data  product function • positively driven operation according to IEC 60947-5-1 • suitable for safety function  *Yes suitability for use safety-related switching OFF yes service life maximum 20 a  proportion of dangerous failures • with low demand rate according to SN 31920  ### Office of the maximum  ###	<ul> <li>for grounded parts</li> </ul>	
- at the side 6 mm - downwards 10 mm  • for live parts - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 6 mm  Connections/ Terminals  type of electrical connection for auxiliary and control circuit screw-type terminals  type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 2x 12  Safety related data  product function • positively driven operation according to IEC 60947-5-1 Yes • suitable for safety function Yes suitability for use safety-related switching OFF Yes service life maximum 20 a  proportion of dangerous failures • with low demand rate according to SN 31920 40 %	— forwards	10 mm
- downwards • for live parts - forwards - upwards - upwards - downwards - at the side  Connections/ Terminals  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  • for AWG cables for auxiliary contacts  2x (20 16), 2x (18 14), 2x 12  Safety related data  product function • positively driven operation according to IEC 60947-5-1 • suitable for safety function  suitability for use safety-related switching OFF yes service life maximum 20 a  proportion of dangerous failures • with low demand rate according to SN 31920  40 %	— upwards	10 mm
for live parts         — forwards         — upwards         — upwards         — downwards         — at the side  Connections/ Terminals  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections         • for auxiliary contacts         — solid or stranded         — finely stranded with core end processing         • for AWG cables for auxiliary contacts  Safety related data  product function         • positively driven operation according to IEC 60947-5-1         • suitability for use safety-related switching OFF         Yes  service life maximum         20 a  proportion of dangerous failures         • with low demand rate according to SN 31920  10 mm         10 mm	— at the side	6 mm
- forwards - upwards - downwards - at the side  Connections/ Terminals  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts  • for avy cables for auxiliary contacts  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  4x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  5x (20 14), 2x 12  Safety related data  product function  • positively driven operation according to IEC 60947-5-1  • suitability for use safety-related switching OFF  yes  service life maximum  20 a  proportion of dangerous failures  • with low demand rate according to SN 31920  40 %	— downwards	10 mm
- upwards - downwards - at the side  Connections/ Terminals  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts  product function • positively driven operation according to IEC 60947-5-1 • suitablity for use safety-related switching OFF  service life maximum  proportion of dangerous failures • with low demand rate according to SN 31920  10 mm 1	<ul> <li>for live parts</li> </ul>	
- downwards - at the side  Connections/ Terminals  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  • for auxiliary contacts  - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  • for AWG cables for auxiliary contacts  2x (20 16), 2x (18 14), 2x 12  Safety related data  product function  • positively driven operation according to IEC 60947-5-1 • suitable for safety function  yes  suitability for use safety-related switching OFF  yes  service life maximum  proportion of dangerous failures • with low demand rate according to SN 31920  40 %	— forwards	10 mm
- at the side 6 mm  Connections/ Terminals  type of electrical connection for auxiliary and control circuit screw-type terminals  type of connectable conductor cross-sections  • for auxiliary contacts  - solid or stranded - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  • for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 2x 12  Safety related data  product function  • positively driven operation according to IEC 60947-5-1 Yes  • suitable for safety function Yes  suitability for use safety-related switching OFF Yes  service life maximum 20 a  proportion of dangerous failures  • with low demand rate according to SN 31920 40 %	— upwards	10 mm
type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded — finely stranded with core end processing  • for AWG cables for auxiliary contacts  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  • for AWG cables for auxiliary contacts  2x (20 16), 2x (18 14), 2x 12  Safety related data  product function  • positively driven operation according to IEC 60947-5-1 • suitable for safety function  yes  suitability for use safety-related switching OFF  yes  service life maximum  proportion of dangerous failures • with low demand rate according to SN 31920  40 %	— downwards	10 mm
type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  — finely stranded with core end processing • for AWG cables for auxiliary contacts  2x (20 16), 2x (18 14), 2x 12  Safety related data  product function • positively driven operation according to IEC 60947-5-1 • suitable for safety function  yes  suitablity for use safety-related switching OFF  yes  service life maximum  20 a  proportion of dangerous failures • with low demand rate according to SN 31920  40 %	— at the side	6 mm
type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  • for AWG cables for auxiliary contacts  2x (20 16), 2x (18 14), 2x 12  Safety related data  product function  • positively driven operation according to IEC 60947-5-1 • suitable for safety function  yes  suitability for use safety-related switching OFF  yes  service life maximum  20 a  proportion of dangerous failures  • with low demand rate according to SN 31920  40 %	Connections/ Terminals	
<ul> <li>for auxiliary contacts  — solid or stranded — solid or stranded — finely stranded with core end processing — for AWG cables for auxiliary contacts  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  • for AWG cables for auxiliary contacts  2x (20 16), 2x (18 14), 2x 12  Safety related data  product function  • positively driven operation according to IEC 60947-5-1 • suitable for safety function  yes  suitability for use safety-related switching OFF  yes  service life maximum  proportion of dangerous failures  • with low demand rate according to SN 31920  40 %</li> </ul>	type of electrical connection for auxiliary and control circuit	screw-type terminals
- solid or stranded - finely stranded with core end processing - finely stranded with core end processing - for AWG cables for auxiliary contacts  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (20 16), 2x (18 14), 2x 12  Safety related data  product function - positively driven operation according to IEC 60947-5-1 - suitable for safety function  yes  suitability for use safety-related switching OFF  yes  service life maximum  proportion of dangerous failures - with low demand rate according to SN 31920  40 %	type of connectable conductor cross-sections	
- solid or stranded - finely stranded with core end processing - finely stranded with core end processing - for AWG cables for auxiliary contacts  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (20 16), 2x (18 14), 2x 12  Safety related data  product function - positively driven operation according to IEC 60947-5-1 - suitable for safety function  yes  suitability for use safety-related switching OFF  yes  service life maximum  proportion of dangerous failures - with low demand rate according to SN 31920  40 %	for auxiliary contacts	
— finely stranded with core end processing  • for AWG cables for auxiliary contacts  2x (20 1.5 mm²), 2x (0.75 2.5 mm²)  2x (20 16), 2x (18 14), 2x 12  Safety related data  product function  • positively driven operation according to IEC 60947-5-1  • suitable for safety function  suitability for use safety-related switching OFF  yes  service life maximum  20 a  proportion of dangerous failures  • with low demand rate according to SN 31920  40 %	•	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
● for AWG cables for auxiliary contacts  2x (20 16), 2x (18 14), 2x 12  Safety related data  product function  ● positively driven operation according to IEC 60947-5-1  ● suitable for safety function  suitability for use safety-related switching OFF  Yes  service life maximum  proportion of dangerous failures  ● with low demand rate according to SN 31920  40 %	<ul> <li>finely stranded with core end processing</li> </ul>	
product function		
product function		
<ul> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitable for safety function</li> <li>suitability for use safety-related switching OFF</li> <li>service life maximum</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>Yes</li> <li>Yes</li> <li>40 %</li> </ul>	-	
<ul> <li>suitable for safety function</li> <li>suitability for use safety-related switching OFF</li> <li>service life maximum</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>40 %</li> </ul>	•	Yes
suitability for use safety-related switching OFF Yes service life maximum 20 a  proportion of dangerous failures  • with low demand rate according to SN 31920 40 %		
service life maximum  proportion of dangerous failures  with low demand rate according to SN 31920  40 %	·	
proportion of dangerous failures  • with low demand rate according to SN 31920  40 %		
• with low demand rate according to SN 31920 40 %		
	-	40 %
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3RH21401AP00 Page 3/6

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100 FIT
3
Yes
Type A
IP20
finger-safe, for vertical contact from the front

**General Product Approval** 









<u>KC</u>



**EMV Functional Saftey Test Certificates** Maritime application



Type Examination Cer-

**Special Test Certific-**

Type Test Certificates/Test Report





Maritime application other











**Miscellaneous** 

other Environment Railway



Confirmation

Special Test Certific-<u>ate</u>



**Environmental Con**firmations

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information for data generation and storage

https://support.industry.siemens.com/cs/ww/en/view/109995012

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RH2140-1AP00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2140-1AP00

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RH2140-1AP00

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RH2140-1AP00&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RH2140-1AP00/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2140-1AP00&objecttype=14&gridview=view1

3RH21401AP00 Page 4/6

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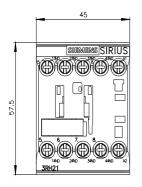
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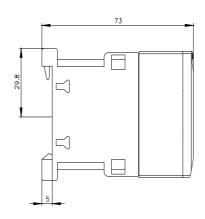
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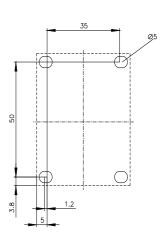
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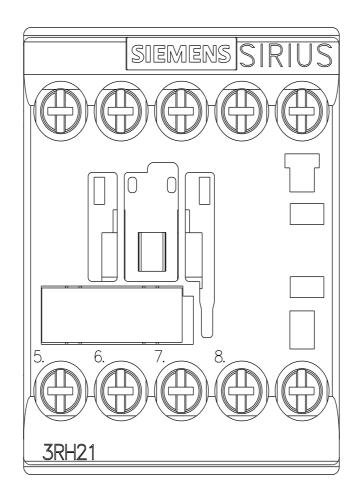
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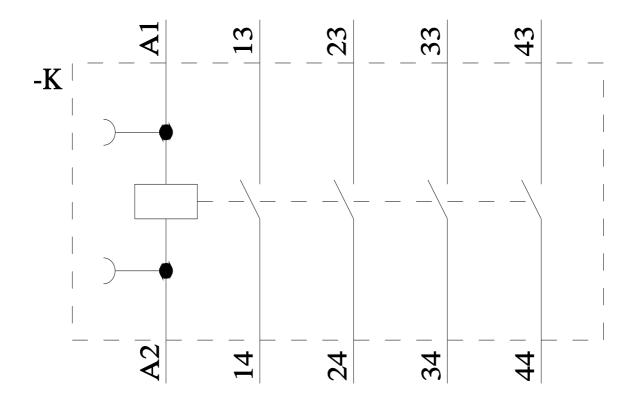
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