# **SIEMENS**

Data sheet 3RH2140-1SB40



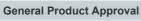
Coupling contactor relay, 4 NO 24 V DC, 0.85-1.85\*US with integrated suppressor diode Size S00 screw terminal

product brand name product designation product type designation SIRIUS
Coupling relay for switching auxiliary circuits
3RH2

product type designation	SKIIZ
General technical data	
size of contactor	S00
product extension auxiliary switch	No
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 DC	10g / 5 ms, 5g / 10 ms
shock resistance with sine pulse	
• at DC	15g / 5 ms, 8g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	30 000 000
reference code according to IEC 81346-2	К
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +50 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
no-load switching frequency	
• at AC	10 000 1/h
• at DC	10 000 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC	
• rated value	24 V
operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.85
• full-scale value	1.85
design of the surge suppressor	suppressor diode
closing power of magnet coil at DC	1.6 W
holding power of magnet coil at DC	1.6 W
closing delay	

* et IDC	100	05 400
**a TDC** archigitime	• at DC	25 120 ms
Auxiliary circuit  number of NC contacts for auxillary contacts  * instantianeous contact identification number and letter for switching elements operational current at AC-12 maximum operational current at AC-13 maximum operational current at AC-15 maximum operational current at AC-18 maximum operational current at according to the service of the servi		5 20 mg
Auxiliary circuit  number of NO contacts for auxiliary contacts instantaneous contact identification number and letter for switching operational current at AC-15  i at 230 V rated value i at 600 V rated val		
number of NO contacts for auxiliary contacts instituteness contact identification number and letter for switching elements operational current at AC-12 maximum operational current at 1 current path at DC-12  • at 240 V rated value • at 800 V rated value • at 1500 V rated value • at 240 V rated value • at 360 V		10 13 1118
mistantaneous contact   40 E		•
Identification number and letter for switching elements   operational current at AC-12 maximum   operational current at AC-15   on at 230 V rated value   3 A		
elements operational current at AC-12 maximum operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 110 V rated value • at 1400 V rated value • at 1400 V rated value • at 110 V rated value • at 100 V ra		
operational current at AC-12 maximum operational current at AC-15    at 230 V rated value at 400 V rated value 2 A at 400 V rated value 2 A at 600 V rated value 2 A at 600 V rated value 3 A A 4 150 V rated value 4 100 V rated value 5 A 150 V rated value 5 A 150 V rated value 5 A 150 V rated value 6 A 150 V rated value 7 A 150 V rated value 8 A 150 V rated value 9 A 150 V rated value 10 A 11 A		40 E
a   230 V rated value   2 A   3 A		10 A
** at 300 V rated value ** at 500 V rated value ** at 690 V rated value ** at		
** at 500 V rated value		10 A
a tit 690 V rated value  at 110 V rated value  at 440 V rated value  at 440 V rated value  at 600 V rated value  at 100 A  at 100 A  at 100 V rated value  at 100 A  at 220 V rated value  at 100 V rated value  at 600 V rated value  at 100 V rated value  at 110 V rated value  at 100 V rated value  at 400 V rated value  at	<ul><li>at 400 V rated value</li></ul>	3 A
operational current at 1 current path at DC-12	<ul> <li>at 500 V rated value</li> </ul>	2 A
* at 124 V rated value * at 110 V rated value * at 1420 V rated value * at 440 V rated value * operational current with 2 current paths in series at DC-12  * at 24 V rated value * at 60 V rated value * at 120 V rated value * at 120 V rated value * at 140 V rated value * at 110 V rated value * at 125 V rated value * at 127 V rated value * at 128 V rated value * at 129 V rated value * at 120 V rated value * at 110 V rated value * at 120 V rated value * at 120 V rated value * at 140 V rated value * at 1	<ul> <li>at 690 V rated value</li> </ul>	1 A
• at 110 V rated value • at 220 V rated value • at 440 V rated value • at 600 V rated value • at 110 V rated value • at 40 V rated value • at 40 V rated value • at 600 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 120 V rated value • at 110 V rated value • at 120 V rated value • at 100 V rated value • at 24 V rated value • at 24 V rated value • at 27 V rated value • at 100 V rated value • at 100 V rated value • at 100 V rated value • at 24 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 200 V	operational current at 1 current path at DC-12	
at 220 V rated value	at 24 V rated value	10 A
at 440 V rated value     at 600 V rated value     operational current with 2 current paths in series at DC-12      at 24 V rated value     at 600 V rated value     at 600 V rated value     at 110 V rated value     at 440 V rated value     at 440 V rated value     at 440 V rated value     at 600 V rated value     operational current with 3 current paths in series at DC-12      at 24 V rated value     at 600 V rated value     at 600 V rated value     at 100 V rated value     at 600 V rated value     at 100 V rated value     at 100 V rated value     at 200 V rated value     at 440 V rated value     at 220 V rated value     at 220 V rated value     at 24 V rated value     at 440 V rated value     at 440 V rated value     at 440 V rated value     at 600 V rated valu		
• at 600 V rated value operational current with 2 current paths in series at DC-12  • at 24 V rated value 10 A		
operational current with 2 current paths in series at DC-12  at 24 V rated value at 60 V rated value at 101 V rated value at 220 V rated value at 440 V rated value at 440 V rated value at 440 V rated value operational current with 3 current paths in series at DC-12  at 24 V rated value at 60 V rated value operational current with 3 current paths in series at DC-12  at 24 V rated value at 60 V rated value at 100 A at 440 V rated value at 100 A at 440 V rated value be at 440 V rated value at 440 V rated value at 110 V rated value at 110 V rated value at 110 V rated value at 220 V rated value at 600 V rated value		
0.0-12		U.15 A
**at 24 V rated value		
• at 60 V rated value • at 110 V rated value • at 220 V rated value • at 440 V rated value • at 600 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 440 V rated value • at 600 V rated value • at 100 V rated value • at 100 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 140 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 400 V rated value • at 600 V rated value • at 110 V rated value		10 A
• at 110 V rated value • at 220 V rated value • at 440 V rated value • at 440 V rated value • at 600 V rated value • at 110 V rated value • at 110 V rated value • at 120 V rated value • at 140 V rated value • at 440 V rated value • at 600 V rated value • at 110 V rated value • at 120 V rated value • at 140 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 110 V rated value • at 140 V rated value • at 600 V rated value		
• at 440 V rated value • at 600 V rated value operational current with 3 current paths in series at DC-12  • at 24 V rated value • at 600 V rated value • at 600 V rated value • at 110 V rated value • at 440 V rated value • at 440 V rated value • at 440 V rated value • at 600 V rated value • at 110 V rated value • at 110 V rated value • at 22 V rated value • at 110 V rated value • at 220 V rated value • at 110 V rated value • at 110 V rated value • at 40 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 440 V rated value • at 220 V rated value • at 440 V rated value • at 600 V		
e at 600 V rated value operational current with 3 current paths in series at DC-12  e at 24 V rated value e at 10 V rated value 10 A	at 220 V rated value	2 A
operational current with 3 current paths in series at DC-12  at 24 V rated value at 60 V rated value 10 A at 110 V rated value 10 A at 220 V rated value 3.6 A at 240 V rated value 3.6 A at 240 V rated value 3.6 A at 440 V rated value 4.8 A operating frequency at DC-12 maximum operational current at 1 current path at DC-13  at 24 V rated value 4.1 10 V rated value 5.3 A 5.3 A 5.4 A 5.5 A 5.5 A 5.6 A 5.7 A	• at 440 V rated value	1.3 A
DC-12	<ul><li>at 600 V rated value</li></ul>	0.65 A
• at 60 V rated value • at 110 V rated value • at 220 V rated value • at 440 V rated value • at 440 V rated value • at 600 V rated value • at 110 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 110 V rated value • at 110 V rated value • at 600 V rated value		
<ul> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>operating frequency at DC-12 maximum</li> <li>operational current at 1 current path at DC-13</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li></ul>	at 24 V rated value	10 A
<ul> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>operating frequency at DC-12 maximum</li> <li>operating frequency at DC-12 maximum</li> <li>operating I current at 1 current path at DC-13</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 400 V rated value</li> <li>at 600 V rated value</li> <li>operational current with 2 current paths in series at DC-13</li> <li>at 24 V rated value</li> <li>operational current with 2 current paths in series at DC-13</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 60 V rated value</li> <li>at 70 A</li> <li>at 70 A</li></ul>	<ul> <li>at 60 V rated value</li> </ul>	10 A
<ul> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>operating frequency at DC-12 maximum</li> <li>operational current at 1 current path at DC-13</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>on 14 40 V rated value</li> <li>on 14 40 V rated value</li> <li>operational current with 2 current paths in series at DC-13</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 10 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 10 A</li> <li>at 220 V rated value</li> <li>at 10 A</li> <li>at 24 V rated value</li> <li>at 10 A</li> <li>at 24 V rated value</li> <li>at 10 A</li> <li>at 24 V rated value</li> <li>at 10 A</li> <li>at 10 A</li> <li>at 24 V rated value</li> <li>at 10 A</li> <li>at 10 V rated value</li> <li>at 10 A</li> <li>at 110 V rated value</li> <li>at 12 A</li> <li>at 14 V rated value</li> <li>at 12 A</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 100 1/h</li> <li>c C characteristic: 6 A; 0.4 kA</li> <li>contact reliability of auxiliary contacts</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> </ul>	• at 110 V rated value	10 A
• at 600 V rated value  operating frequency at DC-12 maximum operational current at 1 current path at DC-13  • at 24 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 24 V rated value • at 600 V rated value • at 100 V rated value • at 200 V rated value • at 600 V rated value • at 60 V rated value • at 100 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 440 V rated value • at 600	at 220 V rated value	3.6 A
operating frequency at DC-12 maximum operational current at 1 current path at DC-13  • at 24 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value  • at 24 V rated value • at 600 V rated value  operational current with 2 current paths in series at DC-13  • at 24 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 440 V rated value • at 440 V rated value • at 220 V rated value • at 600 V rated value • at 110 V rated value • at 600 V rated		
operational current at 1 current path at DC-13  at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value operational current with 2 current paths in series at DC-13  at 24 V rated value at 60 V rated value at 60 V rated value at 60 V rated value at 220 V rated value at 220 V rated value at 220 V rated value at 440 V rated value at 40 V rated value at 220 V rated value at 400 V rated value at 600 V rated value at 400 V rated value at 600 V ra		
<ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 10 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 200 V rated value</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 24 V rated value</li> <li>at 10 A</li> <li>at 24 V rated value</li> <li>at 10 V rated value</li> <li>at 20 V rat</li></ul>		1 000 1/h
<ul> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 440 V rated value</li> <li>at 60 V rated value</li> <li>at 24 V rated value</li> <li>at 20 V rated value</li> <li>at 20 V rated value</li> <li>at 10 V rated value</li> <li>at 10 V rated value</li> <li>at 20 V rated value</li> <li>at 600 V rated valu</li></ul>		40.4
<ul> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>operational current with 2 current paths in series at DC-13</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 20 V rated value</li> <li>at 440 V rated value</li> <li>at 40 V rated value</li> <li>at 60 V rated value</li> <li>at 7 A</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 7 A</li> <li>at 7 A<td></td><td></td></li></ul>		
<ul> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>operational current with 2 current paths in series at DC-13</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 70 A</li> <li>at 7</li></ul>		
operational current with 2 current paths in series at DC-13      o at 24 V rated value     o at 60 V rated value     o at 110 V rated value     o at 220 V rated value     o at 440 V rated value     o at 600 V rated value     o at 440 V rated value     o at 600 V rated value     o at 600 V rated value     o at 600 V rated value     operational current with 3 current paths in series at DC-13      o at 24 V rated value     o at 110 V rated value     o at 110 V rated value     o at 110 V rated value     o at 440 V rated value     o at 460 V rated value     o at 600 V rated value		
operational current with 2 current paths in series at DC-13  • at 24 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value  operational current with 3 current paths in series at DC-13  • at 24 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated va		
<ul> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 10 A</li> <li>at 10 A</li> <li>at 24 V rated value</li> <li>at 20 V rated value</li> <li>at 10 A</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated</li></ul>	operational current with 2 current paths in series at	V.I A
<ul> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 24 V rated value</li> <li>at 100 V rated value</li> <li>at 100 V rated value</li> <li>at 100 V rated value</li> <li>at 200 V rated value</li> <li>at 440 V rated value</li> <li>at 4600 V rated value</li> <li>at 600 V rated value</li> <li>a</li></ul>		10 A
<ul> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>operational current with 3 current paths in series at DC-13</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 700 A</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 700 V rated value</li> <li>at</li></ul>		
<ul> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>operational current with 3 current paths in series at DC-13</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 200 V rated value</li> <li>at 200 V rated value</li> <li>at 3 A</li> <li>at 200 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 70 A</li> <li>at 60 A</li> <li>at 70 A</li> <li>at 70</li></ul>		
<ul> <li>at 600 V rated value</li> <li>operational current with 3 current paths in series at DC-13</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>oz6 A</li> <li>operating frequency at DC-13 maximum</li> <li>design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V</li> <li>contact reliability of auxiliary contacts</li> <li>0.1 A</li> <li>0.2 A</li> <li>0.2 A</li> <li>0.26 A</li> <li>0.26 A</li> <li>0.26 A</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> </ul>		
operational current with 3 current paths in series at DC-13  • at 24 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 440 V rated value • at 600	• at 440 V rated value	0.2 A
• at 24 V rated value     • at 60 V rated value     • at 110 V rated value     • at 220 V rated value     • at 440 V rated value     • at 600 V rated v	• at 600 V rated value	0.1 A
<ul> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>oat 600 V rated value</li> <li>operating frequency at DC-13 maximum</li> <li>design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V</li> <li>contact reliability of auxiliary contacts</li> <li>4.7 A</li> <li>3 A</li> <li>1.2 A</li> <li>0.5 A</li> <li>0.26 A</li> <li>1 000 1/h</li> <li>C characteristic: 6 A; 0.4 kA</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> </ul>		
<ul> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>operating frequency at DC-13 maximum</li> <li>design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V</li> <li>contact reliability of auxiliary contacts</li> <li>3 A</li> <li>1.2 A</li> <li>0.5 A</li> <li>0.26 A</li> <li>1 000 1/h</li> <li>C characteristic: 6 A; 0.4 kA</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> </ul>	• at 24 V rated value	10 A
<ul> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>operating frequency at DC-13 maximum</li> <li>design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V</li> <li>contact reliability of auxiliary contacts</li> <li>1.2 A</li> <li>0.5 A</li> <li>1 0.00 1/h</li> <li>C characteristic: 6 A; 0.4 kA</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> </ul>	• at 60 V rated value	4.7 A
<ul> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>operating frequency at DC-13 maximum</li> <li>design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V</li> <li>contact reliability of auxiliary contacts</li> <li>0.5 A</li> <li>0.26 A</li> <li>1 000 1/h</li> <li>C characteristic: 6 A; 0.4 kA</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> </ul>	• at 110 V rated value	
<ul> <li>◆ at 600 V rated value</li> <li>Operating frequency at DC-13 maximum</li> <li>design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V</li> <li>contact reliability of auxiliary contacts</li> <li>O.26 A</li> <li>1 000 1/h</li> <li>C characteristic: 6 A; 0.4 kA</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> </ul>		
operating frequency at DC-13 maximum  design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V  contact reliability of auxiliary contacts  1 000 1/h  C characteristic: 6 A; 0.4 kA  1 faulty switching per 100 million (17 V, 1 mA)		
design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V contact reliability of auxiliary contacts  C characteristic: 6 A; 0.4 kA  1 faulty switching per 100 million (17 V, 1 mA)		
protection of the auxiliary circuit up to 230 V contact reliability of auxiliary contacts  1 faulty switching per 100 million (17 V, 1 mA)		
	protection of the auxiliary circuit up to 230 V	
UL/CSA ratings		1 faulty switching per 100 million (17 V, 1 mA)
	UL/CSA ratings	

contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link for short-circuit protection of the	fuse gL/gG: 10 A
auxiliary switch required	
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted
	forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail
height	57.5 mm
width	45 mm
depth	73 mm
required spacing	
with side-by-side mounting	40
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	40
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	
— forwards	10 mm
— upwards	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	
<ul> <li>for auxiliary contacts</li> </ul>	
<ul><li>— solid or stranded</li></ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
at 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
B10 value with high demand rate according to SN 31920	1 000 000; With 0.3 x le
proportion of dangerous failures	
with low demand rate according to SN 31920	40 %
with high demand rate according to SN 31920	73 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Certificates/ approvals	
Conoral Product Approval	





Confirmation





<u>KC</u>



EMC Function Safety/ Machin	Safety of Declaration of Conformity	Test Certificates
-----------------------------	-------------------------------------	-------------------



### Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

## Marine / Shipping













Marine / Shipping

other

Railway

**Dangerous Good** 



Confirmation



Vibration and Shock

<u>Transport Information</u>

#### **Further information**

Information on the packaging

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

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=3RH2140-1SB40

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RH2140-1SB40}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RH2140-1SB40

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

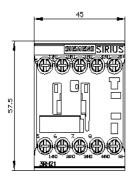
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RH2140-1SB40&lang=en

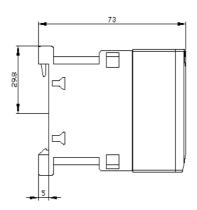
Characteristic: Tripping characteristics, I2t, Let-through current

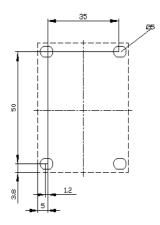
https://support.industry.siemens.com/cs/ww/en/ps/3RH2140-1SB40/char

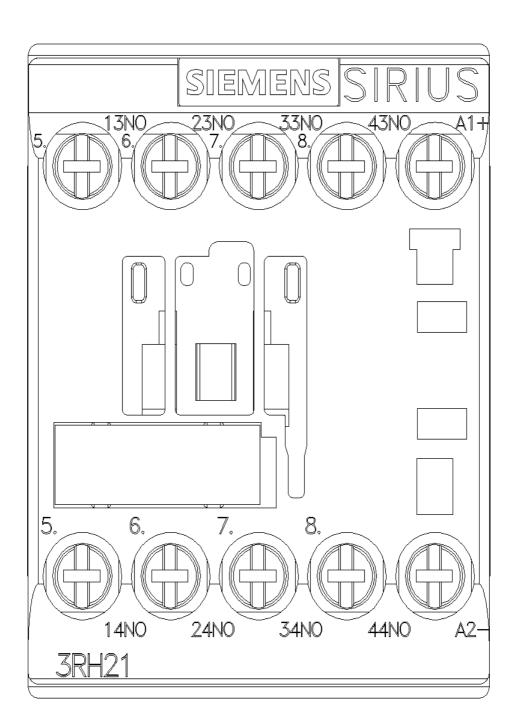
Further characteristics (e.g. electrical endurance, switching frequency)

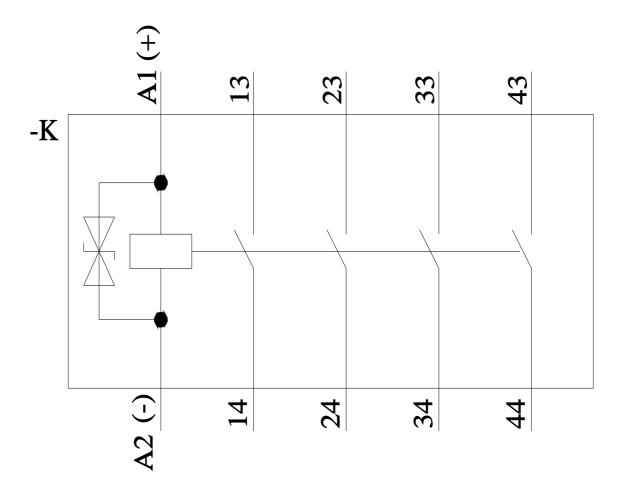
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2140-1SB40&objecttype=14&gridview=view1











last modified: 11/21/2022 🖸