SIEMENS

Data sheet

3RT2036-1AG20



power contactor, AC-3e/AC-3, 51 A, 22 kW / 400 V, 3-pole, 110 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2

勝特力電材超市-龍	山店 886-3-5773766
勝特力電材超市-光	復店 886-3-5729570
胜特力电子(上海)	86-21-34970699
胜特力电子(深圳)	86-755-83298787
http://www	v.100y.com.tw

product brand name	SIRIUS	
product designation	Power contactor	
product type designation	3RT2	
General technical data		
size of contactor	\$2	
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 	12 W	
 at AC in hot operating state per pole 	4 W	
 without load current share typical 	6.5 W	
insulation voltage		
 of main circuit with degree of pollution 3 rated value 	690 V	
 of auxiliary circuit with degree of pollution 3 rated value 	690 V	
surge voltage resistance		
 of main circuit rated value 	6 kV	
 of auxiliary circuit rated value 	6 kV	
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V	
shock resistance at rectangular impulse		
• at AC	11.8g / 5 ms, 7.4g / 10 ms	
shock resistance with sine pulse		
• at AC	18.5g / 5 ms, 11.6g / 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)	10/01/2014	
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 %	
Environmental footprint		
Environmental Product Declaration(EPD)	Yes	

Global Warming Potential [CO2 eq] total	236 kg
Global Warming Potential [CO2 eq] during manufacturing	4.11 kg
Global Warming Potential [CO2 eq] during operation	233 kg
global warming potential [CO2 eq] after end of life	-0.635 kg
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 	690 V
 at AC-3e rated value maximum 	690 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	70 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^\circ \text{C}$ rated value	70 A
— up to 690 V at ambient temperature 60 °C rated value	60 A
• at AC-3	51 A
— at 400 V rated value — at 500 V rated value	51 A 51 A
— at 690 V rated value	24 A
• at AC-3e	270
• at AC-se — at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
 at AC-4 at 400 V rated value 	41 A
 at AC-5a up to 690 V rated value 	61.6 A
 at AC-5b up to 400 V rated value 	41.5 A
 at AC-6a 	
— up to 230 V for current peak value n=20 rated value	43.2 A
— up to 400 V for current peak value n=20 rated value	43.2 A
— up to 500 V for current peak value n=20 rated value	43.2 A
— up to 690 V for current peak value n=20 rated value	24 A
● at AC-6a	
— up to 230 V for current peak value n=30 rated value	28.8 A
— up to 400 V for current peak value n=30 rated value	28.8 A
— up to 500 V for current peak value n=30 rated value	28.8 A
— up to 690 V for current peak value n=30 rated value	24 A
minimum cross-section in main circuit at maximum AC-1 rated value	25 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	24 A
• at 690 V rated value	20 A
operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	55 A
— at 60 V rated value	23 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
• with 2 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
with 3 current paths in series at DC-1	
— at 24 V rated value	55 A

— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	35 A
— at 60 V rated value	6 A
— at 220 V rated value	1 A
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	25 A
— at 220 V rated value	5 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
• with 3 current paths in series at DC-3 at DC-5	
- at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	25 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.35 A
operating power	0.00 A
at AC-2 at 400 V rated value	22 kW
• at AC-3	
— at 230 V rated value	15 kW
— at 400 V rated value	22 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW 22 kW
• at AC-3e	ZZ KVV
	22 MM
— at 400 V rated value	22 kW
— at 500 V rated value	22 kW 22 kW
— at 690 V rated value	ZZ KVV
operating power for approx. 200000 operating cycles at AC- 4	
• at 400 V rated value	12.6 kW
• at 690 V rated value	18.2 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	17.2 kVA
• up to 400 V for current peak value n=20 rated value	29.9 kVA
• up to 500 V for current peak value n=20 rated value	37.4 kVA
• up to 690 V for current peak value n=20 rated value	28.6 kVA
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	11.4 kVA
• up to 400 V for current peak value n=30 rated value	19.9 kVA
• up to 500 V for current peak value n=30 rated value	24.9 kVA
• up to 690 V for current peak value n=30 rated value	28.6 kVA
short-time withstand current in cold operating state up to	
40 °C	
 limited to 1 s switching at zero current maximum 	937 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	697 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	468 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	282 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	229 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h

• at AC-2 maximum	600 1/h
 at AC-3 maximum 	800 1/h
• at AC-3e maximum	800 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 60 Hz rated value	110 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	210 VA
• at 60 Hz	188 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.69
• at 60 Hz	0.65
apparent holding power of magnet coil at AC	
• at 50 Hz	17.2 VA
• at 60 Hz	16.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.36
• at 60 Hz	0.39
closing delay	
• at AC	10 80 ms
opening delay	
• at AC	10 18 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
	1
contact number of NO contacts for auxiliary contacts instantaneous	
contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum	1
contact number of NO contacts for auxiliary contacts instantaneous contact	1
contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	1 10 A
contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value	1 10 A 10 A
contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value	1 10 A 10 A 3 A
contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value	1 10 A 10 A 3 A 2 A
contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	1 10 A 10 A 3 A 2 A
contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value operational current at DC-12	1 10 A 10 A 2 A 1 A
contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A
contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A
contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A
contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 10 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A
contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A
contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 10 V rated value • at 125 V rated value • at 220 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A
contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A
contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 40 V rated value • at 24 V rated value • at 25 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 400 V rated value • at 690 V rated value • at 400 V rated value • at 690 V rated value • at 400 V rated value • at 690 V rated value • at 24 V rated value • at 25 V rated value • at 125 V rated value • at 200 V rated value • at 200 V rated value • at 200 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 10 A 10
contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 40 V rated value • at 24 V rated value • at 60 V rated value • at 10 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 48 V rated value • at 24 V rated value • at 24 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A
contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 48 V rated value • at 48 V rated value • at 600 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 10 A 6 A 10 A 6 A 10
contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 44 V rated value • at 24 V rated value • at 60 V rated value • at 10 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 48 V rated value • at 48 V rated value • at 400 V rated value • at 60 V rated value <td>1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A</td>	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A
contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 24 V rated value • at 25 V rated value • at 10 V rated value • at 220 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 48 V rated value • at 40 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 6 A 6 A 1 A 10 A 10 A 6 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 40 V rated value • at 690 V rated value • at 40 V rated value • at 40 V rated value • at 24 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 24 V rated value • at 24 V rated value • at 220 V rated value • at 125 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 1 A 0 15 A 10 A 0.15 A
contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 60 V rated value • at 60 V rated value • at 10 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 200 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 10 V rated value • at 10 V rated value • at 220 V rated value • at 100 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 6 A 6 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 490 V rated value • at 490 V rated value • at 24 V rated value • at 25 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 48 V rated value • at 48 V rated value • at 220 V rated value • at 48 V rated value • at 40 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value </td <td>1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 1 A 0 15 A 10 A 0.15 A</td>	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 1 A 0 15 A 10 A 0.15 A
contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 60 V rated value • at 60 V rated value • at 10 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 200 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 10 V rated value • at 10 V rated value • at 220 V rated value • at 100 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 1 A 0 15 A 10 A 0.15 A

• at 600 V rated value	52 A		
yielded mechanical performance [hp]			
• for single-phase AC motor			
— at 110/120 V rated value	3 hp		
— at 230 V rated value	10 hp		
• for 3-phase AC motor	10 lip		
	15 hn		
- at 200/208 V rated value	15 hp		
— at 220/230 V rated value	15 hp		
— at 460/480 V rated value	40 hp		
— at 575/600 V rated value	50 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: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)		
 — with type of assignment 2 required 	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)		
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)		
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		
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
side-by-side mounting	Yes		
height	114 mm		
width	55 mm		
depth	130 mm		
required spacing			
 with side-by-side mounting 			
— forwards	10 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	0 mm		
 for grounded parts 			
— forwards	10 mm		
— upwards	10 mm		
— at the side	6 mm		
— downwards	10 mm		
 for live parts 			
— forwards	10 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	6 mm		
Connections/ Terminals			
type of electrical connection			
for main current circuit	screw-type terminals		
 for main current circuit for auxiliary and control circuit 			
-	screw-type terminals		
at contactor for auxiliary contacts	Screw-type terminals		
of magnet coil	Screw-type terminals		
type of connectable conductor cross-sections			
for main contacts			
— solid or stranded	2x (1 35 mm ²), 1x (1 50 mm ²)		
 finely stranded with core end processing 	2x (1 25 mm ²), 1x (1 35 mm ²)		
for AWG cables for main contacts	2x (18 2), 1x (18 1)		
connectable conductor cross-section for main contacts			
 finely stranded with core end processing 	1 35 mm²		
connectable conductor cross-section for auxiliary contacts			
solid or stranded	0.5 2.5 mm ²		
 finely stranded with core end processing 	0.5 2.5 mm²		
type of connectable conductor cross-sections			
 for auxiliary contacts 			
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		

for all states	ded with some and some as		0	5 (0, 75)	0 5		
	ded with core end process			2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)			
	• for AWG cables for auxiliary contacts 6 number as coded connectable conductor cross		2x (20 16	6), 2x (18 14)			
section							
 for main contact 	or main contacts		18 1	18 1			
 for auxiliary cont 	tacts		20 14				
Safety related data							
proportion of danger	ous failures						
 with low demand 	d rate according to SN 319	20	40 %				
 with high deman 	d rate according to SN 31	920	73 %				
failure rate [FIT] with 31920	low demand rate accord	ing to SN	100 FIT				
B10 value with high d	lemand rate according to	SN 31920	1 000 000				
	y-related switching OFF		Yes				
	t interval or service life a	according to	20 a				
protection class IP or	n the front according to I	EC 60529	IP20				
•	he front according to IEC			for vertical contact	from the front		
Approvals Certificates			<u> </u>				
General Product App	proval						
General i roduct App	i oval						
(SP)		<u>Confirmatio</u>	n	(UL)	KC	EAC	
EMC	Functional Safety/Safety of Ma- chinery	Declaration of	Conformity		Test Certificates		
RCM	<u>Type Examination Cer-</u> <u>tificate</u>	UK CA		CE EG-Konf.	Special Test Certific- ate	Type Test Certific- ates/Test Report	
Marine / Shipping							
ABS	BUREAU VERITAS			Lloyd's Register us	PRS	RINA	
Marine / Shipping	other		Rai	lway	Dangerous Good	Environment	
KMRS	<u>Confirmation</u>	<u>Confirmatio</u>	i <u>n Vib</u>	ration and Shock	Transport Information	Environmental Con- firmations	

Further information

Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) all.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2036-1AG20 https://r Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2036-1AG20 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1AG20

 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

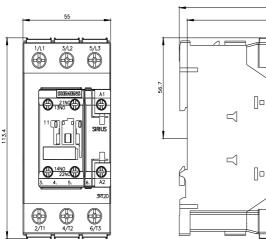
 http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2036-1AG20&lang=en

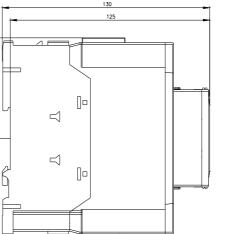
 Characteristic: Tripping characteristics, I²t, Let-through current

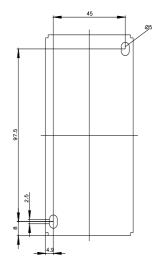
 https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1AG20/char

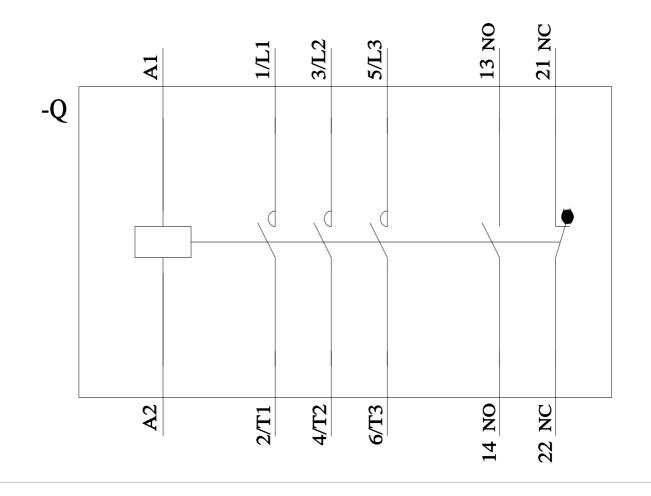
 Further characteristics (e.g. electrical endurance, switching frequency)

 http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2036-1AG20&objecttype=14&gridview=view1









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Data sheet

3RH2911-1HA11

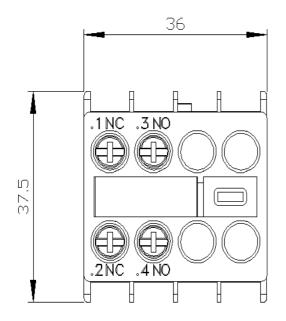


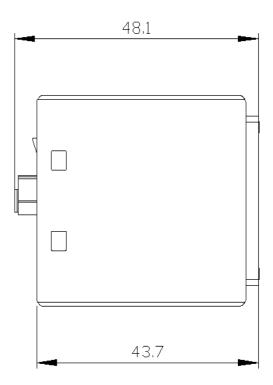
auxiliary switch, on the front, 1 NO + 1 NC, .1/.2, .3/.4, --/--, --/--, current path: 1 NC, 1 NO, --, --, screw terminal, for contactors 3RT2 and contactor relays 3RH2

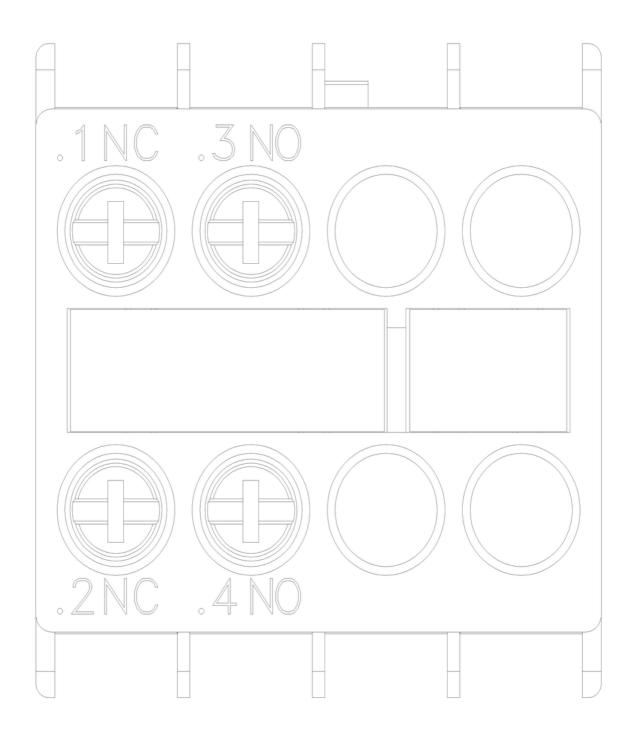
product brand name	SIRIUS		
product category	Auxiliary switch		
product designation	auxiliary switch		
design of the product	for snapping onto the front		
product type designation	3RH29		
suitability for use	Contactor relay and power contactor		
General technical data			
size of contactor	S00, S0, S2, S3		
insulation voltage with degree of pollution 3 at AC rated value	690 V		
surge voltage resistance rated value	6 kV		
protection class IP on the front	IP20		
mechanical service life (operating cycles) typical	10 000 000		
electrical endurance (operating cycles) at AC-15 at 230 V typical	200 000		
Substance Prohibitance (Date)	10/01/2009		
number of NC contacts for auxiliary contacts			
 instantaneous contact 	1		
 lagging switching 	0		
number of NO contacts for auxiliary contacts			
 instantaneous contact 	1		
leading contact	0		
number of CO contacts of auxiliary contacts instantaneous contact	0		
operational current at AC-15 at 690 V rated value	1 A		
operational current of auxiliary contacts at AC-12			
• at 24 V	10 A		
• at 230 V	10 A		
operational current of auxiliary contacts at AC-14			
● at 125 V	6 A		
• at 250 V	6 A		
operational current of auxiliary contacts at AC-12 maximum	10 A		
operational current of auxiliary contacts at AC-15			
• at 24 V	6 A		
• at 230 V	6 A		
• at 400 V	3 A		
operational current of auxiliary contacts at DC-12			
• at 24 V	10 A		
• at 110 V	3 A		
• at 220 V	1 A		
operational current with 2 current paths in series at DC-12			
at 24 V rated value	10 A		

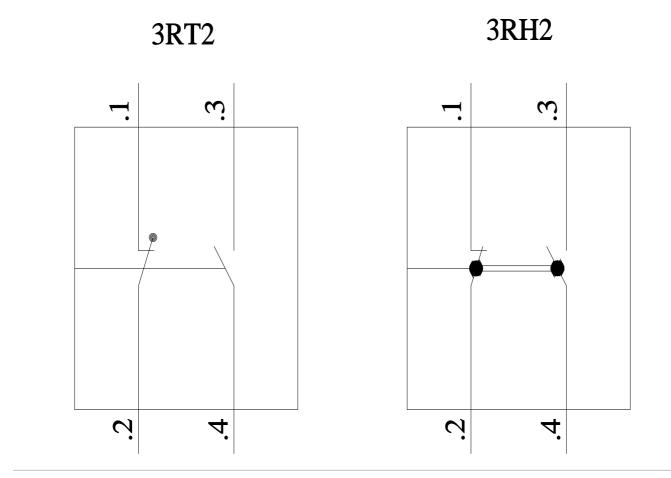
• at 60 V rated value	10 A
• at 110 V rated value	4 A
at 220 V rated value	2 A
• at 440 V rated value	1.3 A
• at 600 V rated value	0.65 A
operational current with 3 current paths in series at DC-12	
• at 24 V rated value	10 A
• at 60 V rated value	10 A
• at 110 V rated value	10 A
at 220 V rated value	3.6 A
• at 440 V rated value	2.5 A
• at 600 V rated value	1.8 A
operational current with 2 current paths in series at DC-13	
at 24 V rated value	10 A
• at 60 V rated value	3.5 A
• at 110 V rated value	1.3 A
at 220 V rated value	0.9 A
• at 440 V rated value	0.2 A
• at 600 V rated value	0.1 A
operational current with 3 current paths in series at DC-13	
• at 24 V rated value	10 A
• at 60 V rated value	4.7 A
• at 110 V rated value	3 A
• at 220 V rated value	1.2 A
• at 440 V rated value	0.5 A
• at 600 V rated value	0.26 A
operational current of auxiliary contacts at DC-13	
• at 24 V	6 A
• at 48 V	2 A
● at 60 V	2 A
● at 110 V	1 A
• at 125 V	0.9 A
• at 220 V	0.3 A
● at 250 V	0.3 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
Ambient conditions	
ambient temperature	
 during operation 	-25 +60 °C
during storage	-55 +80 °C
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] total	0.92 kg
Global Warming Potential [CO2 eq] during manufacturing	0.34 kg
Global Warming Potential [CO2 eq] during operation	0.562 kg
global warming potential [CO2 eq] after end of life	0.017 kg
Safety related data	
product function	
 mirror contact according to IEC 60947-4-1 	Yes; with 3RT2
 positively driven operation according to IEC 60947-5-1 	Yes
 positively driven operation according to IEC 60947-5-1 	with 3RH2
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
Installation/ mounting/ dimensions	
fastening method	snap-on mounting
height	37.5 mm
width	36 mm
depth	43.7 mm
type of electrical connection for auxiliary and control circuit	screw-type terminals
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 2.5 mm²
 finely stranded with core end processing 	0.5 2.5 mm²

for auxiliary cont — solid or stra — finely stran for AWG cables AWG number as coded		ing	2x (0.5 1.5 mm²), 2 2x (0.5 1.5 mm²), 2 2x (20 16), 2x (18 20 14	2x (0.75 2.5 mm²)	
auxiliary contacts Approvals Certificates		-		_	_
General Product App	proval				
(Sfreedown) States of the states of the stat	<u>Confirmation</u>) KC	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of C	onformity	Test Certificates	
RCM	<u>Type Examination Cer-</u> <u>tificate</u>	UK CA	EG-Kont	<u>Type Test Certificates/Test Report</u>	<u>Special Test Certific-</u> <u>ate</u>
Marine / Shipping					
ABS	B U REAU VERITAS		Lloyd Registr uis	er Prs	RINA
Marine / Shipping	other		Railway		
KMRS RMRS	Household and similar appliances	<u>Confirmation</u>	<u>Type Test C</u> ates/Test R		<u>k Special Test Certific-</u> <u>ate</u>
Environment					
Environmental Con- firmations					
Further information					
Siemens has decided https://press.siemens.co Siemens is working of Please contact your loo EAC relevant market (of Information on the pa https://support.industry Information- and Dow https://www.siemens.co Industry Mall (Online	other than the sanctioned E ackaging siemens.com/cs/ww/en/vii mloadcenter (Catalogs, E om/ic10 ordering system) emens.com/mall/en/en/Cata	visiemens-wind-dow ent EAC certificate tatus of validity of th AEU member state ew/109813875 Brochures,)	e s. te EAC certification if es Russia or Belarus).	you intend to import or offer to s	supply these products to an
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2911-1HA11 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RH2911-1HA11 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2911-1HA11& http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2911-1HA11& http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2911-1HA11& http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2911-1HA11& http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2911-1HA11& http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2911-1HA11& http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2911-1HA11& http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2911-1HA11& http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2911-1HA11& http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2911-1HA11& http://www.automation.siemens.com/bildb/cax_de.aspx?mlfb=3RH2911-1HA11& http://www.automation.siemens.com/bildb/cax_de.aspx?mlfb=3RH2911-1HA11& http://www.automation.siemens.com/bildb/cax_de.aspx?mlfb=3RH2911-1HA11& http://www.automation.siemens.com/bildb/cax_de.aspx?mlfb=3RH2911-1HA11& http://www.automation.siemens.com/bildb/cax_de.aspx?mlfb=3RH2911-1HA11& http://www.automation.siemens.com/bildb/cax_de.aspx?mlfb=3RH2911-1HA11& http://www.automation.siemens.com/bildb/cax_de.aspx?mlfb=3RH2911-1HA11& http://www.automation.siemens.com/bildb/cax_de.aspx?mlfb=3RH2911-1HA11& http://www.automation.siemens.com/bildb/cax_de.aspx?mlfb=3RH2911-1HA11& http://www.automation.siemens.com/bildb/cax_de.aspx?mlfb=3RH2911-1HA11& http://www.automation.siemens.com/bildb/cax_de.aspx?mlfb=3RH2911-1HA11& http://www.automation.siemens.com/bildb/cax_de.aspx?mlfb=3RH2911-1HA11& http://www.automation.siemens.com/bildb/cax_de.aspx?mlfb=3RH2911-1HA11& h					









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