SIEMENS

Data sheet

3RT2035-1AD00



CONTACTOR,AC3:18.5KW/400V, 1NO+1NC, 42V AC 50HZ, 3-POLE, SIZE S2, SCREW TERMINAL

product brand name		SIRIUS
Product designation		3RT2 contactor
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)		
 of the contactor typical 		10 000 000
• of the contactor with added electronics-		5 000 000
compatible auxiliary switch block typical		
 of the contactor with added auxiliary switch 		10 000 000
block typical		
Thermal short-time current restricted to 10 s	A	400
Protection class IP		
• on the front		IP20
• of the terminal		IP00
Equipment marking		
• acc. to DIN EN 61346-2		Q
• acc. to DIN EN 81346-2		Q
1ain 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		

 at AC-3 Rated value maximum 	V	690
Operating current		
• at AC-1		
— at 400 V at ambient temperature 40 °C	А	60
Rated value		
— up to 690 V at ambient temperature 40 $^\circ C$	А	60
Rated value		
— up to 690 V at ambient temperature 60 °C Rated value	A	55
• at AC-2 at 400 V Rated value	А	40
• at AC-3		
— at 400 V Rated value	А	40
— at 500 V Rated value	А	40
— at 690 V Rated value	А	24
• at AC-4 at 400 V Rated value	А	35
Operating current with 1 current path		
● at DC-1		
— at 24 V Rated value	А	55
— at 110 V Rated value	А	4.5
— at 220 V Rated value	А	2
— at 440 V Rated value	А	0.4
— at 600 V Rated value	А	0.25
• at DC-3 at DC-5		
— at 24 V Rated value	А	35
— at 110 V Rated value	А	2.5
— at 220 V Rated value	А	2
— at 440 V Rated value	А	0.1
— at 600 V Rated value	А	0.06
Operating current with 2 current paths in series		
● at DC-1		
— at 24 V Rated value	А	55
— at 110 V Rated value	А	45
— at 220 V Rated value	А	5
— at 440 V Rated value	А	1
— at 600 V Rated value	А	0.8
• at DC-3 at DC-5		
— at 110 V Rated value	А	25
— at 220 V Rated value	А	5
— at 24 V Rated value	А	55
— at 440 V Rated value	А	0.27
— at 600 V Rated value	А	0.16
Operating current with 3 current paths in series		

• at DC-1 -			
- at 110 V Rated valueA45- at 220 V Rated valueA45- at 440 V Rated valueA2.9- at 600 V Rated valueA1.4• at DC-5 at 110 V Rated valueA25- at 220 V Rated valueA55- at 240 V Rated valueA0.6- at 440 V Rated valueA0.6- at 440 V Rated valueA0.6- at 440 V Rated valueKW18.5• at AC-1 at 400 V Rated valueKW18.5• at AC-2 at 400 V Rated valueKW18.5• at AC-1 at 400 V Rated valueKW21- at 230 V at 60 °C Rated valueKW23- at 230 V at 60 °C Rated valueKW22- at 400 V Rated valueKW11- at 230 V Rated valueKW22- at 400 V Rated valueKW18.5- at 230 V at 60 °C Rated valueKW22- at 400 V Rated valueKW22- at 600 V Rated valueKW18.5- at 230 V Rated valueKW18.5- at 230 V Rated valueKW18.5- at 600 V Rated valueKW18.5 </td <td>• at DC-1</td> <td></td> <td></td>	• at DC-1		
at 220 V Rated valueA45- at 400 V Rated valueA2.9- at 600 V Rated valueA1.4• at DC-3 at DC-5 at 110 V Rated valueA45- at 220 V Rated valueA45- at 220 V Rated valueA55- at 410 V Rated valueA0.6- at 410 V Rated valueA0.6- at 600 V Rated valueKW39- at 600 V Rated valueKW18.5- at 600 V Rated valueKW18.5• at AC-1 at 400 V Rated valueKW21- at 230 V Rated valueKW23- at 230 V Rated valueKW23- at 230 V Rated valueKW23- at 230 V Rated valueKW24- at 230 V Rated valueKW23- at 400 V Rated valueKW24- at 230 V Rated valueKW22- at 400 V Rated valueKW22- at 400 V Rated valueKW22- at 400 V Rated valueKW11- at 400 V Rated valueKW22- at 690 V Rated valueKW22- at 690 V Rated valueKW18.5- at 690 V Rated valueKW11.6- at 690 V Rated valueKW18.5- at 690 V Rated valueKW18.5- at 690 V Rated valueKW18.6- at 690 V Rated valueKW18.6- at 690 V Rated valueKW18.6- at 690 V Rated valueKW1	— at 24 V Rated value	А	55
at 440 V Rated valueA2.9- at 800 V Rated valueA1.4• at DC-3 at DC-5 at 110 V Rated valueA45- at 220 V Rated valueA55- at 220 V Rated valueA0.6- at 800 V Rated valueA0.6- at 800 V Rated valueA0.6- at 800 V Rated valueKW39- at 600 V Rated valueKW18.5- at 400 V Rated valueKW18.5- at 230 V Rated valueKW18.5- at 230 V Rated valueKW23- at 230 V Rated valueKW23- at 230 V Rated valueKW23- at 890 V at 60 °C Rated valueKW88- at 230 V Rated valueKW22- at 230 V Rated valueKW11- at 230 V Rated valueKW18.5- at 690 V Rated valueKW18.6- at 690 V Rated valueKW18.6- at 690 V Rated valueKW18.6- at 690 V Rated value </td <td>— at 110 V Rated value</td> <td>А</td> <td>45</td>	— at 110 V Rated value	А	45
and 800 V Rated valueA1.4• at DC-3 at DC-5 at 110 V Rated valueA- at 220 V Rated valueA- at 220 V Rated valueA- at 24 V Rated valueA0.12 4 V Rated valueA- at 24 V Rated valueA- at 24 V Rated valueA- at 400 V Rated valueA0.6- at 400 V Rated valueKW• at AC-1 at 400 V Rated valueKW• at AC-3 at 00 V Rated valueKW- at 230 V Rated valueKW- at 230 V Rated valueKW- at 690 V Rated valueKW• at AC-3 at 230 V Rated valueKW• at 400 V Rated valueKW• at 400 V Rated valueKW• at 690 V Rated value	— at 220 V Rated value	А	45
eth CC-3 at DC-5A- at 110 V Rated valueA- at 220 V Rated valueA- at 220 V Rated valueA- at 24 V Rated valueA- at 240 V Rated valueA- at 440 V Rated valueA- at 400 V Rated valueA- at 600 V Rated valueA- at 600 V Rated valueKW* at AC-1*- at 230 V Rated valueKW* at AC-1 at 230 V Rated valueKW* at 400 V Rated valueKW* at 400 V Rated valueKW- at 690 V Rated valueKW* at 600 °C Rated valueKW* at 600 V Rated valueKW* at 400 V Rated valueKW* at 400 V Rated valueKW* at 600 V Rated valueKW </td <td>— at 440 V Rated value</td> <td>А</td> <td>2.9</td>	— at 440 V Rated value	А	2.9
- at 110 V Rated valueA45- at 220 V Rated valueA25- at 24 V Rated valueA06- at 400 V Rated valueA0.6Operating power at AC-1 at 400 V Rated valueKW39- at AC-2 at 400 V Rated valueKW18.5- at AC-2 at 400 V Rated valueKW18.5- at 230 V Rated valueKW21- at 230 V Rated valueKW23- at 230 V Rated valueKW23- at 400 V Rated valueKW86- at 230 V Rated valueKW68- at 690 V Rated valueKW11- at 690 V Rated valueKW22- at 690 V Rated valueKW12- at 690 V Rated valueKW18.5- at 690 V Rated valueKW22- at 690 V Rated valueKW18.5- at 690 V Rated valueKW18.6- at 690 V Rated valueKW18.6- at 690 V Rated valueKW18.6- at 690 V Rated valueKW19.6-	— at 600 V Rated value	А	1.4
	• at DC-3 at DC-5		
- at 24 V Rated valueA55- at 440 V Rated valueA0.6- at 600 V Rated valueA0.6Operating power*********************************	— at 110 V Rated value	А	45
InterfaceA0.6- at 400 V Rated valueA0.6Operating power	— at 220 V Rated value	А	25
at 600 V Rated valueA0.6Operating power• at AC-1 at 400 V Rated valueKW39• at AC-2 at 400 V Rated valueKW18.5• at AC-4 at 400 V Rated valueKW18.5• at AC-4 at 400 V Rated valueKW21• at AC-1	— at 24 V Rated value	А	55
Operating powerKW39• at AC-1 at 400 V Rated valueKW18.5• at AC-2 at 400 V Rated valueKW18.5• at AC-4 at 400 V Rated valueKW18.5• at AC-4 at 400 V Rated valueKW21- at 230 V Rated valueKW23- at 230 V Rated valueKW23- at 400 V at 60 °C Rated valueKW62- at 690 V Rated valueKW68- at 690 V Rated valueKW11- at 230 V Rated valueKW18.5- at 690 V Rated valueKW22- at 690 V Rated valueKW18.5- at 690 V Rated valueKW18.5- at 230 V Rated valueKW18.5- at 690 V Rated valueKW18.5- at 690 V Rated valueKW22- at 690 V Rated valueKW18.5- at 690 V Rated valueKW19.5- at 690 V Rated valueKW18.5- at 690 V Rated valueKW19.5- at 690 V Rated valueKW19.5- at 690 V Rated valueKW10.6• at 400 V Rated valueKW11.6• at 600 V Rated valueKW11.6• at 400 V Rated valueKW11.6• at 600 V Rated value <td< td=""><td>— at 440 V Rated value</td><td>А</td><td>0.6</td></td<>	— at 440 V Rated value	А	0.6
• at AC-1 at 400 V Rated valueKW39• at AC-2 at 400 V Rated valueKW18.5• at AC-4 at 400 V Rated valueKW18.5Operating power• at AC-1- at 230 V Rated value• at AC-1- at 230 V Rated valueKW- at 230 V Rated valueKW21- at 400 V Rated valueKW23- at 400 V Rated valueKW36- at 690 V Rated valueKW62- at 690 V Rated valueKW68• at AC-3- at 600 V Rated value- at 230 V Rated valueKW11- at 230 V Rated valueKW18.5- at 230 V Rated valueKW22Operating power for ≥ 200000 operating cycles at AC-3- at 690 V Rated value- at 690 V Rated valueKW11.6- at 690 V Rated valueKW11.6- at 690 V Rated valueKW12.Operating power for ≥ 200000 operating cycles at AC-4- at 690 V Rated value- at 400 V Rated valueKW11.6- at 690 V Rated valueKW12.6- at 690 V Rated valueV12.6- at 690 V Rated valueV14.6- at 690 V Rated valueV42Operating frequency- at 690 V Rated valueV- at 690 V Rated valueV42Operating range factor control supply voltage ratedV<	— at 600 V Rated value	А	0.6
at AC-2 at 400 V Rated valuekW18.5• at AC-2 at 400 V Rated valuekW18.5• at AC-1 at 230 V at 60 °C Rated valuekW21- at 230 V Rated valuekW23- at 400 V at 60 °C Rated valuekW36- at 690 V at 60 °C Rated valuekW62- at 690 V Rated valuekW68- at 690 V Rated valuekW11- at 230 V Rated valuekW18.5- at 400 V Rated valuekW22- at 400 V Rated valuekW22- at 500 V Rated valuekW22- at 690 V Rated valuekW18.5- at 400 V Rated valuekW18.5- at 690 V Rated valuekW18.5- at 690 V Rated valuekW22Operating power for ≥ 20000 operating cycles at AC-4 at 400 V Rated valuekW16.8Operating frequency • at AC-3 maximum1/h1/h1000Control circuit/ Control:Type of voltage of the control supply voltageACControl supply voltage with AC • at 50 Hz Rated valueV42Operating range factor control supply voltage rated value of the magnet coll with ACI	Operating power	-	
• at AC-4 at 400 V Rated valueKW18.5Operating power • at AC-1Image: Control supply voltage with AC • at 50 Hz Rated valueKW21- at 230 V at 60 °C Rated valueKW23- at 230 V Rated valueKW36- at 690 V at 60 °C Rated valueKW68- at 690 V Rated valueKW68- at 690 V Rated valueKW11- at 230 V Rated valueKW18.5- at 230 V Rated valueKW18.5- at 400 V Rated valueKW22- at 400 V Rated valueKW22- at 690 V Rated valueKW22- at 690 V Rated valueKW22- at 690 V Rated valueKW11.6- at 690 V Rated valueKW16.8Operating frequency • at AC-3 maximum1/h1 000- at 500 L2 Rated valueV42Operating range factor control supply voltage rated value of the magnet col with ACKV	• at AC-1 at 400 V Rated value	kW	39
Operating power - • at AC-1 - - at 230 V at 60 °C Rated value KW 21 - at 230 V Rated value KW 23 - at 400 V at 60 °C Rated value KW 36 - at 690 V at 60 °C Rated value KW 62 - at 690 V Rated value KW 68 • at AC-3 - - - at 230 V Rated value KW 11 - at 200 V Rated value KW 18.5 - at 400 V Rated value KW 22 - at 690 V Rated value KW 16.8 Operating power for ≥ 200000 operating cycles at AC-4 - • at 400 V Rated value KW 16.8 Operating frequency - - • at AC-3 maximum 1/h 1000 Control supply voltage of the control supply voltage AC Control supply voltage with AC - • at 50 Hz Rated value V 42 Ope	• at AC-2 at 400 V Rated value	kW	18.5
• at AC-1KW21- at 230 V at 60 °C Rated valueKW23- at 230 V Rated valueKW36- at 400 V at 60 °C Rated valueKW62- at 690 V Rated valueKW62- at 690 V Rated valueKW68• at AC-3 at 230 V Rated valueKW11- at 200 V Rated valueKW18.5- at 200 V Rated valueKW22- at 500 V Rated valueKW22- at 690 V Rated valueKW22- at 690 V Rated valueKW11.6- at 690 V Rated valueKW16.8Operating power for ≥ 200000 operating cycles at AC-3AC- at 400 V Rated valueKW16.8Operating frequency-AC- at 400 V Rated valueKW16.8Operating frequency-AC- at 400 V Rated valueV42Operating frequency-AC- at 600 V Rated valueV42Operating range factor control supply voltage ratedV42Operating range factor control supply voltage rated at 50 Hz Rated valueV42-Operating range factor control supply voltage rated at 50 Hz Rated valueV42-Operating range factor control supply voltage rated-<	• at AC-4 at 400 V Rated value	kW	18.5
- at 230 V at 60 °C Rated valueKW21- at 230 V Rated valueKW23- at 400 V at 60 °C Rated valueKW36- at 690 V Rated valueKW62- at 690 V Rated valueKW68• at AC-3 at 230 V Rated valueKW11- at 200 V Rated valueKW18.5- at 690 V Rated valueKW22- at 690 V Rated valueKW22- at 690 V Rated valueKW11.6- at AC-3 maximum1/h1 000Control circuit/ Control:	Operating power		
- at 230 V Rated value kW 23 - at 400 V at 60 °C Rated value kW 36 - at 690 V at 60 °C Rated value kW 62 - at 690 V Rated value kW 68 • at AC-3 - - - at 230 V Rated value kW 11 - at 230 V Rated value kW 18.5 - at 400 V Rated value kW 22 - at 690 V Rated value kW 22 - at 690 V Rated value kW 18.5 - at 690 V Rated value kW 22 - at 690 V Rated value kW 10 - at 690 V Rated value kW 12 Operating power for ≥ 200000 operating cycles at AC-4 - - • at 400 V Rated value kW 11.6 - • at 400 V Rated value kW 11.6 - • at AC-3 maximum 1/h 1 000 - Control circuit/ Control: - - AC Control supply voltage of the control supply voltage AC - Control supply voltage with AC - - • at 50 Hz	• at AC-1		
at 400 V at 60 °C Rated value kW 36 at 690 V at 60 °C Rated value kW 62 at 690 V Rated value kW 68 - at 690 V Rated value kW 11 at 400 V Rated value kW 18.5 at 500 V Rated value kW 22 at 500 V Rated value kW 22 at 690 V Rated value kW 22 at 690 V Rated value kW 16.8 Operating power for ≥ 200000 operating cycles at AC-3 maximum 1/h 1 000 * at AC-3 maximum 1/h 1 000	— at 230 V at 60 °C Rated value	kW	21
at 690 V at 60 °C Rated valueKW62 at 690 V Rated valueKW68• at AC-3 at 230 V Rated valueKW11 at 400 V Rated valueKW18.5 at 500 V Rated valueKW22 at 690 V Rated valueKW11.6 at 690 V Rated valueKW16.8Operating power for ≥ 200000 operating cycles at AC-4I at 690 V Rated valueKW16.8Operating frequency • at AC-3 maximum1/h1 000Control circuit/ Control:	— at 230 V Rated value	kW	23
at 690 V Rated valuekW68• at AC-3 at 230 V Rated valuekW at 230 V Rated valuekW at 400 V Rated valuekW at 500 V Rated valuekW at 690 V Rated valuekW at 400 V Rated valuekW at 400 V Rated valuekW at 690 V Rated valuekW at 600 V Rated valuekW at	— at 400 V at 60 °C Rated value	kW	36
• at AC-3KW11- at 230 V Rated valueKW18.5- at 400 V Rated valueKW22- at 500 V Rated valueKW22- at 690 V Rated valueKW22Operating power for ≥ 200000 operating cycles at AC-4KW11.6• at 400 V Rated valueKW11.6• at 400 V Rated valueKW16.8Operating frequency • at AC-3 maximum1/h1000Control circuit/ Control:Type of voltage of the control supply voltageControl supply voltage with AC • at 50 Hz Rated valueV42Operating range factor control supply voltage rated value of the magnet coil with ACV42	— at 690 V at 60 °C Rated value	kW	62
- at 230 V Rated valuekW11- at 400 V Rated valuekW18.5- at 500 V Rated valuekW22- at 690 V Rated valuekW22Operating power for ≥ 200000 operating cycles at AC-4KW11.6• at 400 V Rated valuekW11.6• at 400 V Rated valuekW16.8Operating frequency • at AC-3 maximum1/h1000Control circuit/ Control:VVOperating range of the control supply voltageACControl supply voltage with AC • at 50 Hz Rated valueV42Operating range factor control supply voltage rated value of the magnet coil with ACV42	— at 690 V Rated value	kW	68
- at 400 V Rated valuekW18.5- at 500 V Rated valuekW22- at 690 V Rated valuekW22Operating power for ≥ 200000 operating cycles at AC-4KW11.6• at 400 V Rated valuekW11.6• at 400 V Rated valuekW16.8Operating frequency • at AC-3 maximum1/h1 000Control circuit/ Control:ACType of voltage of the control supply voltageACControl supply voltage with AC • at 50 Hz Rated valueV42Operating range factor control supply voltage rated value of the magnet coil with ACV42	• at AC-3		
at 500 V Rated valueKW22 at 690 V Rated valueKW22Operating power for ≥ 200000 operating cycles at AC-4KW11.6• at 400 V Rated valueKW11.6• at 690 V Rated valueKW16.8Operating frequency • at AC-3 maximum1/h1 000Control circuit/ Control:XType of voltage of the control supply voltageACControl supply voltage with AC • at 50 Hz Rated valueV42Operating range factor control supply voltage rated value of the magnet col with ACV42	— at 230 V Rated value	kW	11
at 690 V Rated valuekW22Operating power for ≥ 200000 operating cycles at AC-4	— at 400 V Rated value	kW	18.5
Operating power for ≥ 200000 operating cycles at AC-4 • at 400 V Rated value kW • at 690 V Rated value kW • at 690 V Rated value kW • at AC-3 maximum 1/h 0perating frequency	— at 500 V Rated value	kW	22
AC-4Image: Control supply voltagekW11.6• at 400 V Rated valuekW16.8Operating frequency • at AC-3 maximum1/h1 000Control circuit/ Control:Image: Control supply voltageACControl supply voltage with AC • at 50 Hz Rated valueV42Operating range factor control supply voltage rated value of the magnet coil with ACV42	— at 690 V Rated value	kW	22
 at 690 V Rated value kW 16.8 Operating frequency at AC-3 maximum 1/h 1000 Control circuit/ Control: Type of voltage of the control supply voltage AC Control supply voltage with AC at 50 Hz Rated value V 42 Operating range factor control supply voltage rated value of the magnet coil with AC 			
Operating frequency 1/h 1 000 • at AC-3 maximum 1/h 1 000 Control circuit/ Control: AC Type of voltage of the control supply voltage AC Control supply voltage with AC 42 • at 50 Hz Rated value V 42 Operating range factor control supply voltage rated value of the magnet coil with AC Image: Control supply voltage rated value	• at 400 V Rated value	kW	11.6
• at AC-3 maximum1/h1 000Control circuit/ Control:ACType of voltage of the control supply voltageACControl supply voltage with ACAC• at 50 Hz Rated valueV4242Operating range factor control supply voltage rated value of the magnet coil with ACImage: AC	• at 690 V Rated value	kW	16.8
Control circuit/ Control: Type of voltage of the control supply voltage AC Control supply voltage with AC 42 • at 50 Hz Rated value V 42 Operating range factor control supply voltage rated value of the magnet coil with AC Image: Control supply voltage rated value	Operating frequency		
Type of voltage of the control supply voltage AC Control supply voltage with AC 42 • at 50 Hz Rated value V 42 Operating range factor control supply voltage rated value of the magnet coil with AC Image: Control supply voltage rated value	• at AC-3 maximum	1/h	1 000
Control supply voltage with AC V 42 • at 50 Hz Rated value V 42 Operating range factor control supply voltage rated value of the magnet coil with AC V 42	Control circuit/ Control:		
• at 50 Hz Rated value V 42 Operating range factor control supply voltage rated value of the magnet coil with AC			AC
Operating range factor control supply voltage rated value of the magnet coil with AC			
value of the magnet coil with AC		V	42
• at 50 Hz 0.8 1.1			
	• at 50 Hz		0.8 1.1

Auxiliary circuit:		
Number of NC contacts	_	
 for auxiliary contacts 		
— instantaneous contact		1
Number of NO contacts	-	
 for auxiliary contacts 		
— instantaneous contact		1
Product expansion Auxiliary switch	-	Yes
Operating current at AC-15	-	
• at 230 V Rated value	А	10
• at 400 V Rated value	А	3
• at 690 V Rated value	А	1
Operating current		
• at DC-12 at 125 V Rated value	А	2
• at DC-12 at 220 V Rated value	А	1
• at DC-12 at 600 V Rated value	А	0.15
• at DC-13 at 125 V Rated value	А	0.9
• at DC-13 at 220 V Rated value	А	0.3
• at DC-13 at 600 V Rated value	А	0.1
Operating current	-	
• at DC-12		
— at 60 V Rated value	А	6
— at 110 V Rated value	А	3
● at DC-13		
— at 24 V Rated value	А	10
— at 60 V Rated value	А	2
— at 110 V Rated value	А	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	А	40
• at 600 V Rated value	А	41
yielded mechanical performance [hp]		
 for single-phase AC motor at 110/120 V Rated value 	metric hp	3
 for single-phase AC motor at 230 V Rated value 	metric hp	7.5
• for three-phase AC motor at 200/208 V Rated	metric	10

• for three-phase AC motor at 220/230 V Rated value

value

15

hp

hp

metric

• for three-phase AC motor at 575/600 V Rated value metric hp 40 Contact rating of the auxiliary contacts acc. to UL A600 / P600 Short-circuit: Design of the fuse link • for short-circuit protection of the main circuit gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 / gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 80 A • for short-circuit protection of the auxiliary switch required gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 80 A • 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 • Side-by-side mounting Yes Height mm 113.4 Width mm 55 Depth mm 130 Required spacing • with side-by-side mounting mm • with side-by-side mounting mm 0	value tact rating of the auxiliary contacts acc. to UL t-circuit: ign 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 Illation/ mounting/ dimensions:		
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 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 Mounting type • Side-by-side mounting Height mm 113.4 Width mm Depth mm 130 Required spacing with side-by-side mounting • with side-by-side mounting mm	t-circuit: ign 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 Illation/ mounting/ dimensions:		
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 NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 / gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 80 A Installation/ mounting/ dimensions: 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 Height mm 113.4 Width mm 130 Required spacing with side-by-side mounting mm	 ign 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 llation/ mounting/ dimensions: 		gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A
• for short-circuit protection of the main circuitgL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A- with type of assignment 2 requiredgL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 80 A• for short-circuit protection of the auxiliary switch requiredfuse gL/gG: 10 AInstallation/ mounting/ dimensions:+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surfaceMounting typescrew and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022• Side-by-side mountingYesHeightmmWidthmmDepthmm• with side-by-side mounting • with side-by-side mounting• with side-by-side mountingmm0	 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 NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A
with type of assignment 1 required with type of assignment 2 requiredgL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 80 A fuse gL/gG: 10 AInstallation/ mounting/ dimensions:fuse gL/gG: 10 Amounting position+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surfaceMounting typescrew and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022• Side-by-side mountingYesHeightmmWidthmmDepthmm• with side-by-side mounting • with side-by-side mounting• with side-by-side mountingmm0	 with type of assignment 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Illation/ mounting/ dimensions: 		gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A
with type of assignment 2 requiredgL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 80 A• for short-circuit protection of the auxiliary switch requiredfuse gL/gG: 10 AInstallation/ mounting/ dimensions:+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surfaceMounting typescrew and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022• Side-by-side mountingYesHeightmmWidthmmDepthmm• with side-by-side mounting • with side-by-side mounting• with side-by-side mountingmm0	 with type of assignment 2 required for short-circuit protection of the auxiliary switch required Illation/ mounting/ dimensions: 		gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A
 for short-circuit protection of the auxiliary switch required 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 Mounting type Side-by-side mounting Yes Height Mith side-by-side mounting with side-by-side mounting with side-by-side mounting mm 130 Required spacing with side-by-side mounting mm mm mm 	 for short-circuit protection of the auxiliary switch required Ilation/ mounting/ dimensions: 		
required Installation/ mounting/ dimensions: mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/-22.5° on vertical mounting surface 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 113.4 Width mm 55 Depth mm 130 Required spacing with side-by-side mounting mm - forwards mm 0	required		gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 80 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 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 113.4 Width mm 55 Depth mm 130 Required spacing • with side-by-side mounting mm - forwards mm 0	llation/ mounting/ dimensions:		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 surfaceMounting typescrew and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022• Side-by-side mountingmm113.4Heightmm55Depthmm130Required spacing 			
Mounting typesurface; can be tilted forward and backward by +/- 22.5° on vertical mounting surfaceMounting typescrew and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022• Side-by-side mountingYesHeightmmWidthmmDepthmmRequired spacing - forwardsmm00	inting position		
Side-by-side mountingmounting rail according to DIN EN 50022 YesHeightmm113.4Widthmm55Depthmm130Required spacing — forwardsmm0			surface; can be tilted forward and backward by +/-
Heightmm113.4Widthmm55Depthmm130Required spacing • with side-by-side mounting — forwardsmm0	inting type		
Width mm 55 Depth mm 130 Required spacing - forwards mm	 Side-by-side mounting 		Yes
Depth mm 130 Required spacing ************************************	yht	mm	113.4
Required spacing mm • with side-by-side mounting mm	th	mm	55
• with side-by-side mounting — forwards mm 0		mm	130
— forwards mm 0			
	 with side-by-side mounting 		
— Backwards mm 0	— forwards	mm	0
	— Backwards	mm	0
— upwards mm 0	— upwards	mm	0
— downwards mm 0	— downwards	mm	0
— at the side mm 0	— at the side	mm	0
• for grounded parts	 for grounded parts 		
— forwards mm 0	— forwards	mm	0
— Backwards mm 0	— Backwards	mm	0
— upwards mm 50	— upwards	mm	50
— at the side mm 6	— at the side	mm	6
- downwards mm 50	— downwards	mm	50
for live parts	 for live parts 		
— forwards mm 0	— forwards	mm	0
— Backwards mm 0	— Backwards	mm	0
— upwards mm 50		mm	50
— downwards mm 50	— upwards	mm	50
— at the side mm 6		mm	0

Connections/ Terminals:		
Type of electrical connection		
 for main current circuit 		screw-type terminals
 for auxiliary and control current circuit 		screw-type terminals
Type of connectable conductor cross-section		
 for main contacts 		
— single or multi-stranded		2x (1 35 mm²), 1x (1 50 mm²)
— finely stranded with core end processing		2x (1 25 mm²), 1x (1 35 mm²)
 for AWG conductors for main contacts 		2x (18 2), 1x (18 1)
 for auxiliary contacts 		
— single or multi-stranded		2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
— finely stranded with core end processing		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG conductors for auxiliary contacts 		2x (20 16), 2x (18 14)
Apparent pick-up power of the magnet coil with AC	_	
• at 50 Hz	V·A	190
Safety related data:		
Proportion of dangerous failures		
 with low demand rate acc. to SN 31920 	%	40
 with high demand rate acc. to SN 31920 	%	73
Product function Mirror contact acc. to IEC 60947-4-1	_	Yes
Protection against electrical shock	_	finger-safe when touched vertically from front acc. to IEC 60529
Mechanical data:		
Size of contactor		S2
Ambient conditions:		
Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		
 during operation 	°C	-25 +60
• during storage	°C	-55 +80
Certificates/ approvals:		
General Product Approval	oth	ner
	<u></u>	Confirmation Environmental
		Confirmations

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

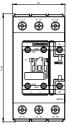
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

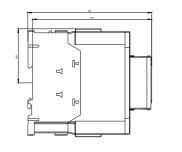
Cax online generator

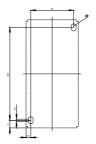
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT20351AD00

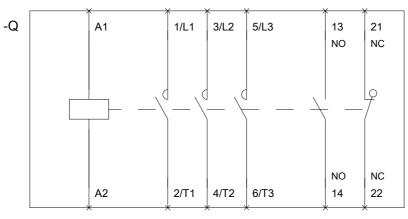
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RT20351AD00/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT20351AD00&lang=en









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