SIEMENS

Data sheet

3RT1056-6SF36



power contactor, AC-3e/AC-3 185 A, 90 kW / 400 V AC (50-60 Hz) / DC Uc: 96-127 V x (0.8-1.1) F-PLC input 24 V DC 3-pole, auxiliary contacts 2 NO + 2 NC drive: electronic main circuit: busbar control and auxiliary circuit: screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S6
product extension	
function module for communication	No
 auxiliary switch 	Yes
power loss [W] for rated value of the current	
at AC in hot operating state	39 W
• at AC in hot operating state per pole	13 W
 without load current share typical 	2.8 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
• of auxiliary circuit with degree of pollution 3 rated value	500 V
surge voltage resistance	
 of main circuit rated value 	8 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
• at DC	13,4g / 5 ms, 6,5g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	03/01/2017
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %

Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
 at AC-3 rated value maximum 	1 000 V
 at AC-3e rated value maximum 	1 000 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	215 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	215 A
— up to 690 V at ambient temperature 60 °C rated value	185 A
 — up to 1000 V at ambient temperature 40 °C rated value 	100 A
— up to 1000 V at ambient temperature 60 °C rated value	100 A
• at AC-3	
— at 400 V rated value	185 A
— at 500 V rated value	185 A
— at 690 V rated value	170 A
— at 1000 V rated value	65 A
• at AC-3e	
— at 400 V rated value	185 A
— at 500 V rated value	185 A
— at 690 V rated value	170 A
— at 1000 V rated value	65 A
• at AC-4 at 400 V rated value	160 A
• at AC-5a up to 690 V rated value	189 A
 at AC-5b up to 400 V rated value at AC-6a 	153 A
 — up to 230 V for current peak value n=20 rated value 	157 A
 — up to 400 V for current peak value n=20 rated value 	157 A
 — up to 500 V for current peak value n=20 rated value 	157 A
 — up to 690 V for current peak value n=20 rated value 	157 A
— up to 1000 V for current peak value n=20 rated value	65 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	105 A
— up to 400 V for current peak value n=30 rated value	105 A
 — up to 500 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value 	105 A
— up to 1000 V for current peak value n=30 rated value value	105 A 65 A
minimum cross-section in main circuit at maximum AC-1 rated value	95 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	81 A
• at 690 V rated value	65 A
operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	160 A
— at 60 V rated value	160 A
— at 110 V rated value	18 A
— at 220 V rated value	3.4 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.5 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	160 A
— at 60 V rated value	160 A
— at 110 V rated value	160 A

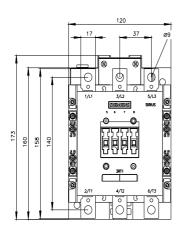
	— at 220 V rated value	20 A
•••••••••••••••••••••••••••••••••••		
		1.6 A
	 with 3 current paths in series at DC-1 	
	— at 24 V rated value	
al 220 Vrated value180 Å al 600 Vrated value4 Å al 61 Vrated value100 Å al 61 Vrated value100 Å al 61 Vrated value25 Å al 61 Vrated value0.6 Å al 61 Vrated value0.6 Å al 61 Vrated value0.6 Å al 62 Vrated value0.		
- al 440 Vrated value115 Å- at 600 Vrated value4 Å- at 634 Vrated value160 Å- at 634 Vrated value160 Å- at 634 Vrated value25 Å- at 630 Vrated value0.04 Å- at 630 Vrated value0.017 Å- at 630 Vrated value0.17 Å- at 630 Vrated value0.017 Å- at 630 Vrated value0.02 Å- at 640 Vrated value0.02 Å- at 640 Vrated value100 Å- at 640 Vrated value0.05 Å- at 640 Vrated value100 Å- at 640 Vrated value0.05 Å- at 640 Vrated value0.05 Å- at 640 Vrated value100 Å-	— at 110 V rated value	160 A
	— at 220 V rated value	160 A
• at 1 current path at DC-3 at DC-5•- at 24 V rated value7.5 A- at 10 V rated value2.5 A- at 20 V rated value0.6 A- at 20 V rated value0.17 A- at 24 V rated value0.17 A- at 24 V rated value100 A- at 24 V rated value0.17 A- at 24 V rated value100 A- at 32 V rated value100 A- at 32 V rated value0.65 A- at 24 V rated value0.65 A- at 24 V rated value0.65 A- at 24 V rated value100 A- at 32 V rated value100 A- at 320 V rated value100 A <td< td=""><td>— at 440 V rated value</td><td>11.5 A</td></td<>	— at 440 V rated value	11.5 A
- at 24 V relation100 A- at 30 V rated value7.5 A- at 20 V rated value0.6 A- at 20 V rated value0.17 A- at 20 V rated value0.17 A- at 60 V rated value0.12 A- at 60 V rated value100 A- at 60 V rated value100 A- at 60 V rated value0.02 A- at 72 V rated value100 A- at 72 V rated value0.05 A- at 72 V rated value0.37 A- at 72 V rated value0.37 A- at 72 V rated value0.57 A- at 72 V rated value0.05 A- at 72 V rated value100 A- at 72 V rated value100 A- at 72 V rated value0.05 A- at 72 V rated value100 A- at 72 V rated value90 kW- at 72 V rated value90 kW- at 72 V rated value100 kW	— at 600 V rated value	4 A
- af 160 V raider value7.5 A- af 110 V raider value25.5 A- af 220 V raider value0.17 A- af 460 V raider value0.17 A- af 460 V raider value0.17 A- af 47 V raider value100 A- af 60 V raider value100 A- af 60 V raider value25.5 A- af 110 V raider value0.05 A- af 20 V raider value100 A- af 20 V raide	 at 1 current path at DC-3 at DC-5 	
- all 10 Y raied value25 A- all 20 V raied value0.17 A- all 60 V raied value0.17 A- all 60 V raied value0.12 A• with 2 current paths in series at DC-3 at DC-3100 A- all 24 V raied value100 A- all 20 V raied value0.05 A- all 20 V raied value<	— at 24 V rated value	160 A
	— at 60 V rated value	7.5 A
	— at 110 V rated value	2.5 A
	— at 220 V rated value	0.6 A
• with 2 current paths in series at DC-3 at DC-5- at 24 V rated value160 A- at 20 V rated value160 A- at 110 V rated value160 A- at 200 V rated value0.85 A- at 600 V rated value0.85 A- at 600 V rated value0.85 A- at 600 V rated value160 A- at 600 V rated value0.75 A- at 600 V rated value0.75 A- at 600 V rated value0.75 A- at 600 V rated value0.85 N- at 600 V rated value0.80 N- at 600 V rated value100 N- at 600 V rated value100 N- at 600 V rated value65 N- at 600 V rated value60 N- at 600 V rated value100 N- at 600 V rated value60 N- at 600 V rated value60 N- at 600 V rated value60 N- at 600	— at 440 V rated value	0.17 A
	— at 600 V rated value	0.12 A
	 with 2 current paths in series at DC-3 at DC-5 	
- at 110 V rated value 160 A - at 220 V rated value 2.5 A - at 600 V rated value 0.65 A - at 600 V rated value 0.37 A • with 3 current paths in series at DC-3 at DC-3 160 A - at 60 V rated value 160 A - at 60 V rated value 160 A - at 22 V rated value 160 A - at 20 V rated value 0 KW - at 20 V rated value 90 KW - at 20 V rated value 132 KW - at 200 V rated value 100 KW - at 200 V rated value 100 KW - at 200 V rated value 100 KW - at 200 V rated value <	— at 24 V rated value	160 A
	— at 60 V rated value	160 A
- at 440 V rated value0.65 Å- at 600 V rated value0.37 A• with 3 current paths inseries at DC-3 at DC-3160 Å- at 60 V rated value160 Å- at 60 V rated value160 Å- at 10 V rated value160 Å- at 220 V rated value160 Å- at 400 V rated value160 Å- at 400 V rated value160 Å- at 400 V rated value0.75 Å- at 400 V rated value0.75 Å- at 400 V rated value55 KW- at 400 V rated value55 KW- at 400 V rated value160 ÅW- at 400 V rated value55 KW- at 400 V rated value160 ÅW- at 400 V rated value65 KW- at 400 V rated value60 KW- at 400 V rated value65 KW <td>— at 110 V rated value</td> <td>160 A</td>	— at 110 V rated value	160 A
at 600 V rated value 0.37 Å • with 3 current paths in series at DC-3 at DC-5 160 Å at 60 V rated value 160 Å at 60 V rated value 160 Å at 20 V rated value 0.57 Å operating power	— at 220 V rated value	2.5 A
• with 3 current paths in series at DC-3 at DC-5 100 A - at 24 V rated value 100 A - at 80 V rated value 100 A - at 100 V rated value 100 A - at 220 V rated value 100 A - at 200 V rated value 0.75 A operating power 0.75 A • at AC-2 at 400 V rated value 0.75 A operating power 0.75 A - at 230 V rated value 0.8 KW • at AC-2 at 400 V rated value 0.8 KW - at 230 V rated value 0.8 KW - at 230 V rated value 0.8 KW - at 800 V rated value 0.8 KW - at 800 V rated value 0.8 KW - at 800 V rated value 0.8 KW - at 230 V rated value 0.8 KW - at 230 V rated value 0.8 KW - at 600 V rated value 0.8 KW - at 800 V rated value 0.8 KW - at 800 V rated value 0.8 KW - at 800 V rated value 80 KW - at 800 V rated value 100 KW - at 800 V rated value 100 KW - at 800 V	— at 440 V rated value	0.65 A
	— at 600 V rated value	0.37 A
	 with 3 current paths in series at DC-3 at DC-5 	
at 110 V rated value160 A at 220 V rated value160 A at 440 V rated value160 A at 600 V rated value0.75 Aoperating power at AC-2 at 400 V rated value90 kW at 230 V rated value90 kW at 230 V rated value90 kW at 600 V rated value160 kW at 700 V rated value160 kW at 1000 V rated value90 kW at 1000 V rated value90 kW at 230 V rated value90 kW at 400 V rated value90 kW at 400 V rated value90 kW at 600 V rated value90 kW<	— at 24 V rated value	160 A
	— at 60 V rated value	160 A
	— at 110 V rated value	160 A
at 800 V rated value0.75 Åoperating power90 kW• at AC-2 at 400 V rated value90 kW• at AC-3 at 230 V rated value at 230 V rated value90 kW at 600 V rated value90 kW at 600 V rated value90 kW at 600 V rated value90 kW at 1000 V rated value90 kW at 1000 V rated value90 kW at 230 V rated value90 kW at 230 V rated value90 kW at 230 V rated value90 kW at 400 V rated value90 kW at 400 V rated value90 kW at 630 V rated value60 kW at 630 V rated value70 kW at 630 V rated value n=20 rated value130 000 VA up to 230 V for current peak value n=20 rated value130 000 VA up to 500 V for current peak value n=3	— at 220 V rated value	160 A
operating power90 kW• at AC-2 at 400 V rated value90 kW• at 230 V rated value90 kW- at 230 V rated value90 kW- at 400 V rated value90 kW- at 500 V rated value90 kW- at 690 V rated value132 kW- at 690 V rated value90 kW- at 690 V rated value90 kW- at 1000 V rated value90 kW- at 230 V rated value90 kW- at 400 V rated value90 kW- at 400 V rated value90 kW- at 690 V rated value90 kW- at 1000 V rated value90 kW- at 400 V rated value90 kW- at 690 V rated value60 kW- at 400 V rated value70 kW- at 400 V rated value100 000 VA- up to 500 V for current peak value n=20 rated value100 000 VA- up to 500 V for current peak value n=20 rated value100 000 VA- up	— at 440 V rated value	1.4 A
• at AC-2 at 400 V rated value 90 kW • at AC-3 - - at 230 V rated value 55 kW - at 400 V rated value 90 kW - at 600 V rated value 90 kW - at 690 V rated value 132 kW - at 690 V rated value 90 kW - at 690 V rated value 90 kW - at 1000 V rated value 90 kW - at 230 V rated value 90 kW - at 200 V rated value 90 kW - at 600 V rated value 90 kW - at 600 V rated value 90 kW - at 600 V rated value 132 kW - at 600 V rated value 160 kW - at 600 V rated value 160 kW - at 600 V rated value 65 kW operating apparent power 4 AC-6a 65 kW - up to 230 V for current peak value n=20 rated value 100 000 VA - up to 500 V for current peak value n=20 rated value 100 000 VA - up to 500 V for current peak value n=30 rated value	— at 600 V rated value	0.75 A
• at AC-3- at 230 V rated value55 kW- at 400 V rated value90 kW- at 500 V rated value132 kW- at 600 V rated value60 kW- at 1000 V rated value90 kW- at 230 V rated value90 kW- at 400 V rated value90 kW- at 600 V rated value80 kW- at 600 V rated value80 kW- at 1000 V rated value80 kW- at 600 V rated value60 000 kVA- at 600 V rated value60 000 kVA- at 600 V rated value60 000 kVA- at 600 V rated value n=20 rated value100 000 VA- up to 230 V for current peak value n=20 rated value100 000 VA- up to 500 V for current peak value n=20 rated value110 000 VA- up to 500 V for current peak value n=20 rated value110 000 VA- up to 500 V for current peak value n=30 rated value110 000 VA- up to 500 V for current peak value n=30 rated value90 000 VA- up to 500 V for current peak value n=30 rated value100 000 VA- up to 500 V for current peak value n=30 rated value90 000 VA- up to 500 V for current peak value n=30 rated value90 000 VA- up to 500 V for current peak value n=30 rated v	operating power	
- at 230 V rated value 55 kW - at 400 V rated value 90 kW - at 500 V rated value 132 kW - at 690 V rated value 160 kW - at 1000 V rated value 90 kW - at 1000 V rated value 90 kW - at 230 V rated value 90 kW - at 230 V rated value 90 kW - at 400 V rated value 90 kW - at 400 V rated value 90 kW - at 500 V rated value 90 kW - at 690 V rated value 90 kW - at 690 V rated value 90 kW - at 690 V rated value 90 kW - at 600 V rated value 90 kW operating power for approx. 200000 operating cycles at AC-4 45 kW • at 400 V rated value 60 000 kVA • up to 230 V for current peak value n=20 rated value 100 000 VA • up to 630 V for current peak value n=20 rated value 130 000 VA • up to 630 V for current peak value n=20 rated value 180 000 VA	 at AC-2 at 400 V rated value 	90 kW
- at 400 V rated value90 kW- at 500 V rated value132 kW- at 690 V rated value160 kW- at 690 V rated value90 kW- at 230 V rated value55 kW- at 230 V rated value90 kW- at 400 V rated value90 kW- at 690 V rated value132 kW- at 690 V rated value132 kW- at 690 V rated value90 kW- at 690 V rated value90 kW- at 690 V rated value90 kW- at 690 V rated value60 kW- at 690 V rated value60 kW- at 690 V rated value60 kW- at 690 V rated value65 kW- at 690 V rated value60 000 kVA- at 690 V rated value n=20 rated value100 000 VA- at 690 V rater peak value n=20 rated value100 000 VA- up to 500 V for current peak value n=20 rated value130 000 VA- up to 690 V for current peak value n=20 rated value180 000 VA- up to 500 V for current peak value n=20 rated value100 00V A- up to 500 V for current peak value n=20 rated value100 00V A- up to 500 V for current peak value n=20 rated value100 00V A- up to 500 V for current peak value n=20 rated value100 00V A- up to 500 V for current peak value n=30 rated value90 000 VA- up to 500 V for current peak value n=30 rated value100 00V A- up to 500 V for current peak value n=30 rated value90 000 VA- up to 690 V for current peak value n=30 rated value90 000 VA- up to 690 V for current peak value n=30 rated value<	• at AC-3	
- at 500 V rated value132 kW- at 690 V rated value160 kW- at 1000 V rated value90 kW- at 230 V rated value55 kW- at 230 V rated value90 kW- at 400 V rated value90 kW- at 400 V rated value90 kW- at 690 V rated value90 kW- at 690 V rated value90 kW- at 1000 V rated value90 kW- at 690 V rated value90 kW- at 690 V rated value90 kW- at 1000 V rated value60 kW- at 1000 V rated value60 kW- at 690 V rated value100 kWA- at 690 V rated value n=20 rated value100 000 VA- at 690 V rated value n=20 rated value100 000 VA- up to 230 V for current peak value n=20 rated value100 000 VA- up to 690 V for current peak value n=20 rated value100 00V A- up to 690 V for current peak value n=20 rated value100 00V A- up to 230 V for current peak value n=20 rated value100 00V A- up to 690 V for current peak value n=20 rated value100 00V A- up to 690 V for current peak value n=20 rated value100 00V A- up to 690 V for current peak value n=30 rated value90 000 VA- up to 600 V for current peak value n=30 rated value100 00V A- up to 690 V for current peak value n=30 rated value90 000 VA- up to 690 V for current peak value n=30 rated value120 000 VA- up t	— at 230 V rated value	55 kW
at 690 V rated value160 kW at 1000 V rated value90 kW• at AC-3e at 230 V rated value55 kW at 400 V rated value90 kW at 600 V rated value90 kW at 600 V rated value160 kW at 600 V rated value90 kW at 1000 V rated value90 kWoperating power for approx. 20000 operating cycles at AC-490 kW at 600 V rated value65 kWoperating apparent power at AC-6a up to 230 V for current peak value n=20 rated value60 000 kVA up to 500 V for current peak value n=20 rated value130 000 VA up to 500 V for current peak value n=20 rated value180 000 VA up to 500 V for current peak value n=20 rated value180 000 VA up to 230 V for current peak value n=20 rated value180 000 VA up to 500 V for current peak value n=20 rated value180 000 VA up to 500 V for current peak value n=20 rated value180 000 VA up to 230 V for current peak value n=30 rated value40 000 VA up to 230 V for current peak value n=30 rated value40 000 VA up to 230 V for current peak value n=30 rated value90 000 VA up to 500 V for current peak value n=30 rated value40 000 VA up to 500 V for current peak value n=30 rated value40 000 VA up to 690 V for current peak value n=30 rated value70 000 VA up to 690 V for current peak value n=30 rated value70 000 VA up to 690 V for current peak value n=30 rated value90 000 VA <td>— at 400 V rated value</td> <td>90 kW</td>	— at 400 V rated value	90 kW
- at 1000 V rated value90 kW• at AC-3e at 230 V rated value55 kW- at 200 V rated value90 kW- at 400 V rated value90 kW- at 500 V rated value90 kW- at 690 V rated value180 kW- at 1000 V rated value90 kW- at 1000 V rated value90 kW- at 1000 V rated value90 kWoperating power for approx. 20000 operating cycles at AC-490 kW• at 400 V rated value90 kWoperating power for approx. 20000 operating cycles at AC-445 kW• at 400 V rated value60 000 kVA• at 690 V rated value60 000 kVA• up to 230 V for current peak value n=20 rated value100 000 VA• up to 500 V for current peak value n=20 rated value130 000 VA• up to 500 V for current peak value n=20 rated value130 000 VA• up to 500 V for current peak value n=20 rated value130 000 VA• up to 500 V for current peak value n=20 rated value140 000 VA• up to 230 V for current peak value n=30 rated value40 000 VA• up to 230 V for current peak value n=30 rated value70 000 VA• up to 500 V for current peak value n=30 rated value90 000 VA• up to 500 V for current peak value n=30 rated value120 000 VA• up to 690 V for current peak value n=30 rated value120 000 VA• up to 690 V for current peak value n=30 rated value120 000 VA• up to 690 V for current peak value n=30 rated value120 000 VA	— at 500 V rated value	132 kW
• at AC-3e- at 230 V rated value55 kW- at 400 V rated value90 kW- at 500 V rated value132 kW- at 690 V rated value160 kW- at 1000 V rated value90 kWoperating power for approx. 200000 operating cycles at AC-47• at 400 V rated value45 kW• at 690 V rated value65 kW• at 690 V rated value65 kW• at 690 V rated value60 000 kVA• up to 230 V for current peak value n=20 rated value100 000 VA• up to 500 V for current peak value n=20 rated value130 000 VA• up to 500 V for current peak value n=20 rated value130 000 VA• up to 500 V for current peak value n=20 rated value130 000 VA• up to 500 V for current peak value n=20 rated value130 000 VA• up to 500 V for current peak value n=20 rated value100 000 VA• up to 500 V for current peak value n=20 rated value100 000 VA• up to 500 V for current peak value n=20 rated value100 000 VA• up to 500 V for current peak value n=20 rated value100 000 VA• up to 500 V for current peak value n=20 rated value100 000 VA• up to 500 V for current peak value n=30 rated value40 000 VA• up to 230 V for current peak value n=30 rated value90 000 VA• up to 500 V for current peak value n=30 rated value90 000 VA• up to 690 V for current peak value n=30 rated value120 000 VA• up to 690 V for current peak value n=30 rated value120 000 VA	— at 690 V rated value	160 kW
- at 230 V rated value55 kW- at 400 V rated value90 kW- at 500 V rated value132 kW- at 690 V rated value160 kW- at 1000 V rated value90 kWoperating power for approx. 200000 operating cycles at AC-4445 kW- at 400 V rated value45 kW- at 690 V rated value66 kW- operating apparent power at AC-6a up to 530 V for current peak value n=20 rated value60 000 kVA- up to 500 V for current peak value n=20 rated value130 000 VA- up to 500 V for current peak value n=20 rated value130 000 VA- up to 500 V for current peak value n=20 rated value130 000 VA- up to 500 V for current peak value n=20 rated value100 000 VA- up to 500 V for current peak value n=20 rated value100 000 VA- up to 500 V for current peak value n=20 rated value100 000 VA- up to 500 V for current peak value n=20 rated value100 000 VA- up to 500 V for current peak value n=20 rated value100 00 VA- up to 500 V for current peak value n=30 rated value90 000 VA- up to 500 V for current peak value n=30 rated value90 000 VA- up to 500 V for current peak value n=30 rated value90 000 VA- up to 500 V for current peak value n=30 rated value120 000 VA	— at 1000 V rated value	90 kW
- at 400 V rated value90 kW- at 500 V rated value132 kW- at 690 V rated value160 kW- at 1000 V rated value90 kWoperating power for approx. 200000 operating cycles at AC-44- at 400 V rated value45 kW- at 400 V rated value66 kW- at 690 V rated value60 000 kVA- operating power at AC-6a100 000 VA- up to 500 V for current peak value n=20 rated value60 000 kVA- up to 500 V for current peak value n=20 rated value130 000 VA- up to 500 V for current peak value n=20 rated value130 000 VA- up to 500 V for current peak value n=20 rated value130 000 VA- up to 500 V for current peak value n=20 rated value100 000 VA- up to 500 V for current peak value n=20 rated value100 000 VA- up to 500 V for current peak value n=20 rated value100 000 VA- up to 500 V for current peak value n=20 rated value100 000 VA- up to 500 V for current peak value n=20 rated value100 000 VA- up to 500 V for current peak value n=30 rated value90 000 VA- up to 500 V for current peak value n=30 rated value90 000 VA- up to 500 V for current peak value n=30 rated value90 000 VA- up to 500 V for current peak value n=30 rated value120 000 VA	• at AC-3e	
- at 500 V rated value132 kW- at 690 V rated value160 kW- at 1000 V rated value90 kWoperating power for approx. 20000 operating cycles at AC-44- at 400 V rated value45 kW- at 400 V rated value65 kW- at 690 V rated value65 kW- operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value60 000 kVA- up to 500 V for current peak value n=20 rated value100 000 VA- up to 500 V for current peak value n=20 rated value130 000 VA- up to 500 V for current peak value n=20 rated value100 000 VA- up to 500 V for current peak value n=20 rated value100 000 VA- up to 500 V for current peak value n=20 rated value100 000 VA- up to 500 V for current peak value n=20 rated value100 000 VA- up to 500 V for current peak value n=20 rated value100 000 VA- up to 1000 V for current peak value n=30 rated value9000 VA- up to 500 V for current peak value n=30 rated value9000 VA- up to 500 V for current peak value n=30 rated value9000 VA- up to 500 V for current peak value n=30 rated value9000 VA- up to 500 V for current peak value n=30 rated value120 000 VA	— at 230 V rated value	55 kW
at 690 V rated value160 kW at 1000 V rated value90 kWoperating power for approx. 200000 operating cycles at AC-4V at 400 V rated value45 kW- at 400 V rated value65 kW- at 690 V rated value65 kW- operating apparent power at AC-6a	— at 400 V rated value	90 kW
at 1000 V rated value90 kWoperating power for approx. 20000 operating cycles at AC- 4	— at 500 V rated value	132 kW
operating power for approx. 200000 operating cycles at AC- 44• at 400 V rated value45 kW• at 690 V rated value65 kWoperating apparent power at AC-6a60 000 kVA• up to 230 V for current peak value n=20 rated value60 000 kVA• up to 400 V for current peak value n=20 rated value100 000 VA• up to 500 V for current peak value n=20 rated value130 000 VA• up to 690 V for current peak value n=20 rated value130 000 VA• up to 1000 V for current peak value n=20 rated value110 000 VA• up to 1000 V for current peak value n=20 rated value100 000 VA• up to 1000 V for current peak value n=20 rated value100 000 VA• up to 1000 V for current peak value n=20 rated value100 000 VA• up to 230 V for current peak value n=30 rated value100 000 VA• up to 230 V for current peak value n=30 rated value40 000 VA• up to 500 V for current peak value n=30 rated value70 000 VA• up to 500 V for current peak value n=30 rated value90 000 VA• up to 690 V for current peak value n=30 rated value120 000 VA	— at 690 V rated value	160 kW
4• at 400 V rated value45 kW• at 690 V rated value65 kWoperating apparent power at AC-6a• up to 230 V for current peak value n=20 rated value60 000 kVA• up to 400 V for current peak value n=20 rated value100 000 VA• up to 500 V for current peak value n=20 rated value130 000 VA• up to 690 V for current peak value n=20 rated value130 000 VA• up to 690 V for current peak value n=20 rated value180 000 VA• up to 1000 V for current peak value n=20 rated value110 000 VA• up to 1000 V for current peak value n=20 rated value110 000 VA• up to 1000 V for current peak value n=20 rated value100 000 VA• up to 500 V for current peak value n=20 rated value100 000 VA• up to 1000 V for current peak value n=20 rated value100 000 VA• up to 500 V for current peak value n=30 rated value100 000 VA• up to 500 V for current peak value n=30 rated value70 000 VA• up to 500 V for current peak value n=30 rated value90 000 VA• up to 690 V for current peak value n=30 rated value120 000 VA	— at 1000 V rated value	90 kW
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	• up to 1000 V for current peak value n=30 rated value	110 000 VA

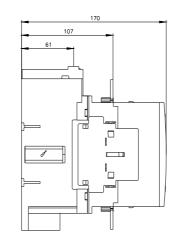
short-time withstand current in cold operating state up to 40 °C			
 limited to 1 s switching at zero current maximum 	2 900 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 5 s switching at zero current maximum 	2 084 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 10 s switching at zero current maximum 	1 480 A: Use minimum cross-section acc. to AC-1 rated value		
 limited to 30 s switching at zero current maximum 	968 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 60 s switching at zero current maximum 	808 A; Use minimum cross-section acc. to AC-1 rated value 801 A; Use minimum cross-section acc. to AC-1 rated value		
no-load switching frequency			
• at AC	1 000 1/h		
• at DC	1 000 1/h		
operating frequency			
• at AC-1 maximum	750 1/h		
• at AC-2 maximum	300 1/h		
• at AC-3 maximum	750 1/h		
• at AC-3e maximum	750 1/h		
• at AC-4 maximum	130 1/h		
Control circuit/ Control			
type of voltage of the control supply voltage	AC/DC		
control supply voltage at AC			
• at 50 Hz rated value	96 127 V		
• at 60 Hz rated value	96 127 V		
control supply voltage at DC			
rated value	96 127 V		
operating range factor control supply voltage rated value of			
magnet coil at DC			
• initial value	0.8		
• full-scale value	1.1		
operating range factor control supply voltage rated value of magnet coil at AC			
• at 50 Hz	0.8 1.1		
• at 60 Hz	0.8 1.1		
type of PLC-control input according to IEC 60947-1	Туре 1		
consumed current at PLC-control input according to IEC 60947-1 maximum	14 mA		
voltage at PLC-control input rated value	24 V		
operating range factor of the voltage at PLC-control input	0.8 1.1		
design of the surge suppressor	with varistor		
apparent pick-up power of magnet coil at AC			
● at 50 Hz	280 VA		
• at 60 Hz	280 VA		
inductive power factor with closing power of the coil			
• at 50 Hz	0.8		
• at 60 Hz	0.8		
apparent holding power of magnet coil at AC			
• at 50 Hz	4.8 VA		
• at 60 Hz	4.8 VA		
inductive power factor with the holding power of the coil	0.6		
• at 50 Hz	0.6		
• at 60 Hz	0.6 320 W		
_ closing power of magnet coil at DC holding power of magnet coil at DC	2.8 W		
closing delay			
• at AC	60 75 ms		
• at DC	60 75 ms		
opening delay			
• at AC	115 130 ms		
• at DC	115 130 ms		
recovery time after power failure typical	2 s		
arcing time	10 15 ms		
control version of the switch operating mechanism	Fail-safe PLC input (F-PLC-IN)		
Auxiliary circuit			
number of NC contacts for auxiliary contacts instantaneous	2		

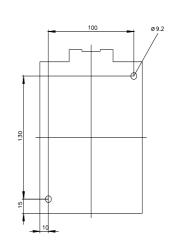
contact	
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	6 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at DC-12	
• at 24 V rated value	10 A
• at 48 V rated value	6 A
• at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 125 V rated value	2 A
• at 220 V rated value	1 A
• at 600 V rated value	0.15 A
operational current at DC-13	
• at 24 V rated value	10 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
● at 125 V rated value	0.9 A
• at 220 V rated value	0.3 A
• at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	180 A
• at 600 V rated value	192 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 230 V rated value	30 hp
• for 3-phase AC motor	
— at 200/208 V rated value	60 hp
— at 220/230 V rated value	75 hp
- at 460/480 V rated value	150 hp
- at 575/600 V rated value	200 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
- with type of coordination 1 required	gG: 355 A (690 V, 100 kA)
— with type of assignment 2 required	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50
	(415 V, 30 KA), ANN. 200 A (650 V, 50 KA), BOOD. 515 A (415 V, 30 KA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
side-by-side mounting	Yes
height	172 mm
width	120 mm
depth	170 mm
required spacing	
with side-by-side mounting	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
 for grounded parts 	

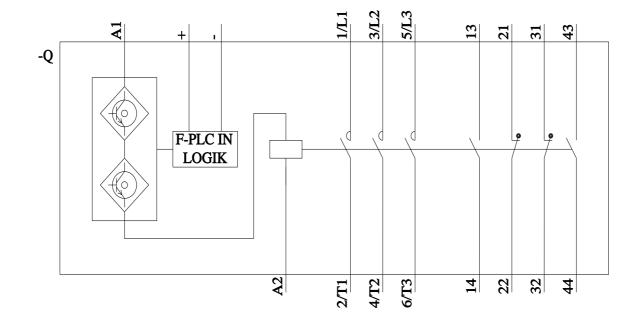
	— forwards	20 mm		
	— upwards	10 mm		
	— at the side	10 mm		
- lowards 20 mm - upwards 10 mm - at the side 10 mm - at the side 10 mm Ormaticuter Translat Connections Error Stranslating and control circuit screw-type terminals - for rain current circuit Screw-type terminals - of rain connection bar 17 min VibitAres of connection bar 3 mm - distranslating contacts Screw-type terminals - of rain connection bar 17 min VibitAres of connection bar 10 mm ² - of rain contacts 2 min - of rain contacts 2 min - of rain contacts 0 for stranslating - solid 2 x (0 for for a 2 for min, max 2x (0 for for a 2 for min) - of raincillary contacts 2 (0 for for a 2 for min, max 2x (0 for for a 4 mm ²) - of raincillary contacts 2 (0 for for for for a 2 for for min) - of raincillary contacts 2 (0 for for a 2 for min), max 2x (0 for for a 4 mm ²) - of raincillary contacts 2 (0 for for for for a 2 for for min), max 2x (0 for for a 4	— downwards	10 mm		
	 for live parts 			
	— forwards	20 mm		
	— upwards	10 mm		
Connections/ Tominals Connection bar Type of electrical connection Connection bar of or and unrent circuit Screw-kype terminals of or angles col Screw-kype terminals of or angles col Screw-kype terminals of magnet col Screw-kype terminals width of connection bar 3 mm diameter of holes 1 connectable conductor cross-section for auxiliary contacts 9 mm of and stranded 25 120 mm² connectable conductor cross-sections 0.5 4 mm² oid of stranded 22 120 mm² of ouxiliary contacts - solid or stranded - solid or stranded 22 15 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) - solid or stranded 2x (0.5 15 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) - solid or stranded 2x (0.5 15 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) - solid or stranded 2x (0.5 15 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) - solid or stranded 2x (0.5 15 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) - solid or stranded 10 14 Strate conding to IEC 60047.6-1	- downwards	10 mm		
type of electrical connection Connection bar • for main current citeuit Screw-type terminals • of auxiliary contacts 9 mm • of auxiliary contacts 9 mm • standed 1 connectable conductor cross-section for auxiliary contacts • standed • standed 0 standed • or auxiliary contacts • standed • standed with core end processing 0 st 2 smm² • product functions 2x (0.5 1 smm²). 2x (0.7 s 2 smm²). 2x (0.7 s 4 mm²) • of auxiliary contacts 2x (0.5 1 smm²). 2x (0.7 s 2 smm²). 2x (0.7 s 4 mm²) inely stranded with core end processing 2x (0.5 1 smm²). 2x (0.7 s 2 smm²). 2x (0.7 s 4 mm²) • for auxiliary contacts 18 14 Sater relates downed connectable conductor cross-section 18 14 Sater relates relates downed to EC 69047-6-1 Yee • product function • mirror contact according to EC 69047-6-1 No • attrib y device type a	— at the side	10 mm		
type of electrical connection Connection bar • for main current citeuit Screw-type terminals • of auxiliary contacts 9 mm • of auxiliary contacts 9 mm • standed 1 connectable conductor cross-section for auxiliary contacts • standed • standed 0 standed • or auxiliary contacts • standed • standed with core end processing 0 st 2 smm² • product functions 2x (0.5 1 smm²). 2x (0.7 s 2 smm²). 2x (0.7 s 4 mm²) • of auxiliary contacts 2x (0.5 1 smm²). 2x (0.7 s 2 smm²). 2x (0.7 s 4 mm²) inely stranded with core end processing 2x (0.5 1 smm²). 2x (0.7 s 2 smm²). 2x (0.7 s 4 mm²) • for auxiliary contacts 18 14 Sater relates downed connectable conductor cross-section 18 14 Sater relates relates downed to EC 69047-6-1 Yee • product function • mirror contact according to EC 69047-6-1 No • attrib y device type a	Connections/ Terminals			
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• for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • with of connection bar 17 mm thickness of connection bar 9 mm number of holes 9 mm connection conductor cross-section for main contacts 9 mm • standed 25 120 mm² connectible conductor cross-section for auxiliary contacts 0.5 4 mm² • standed 0.5 4 mm² • finely stranded with core and processing 0.5 2.5 mm² type of connectable conductor cross-sections - • for auxiliary contacts 22 (0.5 1.5 mm²). 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) • for auxiliary contacts 2x (0.5 1.5 mm²). 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) • for auxiliary contacts 2x (0.5 1.5 mm²). 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) • for auxiliary contacts 2x (0.5 1.5 mm²). 2x (0.75 2.5 mm²) • for auxiliary contacts 2x (0.5 1.5 mm²). 2x (0.75 2.5 mm²) • for auxiliary contacts 2x (0.5 1.5 mm²). 2x (0.75 2.5 mm²) • for auxiliary contacts 2x (0.5 1.5 mm²). 2x (0.75 2.5 mm²) • for auxiliary contac		Connection bar		
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thickness of connection bar 3 mm diameter of holes 9 mm number of holes 1 connectable conductor cross-section for main contacts 25 120 mm ³ connectable conductor cross-section for auxillary contacts 0.5 4 mm ² off auxillary contacts 0.5 4 mm ² - finely stranded with core end processing 0.5 4 mm ² - solid or stranded 2x (0.5 15 mm ²), 2x (0.75 2.5 mm ²), max. 2x (0.75 4 mm ²) - solid or stranded 2x (0.5 15 mm ²), 2x (0.75 2.5 mm ²), max. 2x (0.75 4 mm ²) - solid or stranded with core end processing 2x (0.5 15 mm ²), 2x (0.75 2.5 mm ²), max. 2x (0.75 4 mm ²) - for auxiliary contacts 2x (20 10), 2x (18 14), 1x 12 AWG number as coded connectable conductor cross section 18 14 Safety related data 7 yes product function Yes • mirror contact according to IEC 60947-5-1 No safety driven operation according to IEC 61508-2 Type B B10 value with high demand rate according to SN 31920 1000 000 Safety indight Level (SIL) according to EN 82081 2 SIL Clain Limit (subsystom) according to EN 82081 2 Bafter atal				
diameter of holes 9 mm number of holes 1 connectable conductor cross-section for mail contacts 25 120 mm² e solid or stranded 0.5 4 mm² of auxiliary contacts 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) - solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) - solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) - for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) - for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) - for auxiliary contacts 18 14 AWG number as coded connectable conductor cross section 18 14 Safety related data 100 000 - safety davice type secording to EIC 60947-4-1 Yes • positively driven operation according to EIC 60947-51 No safety related data 1000 000 Jatery related data 2 performance level (FL) according to EIC 61908-2 Type B B10 value with high demand rate according to EIC 61908 2 Safet fulleur fraction (SFF) 93 % Gatalture fraction (SFF)				
number of holes 1 connectable conductor cross-section for main contacts 25 120 mm² connectable conductor cross-section for auxiliary contacts 0.5 4 mm² innely stranded with core end processing 0.5 4 mm² of rauxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) - solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) - solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) - solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) - solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) - firely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) - for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) AWG number as coded connectable conductor cross section 18 14 Safety rolated data 1000 000 Safety rolated data 1000 000 Safety level (SL) according to IEC 60947-5-1 No Safety level (SL) according to EC 61508 2 Safety level (SL) according to IEC 61508-2 Type B SIL Claim Limit (subsystem) according to SN 31920 1000 ITT Prefformance level (PL) according to EN 62061				
connectable conductor cross-section for main contacts 25 120 mm² solid or stranded 25 120 mm² connectable conductor cross-section for auxiliary contacts 0.5 4 mm² inley stranded with core end processing 0.5 2.5 mm² fype of connectable conductor cross-sections 0.5 2.5 mm² - solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) - solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) - solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) - fiely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) - for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) - solid or auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) - for auxiliary contacts 18 14 Safety related data 18 14 Safety related data 100 000 Safety related data 100 000 Safety related data 2 End value with high demand rate according to EN 62061 2 Safety level (PL) according to EN 62061 2 Safety level (PL) according to EN 62061 2 Safe fa				
• stranded 25 120 mm ³ connectable conductor cross-sections 0.5 4 mm ³ • finely stranded with core end processing 0.5 2.5 mm ³ type of connectable conductor cross-sections 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), max. 2x (0.75 4 mm ³) - solid 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), max. 2x (0.75 4 mm ³) - solid or stranded 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), max. 2x (0.75 4 mm ³) • for auxiliary contacts 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), max. 2x (0.75 4 mm ³) • for AuXGe cables for auxiliary contacts 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), max. 2x (0.75 4 mm ³) • for auxiliary contacts 18 14 Safety device cables for auxiliary contacts 18 14 Safety device type according to IEC 60947-5-1 No • positively driven operation according to IEC 60947-5-1 No • positively driven operation according to IEC 60947-5-1 No • positively driven operation according to IEC 61508 2 SlL Claim Limit (subsystem) according to IEC 61508 2 SlL Claim Limit (subsystem) according to IEC 61508 2 Sub claim fractic (SFF) 93 % failure rate [FT] with low demand rate according to IEC 61508				
connectable conductor cross-section for auxiliary contacts 0.5 4 mm² • solid or stranded 0.5 2.5 mm² (ype of connectable conductor cross-sections 0.5 2.5 mm² • for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) - solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) - solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 1x 12 AWG number as coded connectable conductor cross 3x (20 15 mm²), 2x (0.75 2.5 mm²) • for auxiliary contacts 18 14 Safety related data 9x product function 18 14 safety device type according to IEC 60947.4-1 Yes • nirror contact according to IEC 6108-2 Type B B10 value with high demand rate according to SN 31920 1000 000 Safety integrity Level (SIL) according to EN 82061 2 Safety integrity Level (SIL) according to EN 82061 2 stop category according to EN 180 13849-1 c category according to EN 820201 0<				
		25 120 mm²		
• finely stranded with core end processing 0.5 2.5 mm ² type of connectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), max. 2x (0.75 4 mm ²) • for auxiliary contacts 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), max. 2x (0.75 4 mm ²) • for auxiliary contacts 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), max. 2x (0.75 4 mm ²) • for auxiliary contacts 2x (20 16), 2x (18 14), 1x 12 AWG number as coded connectable conductor cross section • for auxiliary contacts • for auxiliary contacts 18 14 Safety related data • relation of the contact according to IEC 60947-5-1 ne mirror contact according to IEC 60947-5-1 No safety theighty Level (SLL) according to IEC 61508-2 Type B B10 value with high demand rate according to EN 5001 2 Safety integrity Level (SLL) according to EN 50013920 100 0000 Safety integrity Level (SLL) according to EN 5013940-1 c categroy according to EN 150 13849-1 c categroy according to EN 150 13849-1 c categroy according to EN 502061 4.5E-7 1/n PPED with high demand rate according to SN 31920 100 FIT <	-			
type of connectable conductor cross-sections • for auxiliary contacts solid solid or stranded solid or stranded finely stranded with core end processing 2x (0.51,5 mm²), 2x (0.752,5 mm²), max, 2x (0.754 mm²) finely stranded with core end processing 2x (0.51,5 mm²), 2x (0.752,5 mm²) • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for auxiliary contacts 1814 Sofety related data product function • mirror contact according to IEC 60947-5-1 No safety device type according to IEC 61508-2 B10 value with high demand rate according to IEC 61508 2 SIL Calim Limit (subsystem) according to EN 62061 2 performance level (PL) according to EN 62061 2 stop category according to EN 62061 2 stop category according to EN 62061 4 5E-7 1/h PFDavg with low demand rate according to SN 31920 100 FIT PFDavg with low demand rate according to SN 31920 <t< td=""><td></td><td></td></t<>				
• for auxiliary contacts	 finely stranded with core end processing 	0.5 2.5 mm²		
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	 for auxiliary contacts 			
	— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)		
• for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 1x 12 AWG number as coded connectable conductor cross section • for auxiliary contacts • for auxiliary contacts 18 14 Safety related data • for auxiliary contacts product function • for auxiliary contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1 No safety device type according to IEC 61508-2 Type B B10 value with high demand rate according to SN 31920 1 000 000 Safety Integrity Level (SIL) according to EC 61508 2 SIL Claim Limit (subsystem) according to EN 62061 2 performance level (PL) according to EN 103849-1 c category according to EN 60204-1 0 Safe failure fraction (SFF) 93 % failure rate [FIT] with low demand rate according to EN 62061 4.5E-7 1/h PFDavg with low demand rate according to EN 62061 4.5E-7 1/h PFDavg with low demand rate according to IEC 61508 0.007 MTBF 75 a hardware fault tolerance according to IEC 61508 0 T1 value for proof test interval or service life according to IEC 60529 IP00; IP20 with box terminal/cover touch protection clas	— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)		
AWG number as coded connectable conductor cross section 18 14 Safety related data product function • mirror contact according to IEC 60947-4-1 Yes • positively driven operation according to IEC 60947-5-1 No safety device type according to IEC 61508-2 Type B B10 value with high demand rate according to SN 31920 1 000 000 Safety Integrity Level (SIL) according to EEC 61508 2 SIL Claim Limit (subsystem) according to EN 62061 2 performance level (PL) according to EN ISO 13849-1 c category according to EN 60204-1 0 Safe failure fraction (SFF) 93 % failure rate [FIT] with low demand rate according to EN 62061 4.5E-7 1/h PFHDavg with low demand rate according to EN 62061 4.5E-7 1/h PFDavg with low demand rate according to EN 62061 4.5E-7 1/h PFDavg with low demand rate according to EN 62061 4.5E-7 1/h PFDavg with low demand rate according to IEC 61508 0 T1 value for proof test interval or service life according to IEC 61508 0 T1 value for proof test interval or service life according to IEC 60529 IP00; IP20 with box terminal/cover touch protection class IP on the front according to IEC 60529 IP00; IP20 w	 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
section • for auxiliary contacts 18 14 Safety related data	 for AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14), 1x 12		
• for auxiliary contacts 18 14 Safety related data • mirror contact according to IEC 60947-4-1 Yes • positively driven operation according to IEC 60947-5-1 No safety device type according to IEC 61508-2 Type B B10 value with high demand rate according to SN 31920 1 000 000 Safety Integrity Level (SIL) according to EN 62061 2 geformance level (PL) according to EN 180 13849-1 c category according to EN 60204-1 0 Safet jailure fraction (SFF) 93 % failure rate [FIT] with low demand rate according to EN 62061 4.5E-7 1/h PFHD with high demand rate according to EN 62061 4.5E-7 1/h PFHD with high demand rate according to EN 62061 4.5E-7 1/h PFHD with high demand rate according to EN 62061 4.5E-7 1/h PFHD with high demand rate according to IEC 61508 0.007 MTBF 75 a hardware fault tolerance according to IEC 61508 0 T1 value for proof test interval or service life according to IEC 60529 IP00; IP20 with box terminal/cover fuection class IP on the front according to IEC 60529 IP00; IP20 with box terminal/cover safety-related switching on No • safety-related swit				
Safety related data product function • mirror contact according to IEC 60947-4-1 Yes • positively driven operation according to IEC 60947-5-1 No safety device type according to IEC 61508-2 Type B B10 value with high demand rate according to SN 31920 1 000 000 Safety Integrity Level (SIL) according to EC 61508 2 SIL Claim Limit (subsystem) according to EN 62061 2 performance level (PL) according to EN 03849-1 c category according to EN 1SO 13849-1 2 stop category according to EN 60204-1 0 Safe tailure fraction (SFF) 93 % failure raction (SFF) 93 % failure race [FIT] with how demand rate according to SN 31920 100 FIT PFHD with high demand rate according to EN 62061 4.5E-7 1/h PFDavg with low demand rate according to SN 31920 100 FIT PFHD with high demand rate according to IEC 61508 0.007 MTBF 75 a hardware fault tolerance according to IEC 60529 IPO0; IP20 with box terminal/cover flow protection class IP on the front according to IEC 60529 IPO0; IP20 with box terminal/cover safety-related switching OFF Yes <td></td> <td></td>				
product function • mirror contact according to IEC 60947-4-1 Yes • positively driven operation according to IEC 60947-5-1 No safety device type according to IEC 61508-2 Type B B10 value with high demand rate according to SN 31920 1 000 000 Safety Integrity Level (SIL) according to IEC 61508 2 SIL Claim Limit (subsystem) according to EN 62061 2 performance level (PL) according to EN ISO 13849-1 c category according to EN ISO 13849-1 2 stop category according to EN 62061-1 0 Safe failure fraction (SFF) 93 % failure rate [FIT] with low demand rate according to SN 31920 100 FIT PFDavg with low demand rate according to EN 62061 4.5E-7 1/h PFDavg with low demand rate according to IEC 61508 0.007 MTBF 75 a hardware fault tolerance according to IEC 61508 0 T1 value for proof test interval or service life according to IEC 60529 IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover safety-related switching on No No safety-related switching OFF Yes		18 14		
• mirror contact according to IEC 60947-4-1Yes• positively driven operation according to IEC 60947-5-1Nosafety device type according to IEC 61508-2Type BB10 value with high demand rate according to SN 319201 000 000Safety Integrity Level (SIL) according to IEC 615082SIL Claim Limit (subsystem) according to EN 620612performance level (PL) according to EN 1SO 13849-1ccategory according to EN 1SO 13849-12stop category according to EN 60204-10Safe failure fraction (SFF)93 %failure rate [FIT] with low demand rate according to SN 31920100 FITPFDavg with high demand rate according to EN 620614.5E-7 1/hPFDavg with low demand rate according to EN 620610.007MTBF75 ahardware fault tolerance according to IEC 615080T1 value for proof test interval or service life according to IEC 60529IP00; IP20 with box terminal/covertouch protection on the front according to IEC 60529IP00; IP20 with box terminal/coversafety-related switching onNo• safety-related switching OFFYes	Safety related data			
	product function			
safety device type according to IEC 61508-2Type BB10 value with high demand rate according to SN 319201 000 000Safety Integrity Level (SIL) according to IEC 615082SIL Claim Limit (subsystem) according to EN 620612performance level (PL) according to EN ISO 13849-1ccategory according to EN ISO 13849-12stop category according to EN 60204-10Safe failure fraction (SFF)93 %failure rate [FIT] with low demand rate according to SN 31920100 FITPFHD with high demand rate according to EN 620614.5E-7 1/hPFDavg with low demand rate according to IEC 615080.007MTBF75 ahardware fault tolerance according to IEC 615080T1 value for proof test interval or service life according to IEC 60529IP00; IP20 with box terminal/covertouch protection on the front according to IEC 60529Ip00; IP20 with box terminal/coversafety-related switching onNo• safety-related switching OFFYes	 mirror contact according to IEC 60947-4-1 	Yes		
B10 value with high demand rate according to SN 319201 000 000Safety Integrity Level (SIL) according to IEC 615082SIL Claim Limit (subsystem) according to EN 620612performance level (PL) according to EN ISO 13849-1ccategory according to EN ISO 13849-12stop category according to EN 60204-10Safe failure fraction (SFF)93 %failure rate [FIT] with low demand rate according to SN 31920100 FITPFHD with high demand rate according to EN 620614.5E-7 1/hPFDavg with low demand rate according to IEC 615080.007MTBF75 ahardware fault tolerance according to IEC 615080T1 value for proof test interval or service life according to IEC 60529IP00; IP20 with box terminal/covertouch protection on the front according to IEC 60529finger-safe, for vertical contact from the front with box terminal/coversuitability for use• safety-related switching onNo• safety-related switching OFFYes	 positively driven operation according to IEC 60947-5-1 	No		
Safety Integrity Level (SIL) according to IEC 61508 2 SIL Claim Limit (subsystem) according to EN 62061 2 performance level (PL) according to EN ISO 13849-1 c category according to EN ISO 13849-1 2 stop category according to EN 60204-1 0 Safet failure fraction (SFF) 93 % failure rate [FIT] with low demand rate according to SN 31920 100 FIT PFHD with high demand rate according to EN 62061 4.5E-7 1/h PFDavg with low demand rate according to IEC 61508 0.007 MTBF 75 a hardware fault tolerance according to IEC 61508 0 T1 value for proof test interval or service life according to IEC 60529 IP00; IP20 with box terminal/cover fouch protection on the front according to IEC 60529 IP00; IP20 with box terminal/cover statability for use • safety-related switching on No • safety-related switching OFF Yes Yes	safety device type according to IEC 61508-2	Туре В		
SIL Claim Limit (subsystem) according to EN 62061 2 performance level (PL) according to EN ISO 13849-1 c category according to EN ISO 13849-1 2 stop category according to EN 60204-1 0 Safe failure fraction (SFF) 93 % failure rate [FIT] with low demand rate according to SN 31920 100 FIT PFHD with high demand rate according to EN 62061 4.5E-7 1/h PFDavg with low demand rate according to IEC 61508 0.007 MTBF 75 a hardware fault tolerance according to IEC 61508 0 T1 value for proof test interval or service life according to IEC 61529 IP00; IP20 with box terminal/cover fouch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover suitability for use • safety-related switching on No • safety-related switching OFF Yes	B10 value with high demand rate according to SN 31920	1 000 000		
performance level (PL) according to EN ISO 13849-1ccategory according to EN ISO 13849-12stop category according to EN 60204-10Safe failure fraction (SFF)93 %failure rate [FIT] with low demand rate according to SN 31920100 FITPFHD with high demand rate according to EN 620614.5E-7 1/hPFDavg with low demand rate according to IEC 615080.007MTBF75 ahardware fault tolerance according to IEC 615080T1 value for proof test interval or service life according to IEC 60529IP00; IP20 with box terminal/covertouch protection on the front according to IEC 60529finger-safe, for vertical contact from the front with box terminal/coversuitability for use• safety-related switching onNo• safety-related switching OFFYes	Safety Integrity Level (SIL) according to IEC 61508	2		
category according to EN ISO 13849-12stop category according to EN 60204-10Safe failure fraction (SFF)93 %failure rate [FIT] with low demand rate according to SN 31920100 FITPFHD with high demand rate according to EN 620614.5E-7 1/hPFDavg with low demand rate according to IEC 615080.007MTBF75 ahardware fault tolerance according to IEC 615080T1 value for proof test interval or service life according to IEC 60529IP00; IP20 with box terminal/covertouch protection on the front according to IEC 60529IP00; IP20 with box terminal/coverstafety-related switching onNo• safety-related switching OFFYes	SIL Claim Limit (subsystem) according to EN 62061	2		
stop category according to EN 60204-1 0 Safe failure fraction (SFF) 93 % failure rate [FIT] with low demand rate according to SN 31920 100 FIT PFHD with high demand rate according to EN 62061 4.5E-7 1/h PFDavg with low demand rate according to IEC 61508 0.007 MTBF 75 a hardware fault tolerance according to IEC 61508 0 T1 value for proof test interval or service life according to IEC 60529 IP00; IP20 with box terminal/cover forger-safe, for vertical contact from the front with box terminal/cover suitability for use • safety-related switching on • safety-related switching OFF Yes	performance level (PL) according to EN ISO 13849-1	C		
Safe failure fraction (SFF) 93 % failure rate [FIT] with low demand rate according to SN 31920 100 FIT PFHD with high demand rate according to EN 62061 4.5E-7 1/h PFDavg with low demand rate according to IEC 61508 0.007 MTBF 75 a hardware fault tolerance according to IEC 61508 0 T1 value for proof test interval or service life according to IEC 60529 20 a protection class IP on the front according to IEC 60529 IP00; IP20 with box terminal/cover touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover suitability for use • safety-related switching on No • safety-related switching OFF Yes	category according to EN ISO 13849-1	2		
Safe failure fraction (SFF) 93 % failure rate [FIT] with low demand rate according to SN 31920 100 FIT PFHD with high demand rate according to EN 62061 4.5E-7 1/h PFDavg with low demand rate according to IEC 61508 0.007 MTBF 75 a hardware fault tolerance according to IEC 61508 0 T1 value for proof test interval or service life according to IEC 60529 IP00; IP20 with box terminal/cover protection class IP on the front according to IEC 60529 IP00; IP20 with box terminal/cover touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover suitability for use • safety-related switching on No • safety-related switching OFF Yes	stop category according to EN 60204-1	0		
failure rate [FIT] with low demand rate according to SN 31920100 FITPFHD with high demand rate according to EN 620614.5E-7 1/hPFDavg with low demand rate according to IEC 615080.007MTBF75 ahardware fault tolerance according to IEC 615080T1 value for proof test interval or service life according to IEC 6052920 aprotection class IP on the front according to IEC 60529IP00; IP20 with box terminal/covertouch protection on the front according to IEC 60529finger-safe, for vertical contact from the front with box terminal/coversuitability for use• safety-related switching onNo• safety-related switching OFFYes				
PFHD with high demand rate according to EN 62061 4.5E-7 1/h PFDavg with low demand rate according to IEC 61508 0.007 MTBF 75 a hardware fault tolerance according to IEC 61508 0 T1 value for proof test interval or service life according to IEC 60529 20 a protection class IP on the front according to IEC 60529 IP00; IP20 with box terminal/cover touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover suitability for use • safety-related switching on No • safety-related switching OFF Yes				
PFDavg with low demand rate according to IEC 61508 0.007 MTBF 75 a hardware fault tolerance according to IEC 61508 0 T1 value for proof test interval or service life according to IEC 61508 0 protection class IP on the front according to IEC 60529 IP00; IP20 with box terminal/cover touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover suitability for use • safety-related switching on No • safety-related switching OFF Yes				
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hardware fault tolerance according to IEC 61508 0 T1 value for proof test interval or service life according to IEC 61508 20 a protection class IP on the front according to IEC 60529 IP00; IP20 with box terminal/cover touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover suitability for use • safety-related switching on No • safety-related switching OFF Yes				
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protection class IP on the front according to IEC 60529 IP00; IP20 with box terminal/cover touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover suitability for use • safety-related switching on No • safety-related switching OFF Yes	T1 value for proof test interval or service life according to IEC			
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover suitability for use • safety-related switching on • safety-related switching OFF No		IP00: IP20 with box terminal/cover		
suitability for use No • safety-related switching on No • safety-related switching OFF Yes				
safety-related switching on No safety-related switching OFF Yes	· · · ·			
safety-related switching OFF Yes	-	No		
General Product Approval				

(SP)		<u>Confirmation</u>		KC	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Confo	rmity	Test Certificates	
RCM	Type Examination Cer- tificate	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>
other			Railway		
<u>Confirmation</u>	<u>Miscellaneous</u>	Miscellaneous	Special Test Certific- ate	Vibration and Shock	
Further information					
https://press.siemens	ed to exit the Russian mark s.com/global/en/pressrelease	siemens-wind-down-rus	sian-business		
Please contact your	on the renewal of the curr local Siemens office on the s	tatus of validity of the EA		to import or offer to supp	bly these products to an
Information on the			ssia of Belaius).		
	https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,)				
https://www.siemens	https://www.siemens.com/ic10 Industry Mall (Online ordering system)				
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1056-6SF36					
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1056-6SF36					
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-6SF36					
Image database (pr	Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1056-6SF36⟨=en				
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