## **SIEMENS**

### Data sheet

## 3RT2017-2KF42-1LA0



CONT. F. RAILW. A., AC-3, 5.5KW 400V, DC 110V, 0,7...1,25\*US, W.SUPPRESSORDIODE INTEGRATED, 3-POLE, SZ SO SPRING-LOADED TERMINAL FOR STANDING MOUNTING POSITION

product brand name		SIRIUS		
Product designation		Coupling relay		
General technical data:	Conoral 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- compatible auxiliary switch block typical</li> </ul>		5 000 000		
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>		10 000 000		
Thermal short-time current restricted to 10 s	Α	90		
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				

<ul> <li>at AC-3 Rated value maximum</li> </ul>	V	690
Operating current		
• at AC-1		
<ul> <li>— at 400 V at ambient temperature 40 °C</li> <li>Rated value</li> </ul>	Α	22
<ul> <li>up to 690 V at ambient temperature 40 °C</li> <li>Rated value</li> </ul>	Α	22
— up to 690 V at ambient temperature 60 °C Rated value	Α	20
• at AC-2 at 400 V Rated value	Α	12
• at AC-3		
— at 400 V Rated value	Α	12
— at 500 V Rated value	Α	9.2
— at 690 V Rated value	Α	6.7
• at AC-4 at 400 V Rated value	Α	8.5
Operating current with 1 current path		
• at DC-1		
— at 24 V Rated value	Α	20
— at 110 V Rated value	Α	2.1
— at 220 V Rated value	Α	0.8
— at 440 V Rated value	Α	0.6
— at 600 V Rated value	Α	0.6
• at DC-3 at DC-5		
— at 24 V Rated value	Α	20
— at 110 V Rated value	Α	0.1
Operating current with 2 current paths in series		
• at DC-1		
— at 24 V Rated value	Α	20
— at 110 V Rated value	Α	12
— at 220 V Rated value	Α	1.6
— at 440 V Rated value	Α	0.8
— at 600 V Rated value	Α	0.7
• at DC-3 at DC-5		
— at 110 V Rated value	Α	0.35
— at 24 V Rated value	Α	20
Operating current with 3 current paths in series		
• at DC-1		
— at 24 V Rated value	Α	20
— at 110 V Rated value	Α	20
— at 220 V Rated value	Α	20
— 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	5.5
• at AC-4 at 400 V Rated value	kW	4
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	3
— at 400 V Rated value	kW	5.5
— at 690 V Rated value	kW	5.5
Operating power for ≥ 200000 operating cycles at		
AC-4		
● at 400 V Rated value	kW	2
• at 690 V Rated value	kW	2.5
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	.,	
Rated value	V	110
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		

instantaneous contact  Product expansion Auxillary switch  at 230 V Rated value  at 400 V Rated value  at 690 V Rated value  at 690 V Rated value  at 100-12 at 125 V Rated value  at 100-13 at 600 V Rated value  at 100-13 at 600 V Rated value  at 110 V Rated value  at 110 V Rated value  at 24 V Rated value  at 24 V Rated value  at 110 V Rated value  at 180 V Rated value  at 110 V Rated value  at 180 V Rated value  at 18	• for auxiliary contacts		
Page	— instantaneous contact		0
at 230 V Rated value     at 400 V Rated value     at 690 V Rated value     at 690 V Rated value     at 690 V Rated value     at 10 Cortaing current     at 10 C-12 at 125 V Rated value     at 10 C-12 at 125 V Rated value     at 10 C-12 at 220 V Rated value     at 10 C-13 at 125 V Rated value     at 10 C-13 at 600 V Rated value     at 10 C-13 at 600 V Rated value     at 10 C-13 at 600 V Rated value     at 10 V Rated value     at 10 V Rated value     at 10 V Rated value     at 24 V Rated value     at 60 V Rated value     at 10 V Rated value     at 110 V Rated value     at 110 V Rated value     at 110 V Rated value     at 80 V Rated value     at 180 V Rated value     at 110 V Rated	Product expansion Auxiliary switch		Yes
at 400 V Rated value     at 690 V Rated value     A 1  Operating current     at DC-12 at 125 V Rated value     A 2     at DC-12 at 220 V Rated value     A 1     A 0.15     at DC-13 at 125 V Rated value     A 0.15     at DC-13 at 125 V Rated value     A 0.9     at DC-13 at 125 V Rated value     A 0.9     at DC-13 at 125 V Rated value     A 0.3     at DC-13 at 600 V Rated value     A 0.1  Operating current     at DC-13 at 600 V Rated value     A 0.1  Operating current     at DC-12     — at 60 V Rated value     — at 110 V Rated value     — at 110 V Rated value     — at 124 V Rated value     — at 60 V Rated value     — at 60 V Rated value     — at 110 V Rated value     — at 110 V Rated value     — at 480 V Rated value     A 1  Contact reliability of the auxiliary contacts  In faulty switching per 100 million (17 V, 1 mA)  IJ/CCSA ratings:  Full-load current (FLA) for three-phase AC motor     at 480 V Rated value     A 11     at 600 V Rated value     A 11     or for single-phase AC motor at 110/120 V Rated value     or for single-phase AC motor at 230 V Rated value     or for three-phase AC motor at 200/208 V Rated value     or for three-phase AC motor at 200/208 V Rated value     or for three-phase AC motor at 460/480 V Rated value     or for three-phase AC motor at 575/600 V Rated value     or three-phase AC motor at 575/600 V Rated value     or three-phase AC motor at 575/600 V Rated value     or three-phase AC motor at 575/600 V Rated value     or three-phase AC motor at 575/600 V Rated value     or three-phase AC motor at 575/600 V Rated value     or three-phase AC motor at 575/600 V Rated value     or three-phase AC motor at 575/600 V Rated value     or three-phase AC motor at 575/600 V Rated value     or three-phase AC motor at 575/600 V Rated value     or three-phase AC motor at 575/600 V Rated value     or three-phase AC motor at 575/600 V Rated value     or three-phase AC motor at 575/600 V Rated value     or three-phase AC motor at 575/600 V Rated value     or three-phase AC motor at 575/600 V Rated	Operating current at AC-15		
• at 690 V Rated value  Operating current  • at DC-12 at 125 V Rated value  • at DC-12 at 220 V Rated value  • at DC-12 at 220 V Rated value  • at DC-13 at 125 V Rated value  • at DC-13 at 125 V Rated value  • at DC-13 at 220 V Rated value  • at DC-13 at 2600 V Rated value  • at DC-13 at 2600 V Rated value  • at DC-13 at 600 V Rated value  • at DC-13 at 600 V Rated value  • at DC-12  — at 60 V Rated value  — at 110 V Rated value  — at 110 V Rated value  — at 60 V Rated value  A 1  Contact reliability of the auxiliary contacts  I faulty switching per 100 million (17 V, 1 mA)  IUCSA ratings:  Full-load current (FLA) for three-phase AC motor  • at 480 V Rated value  • at 600 V Rated value  • for single-phase AC motor at 110/120 V Rated value  • for single-phase AC motor at 230 V Rated value  • for three-phase AC motor at 200/208 V Rated value  • for three-phase AC motor at 200/208 V Rated value  • for three-phase AC motor at 460/480 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value	• at 230 V Rated value	Α	10
Operating current	• at 400 V Rated value	Α	3
at DC-12 at 125 V Rated value     at DC-12 at 220 V Rated value     at DC-12 at 220 V Rated value     at DC-13 at 125 V Rated value     at DC-13 at 120 V Rated value     at DC-13 at 120 V Rated value     at DC-13 at 600 V Rated value     at DC-13 at 600 V Rated value     at DC-13     at 60 V Rated value     at DC-12     at 60 V Rated value     at 10 V Rated value     at 600 V Rated Value     at 70 V Rate	• at 690 V Rated value	Α	1
• at DC-12 at 220 V Rated value • at DC-12 at 600 V Rated value • at DC-13 at 125 V Rated value • at DC-13 at 220 V Rated value • at DC-13 at 220 V Rated value • at DC-13 at 600 V Rated value • at DC-12 — at 60 V Rated value — at 110 V Rated value — at 110 V Rated value — at 60 V Rated value — at 60 V Rated value — at 60 V Rated value — at 100 V Rated value — at 100 V Rated value — at 110 V Rated value — at 800 V Rated value — at 480 V Rated value • at 600 V Rated value • at 600 V Rated value  • at 600 V Rated value • for single-phase AC motor at 110/120 V Rated value • for single-phase AC motor at 230 V Rated value • for three-phase AC motor at 200/208 V Rated value • for three-phase AC motor at 200/208 V Rated value • for three-phase AC motor at 460/480 V Rated value • for three-phase AC motor at 460/480 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value	Operating current		
at DC-12 at 600 V Rated value     at DC-13 at 125 V Rated value     at DC-13 at 125 V Rated value     at DC-13 at 220 V Rated value     at DC-13 at 600 V Rated value     at DC-13 at 600 V Rated value     at DC-13 at 600 V Rated value     at DC-12     — at 60 V Rated value     — at 110 V Rated value     — at 110 V Rated value     — at 24 V Rated value     — at 60 V Rated value     — at 60 V Rated value     — at 100 V Rated value     — at 100 V Rated value     — at 100 V Rated value     — at 110 V Rated value     — at 600 V Rated value     at 600	at DC-12 at 125 V Rated value	Α	2
at DC-13 at 125 V Rated value     at DC-13 at 220 V Rated value     at DC-13 at 600 V Rated value     at DC-13 at 600 V Rated value     at DC-12     at 60 V Rated value     at DC-12     at 60 V Rated value     at DC-13     at 24 V Rated value     at DC-13     at 24 V Rated value     at 10 V Rated value     at 10 V Rated value     at 10 V Rated value     at 60 V Rated value     at 10 V Rated value     at 110 V Rated value     at 480 V Rated value     at 480 V Rated value     at 480 V Rated value     at 600 V Rat	• at DC-12 at 220 V Rated value	Α	1
at DC-13 at 220 V Rated value at DC-13 at 600 V Rated value A 0.1  Operating current  at DC-12 — at 60 V Rated value — at 110 V Rated value A 3  at 24 V Rated value — at 24 V Rated value — at 110 V Rated value A 1  Contact reliability of the auxiliary contacts  I faulty switching per 100 million (17 V, 1 mA)  IJUCSA ratings:  Full-load current (FLA) for three-phase AC motor at 480 V Rated value at 600 V Rated value A 11  vielded mechanical performance [hp]  for single-phase AC motor at 110/120 V Rated value  for three-phase AC motor at 230 V Rated value  for three-phase AC motor at 220/230 V Rated value  for three-phase AC motor at 460/480 V Rated value  for three-phase AC motor at 575/600 V Rated value  for three-phase AC motor at 575/600 V Rated value  for three-phase AC motor at 575/600 V Rated value  for three-phase AC motor at 575/600 V Rated value  for three-phase AC motor at 575/600 V Rated value  for three-phase AC motor at 575/600 V Rated value  for three-phase AC motor at 575/600 V Rated value  for three-phase AC motor at 575/600 V Rated value  for three-phase AC motor at 575/600 V Rated value  for three-phase AC motor at 575/600 V Rated value  for three-phase AC motor at 575/600 V Rated value  for three-phase AC motor at 575/600 V Rated value  for three-phase AC motor at 575/600 V Rated value  for three-phase AC motor at 575/600 V Rated value	• at DC-12 at 600 V Rated value	Α	0.15
o at DC-13 at 600 V Rated value  Operating current      o at DC-12	• at DC-13 at 125 V Rated value	Α	0.9
Operating current  • at DC-12  — at 60 V Rated value — at 110 V Rated value A 3  • at DC-13 — at 24 V Rated value A 10 — at 60 V Rated value — at 110 V Rated value A 2 — at 110 V Rated value A 1  Contact reliability of the auxiliary contacts  I faulty switching per 100 million (17 V, 1 mA)   DI/CSA ratings:  Full-load current (FLA) for three-phase AC motor • at 480 V Rated value • at 600 V Rated value A 11  yielded mechanical performance [hp] • for single-phase AC motor at 110/120 V Rated value • for three-phase AC motor at 230 V Rated value • for three-phase AC motor at 200/208 V Rated value • for three-phase AC motor at 220/230 V Rated value • for three-phase AC motor at 460/480 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value	• at DC-13 at 220 V Rated value	Α	0.3
at DC-12     — at 60 V Rated value     — at 110 V Rated value     — at 24 V Rated value     — at 60 V Rated value     — at 24 V Rated value     — at 60 V Rated value     — at 110 V Rated value     — at 480 V Rated value     • at 480 V Rated value     • at 60 V Rated value     • for single-phase AC motor at 110/120 V Rated value     • for single-phase AC motor at 110/120 V Rated value     • for single-phase AC motor at 230 V Rated value     • for three-phase AC motor at 200/208 V Rated value     • for three-phase AC motor at 220/230 V Rated value     • for three-phase AC motor at 460/480 V Rated value     • for three-phase AC motor at 575/600 V Rated value     • for three-phase AC motor at 575/600 V Rated value     • for three-phase AC motor at 575/600 V Rated value     • for three-phase AC motor at 575/600 V Rated value     • for three-phase AC motor at 575/600 V Rated value     • for three-phase AC motor at 575/600 V Rated value     • for three-phase AC motor at 575/600 V Rated value     • for three-phase AC motor at 575/600 V Rated value     • for three-phase AC motor at 575/600 V Rated value     • for three-phase AC motor at 575/600 V Rated value     • for three-phase AC motor at 575/600 V Rated value     • for three-phase AC motor at 575/600 V Rated value     • for three-phase AC motor at 575/600 V Rated value     • for three-phase AC motor at 575/600 V Rated value     • for three-phase AC motor at 575/600 V Rated value     • for three-phase AC motor at 575/600 V Rated value     • for three-phase AC motor at 575/600 V Rated value     • for three-phase AC motor at 575/600 V Rated value	• at DC-13 at 600 V Rated value	Α	0.1
- at 60 V Rated value    - at 110 V Rated value    - at 110 V Rated value    - at 24 V Rated value    - at 60 V Rated value    - at 60 V Rated value    - at 110 V Rated value    - at 3 V Rated value    - at 110 V Rated value    - at 100 V Rated value    - at 100 V Rated value    - at 100 V Rated value    - at 480 V Rated value    - at 480 V Rated value    - at 600 V Rated value    - bfor single-phase AC motor at 110/120 V Rated value    - bfor single-phase AC motor at 230 V Rated value    - at 600 V Rated value    - at 110 V Rated value    - at 600 V Rated value    - at 110 V Rated value    - at 600 V Rated value    - at 110 V Rated v	Operating current		
- at 110 V Rated value  • at DC-13  - at 24 V Rated value  - at 60 V Rated value  - at 110 V Rated value  A 2  - at 110 V Rated value  A 1  Contact reliability of the auxiliary contacts  I faulty switching per 100 million (17 V, 1 mA)  IJ/CSA ratings:  Full-load current (FLA) for three-phase AC motor  • at 480 V Rated value  • at 600 V Rated value  • at 600 V Rated value  • for single-phase AC motor at 110/120 V Rated value  • for single-phase AC motor at 230 V Rated value  • for three-phase AC motor at 220/230 V Rated value  • for three-phase AC motor at 460/480 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value	• at DC-12		
at DC-13  — at 24 V Rated value — at 60 V Rated value A  2  — at 110 V Rated value A  1  Contact reliability of the auxiliary contacts  I faulty switching per 100 million (17 V, 1 mA)  IJ/CSA ratings:  Full-load current (FLA) for three-phase AC motor  • at 480 V Rated value • at 600 V Rated value A  11  yielded mechanical performance [hp]  • for single-phase AC motor at 110/120 V Rated value • for three-phase AC motor at 230 V Rated value  • for three-phase AC motor at 200/208 V Rated value  • for three-phase AC motor at 220/230 V Rated value  • for three-phase AC motor at 460/480 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value	— at 60 V Rated value	Α	6
- at 24 V Rated value - at 60 V Rated value A 2 - at 110 V Rated value A 1  Contact reliability of the auxiliary contacts  1 faulty switching per 100 million (17 V, 1 mA)  IL/CSA ratings:  Full-load current (FLA) for three-phase AC motor  • at 480 V Rated value • at 600 V Rated value  • for single-phase AC motor at 110/120 V Rated value  • for single-phase AC motor at 230 V Rated value  • for three-phase AC motor at 200/208 V Rated value  • for three-phase AC motor at 220/230 V Rated value  • for three-phase AC motor at 460/480 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value	— at 110 V Rated value	Α	3
— at 60 V Rated value — at 110 V Rated value A 1  Contact reliability of the auxiliary contacts  1 faulty switching per 100 million (17 V, 1 mA)  JL/CSA ratings:  Full-load current (FLA) for three-phase AC motor  • at 480 V Rated value • at 600 V Rated value A 11  ylelded mechanical performance [hp]  • for single-phase AC motor at 110/120 V Rated value  • for single-phase AC motor at 230 V Rated value  • for three-phase AC motor at 200/208 V Rated value  • for three-phase AC motor at 220/230 V Rated value  • for three-phase AC motor at 460/480 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value	• at DC-13		
— at 110 V Rated value  Contact reliability of the auxiliary contacts  1 faulty switching per 100 million (17 V, 1 mA)  L/CSA ratings:  Full-load current (FLA) for three-phase AC motor  • at 480 V Rated value • at 600 V Rated value A 11  ylelded mechanical performance [hp]  • for single-phase AC motor at 110/120 V Rated value hp  • for single-phase AC motor at 230 V Rated value hp  • for three-phase AC motor at 200/208 V Rated value hp  • for three-phase AC motor at 220/230 V Rated value hp  • for three-phase AC motor at 460/480 V Rated value hp  • for three-phase AC motor at 575/600 V Rated value hp  • for three-phase AC motor at 575/600 V Rated value hp  • for three-phase AC motor at 575/600 V Rated value hp  • for three-phase AC motor at 575/600 V Rated value hp	— at 24 V Rated value	Α	10
Contact reliability of the auxiliary contacts  1 faulty switching per 100 million (17 V, 1 mA)  L/CSA ratings:  Full-load current (FLA) for three-phase AC motor  • at 480 V Rated value • at 600 V Rated value  • for single-phase AC motor at 110/120 V Rated value • for single-phase AC motor at 230 V Rated value • for three-phase AC motor at 200/208 V Rated value • for three-phase AC motor at 220/230 V Rated value • for three-phase AC motor at 460/480 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value	— at 60 V Rated value	Α	2
Full-load current (FLA) for three-phase AC motor  • at 480 V Rated value • at 600 V Rated value  • for single-phase AC motor at 110/120 V Rated value • for single-phase AC motor at 230 V Rated value  • for single-phase AC motor at 230 V Rated value • for three-phase AC motor at 200/208 V Rated value • for three-phase AC motor at 220/230 V Rated value • for three-phase AC motor at 460/480 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value	— at 110 V Rated value	Α	1
Full-load current (FLA) for three-phase AC motor  • at 480 V Rated value • at 600 V Rated value A 11  yielded mechanical performance [hp]  • for single-phase AC motor at 110/120 V Rated value • for single-phase AC motor at 230 V Rated value • for three-phase AC motor at 200/208 V Rated value • for three-phase AC motor at 220/230 V Rated value • for three-phase AC motor at 460/480 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value	Contact reliability of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
Full-load current (FLA) for three-phase AC motor  • at 480 V Rated value • at 600 V Rated value A 11  yielded mechanical performance [hp]  • for single-phase AC motor at 110/120 V Rated value • for single-phase AC motor at 230 V Rated value • for three-phase AC motor at 200/208 V Rated value • for three-phase AC motor at 220/230 V Rated value • for three-phase AC motor at 460/480 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value • for three-phase AC motor at 575/600 V Rated value	UL/CSA ratings:		
at 600 V Rated value  A 11  yielded mechanical performance [hp]  for single-phase AC motor at 110/120 V Rated value  for single-phase AC motor at 230 V Rated value  for three-phase AC motor at 200/208 V Rated value  for three-phase AC motor at 220/230 V Rated value  for three-phase AC motor at 220/230 V Rated value  for three-phase AC motor at 460/480 V Rated value  for three-phase AC motor at 575/600 V Rated value  for three-phase AC motor at 575/600 V Rated value  for three-phase AC motor at 575/600 V Rated value  for three-phase AC motor at 575/600 V Rated value  for three-phase AC motor at 575/600 V Rated value  for three-phase AC motor at 575/600 V Rated value  for three-phase AC motor at 575/600 V Rated value  for three-phase AC motor at 575/600 V Rated value  for three-phase AC motor at 575/600 V Rated value  for three-phase AC motor at 575/600 V Rated value  for three-phase AC motor at 575/600 V Rated value  for three-phase AC motor at 575/600 V Rated value			
yielded mechanical performance [hp]  • for single-phase AC motor at 110/120 V Rated value  • for single-phase AC motor at 230 V Rated value  • for three-phase AC motor at 200/208 V Rated value  • for three-phase AC motor at 220/230 V Rated value  • for three-phase AC motor at 220/230 V Rated value  • for three-phase AC motor at 460/480 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value	● at 480 V Rated value	Α	11
<ul> <li>for single-phase AC motor at 110/120 V Rated value</li> <li>for single-phase AC motor at 230 V Rated value</li> <li>for three-phase AC motor at 200/208 V Rated value</li> <li>for three-phase AC motor at 220/230 V Rated value</li> <li>for three-phase AC motor at 220/230 V Rated value</li> <li>for three-phase AC motor at 460/480 V Rated value</li> <li>for three-phase AC motor at 575/600 V Rated value</li> <li>for three-phase AC motor at 575/600 V Rated value</li> </ul>	● at 600 V Rated value	Α	11
value  • for single-phase AC motor at 230 V Rated value  • for three-phase AC motor at 200/208 V Rated value  • for three-phase AC motor at 220/230 V Rated value  • for three-phase AC motor at 220/230 V Rated value  • for three-phase AC motor at 460/480 V Rated value  • for three-phase AC motor at 460/480 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value	yielded mechanical performance [hp]		
value  • for three-phase AC motor at 200/208 V Rated value  • for three-phase AC motor at 220/230 V Rated value  • for three-phase AC motor at 460/480 V Rated value  • for three-phase AC motor at 460/480 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated value  • for three-phase AC motor at 575/600 V Rated hp			0.5
<ul> <li>for three-phase AC motor at 200/208 V Rated value</li> <li>for three-phase AC motor at 220/230 V Rated value</li> <li>for three-phase AC motor at 460/480 V Rated value</li> <li>for three-phase AC motor at 460/480 V Rated value</li> <li>for three-phase AC motor at 575/600 V Rated value</li> <li>for three-phase AC motor at 575/600 V Rated value</li> <li>for three-phase AC motor at 575/600 V Rated hp</li> </ul>			2
<ul> <li>for three-phase AC motor at 220/230 V Rated value</li> <li>for three-phase AC motor at 460/480 V Rated value</li> <li>for three-phase AC motor at 575/600 V Rated value</li> <li>for three-phase AC motor at 575/600 V Rated value</li> </ul>			3
<ul> <li>for three-phase AC motor at 460/480 V Rated value</li> <li>for three-phase AC motor at 575/600 V Rated value</li> <li>metric hp</li> <li>metric hp</li> <li>metric hp</li> <li>metric hp</li> </ul>			
• for three-phase AC motor at 575/600 V Rated value metric hp	value  ● for three-phase AC motor at 220/230 V Rated	hp metric	3
	value  • for three-phase AC motor at 220/230 V Rated value  • for three-phase AC motor at 460/480 V Rated	hp metric hp metric	
	value  • for three-phase AC motor at 220/230 V Rated value  • for three-phase AC motor at 460/480 V Rated value  • for three-phase AC motor at 575/600 V Rated	hp metric hp metric hp metric	7.5

Short-circuit:

#### 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:

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

fuse gL/gG: 10 A

mounting position		standing, on horizontal 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)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)
<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)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)
• for AWG conductors for auxiliary contacts	2x (20 12)

Safety related data:		
B10 value with high demand rate acc. to SN 31920		1 000 000
Proportion of dangerous failures		
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	%	40
• with high demand rate acc. to SN 31920	%	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	

Ambient conditions:			
Installation altitude at height above sea level	m	2 000	
maximum			
Ambient temperature			
<ul><li>during operation</li></ul>	°C	-40 <b>+7</b> 0	
<ul> <li>during operation Note</li> </ul>		Railway application: See catalog for rated conditions	
during storage	°C	-55 <b>+</b> 80	

## Certificates/ approvals:

# General Product Approval Functional Declaration of Test Safety/Safety Conformity Certificates







Type Examination



Special Test Certificate

#### **Shipping Approval**









GL





**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

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RT20172KF421LA0/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=3RT20172KF421LA0&lang=en





