## SIEMENS

## Data sheet

## 3RH2122-1KG40-0LA4



Contactor relay railway, 2 NO + 1 NC 125 V DC, 0.7 ... 1.25\* US, with integrated suppressor diode, Size S00, screw terminal installation on standard mounting rail optimized (20 G) suitable for PLC outputs

'	
product brand name	SIRIUS
product designation	Auxiliary contactor
product type designation	3RH2
General technical data	
size of contactor	S00
product extension auxiliary switch	Yes
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)	
<ul> <li>of contactor typical</li> </ul>	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
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-40 +70 °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	125 V
operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.7
• full-scale value	1.25
design of the surge suppressor	suppressor diode

Indecting sever of magnet coil at DC         4W           edicing delay         25130 ms           opening delay         720 m           arcing the         1015 ms           Auxiliary clock         720 m           arcing the         1015 ms           Auxiliary clock         1           Instantaneous contact         1           Instantaneous contact         2           dentification number and tetter for switching clonents         2           operational current at AC-15         1           et 200 Vrade value         2A           et 200 Vrade value         3A	closing power of magnet coil at DC	13 W
desing delayz• at DCZ20 ms• at DCZ20 ms• at DCZ20 ms• at DCT20 msAuxiliary decuti1015 msAuxiliary decuti1• instantancous contact1• instantancous contact2• instantancous contact2• instantancous contact2• instantancous contact10.A• operational current at AC-12 maximum10.A• operational current at AC-13 maximum10.A• • • • • • • • • • • • • • • • • • •	closing power of magnet coil at DC	
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17 20 msarcing time10 15 msAuxilary orout1number of NC contacts for auxilary contacts1Instantance contact2dentification number and latter for switching elements22 Eoperational current at AC-152et al. 2000 Valide Value10 Aoperational current at AC-1610operational current at AC-1710 Aoperational current at AC-1610 Aoperational current at AC-1610 Aoperational current at AC-1610 Aoperational current at AC-1710 Aoperational current at AC-1610 Aoperational current at AC-1610 Aoperational current at AC-1610 Aoperational current at AC-1610 Aoperational current at AC-1710 Aoperational current at AC-1610 Aoperational current at AC-1610 Aottact value10 Aottact value10 Aottact value0.3 Aottact value0.3 Aoperational current with 2 current paths in series at DC-12ottact value10 Aottact value10 Aoperation		25 130 ms
acciang oracut         1015 ms           Auxiliary circuit         1           Instantaneous contexts         1           Instantaneous contexts         2           Instantaneous context         2           Instantaneous context         2           operational current at AC-12 maximum         10 A           operational current at 1 current path at DC-12         10 A           • at 200 Vinted value         0.15 A           Operational current at 1 current paths in series at DC-12         10 A           • at 20 Vinted value         0.2 A <t< td=""><td></td><td></td></t<>		
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number of NC contacts for auxiliary contacts         1           • Instantaneous contact         2           • Instantaneous contact         10A           • Instantaneous contact         10A           • Instantaneous contact         1           • Instantaneous contact         10A           • Instantaneous contact and c	-	10 15 ms
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number of NO contacts for auxiliary contacts         2           • instantamenus contact         2           detentification number and letter for switching elements         22 E           operational current at AC-15         10 A           operational current at AC-15         10 A           • at 300 V rated value         10 A           • at 300 V rated value         2 A           • at 300 V rated value         2 A           • at 300 V rated value         10 A           • at 300 V rated value         10 A           • at 300 V rated value         10 A           • at 100 V rated value         10 A           • at 100 V rated value         10 A           • at 100 V rated value         0.15 A           • at 300 V rated value         0.16 A           • at 100 V rated value         10 A           • at 100 V rat	number of NC contacts for auxiliary contacts	1
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Identification number and letter for switching elements     22 E       operational current at AC-12 maximum     10 A       ext 230 V fated value     10 A       ext 230 V fated value     10 A       ext 230 V fated value     2 A       ext 230 V fated value     1 A       ext 230 V fated value     10 A       ext 230 V fated value     10 A       ext 240 V fated value     0.3 A       ext 240 V fated value     0.3 A       ext 240 V fated value     0.16 A       ext 240 V fated value     0.3 A       ext 240 V fated value     0.16 A       ext 240 V fated value     0.16 A       ext 240 V fated value     10 A       ext 240 V fated value     10 A       ext 240 V fated value     0.65 A       operational current with 3 current paths in series at DC-12     10 A       ext 240 V fated value     10 A       ext 240 V fated value <t< td=""><td>number of NO contacts for auxiliary contacts</td><td></td></t<>	number of NO contacts for auxiliary contacts	
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operational current at AC-15           • at 230 V rated value         10 A           • at 300 V rated value         3 A           • at 500 V rated value         2 A           • at 500 V rated value         1 A           operational current at 1 current path at DC-12         1 A           • at 220 V rated value         1 A           operational current with 2 current paths in series at DC-12         0 A           • at 800 V rated value         0.15 A           operational current with 2 current paths in series at DC-12         0 A           • at 800 V rated value         0.15 A           operational current with 2 current paths in series at DC-12         0 A           • at 800 V rated value         0.25 A           • at 400 V rated value         10 A           • at 400 V rated value         10 A           • at 400 V rated value         10 A           • at 400 V rated value         0.25 A           • at 400 V rated value         10 A           • at 400 V rated value         10 A           • at 400 V rated value         10 A           • at 400 V rated value	identification number and letter for switching elements	22 E
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• at 400 V rated value3 Å• at 800 V rated value2 Å• at 800 V rated value1 Å• at 24 V rated value10 Å• at 124 V rated value3 Å• at 120 V rated value3 Å• at 120 V rated value3 Å• at 220 V rated value0.3 Å• at 400 V rated value0.15 Å• operational current with 2 current paths in series at DC-120.15 Å• at 600 V rated value10 Å• at 600 V rated value0.16 Å• at 800 V rated value0.06 Å• at 800 V rated value0.66	operational current at AC-15	
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• at 680 V rated value         1 A           operational current at 1 current path at DC-12         0 A           • at 220 V rated value         3 A           • at 220 V rated value         0.3 A           • at 400 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         -           • at 240 V rated value         10 A           • at 600 V rated value         0.3 A           • at 600 V rated value         0.4 A           • at 200 V rated value         0.4 A           • at 200 V rated value         0.4 A           • at 200 V rated value         0.65 A           • at 400 V rated value         0.04 A           • at 200 V rated value         0.04 A	<ul> <li>at 400 V rated value</li> </ul>	3 A
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• at 24 V rated value         10 A           • at 110 V rated value         3 A           • at 420 V rated value         0.3 A           • at 600 V rated value         0.3 A           • at 600 V rated value         10 A           • at 600 V rated value         10 A           • at 600 V rated value         10 A           • at 60 V rated value         10 A           • at 60 V rated value         0.65 A           • or at 60 V rated value         0.65 A           • or at 60 V rated value         0.65 A           • or at 60 V rated value         0.65 A           • or at 60 V rated value         0.65 A           • or at 60 V rated value         0.65 A           • or at 60 V rated value         10 A           • at 60 V rated value         0.6 A           • at 60 V rated value         0.0 A           • at 60 V rated value         0.1 A	• at 690 V rated value	1 A
• at 110 V rated value         3 A           • at 220 V rated value         1 A           • at 460 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         • 0 A           • at 260 V rated value         10 A           • at 260 V rated value         10 A           • at 60 V rated value         2 A           • at 260 V rated value         2 A           • at 260 V rated value         2 A           • at 260 V rated value         2 A           • at 600 V rated value         2 A           • at 600 V rated value         0 A           • at 600 V rated value         10 A           • at 600 V rated value         10 A           • at 60 V rated value         10 A           • at 20 V rated value         2 S A           • at 40 V rated value         10 A </td <td>operational current at 1 current path at DC-12</td> <td></td>	operational current at 1 current path at DC-12	
• at 220 V rated value         1 A           • 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         0           • at 60 V rated value         10 A           • at 60 V rated value         0 A           • at 10 V rated value         2 A           • at 40 V rated value         0.65 A           operational current with 3 current paths in series at DC-12         0.4           • at 20 V rated value         0.65 A           operational current with 3 current paths in series at DC-12         0.4           • at 24 V rated value         10 A           • at 60 V rated value         0.65 A           operational current with 3 current paths in series at DC-12         0.4           • at 24 V rated value         10 A           • at 24 V rated value         10 A           • at 24 V rated value         10 A           • at 440 V rated value         10 A           • at 440 V rated value         10 A           • at 440 V rated value         10 A           • at 600 V rated value         0.1 A           • at 600 V rated value         0.1 A           • at 600 V rated value         0.1 A           • at 600 V rated va	• at 24 V rated value	10 A
• 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         10 A           • at 24 V rated value         10 A           • at 60 V rated value         10 A           • at 610 V rated value         2 A           • at 400 V rated value         2 A           • at 400 V rated value         0.65 A           operational current with 3 current paths in series at DC-12         0           • at 24 V rated value         10 A           • at 200 V rated value         3 B A           • at 200 V rated value         10 A           • at 220 V rated value         0.14 A           • at	• at 110 V rated value	3 A
• at 600 V rated value         0.15 A           • at 24 V rated value         10 A           • at 24 V rated value         10 A           • at 60 V rated value         10 A           • at 100 V rated value         2 A           • at 440 V rated value         13 A           • at 440 V rated value         0.65 A           • operational current with 3 current paths in series at DC-12         •           • at 24 V rated value         0.0 A           • at 600 V rated value         0.0 A           • at 60 V rated value         0.0 A           • at 24 V rated value         0.0 A           • at 26 V rated value         10 A           • at 26 V rated value         10 A           • at 26 V rated value         10 A           • at 26 V rated value         3.6 A           • at 26 V rated value         10 A           • at 26 V rated value         3.6 A           • at 26 V rated value         1000 1/h           operational current at 1 current path at DC-13         •           • at 22 V rated value         0.14 A           • at 22 V rated value         0.14 A           • at 22 V rated value         0.14 A           • at 60 V rated value         0.2A           • at 60 V rated valu	• at 220 V rated value	1 A
operational current with 2 current paths in series at DC-12• at 24 V rated value10 A• at 160 V rated value10 A• at 110 V rated value4 A• at 220 V rated value2 A• at 440 V rated value13 A• at 600 V rated value0.65 Aoperational current with 3 current paths in series at DC-120 A• at 24 V rated value10 A• at 24 V rated value10 A• at 24 V rated value10 A• at 25 V rated value10 A• at 100 V rated value10 A• at 220 V rated value25 A• at 440 V rated value25 A• at 440 V rated value25 A• at 440 V rated value10 A• at 220 V rated value3.6 A• at 240 V rated value10 A• at 220 V rated value0.3 A• at 220 V rated value0.14 A• at 220 V rated value0.2A• at 240 V rated value0.2A <td>• at 440 V rated value</td> <td>0.3 A</td>	• at 440 V rated value	0.3 A
• at 24 V rated value         10 A           • at 60 V rated value         10 A           • at 100 V rated value         2 A           • at 220 V rated value         2 A           • at 440 V rated value         0.65 A           • operational current with 3 current paths in series at DC-12         • ot 65 A           • at 24 V rated value         0.66 A           • operational current with 3 current paths in series at DC-12         • ot 66 A           • at 24 V rated value         10 A           • at 100 V rated value         10 A           • at 100 V rated value         10 A           • at 400 V rated value         10 A           • at 400 V rated value         2.5 A           • at 600 V rated value         10 A           • at 600 V rated value         10 A           • at 400 V rated value         10 A           • at 400 V rated value         10 A           • at 400 V rated value         0.14 A           • at 220 V rated value         0.2 A           • at 600 V rated value         0.2 A           • at 600 V rated value         0.2 A	• at 600 V rated value	0.15 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         13 A           • at 600 V rated value         0.65 A           • operational current with 3 current paths in series at DC-12	operational current with 2 current paths in series at DC-12	
• at 110 V rated value         4 A           • at 220 V rated value         2 A           • at 440 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 610 V rated value         10 A           • at 110 V rated value         10 A           • at 110 V rated value         10 A           • at 110 V rated value         36 A           • at 440 V rated value         2.5 A           • at 600 V rated value         2.5 A           • at 600 V rated value         1000 1/h           operating frequency at DC-12 maximum         10000 1/h           operating frequency at DC-12 maximum         10000 1/h           operational current at 1 current path at DC-13         -           • at 24 V rated value         0.3 A           • at 24 V rated value         0.14 A           • at 250 V rated value         0.14 A           • at 260 V rated value         0.0 A           • at 24 V rated value         0.2 A           • at 24 V rated value         0.1 A           • at 260 V rated value         0.2 A           • at 260 V rated value         0.2 A           • at 24 V rated value         0.2 A </td <td>• at 24 V rated value</td> <td>10 A</td>	• at 24 V rated value	10 A
• at 220 V rated value         2 A           • at 440 V rated value         0.65 A           operational current with 3 current paths in series at DC-12         • at 24 V rated value           • at 24 V rated value         10 A           • at 24 V rated value         10 A           • at 20 V rated value         0 A           • at 20 V rated value         3.6 A           • at 240 V rated value         2.5 A           • at 600 V rated value         100 1/h           operating frequency at DC-12 maximum         1000 1/h           operating requency at DC-12 maximum         0.00 1/h           operating requency at DC-12 maximum         0.00 1/h           operating requency at DC-12 maximum         0.01 A           • at 24 V rated value         0.3 A           • at 24 V rated value         0.3 A           • at 24 V rated value         0.14 A           • at 240 V rated value         0.14 A           • at 600 V rated value         0.14 A           • at 60 V rated value         0.14 A           • at 60 V rated value         0.14 A           • at 60 V rated value         0.2 A           • at 420 V rated value         0.14 A           • at 60 V rated value         0.2 A           • at 400 V rated value	• at 60 V rated value	10 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         10 A           • at 24 V rated value         10 A           • at 60 V rated value         10 A           • at 60 V rated value         10 A           • at 10 V rated value         10 A           • at 40 V rated value         3.6 A           • at 400 V rated value         3.6 A           • at 400 V rated value         1.8 A           operational current at 1 current path at DC-13         Image: Comparison 10 Pm (Comparison 10 Pm (Compar	• at 110 V rated value	4 A
• at 600 V rated value         0.65 Å           operational current with 3 current paths in series at DC-12         0           • at 24 V rated value         10 Å           • at 60 V rated value         10 Å           • at 60 V rated value         0 Å           • at 60 V rated value         3.6 Å           • at 440 V rated value         2.5 Å           • at 600 V rated value         100 1/h           operating frequency at DC-12 maximum         1000 1/h           operating frequency at DC-12 maximum         0.100 1/h           operating frequency at DC-12 maximum         1000 1/h           operating frequency at DC-13 maximum         0.100 1/h           operational current at 1 current path at DC-13         10.A           • at 240 V rated value         0.14 A           • at 240 V rated value         0.14 A           • at 600 V rated value         0.14 A           • at 600 V rated value         0.2 A           • at 600 V rated value         0.2 A           • at 400 V rated value         0.2 A           • at 400 V rated value         0.2	<ul> <li>at 220 V rated value</li> </ul>	2 A
Operational current with 3 current paths in series at DC-12• at 24 V rated value10 A• at 60 V rated value10 A• at 110 V rated value10 A• at 220 V rated value3.6 A• at 240 V rated value2.5 A• at 600 V rated value1.8 Aoperating frequency at DC-12 maximum1000 1/hoperating frequency at DC-12 maximum1000 1/hoperating frequency at DC-12 maximum0.01 A• at 24 V rated value0.3 A• at 24 V rated value0.1 A• at 240 V rated value0.1 A• at 440 V rated value0.1 A• at 240 V rated value0.1 A• at 240 V rated value0.1 A• at 200 V rated value0.2 A• at 400 V rated value0.2 A• at 200 V rated value0.2 A• at 240 V rated value0.2 A• at 240 V rated value0.2 A• at 440 V rated value0.2 A• at 440 V rated value0.4 A• at 600 V rated value0.5 A <tr <td="">• at 440</tr>	<ul> <li>at 440 V rated value</li> </ul>	1.3 A
• at 24 V rated value         10 A           • at 60 V rated value         10 A           • at 110 V rated value         36 A           • at 220 V rated value         25 A           • at 600 V rated value         18 A           operating frequency at DC-12 maximum         1000 1/h           operational current at 1 current path at DC-13	<ul> <li>at 600 V rated value</li> </ul>	0.65 A
• at 60 V rated value         10 A           • at 110 V rated value         36 A           • at 220 V rated value         36 A           • at 600 V rated value         25 A           • at 600 V rated value         18 A           operating frequency at DC-12 maximum         1000 1/h           operational current at 1 current path at DC-13         -           • at 24 V rated value         10 A           • at 220 V rated value         0.3 A           • at 220 V rated value         0.14 A           • at 600 V rated value         0.14 A           • at 600 V rated value         0.10 A           • at 220 V rated value         0.14 A           • at 600 V rated value         0.14 A           • at 600 V rated value         0.10 A           • at 600 V rated value         0.5 A           • at 40 V rated value         0.2 A           • at 60 V rated value         0.2 A           • at 600 V rated value         0.1 A           • at 600 V rated value         0.1 A           • at 600 V rated value         0.2 A           • at 600 V rated value         0.2 A           • at 600 V rated value         0.1 A           • at 600 V rated value         0.1 A           • at 600 V rated value	operational current with 3 current paths in series at DC-12	
• 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         1000 1/h           operating frequency at DC-12 maximum         1000 1/h           operating frequency at 0.5 Parking         1000 1/h           operating frequency at 0.5 Parking         100 A           • at 24 V rated value         10 A           • at 220 V rated value         0.3 A           • at 440 V rated value         0.14 A           • at 600 V rated value         0.14 A           • at 600 V rated value         0.10 A           • at 600 V rated value         0.10 A           • at 600 V rated value         0.10 A           • at 600 V rated value         0.2 A           • at 600 V rated value         0.2 A           • at 40 V rated value         0.2 A           • at 400 V rated value         0.1 A           • at 600 V rated value         0.2 A           • at 400 V rated value         10 A	<ul> <li>at 24 V rated value</li> </ul>	10 A
• at 220 V rated value         3.6 A           • at 400 V rated value         2.5 A           • at 6000 V rated value         1.8 A           operating frequency at DC-12 maximum         1000 1/h           operational current at 1 current path at DC-13	• at 60 V rated value	10 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         -           • at 24 V rated value         10 A           • at 24 V rated value         1 A           • at 20 V rated value         0.3 A           • at 220 V rated value         0.14 A           • at 600 V rated value         0.14 A           • at 600 V rated value         0.1 A           operational current with 2 current paths in series at DC-13         -           • at 20 V rated value         0.0 A           • at 20 V rated value         0.1 A           operational current with 2 current paths in series at DC-13         -           • at 20 V rated value         0.9 A           • at 20 V rated value         0.9 A           • at 20 V rated value         0.2 A           • at 400 V rated value         0.1 A           operational current with 3 current paths in series at DC-13         -           • at 20 V rated value         0.9 A           • at 400 V rated value         0.1 A           operational current with 3 current paths in series at DC-13         -           • at 20 V rated value         10 A	• at 110 V rated value	10 A
• at 600 V rated value1.8 Aoperating frequency at DC-12 maximum1000 1/hoperational current at 1 current path at DC-13V• at 24 V rated value10 A• at 21 V rated value10 A• at 220 V rated value0.3 A• at 400 V rated value0.14 A• at 600 V rated value0.14 A• at 600 V rated value10 A• at 600 V rated value0.14 A• at 600 V rated value0.10 A• at 220 V rated value0.9 A• at 400 V rated value0.14 A• at 220 V rated value0.14 A• at 220 V rated value0.2 A• at 220 V rated value0.2 A• at 220 V rated value0.14 A• at 220 V rated value0.14 A• at 220 V rated value0.14 A• at 220 V rated value0.2 A• at 220 V rated value0.1 A• at 220 V rated value0.1 A• at 220 V rated value3.4• at 20 V rated value3.4• at 40 V rated value3.5• at 40 V ra	at 220 V rated value	3.6 A
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operational current at 1 current path at DC-13• at 24 V rated value10 A• at 24 V rated value1 A• at 220 V rated value0.3 A• at 440 V rated value0.14 A• at 600 V rated value0.1 Aoperational current with 2 current paths in series at DC-13• at 24 V rated value10 A• at 60 V rated value10 A• at 24 V rated value0.9 A• at 220 V rated value0.9 A• at 440 V rated value0.1 A• at 600 V rated value10 A• at 600 V rated value3 A• at 600 V rated value3 A• at 440 V rated value3 A• at 440 V rated value0.5 A• at 440 V rated value0.5 A• at 600 V rated value0.26 A	at 600 V rated value	1.8 A
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e at 110 V rated value1 A• at 220 V rated value0.3 A• at 440 V rated value0.14 A• at 600 V rated value0.1 Aoperational current with 2 current paths in series at DC-1310 A• at 24 V rated value10 A• at 60 V rated value3.5 A• at 110 V rated value0.9 A• at 220 V rated value0.1 A• at 440 V rated value0.1 A• at 600 V rated value0.9 A• at 600 V rated value0.1 A• at 600 V rated value0.1 A• at 600 V rated value0.1 A• at 220 V rated value0.1 A• at 220 V rated value0.1 A• at 600 V rated value10 A• at 24 V rated value0.1 A• at 600 V rated value10 A• at 440 V rated value10 A• at 440 V rated value3 A• at 220 V rated value3 A• at 220 V rated value1.2 A• at 440 V rated value0.5 A• at 400 V rated value0.26 A	operational current at 1 current path at DC-13	
• at 220 V rated value0.3 A• at 440 V rated value0.14 A• at 600 V rated value0.1 A <b>operational current with 2 current paths in series at DC-13</b> •• at 24 V rated value10 A• at 60 V rated value3.5 A• at 110 V rated value0.9 A• at 220 V rated value0.1 A• at 240 V rated value0.9 A• at 600 V rated value0.1 A• at 600 V rated value0.1 A• at 600 V rated value0.1 A• at 200 V rated value0.1 A• at 200 V rated value0.1 A• at 200 V rated value0.1 A• at 600 V rated value0.1 A• at 200 V rated value10 A• at 400 V rated value3 A• at 4110 V rated value3 A• at 220 V rated value0.5 A• at 440 V rated value0.5 A• at 600 V rated value0.26 A	• at 24 V rated value	10 A
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• at 24 V rated value       10 A         • at 60 V rated value       3.5 A         • at 110 V rated value       1.3 A         • at 220 V rated value       0.9 A         • at 440 V rated value       0.2 A         • at 600 V rated value       0.1 A         operational current with 3 current paths in series at DC-13       10 A         • at 24 V rated value       10 A         • at 60 V rated value       3 A         • at 20 V rated value       3 A         • at 200 V rated value       0.5 A         • at 400 V rated value       0.5 A         • at 600 V rated value       0.26 A	• at 600 V rated value	0.1 A
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• at 110 V rated value3 A• at 220 V rated value1.2 A• at 440 V rated value0.5 A• at 600 V rated value0.26 A		10 A
• at 110 V rated value3 A• at 220 V rated value1.2 A• at 440 V rated value0.5 A• at 600 V rated value0.26 A		
• at 220 V rated value1.2 A• at 440 V rated value0.5 A• at 600 V rated value0.26 A		
at 440 V rated value     0.5 A     0.26 A		
at 600 V rated value     0.26 A		
operating trequency at DC-13 maximum 1 000 1/h	operating frequency at DC-13 maximum	1 000 1/h

design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V	C characteristic: 6 A; 0.4 kA		
contact reliability of auxiliary contacts	1 faulty switching per 100 millio	on (17 V 1 mA)	
UL/CSA ratings	r idulty ownorming por roo minic	, i i i i i i i i i i i i i i i i i i i	
contact rating of auxiliary contacts according to UL	A600 / Q600		
Short-circuit protection	A0007 Q000		
design of the fuse link for short-circuit protection of the auxiliary	fuse gL/gG: 10 A		
switch required	luse gl/go. To A		
Installation/ mounting/ dimensions			
mounting position	+/-180° rotation possible on ve	rtical mounting surface; car	be tilted forward and
	backward by +/- 22.5° on vertic	cal mounting surface	
fastening method	screw and snap-on mounting o	onto 35 mm DIN rail	
height	57.5 mm		
width	45 mm		
depth	117 mm		
required spacing			
<ul> <li>with side-by-side mounting</li> </ul>			
— forwards	10 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	0 mm		
<ul> <li>for grounded parts</li> </ul>			
— 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			
for auxiliary contacts			
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75	$2.5 \text{ mm}^2$ ) $2 \text{ x } 4 \text{ mm}^2$	
<ul> <li>— finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2x (0.5 1.5 mm²), 2x (0.75		
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (0.3 1.3 min ), 2x (0.7 3 2x (20 16), 2x (18 14), 2x		
Safety related data	28 (20 10), 28 (10 14), 28	12	_
	Vac		
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	20 a		
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	-		
General Product Approval			
		<u>KC</u>	EHC

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RCM	<u>Type Examination Cer-</u> <u>tificate</u>	CE EG-Konf.	UK CA	Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>			
Marine / Shipping								
ABS	BUREAU VERITAS		Lloyd's Register us	PRS	RINA			
Marine / Shipping	other		Railway		Dangerous Good			
KMRS	<u>Confirmation</u>	DE VDE	Vibration and Shock	Special Test Certific- ate	Transport Information			
Further information Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business								
Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875								
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https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RH2122-1KG40-0LA4

Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2122-1KG40-0LA4

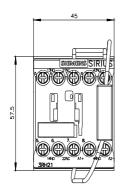
Service&Support industry siemens.com/cs/ww/en/ps/3RH2122-1KG40-0LA4 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

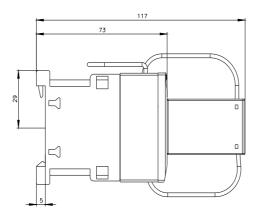
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RH2122-1KG40-0LA4&lang=en

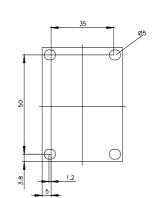
Characteristic: Tripping characteristics, I2t, Let-through current

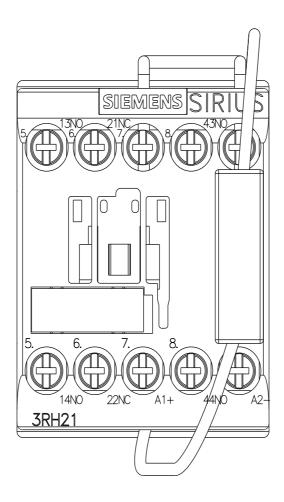
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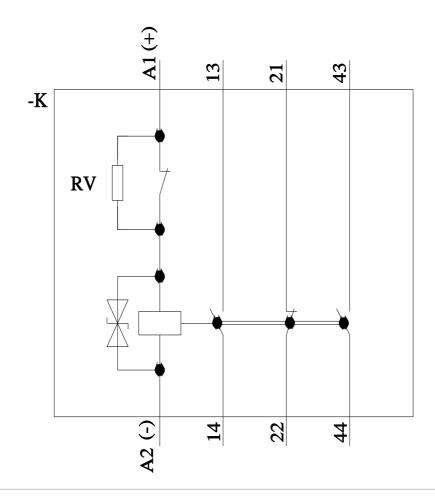
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2122-1KG40-0LA4&objecttype=14&gridview=view1











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