SIEMENS

Data sheet

3RT2316-1AP00

4NO CONTACTOR, AC1: 18A AC 230V 50/60HZ 4-POLE, 4NO, SZ: S00, SCREW TERMINAL



product brandname	SIRIUS
Product designation	Contactor
Product type designation	3RT23

General technical data	
Size of contactor	S00
Product extension	
 function module for communication 	No
Auxiliary switch	Yes
Insulation voltage	
• rated value	690 V
Degree of pollution	3
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
 between coil and main contacts acc. to EN 	400 V
60947-1	
Protection class IP	
• on the front	IP20
• of the terminal	IP20
Shock resistance	

• at rectangular impulse	
— at AC	6,7g / 5 ms, 4,2g / 10 ms
• with sine pulse	
— at AC	10,5g / 5 ms, 6,6g / 10 ms
Mechanical service life (switching cycles)	
of contactor typical	30 000 000
of the contactor with added electronics-	5 000 000
 of the contactor with added electronics- compatible auxiliary switch block typical 	
 of the contactor with added auxiliary switch 	10 000 000
block typical	
Ambient conditions	
Installation altitude at height above sea level	2 000 m
maximum	
Ambient temperature	
 during operation 	-25 +60 °C
 during storage 	-55 +80 °C
Main circuit	
Number of poles for main current circuit	4
Number of NO contacts for main contacts	4
Number of NC contacts for main contacts	0
Operating voltage	
 at AC-3 rated value maximum 	690 V
Operating current	
● at AC-1 at 400 V	
— at ambient temperature 40 °C rated value	18 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	18 A
— up to 690 V at ambient temperature 60 °C rated value	16 A
• at AC-2 at 400 V rated value	9 A
• at AC-3	
— at 400 V rated value	9 A
Connectable conductor cross-section in main circuit at AC-1	
• at 60 °C minimum permissible	2.5 mm ²
• at 40 °C minimum permissible	2.5 mm ²
Operating current	
• at 1 current path at DC-1	
 at 1 current path at DC-1 — at 24 V rated value 	20 A
	20 A 2.1 A

	— at 440 V rated value	0.6 A
at 110 Vrated value12 A- at 220 Vrated value16 A- at 440 Vrated value0.8 A• with 3 current paths in series at DC-1 at 24 Vrated value20 A- at 110 Vrated value20 A- at 220 Vrated value16 A- at 220 Vrated value16 A- at 220 Vrated value16 A- at 24 Vrated value20 A- at 24 Vrated value16 A- at 24 Vrated value20 A- at 24 Vrated value20 A- at 24 Vrated value20 A- at 10 Vrated value20 A- at 110 Vrated value20 A- at 110 Vrated value0.35 A- at 110 Vrated value20 A- at 220 Vrated value1.5 A- at 240 Vrated value20 A- at 220 Vrated value5.5 KW- at 230 Vrated value6.5 KW- at 230 Vrated value6.5 KW- at 230 Vrated value10.5 KW- at 230 Vrated value10.5 KW- at 400 Vrated value10.5 KW- at 230 Vrated value10.5 KW- at 400 Vrated value10.5 KW- at 230 Vrated value10.6 KW-	 with 2 current paths in series at DC-1 	
at 220 V rated value1.6 A- at 240 V rated value0.8 A• with 3 current paths in series at DC-1 at 24 V rated value20 A- at 10 V rated value20 A- at 220 V rated value16 A- at 240 V rated value13 AOperating current20 A- at 10 V rated value20 A- at 110 V rated value20 A- at 124 V rated value20 A- at 24 V rated value20 A- at 250 V rated value1.5 A- at 260 V rated value0.2 AOperating power at 260 V rated value6 kW- at 270 V rated value10.5 kW- at 280 V rated value1.5 kW- at 280 V rated value1.5 kW- at 280 V rated value1.6 kW- at 280 V rated value1.6 kW- at 280 V rated value2.2 kW- at 280 V rated value1.6 kW- at 280 V rated value2.2 kW- at 280 V rated value2.2 kW- at 280 V rated value2.2 kW- at 280 V rated value1.6 kW-	— at 24 V rated value	20 A
Indext of the series at DC-10.8 Å- at 24 V rated value20 Å- at 110 V rated value20 Å- at 120 V rated value16 Å- at 24 V rated value1.3 ÅOperating current- at 20 V rated value0.1 Å- at 110 V rated value0.1 Å- at 110 V rated value0.35 Å- at 110 V rated value0.20 Å- at 220 V rated value1.5 Å- at 220 V rated value0.20 Å- at 220 V rated value0.20 Å- at 230 V rated value6.5 kW- at 230 V rated value6.5 kW- at 230 V rated value10.5 kW- at 400 V rated value10.5 kW- at 400 V rated value10.5 kW- at 230 V rated value8 kW- at 400 V rated value22 kW- at 400 V rated value22 kW- at 400 V rated value72 Å- at 400 V rated value70 V- at 400 V rated value70 V- at 400 V rated value<	— at 110 V rated value	12 A
with 3 current paths in series at DC-1- at 24 V rated value20 A- at 10 V rated value16 A- at 220 V rated value16 A- at 440 V rated value13 AOperating current- at 40 V rated value20 A- at 410 V rated value20 A- at 10 V rated value0.1 A- at 110 V rated value0.35 A- at 110 V rated value0.35 A- at 110 V rated value20 A- at 110 V rated value0.35 A- at 110 V rated value0.2 A- at 220 V rated value1.5 A- at 220 V rated value20 A- at 220 V rated value20 A- at 220 V rated value6.5 kW- at 220 V rated value1.5 A- at 230 V rated value6.5 kW- at 230 V rated value6.5 kW- at 230 V rated value1.5 kW- at 400 V rated value1.5 kW- at 400 V rated value6.5 kW- at 230 V rated value1.5 kW- at 230 V rated value1.5 kW- at 230 V rated value1.6 kW- at 400 V rated value1.8 kW- at 400 V rated value1.8 kW- at 400 V rated value1.8 kW- at 400 V rated value2.2 kW- at 400 V rated value4 kW- at 400 V rated value72 A- beorer loss [W] at AC-3 at 400 V for rated value72 A- beorer loss [W] at AC-3 at 400 V for rated value72 A- beorer loss [W] at AC-3 at 400 V for rated value10000 1/h- at	— at 220 V rated value	1.6 A
- at 24 V rated value20 A- at 110 V rated value20 A- at 220 V rated value16 A- at 240 V rated value1.3 AOperating current20 A- at 24 V rated value20 A- at 24 V rated value0.1 A• att 10 V rated value20 A- at 110 V rated value20 A- at 24 V rated value20 A- at 210 V rated value20 A- at 220 V rated value20 A- at 220 V rated value20 A- at 220 V rated value20 A- at 240 V rated value20 A- at 240 V rated value20 A- at 210 V rated value20 A- at 220 V rated value15 A- at 230 V rated value6 KW- at 230 V rated value6 KW- at 230 V rated value10.5 KW- at 230 V rated value10.5 KW- at 400 V rated value10.5 KW- at 400 V rated value18 KW- at 400 V rated value22 KW- at 400 V rated value20 K- at 400 V rated value10.5 KW- at 230 V rated value10.5 KW- at 400 V rated value10.5 KW- at 400 V rated value10.00 1/h <t< td=""><td>— at 440 V rated value</td><td>0.8 A</td></t<>	— at 440 V rated value	0.8 A
	 with 3 current paths in series at DC-1 	
International and the second	— at 24 V rated value	20 A
at 440 V rated value1.3 AOperating current	— at 110 V rated value	20 A
Operating current20 A- at 24 V rated value20 A- at 110 V rated value0.1 A• with 2 current paths in series at DC-3 at DC-5- at 110 V rated value- at 110 V rated value0.35 A- at 24 V rated value20 A- at 220 V rated value20 A- at 220 V rated value20 A- at 24 V rated value20 A- at 24 V rated value20 A- at 24 V rated value0.2 AOperating power0.2 A• at AC 16 kW- at 230 V rated value6.5 kW- at 230 V rated value10.5 kW- at 230 V rated value10.5 kW- at 400 V rated value2.2 kW- at 230 V rated value10.5 kW- at 230 V rated value10.7 kW- at 230 V rated value10.7 kW- at 230 V rated value2.2 kW- at 400 V rated value2.2 kW- at 400 V rated value10.7 kW- at 400 V rated value10.000 1/hOperating current per conductor10.000 1/h	— at 220 V rated value	16 A
 • at 1 current path at DC-3 at DC-5 - at 24 V rated value - at 110 V rated value - at 24 V rated value - at 200 V rated value - at 24 V rated value - at 250 V rated value - at 260 °C rated value - at 260 °C rated value - at 250 V rated value -	— at 440 V rated value	1.3 A
- at 24 V rated value20 A- at 110 V rated value0.1 A• with 2 current paths in series at DC-3 at DC-5 at 110 V rated value20 A- at 24 V rated value20 A• with 3 current paths in series at DC-3 at DC-5 at 24 V rated value20 A- at 220 V rated value20 A- at 220 V rated value20 A- at 24 V rated value6.5 kW- at 230 V rated value6.5 kW- at 230 V rated value6.5 kW- at 400 V rated value10.5 kW- at 400 V rated value10.5 kW- at 400 V rated value18 kW- at 400 V rated value4 kW• at AC-3 at 230 V rated value22 kW- at 230 V rated value4 kW• at AC-3 at 400 V rated value10.5 kW- at 230 V rated value10 kW• at AC-3 at 400 V rated value10 kW• at AC-3 at 400 V rated value10 kW• at AC-3 at 400 V rated value10 000 1/hPower loss [W] at AC-3 at 400 V rated value of the operating current per conductor10 000 1/hNo-load switching frequency • at AC-1 maximum1000 1/h	Operating current	
- at 110 V rated value0.1 A• with 2 current paths in series at DC-3 at DC-50.35 A- at 24 V rated value20 A• with 3 current paths in series at DC-3 at DC-520 A- at 220 V rated value20 A- at 220 V rated value20 A- at 220 V rated value20 A- at 24 V rated value20 A- at 24 V rated value20 A- at 24 V rated value0.2 AOperating power0.2 A• at AC-16.5 kW- at 230 V rated value6.5 kW- at 230 V rated value10.5 kW- at 400 V rated value11 kW- at 400 V rated value10.5 kW- at 690 V at 60 °C rated value18 kW• at AC-22.2 kW- at 230 V rated value72 APower loss [M] at AC-3 at 400 V for rated value of the operating current per conductor72 APower loss [M] at AC-3 at 400 V for rated value of the operating current per conductor72 APower loss [M] at AC-3 at 400 V for rated value of the operating current per conductor72 ANoload switching frequency • at AC10000 1/hOperating frequency • at AC-1 maximum1000 1/h	• at 1 current path at DC-3 at DC-5	
 with 2 current paths in series at DC-3 at DC-5 at 110 V rated value 20 A at 24 V rated value 20 A with 3 current paths in series at DC-3 at DC-5 at 110 V rated value 20 A at 110 V rated value 20 A at 220 V rated value 20 A at 24 V rated value 20 A at 220 V rated value at 24 V rated value at 440 V rated value 20 A at 440 V rated value 0.2 A Operating power at 230 V rated value 6.5 kW at 230 V rated value 6.5 kW at 230 V rated value 6.5 kW at 230 V rated value 11 kW at 400 V rated value 12 kW at 400 V rated value at 600 V rated value at AC-1 at 600 V rated value at AC-2 at 400 V rated value at AC-3 at 400 V rated value at AC-3 at 400 V rated value bi kW at AC-3 at 400 V for rated value class W at AC-3 at 400 V for rated value bi constring current per conductor Ac Dower loss [M] at AC-3 at 400 V for rated value of the operating current per conductor Ac Dower loss [M] at AC-3 at 400 V for rated value of the operating current per conductor Ac Dower loss [M] at AC-3 at 400 V for rated value of the operating current per conductor Ac Dower loss [M] at AC-3 at 400 V for rated value of the operating current per conductor Ac Di cond r/h	— at 24 V rated value	20 A
- at 110 V rated value0.35 Å- at 24 V rated value20 Å• with 3 current paths in series at DC-3 at DC-5 at 110 V rated value20 Å- at 220 V rated value1.5 Å- at 24 V rated value0.2 Å- at 440 V rated value0.2 ÅOperating power at 230 V rated value6.5 kW- at 230 V rated value6 kW- at 400 V rated value11 kW- at 400 V rated value10.5 kW- at 400 V rated value18 kW- at 400 V rated value18 kW- at 690 V rated value22 kW- at 400 V rated value0.7 W- at 400 V rated value72 Å- at 230 V rated value72 Å- at 400 V rated value10.5 kW- at 400 V rated value10.5 kW- at 400 V rated value10.7 kW- at 400 V rated value72 Å- at 400 V rated value72 Å- at 400 V rated value72 Å- at 400 V rated value of10 000 1/h- at AC10 000 1/hOperating frequency1000 1/h	— at 110 V rated value	0.1 A
- at 24 V rated value20 A• with 3 current paths in series at DC-3 at DC-520 A- at 110 V rated value20 A- at 220 V rated value20 A- at 24 V rated value20 A- at 24 V rated value0.2 AOperating power-• at AC-1 at 230 V rated value6.5 kW- at 230 V rated value6.5 kW- at 230 V rated value6.5 kW- at 400 V rated value10.5 kW- at 400 V rated value10.5 kW- at 400 V rated value18 kW• at AC-2 at 400 V rated value4 kW• at AC-3 at 230 V rated value2.2 kW- at 400 V rated value2.2 kW• at AC-3 at 230 V rated value72 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor72 ANo-load switching frequency-• at AC10 000 1/hOperating frequency1000 1/h	 with 2 current paths in series at DC-3 at DC-5 	
 with 3 current paths in series at DC-3 at DC-5 at 110 V rated value at 220 V rated value at 220 V rated value at 24 V rated value at 24 V rated value at 440 V rated value 20 A at 440 V rated value 20 A at 440 V rated value 0.2 A Operating power at AC-1 at AC-1 at 230 V rated value 6.5 kW at 230 V rated value 6.5 kW at 400 V rated value 6.5 kW at 400 V rated value 10.5 kW at 60° C rated value 10.5 kW at 60° C rated value 10.5 kW at 60° C rated value 10.5 kW at 60° V rated value 4 kW at AC-3 at AC-3 at AC-3 At AC-3 At 00 V rated value 4 kW At AC-3 At 00 V for rated value of the operating current limited to 10 s 72 A Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency at AC t AC 10 000 1/h 	— at 110 V rated value	0.35 A
- at 110 V rated value20 A- at 220 V rated value1.5 A- at 24 V rated value20 A- at 440 V rated value0.2 AOperating power at 230 V rated value6.5 kW- at 230 V rated value6.5 kW- at 230 V rated value6 kW- at 230 V rated value11 kW- at 400 V rated value10.5 kW- at 400 V rated value18 kW- at 230 V rated value2.2 kW- at 230 V rated value4 kW- at 230 V rated value2.2 kW- at 400 V rated value72 A- at 400 V rated value0.7 W- at 400 V for rated value10 000 1/h- at AC-3- 10 000 1/h	— at 24 V rated value	20 A
	 with 3 current paths in series at DC-3 at DC-5 	
- at 24 V rated value20 A- at 440 V rated value0.2 AOperating power at AC-1 at 230 V rated value6.5 kW- at 230 V rated value6.5 kW- at 230 V rated value11 kW- at 400 V rated value10.5 kW- at 400 V rated value10.5 kW- at 400 V rated value18 kW- at 400 V rated value2.2 kW- at 400 V rated value2.2 kW- at 230 V rated value2.2 kW- at 230 V rated value72 AThermal short-time current limited to 10 s72 APower loss [W] at AC-3 at 400 V for rated value of the operating frequency • at AC10 000 1/hOperating frequency • at AC-1 maximum1000 1/h	— at 110 V rated value	20 A
Instruction0.2 AOperating power • at AC-1 at 230 V rated value6.5 kW- at 230 V rated value6 kW- at 230 V rated value11 kW- at 400 V rated value10.5 kW- at 400 V rated value10.5 kW- at 690 V at 60 °C rated value18 kW- at 690 V at 60 °C rated value18 kW- at 230 V rated value2.2 kW- at 230 V rated value4 kW• at AC-3 at 230 V rated value0.7 W- at 230 V rated value10 000 1/hOperating frequency • at AC-1 maximum1000 1/h	— at 220 V rated value	1.5 A
Operating power• at AC-1- at 230 V rated value- at 400 V rated value- at 690 V at 60 °C rated value- at 690 V at 60 °C rated value- at 690 V at 60 °C rated value- at 230 V rated value- at 400 V rated value<	— at 24 V rated value	20 A
• at AC-16.5 kW- at 230 V rated value6.5 kW- at 230 V at 60 °C rated value6 kW- at 400 V rated value11 kW- at 400 V at 60 °C rated value10.5 kW- at 690 V at 60 °C rated value18 kW- at 690 V at 60 °C rated value18 kW- at 230 V rated value2.2 kW- at 230 V rated value4 kW- at 230 V rated value2.2 kW- at 400 V rated value4 kW- at 230 V rated value0.7 WThermal short-time current limited to 10 s72 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor0.7 WNo-load switching frequency • at AC10 000 1/hOperating frequency • at AC-1 maximum1 000 1/h	— at 440 V rated value	0.2 A
- at 230 V rated value6.5 kW- at 230 V at 60 °C rated value6 kW- at 400 V rated value11 kW- at 400 V at 60 °C rated value10.5 kW- at 690 V at 60 °C rated value18 kW- at 690 V at 60 °C rated value2 kW- at 690 V rated value2.2 kW- at 230 V rated value2.2 kW- at 230 V rated value72 A- at 400 V rated value0.7 WNo-load switching frequency • at AC-1 maximum10 000 1/h	Operating power	
- at 230 V at 60 °C rated value6 kW- at 400 V rated value11 kW- at 400 V at 60 °C rated value10.5 kW- at 690 V at 60 °C rated value18 kW• at AC-2 at 400 V rated value4 kW• at AC-3 at 230 V rated value2.2 kW- at 400 V rated value4 kW• at AO V rated value72 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor0.7 WNo-load switching frequency • at AC10 000 1/hOperating frequency • at AC-1 maximum1 000 1/h	● at AC-1	
- at 400 V rated value11 kW- at 400 V at 60 °C rated value10.5 kW- at 690 V at 60 °C rated value18 kW- at 690 V at 60 °C rated value4 kW• at AC-2 at 400 V rated value4 kW• at AC-3 at 230 V rated value2.2 kW- at 400 V rated value4 kWThermal short-time current limited to 10 s72 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor0.7 WNo-load switching frequency • at AC10 000 1/hOperating frequency • at AC-1 maximum1 000 1/h	— at 230 V rated value	6.5 kW
- at 400 V at 60 °C rated value10.5 kW- at 690 V at 60 °C rated value18 kW• at AC-2 at 400 V rated value4 kW• at AC-32.2 kW- at 230 V rated value4 kW- at 400 V rated value4 kW- at 400 V rated value0.7 kWThermal short-time current limited to 10 s72 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor0.7 WNo-load switching frequency • at AC10 000 1/hOperating frequency • at AC-1 maximum1 000 1/h	— at 230 V at 60 °C rated value	6 kW
- at 690 V at 60 °C rated value18 kW• at AC-2 at 400 V rated value4 kW• at AC-32.2 kW- at 230 V rated value4 kW- at 400 V rated value72 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor0.7 WNo-load switching frequency • at AC10 000 1/hOperating frequency • at AC-1 maximum1 000 1/h	— at 400 V rated value	11 kW
• at AC-2 at 400 V rated value4 kW• at AC-3 at 230 V rated value2.2 kW- at 400 V rated value4 kWThermal short-time current limited to 10 s72 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor0.7 WNo-load switching frequency • at AC10 000 1/hOperating frequency • at AC-1 maximum1 000 1/h	— at 400 V at 60 °C rated value	10.5 kW
• at AC-32.2 kW- at 230 V rated value2.2 kW- at 400 V rated value4 kWThermal short-time current limited to 10 s72 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor0.7 WNo-load switching frequency • at AC10 000 1/hOperating frequency • at AC-1 maximum1 000 1/h	— at 690 V at 60 °C rated value	18 kW
- at 230 V rated value2.2 kW- at 400 V rated value4 kWThermal short-time current limited to 10 s72 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor0.7 WNo-load switching frequency • at AC10 000 1/hOperating frequency • at AC-1 maximum1000 1/h	• at AC-2 at 400 V rated value	4 kW
	● at AC-3	
Thermal short-time current limited to 10 s72 APower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor0.7 WNo-load switching frequency • at AC10 000 1/hOperating frequency • at AC-1 maximum1 000 1/h	— at 230 V rated value	2.2 kW
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor0.7 WNo-load switching frequency • at AC10 000 1/hOperating frequency • at AC-1 maximum1 000 1/h	— at 400 V rated value	4 kW
the operating current per conductorImage: conductorNo-load switching frequency • at AC10 000 1/hOperating frequency • at AC-1 maximum1 000 1/h	Thermal short-time current limited to 10 s	72 A
No-load switching frequency 10 000 1/h • at AC 10 000 1/h Operating frequency 1 000 1/h • at AC-1 maximum 1 000 1/h		0.7 W
• at AC 10 000 1/h Operating frequency 1 000 1/h • at AC-1 maximum 1 000 1/h		
Operating frequency 1 000 1/h		10,000,1/b
• at AC-1 maximum 1 000 1/h		10 000 1/h
		1 000 1/b
• at AG-2 maximum 750 1/n		
	• at AC-2 maximum	750 1/11

● at AC-3 maximum	750 1/h
	250 1/h
• at AC-4 maximum	250 1/11
Control circuit/ Control	
Type of voltage of the control supply voltage	AC
Control supply voltage at AC	
• at 50 Hz rated value	230 V
• at 60 Hz rated value	230 V
Operating range factor control supply voltage rated	
value of magnet coil at AC	
● at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
Apparent pick-up power of magnet coil at AC	
● at 50 Hz	27 V·A
• at 60 Hz	31.7 V·A
Inductive power factor with closing power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.81
Apparent holding power of magnet coil at AC	
• at 50 Hz	4.2 V·A
• at 60 Hz	4.8 V·A
Inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
• at 60 Hz	0.25
Closing delay	
• at AC	9 35 ms
Opening delay	
• at AC	3.5 14 ms
Arcing time	10 15 ms
Auxiliary circuit	
Number of NC contacts	
 for auxiliary contacts 	
— instantaneous contact	0
Number of NO contacts	
 for auxiliary contacts 	
— instantaneous contact	0
Contact reliability of 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	7.6 A
 at 600 V rated value 	9 A

Yielded mechanical performance [hp]				
 for single-phase AC motor 				
— at 110/120 V rated value	0.33 hp			
— at 230 V rated value	1 hp			
 for three-phase AC motor 				
— at 200/208 V rated value	2 hp			
— at 220/230 V rated value	3 hp			
— at 460/480 V rated value	5 hp			
— at 575/600 V rated value	7.5 hp			
Short-circuit protection				
Design of the fuse link				
 for short-circuit protection of the main circuit 				
— with type of coordination 1 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A			
 — with type of assignment 2 required 	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A			
 for short-circuit protection of the auxiliary switch 	fuse gG: 10 A			
required				
nstallation/ 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	58 mm			
Width	45 mm			
Depth	73 mm			
Required spacing				
 with side-by-side mounting 				
— forwards	0 mm			
— Backwards	0 mm			
— upwards	0 mm			
— downwards	0 mm			
— at the side	0 mm			
 for grounded parts 				
— forwards	0 mm			
— Backwards	0 mm			
— upwards	0 mm			
	6 mm			
— at the side				
— at the side — downwards	0 mm			
	0 mm			

— Backwards	0 mm		
— upwards	0 mm		
— downwards	0 mm		
— at the side	6 mm		
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-sections			
for main contacts			
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²		
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²		
— finely stranded with core end processing	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)		
at AWG conductors for main contacts	2x (20 16), 2x (18 14), 2x 12		
Type of connectable conductor cross-sections			
for auxiliary contacts			
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²		
— finely stranded with core end processing	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)		
at AWG conductors for auxiliary contacts	2x (20 16), 2x (18 14), 2x 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 %		
 with high demand rate acc. to SN 31920 	73 %		
Failure rate [FIT]			
 with low demand rate acc. to SN 31920 	100 FIT		
Product function			
 Mirror contact acc. to IEC 60947-4-1 	Yes; with 3RH29		
T1 value for proof test interval or service life acc. to IEC 61508	20 у		
Protection against electrical shock	finger-safe		
Certificates/approvals			

General Product	Approval			Functional Safety/Safety of Machinery	Declaration of Conformity
CCC	CSA		EHC	Baumusterbescheini gung	EG-Konf.
Test Certificates		Shipping Appro	val		
spezielle Prüfbescheinigunge <u>n</u>	Typprüfbescheinigu ng/Werkszeugnis	ABS	B U R E A U VERITAS	GL GL	Lloyd's Register LRS
Shipping Approv	al		other		
PRS	RINA	RMRS	Bestätigungen	Umweltbestätigung	

Further information

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

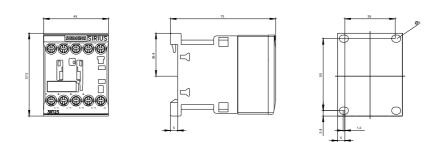
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2316-1AP00

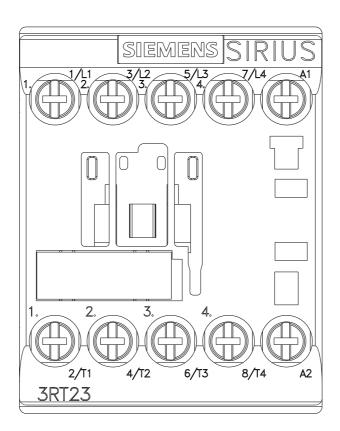
Cax online generator

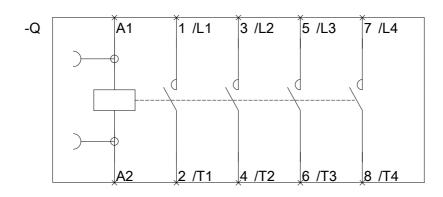
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2316-1AP00

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2316-1AP00

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2316-1AP00&lang=en







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