# **SIEMENS**

#### **Data sheet**

3RH2140-2XF40-0LA2



Contactor relay for railway 4 NO DC 72-125V, 0.7...1.25\*US, with integrated varistor Size S00, Spring-type terminal suitable for PLC outputs

SIRIUS
Contactor relay for railway applications
3RH2
S00
Yes
0.75 W
690 V
6 kV
10g / 5 ms, 5g / 10 ms
15g / 5 ms, 8g / 10 ms
30 000 000
5 000 000
10 000 000
K
10/01/2009
2 000 m
-40 +70 °C
-55 +80 °C
10 %
95 %
1 500 1/h
DC
72 125 V
0.7
0.7 1.25

Intrust current peak   1,1 A		
Incident of current mean value   0.04 A   0.04	inrush current peak	1.1 A
Inchange Control Technology   250 ms	duration of inrush current peak	50 μs
duration of locked-rotor current   200 ms	locked-rotor current mean value	0.04 A
Aciding current mean value   7 m/A	locked-rotor current peak	0.04 A
closing power of magnet coil at DC   0,75 W	duration of locked-rotor current	250 ms
A coloring power of magnet coil at DC   0.75 W	holding current mean value	7 mA
closing delay	closing power of magnet coil at DC	4.5 W
	holding power of magnet coil at DC	0.75 W
opening delay a IDC         45 45 ms           a recigitation         10 15 ms           residual current of the electronics for control with signal -00- at DC at 22 v funximum permissible         10 mA           Autotitury circuit           Funding recipitation of the properties of a suciliary contacts         4           a instantaneous contact         4           dentification number and lotter for switching elements         40 E           operational current at AC-12 maximum         10 A           a at 1200 V rated value         3 A           a at 1500 V rated value         3 A           a at 1500 V rated value         1 A           A viriated value           a 11 10 V rated value         1 A           a 12 24 V rated value         1 A           a 12 10 V rated value         1 D A           a 12 10 V rated value         1 D A           a 12 10 V rated value         1 D A           a 11 10 V rated value         1 D A           a 12 10 V rated value         1 D A           a 12 24 V rated value         1 D A           a 11 10 V rated value <th>closing delay</th> <th></th>	closing delay	
a circl grime residual current of the electronics for control with signal <0> at DC at 24 v maximum permissible  Variativity of cross to a sulliary contacts a instantaneous contact 4  dentification number and letter for switching elements operational current at AC-12 maximum 0 at 230 V rated value a at 300 V rated value b at 300 V rated value a at 300 V rated value a at 300 V rated value b at 300 V rated value a at 300 V rated value a at 300 V rated value b at 300 V rated value a at 300 V rated value a at 300 V rated value b at 300 V rated value a at 300 V rated value b at 300 V rated value b at 300 V rated value a at 400 V rated value b at 300 V rated value a at 400 V rated value b at 300 V rated valu	• at DC	30 70 ms
arcing time   10 15 ms   10 mA	opening delay	
10 mA   20 m	• at DC	25 45 ms
DC at 24 V maximum permissible  Auxiliary circuit  number of NO contacts for auxiliary contacts  • instantaneous contact  (dentification number and letter for switching elements operational current at AC-15 maximum  operational current at AC-15 maximum  operational current at AC-16 maximum  operational current at AC-18 maximum  at 400 V rated value  at 400 V rated value  at 1690 V rated value  at 1290 V rated value  at 1200 V rated value  at 220 V rated value  at 220 V rated value  at 100 A  at 110 V rated value  at 220 V rated value  at 24 V rated value  at 25 V rated value  at 26 V rated value  at 27 V rated value  at 28 V rated value  at 36 V rated value  at 36 V rated value  at 36 V rated v		
Number of NO contacts for auxiliary contacts   4     Initiantaneous contact   4     Initian	DC at 24 V maximum permissible	10 mA
inisinalnaneous contact   4   Identification number and letter for switching elements   40   E	-	
Identification number and letter for switching elements   0.6	-	
operational current at AC-12 maximum         10 A           operational current at AC-15         ***           *** at 300 V rated value         3 A           *** at 500 V rated value         1 A           *** at 500 V rated value         1 A           *** at 500 V rated value         1 A           *** at 12 4 V rated value         3 A           *** at 12 20 V rated value         3 A           *** at 22 20 V rated value         1 A           *** at 44 0 V rated value         0.3 A           *** at 600 V rated value         0.15 A           *** at 24 V rated value         10 A           *** at 20 V rated value         10 A           *** at 20 V rated value         4 A           *** at 20 V rated value         2 A           *** at 20 V rated value         1.3 A           *** at 20 V rated value         1.3 A           *** at 20 V rated value         1.0 A           *** at 24 V rated value         10 A           *** at 20 V rated value <td></td> <td></td>		
Operational current at AC-15   • at 230 V rated value		
	<u> </u>	10 A
• at 400 V rated value         2 A           • at 500 V rated value         1 A           • at 500 V rated value         1 A           • at 24 V rated value         10 A           • at 220 V rated value         3 A           • at 220 V rated value         0.3 A           • at 400 V rated value         0.35 A           • at 600 V rated value         0.15 A           • operational current with 2 current paths in series at DC-12         10 A           • at 80 V rated value         10 A           • at 80 V rated value         4 A           • at 110 V rated value         2 A           • at 220 V rated value         0.65 A           • at 440 V rated value         0.65 A           • at 24 V rated value         0.65 A           • at 24 V rated value         10 A           • at 24 V rated value         10 A           • at 110 V rated value         10 A           • at 22 V rated value         10 A           • at 220 V rated value         10 A           • at 220 V rated value         2.5 A           • at 440 V rated value         2.5 A           • at 220 V rated value         10 A           • at 220 V rated value         0.3 A           • at 220 V rated value <td< td=""><td>-</td><td></td></td<>	-	
at 500 V rated value     at 600 V rated value     at 600 V rated value     at 24 V rated value     at 26 00 V rated value     at 26 00 V rated value     at 26 00 V rated value     at 24 V rated value     at 25 V rated value     at 26 00 V rated value     at 26 00 V rated value     at 27 V rated value     at 27 V rated value     at 28 V rated value     at 60 V rated value     at 60 V rated value     at 60 V rated value     at 20		
• at 690 V rated value		
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         0.3 A           at 460 V rated value         0.15 A           operational current with 2 current paths in series at DC-12         10 A           at 60 V rated value         10 A           at 160 V rated value         10 A           at 170 V rated value         2 A           at 140 V rated value         1.3 A           at 220 V rated value         0.65 A           operational current with 3 current paths in series at DC-12         10 A           at 600 V rated value         0.85 A           operational current with 3 current paths in series at DC-12         10 A           at 860 V rated value         10 A           at 860 V rated value         10 A           at 860 V rated value         2.5 A           at 440 V rated value         1.8 A           operating frequency at DC-12 maximum         1000 I/h           operating frequency at DC-12 maximum         1000 I/h           operating frequency at DC-12 maximum         10 A           at 24 V rated value         1.0 A           at 220 V rated value         1.0 A           at 110 V rated value         1.		
at 24 V rated value     at 110 V rated value     at 220 V rated value     at 240 V rated value     at 440 V rated value     at 440 V rated value     at 600 V rated value     at 600 V rated value     at 600 V rated value     at 60 V rated value     at 220 V rated value     at 600 V rated value     at 220 V rated value     at 24 V rated value     at 220 V rated value     at 250 V rated value		1 A
• at 110 V rated value         1 A           • at 220 V rated value         0.3 A           • at 460 V rated value         0.15 A           • at 600 V rated value         0.15 A           • or 224 V rated value         10 A           • at 860 V rated value         10 A           • at 220 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         0.65 A           • at 220 V rated value         10 A           • at 24 V rated value         10 A           • at 60 V rated value         10 A           • at 110 V rated value         3.6 A           • at 220 V rated value         2.5 A           • at 220 V rated value         1.8 A           • operating frequency at DC-12 maximum         1000 I/h           operating frequency at DC-12 maximum         1000 I/h           operating frequency at Dc-12 maximum         10 A           • at 220 V rated value         1.8 A           • at 220 V rated value         1.0 A           • at 220 V rated value         0.3 A           • at 220 V rated value         0.14 A           • at 24 V rated value         0.14 A </td <td></td> <td>40.4</td>		40.4
1 A   3 A   40 V rated value   0.3 A   0.5 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         1 24 V rated value           • at 26 0 V rated value         10 A           • at 110 V rated value         4 A           • at 220 V rated value         2 A           • at 4440 V rated value         1.3 A           • at 600 V rated value         0.85 A           operational current with 3 current paths in series at DC-12         10 A           • at 24 V rated value         10 A           • at 34 V rated value         10 A           • at 440 V rated value         10 A           • at 440 V rated value         2.5 A           • at 440 V rated value         2.5 A           • at 600 V rated value         1.8 A           operational current at 1 current path at DC-13         1.8 A           operational current at 1 current path at DC-13         1.4 A           • at 220 V rated value         0.3 A           • at 220 V rated value         0.1 A           • at 220 V rated value         0.3 A           • at 220 V rated value         0.1 A           • at 220 V rated value         0.1 A           • at 360 V rated value         0.1 A           • at 600		
• 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 110 V rated value         4 A           • at 220 V rated value         2 A           • at 400 V rated value         0.85 A           • at 600 V rated value         0.85 A           operational current with 3 current paths in series at DC-12         10 A           • at 60 V rated value         10 A           • at 110 V rated value         10 A           • at 220 V rated value         3.8 A           • at 440 V rated value         2.5 A           • at 600 V rated value         1.8 A           • at 600 V rated value         1.8 A           • perating frequency at DC-12 maximum         1000 1/h           operational current at 1 current path at DC-13         10 A           • at 24 V rated value         1.0 A           • at 24 V rated value         0.3 A           • at 24 V rated value         0.1 A           • at 600 V rated value		
A comparational current with 2 current paths in series at DC-12     at 124 V rated value		
at 24 V rated value     at 60 V rated value     at 120 V rated value     at 120 V rated value     at 220 V rated value     at 240 V rated value     at 440 V rated value     at 600 V rated value     at 60 V rated value     at 22 V rated value     at 600 V rated value     at 22 V rated value     at 22 V rated value     at 24 V rated value     at 60 V rated value     at 24 V rated value     at 20 V rated value     at 60 V rated value     at 40 V rated		0.15 A
• at 60 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 440 V rated value • at 600 V rated value • at 60 V rated value • at 60 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 110 V rated value • at 220 V rated value • at 440 V rated value • at 600 V rated value		10 Λ
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 1600 V rated value     at 1600 V rated value     at 100 V rated value     at 100 V rated value     at 110 V rated value     at 120 V rated value     at 220 V rated value     at 440 V rated value     at 600 V rated value		
at 220 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 600 V rated value     at 110 V rated value     at 40 V rated value     at 40 V rated value     at 40 V rated value     at 600 V rated value     at 110 V rated value     at 220 V rated value     at 220 V rated value     at 220 V rated value     at 600 V rated value     at 40 V rated value     at 600 V rated value     at 400 V rated value     at 400 V rated value     at 400 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 110 V rated value     • at 440 V rated value     • at 60 V rated value     • at 600 V rated value     • at 600 V rated value     • at 22 V rated value     • at 600 V rated value     • at 22 V rated value     • at 440 V rated value     • at 600 V rated value		
• 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 2.5 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  operational current at 1 current path at DC-13  • at 24 V rated value 1 A • at 220 V rated value 1 A • at 440 V rated value 1 A • at 600 V rated value 1 A • at 220 V rated value 1 A • at 440 V rated		
operational current with 3 current paths in series at DC-12  • 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 22 V rated value • at 10 V rated value • at 22 V rated value • at 24 V rated value • at 110 V rated value • at 120 V rated value • at 440 V rated value • at 440 V rated value • at 600 V rated value • at 220 V rated value • at 60 V rated value		
<ul> <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 440 V rated value</li> <li>at 600 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 110 V rated value</li> <li>at 220 V rated value</li> <li>at 24 V rated value</li> <li>at 400 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 25 A</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 4600 V rated value</li> <li>at 600 V rated value<!--</td--><td></td><td></td></li></ul>		
<ul> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>3.6 A</li> <li>at 440 V rated value</li> <li>2.5 A</li> <li>at 600 V rated value</li> <li>1.8 A</li> </ul> Operating frequency at DC-12 maximum <ul> <li>1 000 1/h</li> </ul> Operational current at 1 current path at DC-13 <ul> <li>at 24 V rated value</li> <li>at 10 A</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 240 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 25 V rated value</li> <li>at 20 V rated value</li> <li>at 460 V rated value</li> <li>at 440 V rated value</li> <li>at 500 V rated value</li> </ul>	•	10 A
<ul> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>3.6 A</li> <li>at 440 V rated value</li> <li>2.5 A</li> <li>at 600 V rated value</li> <li>1.8 A</li> </ul> Operating frequency at DC-12 maximum <ul> <li>1 000 1/h</li> </ul> Operational current at 1 current path at DC-13 <ul> <li>at 24 V rated value</li> <li>at 10 A</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 240 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 25 V rated value</li> <li>at 20 V rated value</li> <li>at 460 V rated value</li> <li>at 440 V rated value</li> <li>at 500 V rated value</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>1.8 A</li> </ul> Operating frequency at DC-12 maximum       1 000 1/h       Operational current at 1 current path at DC-13 <ul> <li>at 24 V rated value</li> <li>at 24 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 600 V rated value</li> </ul> 0.14 A <ul> <li>at 24 V rated value</li> <li>at 250 V rated value</li> <li>at 250 V rated value</li> <li>at 240 V rated value</li> <li>at 250 V rated value</li></ul>		
<ul> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>1.8 A</li> </ul> 1.8 A       operating frequency at DC-12 maximum     1 000 1/h       operational current at 1 current path at DC-13 <ul> <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> </ul> 0.14 A           operational current with 2 current paths in series at DC-13 <ul> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 10 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 240 V rated value</li> <li>at 250 V rated value</li> <li>at</li></ul>	at 220 V rated value	
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 • at 600 V rated value • at 24 V rated value • at 60 V rated value • at 24 V rated value • at 25 V rated value • at 60 V rated value • at 26 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 20 V rated value • at 20 V rated value • at 3.5 A • at 110 V rated value • at 20 V rated value • at 3.5 A • at 110 V rated value • at 440 V rated value • at 440 V rated value • at 450 V rated value • at 460 V rated value • at 460 V rated value • at 47 V rated value • at 48 V rated value • at 49 V rated value • at 49 V rated value • at 40 V rated value • at 40 V rated value • at 40 V rated value • at 600 V rated value	• at 440 V rated value	2.5 A
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 • at 600 V rated value • at 24 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 220 V rated value • at 440 V rated value • at 60 V rated value • at 600 V rated value	• at 600 V rated value	1.8 A
<ul> <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 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 110 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 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</li></ul>	operating frequency at DC-12 maximum	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 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 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 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>a</li></ul>	operational current at 1 current path at DC-13	
<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 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></ul>	at 24 V rated value	10 A
<ul> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>0.1 A</li> </ul> Operational current with 2 current paths in series at DC-13 <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 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul>	• at 110 V rated value	1 A
<ul> <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 440 V rated value</li> <li>at 600 V rated value</li> </ul>	• at 220 V rated value	0.3 A
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 440 V rated value  • at 600 V rated value  operational current with 3 current paths in series at DC-13	• at 440 V rated value	0.14 A
<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 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>operational current with 3 current paths in series at DC-13</li> </ul>	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>at 600 V rated value</li> <li>operational current with 3 current paths in series at DC-13</li> </ul>	operational current with 2 current paths in series at DC-13	
<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> </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>operational current with 3 current paths in series at DC-13</li> </ul>	at 60 V rated value	
• at 440 V rated value  • at 600 V rated value  operational current with 3 current paths in series at DC-13  0.2 A  0.1 A	• at 110 V rated value	
• at 600 V rated value  operational current with 3 current paths in series at DC-13		
operational current with 3 current paths in series at DC-13		
		0.1 A
at 24 V rated value  10 A		
	at 24 V rated value	10 A

at 60 V rated value	4.7 A
at 110 V rated value	3 A
at 220 V rated value	1.2 A
• at 440 V rated value	0.5 A
at 600 V rated value	0.26 A
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 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 auxiliary switch required	fuse gL/gG: 10 A
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, standing, on horizontal mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail
side-by-side mounting	Yes
height	70 mm
width	45 mm
depth	73 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
for grounded parts	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	40
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	anning leaded terminals
type of electrical connection for auxiliary and control circuit	spring-loaded terminals
connectable conductor cross-section for auxiliary contacts  • solid or stranded	0.5 4 mm²
solid of stranded     finely stranded with core end processing	0.5 4 mm²
finely stranded with core end processing     finely stranded without core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	5.0 E.0 Hilli
for auxiliary contacts	
— solid or stranded	2x (0,5 4 mm²)
finely stranded with core end processing	2x (0.5 2.5 mm²)
finely stranded without core end processing	2x (0.5 2.5 mm²)
for AWG cables for auxiliary contacts	2x (20 12)
AWG number as coded connectable conductor cross section for auxiliary contacts	20 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
proportion of dangerous failures	
with low demand rate according to SN 31920	40 %
with high demand rate according to SN 31920	73 %
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

**General Product Approval** 

EMC



Confirmation



<u>KC</u>





Functional Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping

Type Examination Certificate





Type Test Certificates/Test Report





Marine / Shipping













Confirmation

other

other

Railway

**Dangerous Good** 



Vibration and Shock

Special Test Certificate 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

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=3RH2140-2XF40-0LA2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2140-2XF40-0LA2

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

https://support.industry.siemens.com/cs/ww/en/ps/3RH2140-2XF40-0LA2

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

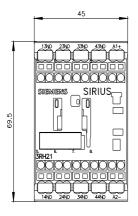
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RH2140-2XF40-0LA2&lang=en

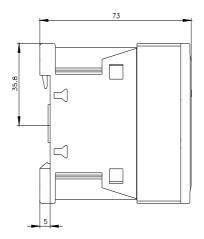
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

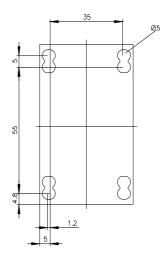
https://support.industry.siemens.com/cs/ww/en/ps/3RH2140-2XF40-0LA2/char

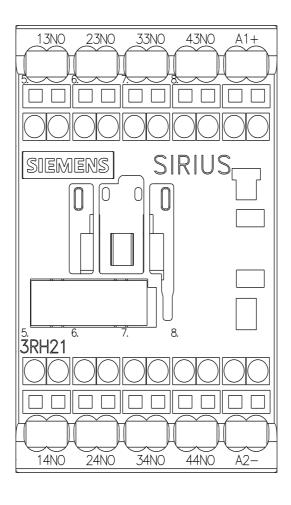
Further characteristics (e.g. electrical endurance, switching frequency)

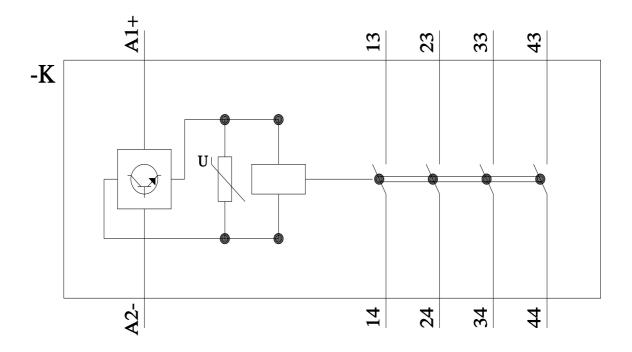
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2140-2XF40-0LA2&objecttype=14&gridview=view1











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