# **SIEMENS**

### Data sheet

# 3RT2018-2KG42-0LA0



CONT. F. RAILW. A., AC-3, 7.5KW 7.5KW/400V,DC125V,0,7...1,25\*US W.SUPPRESSORDIODE INTEGRATED, 3-POLE, SZ. S00, SPRING-LOADED TERMINAL

product brand name		SIRIUS	
Product designation		Coupling relay	
General technical data:			
Insulation voltage			
Rated value	V	690	
Degree of pollution		3	
Surge voltage resistance Rated value	kV	6	
Mechanical service life (switching cycles)			
<ul> <li>of the contactor typical</li> </ul>		30 000 000	
<ul> <li>of the contactor with added electronics-</li> </ul>		5 000 000	
compatible auxiliary switch block typical			
<ul> <li>of the contactor with added auxiliary switch</li> </ul>		10 000 000	
block typical			
Thermal short-time current restricted to 10 s	Α	128	
Protection class IP			
• on the front		IP20	
of the terminal		IP20	
Equipment marking			
● acc. to DIN EN 61346-2		Q	
• acc. to DIN EN 81346-2		Q	
Main circuit:			
Number of poles for main current circuit		3	
Number of NC contacts for main contacts		0	
Number of NO contacts for main contacts		3	
Operating voltage			

Operating current              ◆ at AC-1             — at 400 V at ambient temperature 40 °C             Rated value             — up to 690 V at ambient temperature 40 °C             Rated value             — up to 690 V at ambient temperature 60 °C             Rated value             — up to 690 V at ambient temperature 60 °C             Rated value             • at AC-2 at 400 V Rated value             • at AC-3             • at AC-3             — at 400 V Rated value             • at AC-3             — at 400 V Rated value             • at AC-3             — at 400 V Rated value             • at 890 V Rated value             • at 890 V Rated value             • at B90 V Rated value             • at 10C-1             — at 24 V Rated value             • at 110 V Rated value             • at 110 V Rated value             • at 220 V Rated value             • at 20 V Rated value             • at 110 V Rated value             • at 20 V Rated value             • at 110 V Rated value             • at 20 V Rated value             • at 20 V Rated value             • at 10C-3 t DC-5             • at 110 V Rated value             • at 24 V Rated value             • at 24 V Rated value             • at 20 V	• at AC-3 Rated value maximum	V	690
— at 400 V at ambient temperature 40 °C Rated value — up to 690 V at ambient temperature 40 °C Rated value — up to 690 V at ambient temperature 60 °C Rated value — up to 690 V at ambient temperature 60 °C Rated value — up to 690 V Rated value  ■ at AC-2 at 400 V Rated value  ■ at AC-3 — at 400 V Rated value — at 400 V Rated value — at 690 V Rated value  ■ at DC-1 — at 24 V Rated value — at 110 V Rated value — at 400 V Rated value — at 440 V Rated value — at 20 V Rated value — at 110 V Rated value — at 20 V Rated value — at 100 V Rated value — at 20 V Rated value — at 20 V Rated value — at 20 V Rated value — at 110 V Rated value — at 20 V Rat	Operating current		
Rated value — up to 690 V at ambient temperature 40 °C Rated value — up to 690 V at ambient temperature 60 °C Rated value — up to 690 V at ambient temperature 60 °C Rated value — at 140 V Rated value — at 400 V Rated value — at 500 V Rated value — at 690 V Rated value — at 11.5  Coperating current with 1 current path — at 24 V Rated value — at 110 V Rated value — at 20 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 100 V Rated value — at 100 V Rated value — at 100 V Rated value — at 110 V Rated value — at 220 V Rated value — at 110 V Rated value — at 220 V Rated value — at 24 V Rated value — at 220 V Rate	• at AC-1		
Rated value — up to 690 V at ambient temperature 60 °C Rated value  • at AC-2 at 400 V Rated value  • at AC-3 — at 400 V Rated value — at 690 V Rated value  • at AC-4 at 400 V Rated value  • at AC-4 at 400 V Rated value  • at BO V Rated value  • at AC-4 at 400 V Rated value  • at BO V Rated value  • at DC-1 — at 24 V Rated value — at 110 V Rated value — at 220 V Rated value — at 220 V Rated value — at 220 V Rated value — at 240 V Rated value — at 200 V Ra	•	Α	22
Rated value       ● at AC-2 at 400 V Rated value       A       16         • at AC-3       — at 400 V Rated value       A       16         — at 500 V Rated value       A       12.4         — at 690 V Rated value       A       8.9         • at AC-4 at 400 V Rated value       A       11.5         Operating current with 1 current path         • at DC-1       — at 24 V Rated value       A       20         — at 240 V Rated value       A       2.1         — at 220 V Rated value       A       0.6         — at 440 V Rated value       A       0.6         — at 10C-3       A       20         — at 24 V Rated value       A       0.1         — at 10 V Rated value       A       0.1         — at 24 V Rated value       A       20         — at 110 V Rated value       A       1.6         — at 220 V Rated value       A       1.6         — at 24 V Rated value       A       0.8         — at 600 V Rated value       A       0.8         — at 10 V Rated value       A       0.35         — at 24 V Rated value       A       20         • at DC-1       — at 24 V Rated value       A       20     <		Α	22
• at AC-3  — at 400 V Rated value — at 500 V Rated value — at 690 V Rated value — at 690 V Rated value — at 690 V Rated value — at 600 V Rated value  • at AC-4 at 400 V Rated value  • at DC-1 — at 24 V Rated value — at 110 V Rated value — at 220 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 600 V Rated value — at 110 V Rated value — at 100 V Rated value — at 110 V Rated value — at 24 V Rated value — at 440 V Rated value — at 440 V Rated value — at 440 V Rated value — at 24 V Rated value — at 24 V Rated value — at 440 V Rated value — at 24 V Rated value — at 250 V Rated		Α	20
- at 400 V Rated value - at 500 V Rated value - at 690 V Rated value - at 690 V Rated value  • at AC-4 at 400 V Rated value  • at AC-4 at 400 V Rated value  • at DC-1  - at 24 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 110 V Rated value - at 24 V Rated value - at 110 V Rated value - at 24 V Rated value - at 110 V Rated value - at 124 V Rated value - at 24 V Rated value - at 24 V Rated value - at 440 V Rated value - at 440 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 28 V Rated value - at 29 V Rated value - at 20 V	• at AC-2 at 400 V Rated value	Α	16
- at 500 ∨ Rated value	• at AC-3		
- at 690 ∨ Rated value  • at AC-4 at 400 ∨ Rated value  A 11.5  Operating current with 1 current path  • at DC-1  — at 24 ∨ Rated value — at 110 ∨ Rated value A 2.1  — at 220 ∨ Rated value — at 440 ∨ Rated value A 0.8  — at 440 ∨ Rated value A 0.6  — at DC-3 at DC-5  — at 24 ∨ Rated value — at 110 ∨ Rated value A 0.6  Operating current with 2 current paths in series  • at DC-1  — at 24 ∨ Rated value A 1.6  — at 440 ∨ Rated value A 1.6  — at 440 ∨ Rated value A 1.6  — at 440 ∨ Rated value A 0.8  — at 400 ∨ Rated value A 1.6  — at 400 ∨ Rated value A 0.8  — at 600 ∨ Rated value A 0.7  • at DC-3  • at DC-5  — at 110 ∨ Rated value A 0.7  • at DC-3 at DC-5  — at 24 ∨ Rated value A 0.7  • at DC-3 at DC-5  — at 110 ∨ Rated value A 0.7  • at DC-3 at DC-5  — at 24 ∨ Rated value A 0.35  — at 24 ∨ Rated value A 20  Operating current with 3 current paths in series  • at DC-1  — at 24 ∨ Rated value A 20  — at 20 ∨ Rated value A 20  — at 440 ∨ Rated value A 20	— at 400 V Rated value	Α	16
• at AC-4 at 400 V Rated value A 11.5  Operating current with 1 current path  • at DC-1  — at 24 V Rated value A 2.1  — at 220 V Rated value A 0.8  — at 440 V Rated value A 0.6  — at 600 V Rated value A 0.6  • at DC-3 at DC-5  — at 24 V Rated value A 0.1  Operating current with 2 current paths in series  • at DC-1  — at 24 V Rated value A 20  — at 110 V Rated value A 20  — at 110 V Rated value A 20  — at 110 V Rated value A 20  — at 20 V Rated value A 20  — at 110 V Rated value A 1.6  — at 20 V Rated value A 1.6  — at 440 V Rated value A 0.8  — at 400 V Rated value A 0.8  — at 20 V Rated value A 0.7  • at DC-3 at DC-5  — at 110 V Rated value A 0.7  • at DC-3 at DC-5  — at 110 V Rated value A 20  Operating current with 3 current paths in series  • at DC-1  — at 24 V Rated value A 20  Operating current with 3 current paths in series  • at DC-1  — at 24 V Rated value A 20  Operating current with 3 current paths in series  • at DC-1  — at 24 V Rated value A 20  Operating current with 3 current paths in series  • at DC-1  — at 24 V Rated value A 20  — at 20 V Rated value A 20  — at 440 V Rated value A 20	— at 500 V Rated value	Α	12.4
Operating current with 1 current path              ◆ at DC-1	— at 690 V Rated value	Α	8.9
• at DC-1  — at 24 V Rated value — at 110 V Rated value A A D.8  — at 440 V Rated value A A D.6  — at 600 V Rated value A A D.7  — at 24 V Rated value A A D.7  • at 1D V Rated value A A A A A A A A A A A A A A A A A A A	• at AC-4 at 400 V Rated value	Α	11.5
at 24 V Rated value	Operating current with 1 current path	_	
- at 110 V Rated value	• at DC-1		
- at 220 ∨ Rated value - at 440 ∨ Rated value A 0.6 - at 600 ∨ Rated value A 0.6  • at DC-3 at DC-5 - at 24 ∨ Rated value A 0.1  Operating current with 2 current paths in series  • at DC-1 - at 24 ∨ Rated value A 0.1  Operating current with 2 current paths in series  • at DC-1 - at 24 ∨ Rated value A 12 - at 110 ∨ Rated value A 12 - at 220 ∨ Rated value A 1.6 - at 440 ∨ Rated value A 0.7  • at DC-3 at DC-5 - at 110 ∨ Rated value A 0.7  • at DC-3 at DC-5 - at 110 ∨ Rated value A 0.7  • at DC-3 at DC-5 - at 110 ∨ Rated value A 0.35 - at 24 ∨ Rated value A 20  Operating current with 3 current paths in series  • at DC-1 - at 24 ∨ Rated value A 20 - at 210 ∨ Rated value A 20 - at 220 ∨ Rated value A 20 - at 240 ∨ Rated value A 3 3	— at 24 V Rated value	Α	20
— at 440 V Rated value — at 600 V Rated value A 0.6  • at DC-3 at DC-5 — at 24 V Rated value A 0.1  Operating current with 2 current paths in series • at DC-1 — at 24 V Rated value A 0.1  Operating current with 2 current paths in series • at DC-1 — at 24 V Rated value A 12 — at 110 V Rated value A 1.6 — at 440 V Rated value A 0.8 — at 600 V Rated value A 0.7  • at DC-3 at DC-5 — at 110 V Rated value A 0.35 — at 24 V Rated value A 0.35 — at 24 V Rated value A 20  Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 20  Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 20 — at 110 V Rated value A 20 — at 220 V Rated value A 20 — at 110 V Rated value A 20 — at 24 V Rated value A 20 — at 25 V Rated value A 20 — at 25 V Rated value A 20 — at 26 V Rated value A 20 — at 26 V Rated value A 20 — at 27 V Rated value A 20 — at 28 V Rated value A 20 — at 29 V Rated value A 20 — at 20 V Rated value A 20 — at 20 V Rated value A 2	— at 110 V Rated value	Α	2.1
— at 600 ∨ Rated value  • at DC-3 at DC-5  — at 24 ∨ Rated value A  20  — at 110 ∨ Rated value A  0.1  Operating current with 2 current paths in series  • at DC-1  — at 24 ∨ Rated value A  — at 110 ∨ Rated value A  — at 220 ∨ Rated value A  — at 220 ∨ Rated value A  — at 440 ∨ Rated value A  — at 600 ∨ Rated value A  • at DC-3  • at DC-5  — at 110 ∨ Rated value A  — at 24 ∨ Rated value A  • at DC-3  — at 24 ∨ Rated value A  — at 20  Operating current with 3 current paths in series  • at DC-1  — at 24 ∨ Rated value A  — at 20  — at 24 ∨ Rated value A  — at 20  — at 24 ∨ Rated value A  20  — at 24 ∨ Rated val	— at 220 V Rated value	Α	0.8
• at DC-3 at DC-5 — at 24 V Rated value A 20 Operating current with 2 current paths in series • at DC-1 — at 24 V Rated value A 20 — at 110 V Rated value A 20 — at 110 V Rated value A 12 — at 220 V Rated value A 1.6 — at 440 V Rated value A 0.8 — at 600 V Rated value A 0.7 • at DC-3 — at 110 V Rated value A 0.35 — at 110 V Rated value A 20 Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 20  Operating current with 3 current paths in series • at DC-1 — at 24 V Rated value A 20 — at 110 V Rated value A 20 — at 440 V Rated value A 20	— at 440 V Rated value	Α	0.6
at 24 V Rated value at 110 V Rated value A 0.1  Operating current with 2 current paths in series   ■ at DC-1 at 24 V Rated value at 110 V Rated value A 1.6 at 220 V Rated value A 1.6 at 440 V Rated value A 0.7  ■ at DC-3 at DC-5 at 110 V Rated value A 0.35 at 24 V Rated value A 0.35 at 24 V Rated value A 0.7  Operating current with 3 current paths in series ■ at DC-1 at 24 V Rated value A 0.35 at 20  Operating current with 3 current paths in series ■ at DC-1 at 24 V Rated value at 220 V Rated value A 20 at 110 V Rated value A 20 at 110 V Rated value A 20 at 110 V Rated value A 20 at 220 V Rated value A 20 at 220 V Rated value A 20 at 440 V Rated value A 20 at 1.3	— at 600 V Rated value	Α	0.6
— at 110 V Rated value  Operating current with 2 current paths in series	• at DC-3 at DC-5		
Operating current with 2 current paths in series         • at DC-1         — at 24 V Rated value       A       20         — at 110 V Rated value       A       12         — at 220 V Rated value       A       0.8         — at 440 V Rated value       A       0.7         • at DC-3 at DC-5       —       at 110 V Rated value       A       20         — at 24 V Rated value       A       20         Operating current with 3 current paths in series       • at DC-1       —       at 24 V Rated value       A       20         — at 110 V Rated value       A       20       —       at 220 V Rated value       A       20         — at 220 V Rated value       A       20       —       at 440 V Rated value       A       20         — at 440 V Rated value       A       20       —       at 1.3	— at 24 V Rated value	Α	20
■ at DC-1     — 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 600 V Rated value     — at 110 V Rated value     — at 110 V Rated value     — at 24 V Rated value     — at 440 V Rated value     — at 1.3	— at 110 V Rated value	Α	0.1
- at 24 V Rated value	Operating current with 2 current paths in series		
- at 110 V Rated value A 12 - at 220 V Rated value A 1.6 - at 440 V Rated value A 0.8 - at 600 V Rated value A 0.7  ● at DC-3 at DC-5 - at 110 V Rated value A 0.35 - at 24 V Rated value A 0.05  Operating current with 3 current paths in series  ● at DC-1 - at 24 V Rated value A 20 - at 110 V Rated value A 20 - at 220 V Rated value A 20 - at 220 V Rated value A 20 - at 440 V Rated value A 1.3	• at DC-1		
- at 220 V Rated value A D.8 A 0.8 A 0.7  ■ at DC-3 at DC-5 A 110 V Rated value A 0.35 A Departing current with 3 current paths in series ■ at DC-1 A A A D A A A A A A A A A A A A A A A	— at 24 V Rated value	Α	20
— at 440 V Rated value       A       0.8         — at 600 V Rated value       A       0.7         • at DC-3 at DC-5       — at 110 V Rated value       A       0.35         — at 24 V Rated value       A       20         Operating current with 3 current paths in series         • at DC-1       — at 24 V Rated value       A       20         — at 110 V Rated value       A       20         — at 220 V Rated value       A       20         — at 440 V Rated value       A       1.3	— at 110 V Rated value	Α	12
<ul> <li>— at 600 V Rated value</li> <li>■ at DC-3 at DC-5</li> <li>— at 110 V Rated value</li> <li>— at 24 V Rated value</li> <li>A 20</li> <li>Operating current with 3 current paths in series</li> <li>■ at DC-1</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 220 V Rated value</li> <li>— at 440 V Rated value</li> <li>A 20</li> <li>— at 440 V Rated value</li> <li>A 1.3</li> </ul>	— at 220 V Rated value	Α	1.6
<ul> <li>at DC-3 at DC-5         <ul> <li>at 110 V Rated value</li> <li>A 0.35</li> <li>at 24 V Rated value</li> </ul> </li> <li>Operating current with 3 current paths in series         <ul> <li>at DC-1</li> <li>at 24 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>A 20</li> <li>A 20</li> <li>A 20</li> </ul> </li> <li>A 1.3</li> </ul>	— at 440 V Rated value	Α	0.8
— at 110 V Rated value       A       0.35         — at 24 V Rated value       A       20         Operating current with 3 current paths in series         • at DC-1       — at 24 V Rated value       A       20         — at 110 V Rated value       A       20         — at 220 V Rated value       A       20         — at 440 V Rated value       A       1.3	— at 600 V Rated value	Α	0.7
<ul> <li>— at 24 V Rated value</li> <li>A 20</li> <li>Operating current with 3 current paths in series</li> <li>● at DC-1</li> <li>— at 24 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>A 20</li> <li>— at 440 V Rated value</li> <li>A 1.3</li> </ul>	• at DC-3 at DC-5		
Operating current with 3 current paths in series   • at DC-1  — at 24 V Rated value  — at 110 V Rated value  A 20  — at 220 V Rated value  A 20  — at 440 V Rated value  A 1.3	— at 110 V Rated value	Α	0.35
<ul> <li>at DC-1         <ul> <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> </ul> </li> <li>at 20 A 20 A 20 A 20 A 20 A 1.3</li> </ul>	— at 24 V Rated value	Α	20
— at 24 V Rated value       A       20         — at 110 V Rated value       A       20         — at 220 V Rated value       A       20         — at 440 V Rated value       A       1.3	Operating current with 3 current paths in series		
— at 110 V Rated value       A       20         — at 220 V Rated value       A       20         — at 440 V Rated value       A       1.3	• at DC-1		
<ul> <li>— at 220 V Rated value</li> <li>— at 440 V Rated value</li> <li>A 1.3</li> </ul>	— at 24 V Rated value	А	20
— at 440 V Rated value A 1.3	— at 110 V Rated value	Α	20
	— at 220 V Rated value	Α	20
— at 600 V Rated value A 1	— at 440 V Rated value	Α	1.3
	— at 600 V Rated value	Α	1

• at DC-3 at DC-5		
— at 110 V Rated value	Α	20
— at 220 V Rated value	Α	1.5
— at 24 V Rated value	Α	20
— at 440 V Rated value	Α	0.2
— at 600 V Rated value	Α	0.2
Operating power		
● at AC-1 at 400 V Rated value	kW	13
● at AC-2 at 400 V Rated value	kW	7.5
● at AC-4 at 400 V Rated value	kW	5.5
Operating power		
• at AC-1		
— at 230 V at 60 °C Rated value	kW	7.5
— at 230 V Rated value	kW	7.5
— at 400 V at 60 °C Rated value	kW	13
— at 690 V at 60 °C Rated value	kW	22
— at 690 V Rated value	kW	22
• at AC-3		
— at 230 V Rated value	kW	4
— at 400 V Rated value	kW	7.5
— at 690 V Rated value	kW	7.5
Operating power for ≥ 200000 operating cycles at AC-4		
at 400 V Rated value	kW	2.5
at 690 V Rated value	kW	3.5
Operating frequency		
• at AC-3 maximum	1/h	750
Control circuit/ Control:		
Type of voltage of the control supply voltage		DC
Control supply voltage for DC		405
Rated value	V	125
Operating range factor control supply voltage rated value of the magnet coil for DC		0.7 1.25
Design of the surge suppressor		with suppressor diode
Closing power of the magnet coil for DC	W	13
Holding power of the magnet coil for DC	W	4
Auxiliary circuit:		
Number of NC contacts		
for auxiliary contacts		
— instantaneous contact		0
Number of NO contacts		

• for auxiliary contacts		
— instantaneous contact		0
Product expansion Auxiliary switch		Yes
Operating current at AC-15		
at 230 V Rated value	Α	10
● at 400 V Rated value	Α	3
at 690 V Rated value	Α	1
Operating current		
at DC-12 at 125 V Rated value	Α	2
• at DC-12 at 220 V Rated value	Α	1
● at DC-12 at 600 V Rated value	Α	0.15
at DC-13 at 125 V Rated value	Α	0.9
• at DC-13 at 220 V Rated value	Α	0.3
• at DC-13 at 600 V Rated value	Α	0.1
Operating current		
● at DC-12		
— at 60 V Rated value	Α	6
— at 110 V Rated value	Α	3
● at DC-13		
— at 24 V Rated value	Α	10
— at 60 V Rated value	Α	2
— at 110 V Rated value	Α	1
Contact reliability of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
● at 480 V Rated value	Α	14
at 600 V Rated value	Α	11
yielded mechanical performance [hp]		
<ul> <li>for single-phase AC motor at 110/120 V Rated value</li> </ul>	metric hp	1
<ul> <li>for single-phase AC motor at 230 V Rated value</li> </ul>	metric hp	2
• for three-phase AC motor at 200/208 V Rated	metric	3
value	hp	

hp

hp

metric

metric hp

Short-circuit:

value

value

• for three-phase AC motor at 460/480 V Rated

• for three-phase AC motor at 575/600 V Rated

Contact rating of the auxiliary contacts acc. to UL

10

10

A600 / Q600

#### Design of the fuse link

- for short-circuit protection of the main circuit
  - with type of assignment 1 required
  - with type of assignment 2 required

• for short-circuit protection of the auxiliary switch required

gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20 A

fuse gL/gG: 10 A

mounting position		+/-180° rotation possible on vertical mounting
		surface; can be tilted forward and backward by +/-
		22.5° on vertical mounting surface
Mounting type		screw and snap-on mounting onto 35 mm standard
		mounting rail according to DIN EN 50022
Side-by-side mounting		Yes
Height	mm	69.5
Width	mm	45
Depth	mm	121
Required spacing		
<ul><li>with side-by-side mounting</li></ul>		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— downwards	mm	0
— at the side	mm	0
• for grounded parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— at the side	mm	6
— downwards	mm	0
• for live parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— downwards	mm	0
— at the side	mm	6

Connections/ Terminals:	
Type of electrical connection	
• for main current circuit	spring-loaded terminals
<ul> <li>for auxiliary and control current circuit</li> </ul>	spring-loaded terminals
Type of connectable conductor cross-section	

• for main contacts	
— single or multi-stranded	2x (0,5 4 mm²)
— finely stranded with core end processing	2x (0.5 2.5 mm²)
— finely stranded without core end	2x (0.5 2.5 mm²)
processing	
<ul> <li>for AWG conductors for main contacts</li> </ul>	2x (20 12)
for auxiliary contacts	
<ul> <li>single or multi-stranded</li> </ul>	2x (0,5 4 mm²)
— finely stranded with core end processing	2x (0.5 2.5 mm²)
— finely stranded without core end	2x (0.5 2.5 mm²)
processing	
<ul> <li>for AWG conductors for auxiliary contacts</li> </ul>	2x (20 12)

Safety related data:				
B10 value with high demand rate acc. to SN 31920		1 000 000		
Proportion of dangerous failures				
• with low demand rate acc. to SN 31920	%	40		
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	%	73		
Failure rate [FIT] with low demand rate acc. to SN 31920	FIT	100		
Product function Mirror contact acc. to IEC 60947-4-1		Yes		
T1 value for proof test interval or service life acc. to IEC 61508	У	20		
Protection against electrical shock		finger-safe		
Mechanical data:				
Size of contactor		S00		

2 000
-40 +70
Railway application: See catalog for rated conditions
-55 <b>+</b> 80

# Certificates/ approvals:

#### **General Product Approval**

**Functional** Safety/Safety of Machinery

**Declaration of** Conformity









Type Examination



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#### **Shipping Approval**

### Certificates















LRS

### **Shipping Approval**

#### other







Confirmation

Environmental Confirmations



#### Further information

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

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

#### Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT20182KG420LA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RT20182KG420LA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT20182KG420LA0&lang=en





