SIEMENS

Data sheet

3RT2035-1AQ20



power contactor, AC-3e/AC-3, 41 A, 18.5 kW / 400 V, 3-pole, 500 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2 $\,$

4//3 6/13	
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
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 	6.6 W
 at AC in hot operating state per pole 	2.2 W
 without load current share typical 	17.2 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 %
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	60 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	60 A
— up to 690 V at ambient temperature 60 °C rated	55 A
value	
● at AC-3	
— at 400 V rated value	41 A
— at 500 V rated value	41 A
— at 690 V rated value	24 A
• at AC-3e	
— at 400 V rated value	41 A
— at 500 V rated value	41 A
— at 690 V rated value	24 A
at AC-4 at 400 V rated value	35 A
at AC-5a up to 690 V rated value	52.8 A
 at AC-5b up to 400 V rated value at AC-6a 	33.2 A
	36.5 A
— up to 230 V for current peak value n=20 rated value	
 — up to 400 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value 	36.5 A 36.5 A
— up to 500 V for current peak value n=20 rated value	24 A
• at AC-6a	24 A
 up to 230 V for current peak value n=30 rated value 	24.2 A
— up to 200 V for current peak value n=30 rated value	24.2 A
— up to 500 V for current peak value n=30 rated value	24.2 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	16 mm ²
value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	22 A
at 690 V rated value	18.5 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	
• at AC-2 at 400 V rated value	18.5 kW
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
• at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles at AC-	ZZ KVV
4	
 at 400 V rated value 	11.6 kW
 at 690 V rated value 	16.8 kW
operating apparent power at AC-6a	
 operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value 	14.5 kVA
• up to 230 V for current peak value n=20 rated value	14.5 kVA 25.2 kVA
 up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value 	
• up to 230 V for current peak value n=20 rated value	25.2 kVA
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 up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value limited to 1 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum at AC-1 maximum at AC-3 maximum <li< td=""><td>25.2 kVA 31.6 kVA 28.6 kVA 9.6 kVA 16.8 kVA 21 kVA 28.6 kVA 843 A; Use minimum cross-section acc. to AC-1 rated value 596 A; Use minimum cross-section acc. to AC-1 rated value 400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 1 200 1/h 1 000 1/h 1 000 1/h</td></li<>	25.2 kVA 31.6 kVA 28.6 kVA 9.6 kVA 16.8 kVA 21 kVA 28.6 kVA 843 A; Use minimum cross-section acc. to AC-1 rated value 596 A; Use minimum cross-section acc. to AC-1 rated value 400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 1 200 1/h 1 000 1/h 1 000 1/h
 up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value limited to 1 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 60 s switching at zero current maximum at AC operating frequency at AC	25.2 kVA 31.6 kVA 28.6 kVA 9.6 kVA 16.8 kVA 21 kVA 28.6 kVA 28.6 kVA 843 A; Use minimum cross-section acc. to AC-1 rated value 596 A; Use minimum cross-section acc. to AC-1 rated value 400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 100 1/h

type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	500 V
• at 60 Hz rated value	500 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	1
contact number of NO contacts for auxiliary contacts instantaneous	1
contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	10.4
at 230 V rated value	10 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	10.4
• at 24 V rated value	10 A
at 48 V rated value	6 A
• at 60 V rated value	6 A
	0.4
at 110 V rated value	3 A
• at 125 V rated value	2 A
at 125 V rated valueat 220 V rated value	2 A 1 A
 at 125 V rated value at 220 V rated value at 600 V rated value 	2 A
 at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13	2 A 1 A 0.15 A
 at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value 	2 A 1 A 0.15 A 10 A
 at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value 	2 A 1 A 0.15 A 10 A 2 A
 at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value 	2 A 1 A 0.15 A 10 A 2 A 2 A
 at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 60 V rated value at 110 V rated value 	2 A 1 A 0.15 A 10 A 2 A 2 A 1 A
 at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value 	2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A
 at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 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 220 V rated value at 220 V rated value 	2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A
 at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 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 220 V rated value at 220 V rated value at 600 V rated value 	2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
 at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 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 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 600 V rated value at 600 V rated value 	2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A
 at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 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 220 V rated value at 220 V rated value at 600 V rated value 	2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
 at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 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 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 600 V rated value at 600 V rated value 	2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
at 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 220 V rated value at 600 V rat	2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
 at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 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 220 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 220 V rated value at 600 V rated value<!--</td--><td>2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)</td>	2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
 at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 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 220 V rated value at 220 V rated value at 600 V rated value at 480 V rated value at 480 V rated value 	2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 40 A
 at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 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 220 V rated value at 220 V rated value at 600 V rated value at 480 V rated value at 480 V rated value at 600 V rated value 	2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 40 A
 at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 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 220 V rated value at 220 V rated value at 600 V rated value at 480 V rated value at 480 V rated value at 600 V rated value at 600 V rated value at 600 V rated value 	2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 40 A

• for 3-phase AC motor·- at 200208 V rated value10 hp- at 200208 V rated value30 hp- at 450/480 V rated value30 hp- at 450/480 V rated value40 hpconcat rating of auxiliary contacts according to ULA600 / P600Short-Caruit protection50 hp- at 7500 V rated value50 hp- at 7500 V rated value10 hp- at 7500 V rate		
	— at 230 V rated value	7.5 hp
contact rating of auxiliary contacts according to UL A600 / P600 Short-circuit protection design of the Ste link gl: 160 A (690 V, 100 KA), all: 80 A (690 V, 100 KA), BS88: 125 A (415 V, 80 KA) - with type of coordination 1 required gl: 10 A (690 V, 100 KA), all: 50 A (690 V, 100 KA), BS88: 125 A (415 V, 80 KA) - with type of assignment 2 required gl: 10 A (690 V, 100 KA), all: 50 A (690 V, 100 KA), BS88: 125 A (415 V, 80 KA) - with type of obsignment 2 required gl: 10 A (690 V, 100 KA), all: 50 A (690 V, 100 KA), BS88: 125 A (415 V, 80 KA) - with type of assignment 2 required gl: 10 A (690 V, 100 KA), all: 50 A (690 V, 100 KA), BS88: 125 A (415 V, 80 KA) - with type of assignment 2 required gl: 10 A (690 V, 100 KA), all: 50 A (690 V, 100 KA), BS88: 125 A (415 V, 80 KA) if assignment 2 required spacing science and snap-on mounting surface; can be tilted forward and backward by y+22 S ² on vertical mounting surface; can be tilted forward and backward by y+22 S ² on vertical mounting surface; can be tilted forward and backward by y+22 S ² on vertical mounting surface; can be tilted forward and backward by y+22 S ² on vertical mounting surface; can be tilted forward and backward by y+22 S ² on vertical mounting surface; can be tilted forward and backward by y+22 S ² on vertical mounting surface; can be tilted forward and backward by y+22 S ² on vertical mounting surface; can be tilted forward by the orgen and snap-on mounting onto 35 mm DIN rail according to DIN EN (50 K) vertify sole mounting 10 mm		
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary witch required • for short-circuit protection of the auxiliary witch required • for short-circuit protection of the auxiliary witch required • for short-circuit protection of the auxiliary witch required • for short-circuit protection of the auxiliary witch required • for short-circuit protection of the auxiliary witch required • for short-circuit protection of the auxiliary witch required • fold-type of assignment 2 required solutions • fold-type of assignment 2 • fold-type of assignment 2 • fold-type of assignment 2 • fold-type of assignment 3 • fold-type of assignment 3 • with side by-side mounting • of grounded parts - forwards 10 mm - downwards 10 mm - of orgounded parts 10 mm - downwards 10 mm - of orgounded parts 10 mm - forwards 10 mm - downwards 10 mm <		
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 kK) gG: 80 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 63 A (415 V, 80 kK) gG: 80 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 63 A (415 V, 80 kK) gG: 10 A (500 V, 1 kA) gG: 10 A (500 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 63 A (415 V, 80 kK) gG: 10 A (500 V, 1 kA) gG: 10 A (500 V, 1 kA) gG: 10 A (500 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 63 A (415 V, 80 kK) gG: 10 A (500 V, 1 kA) gG: 10 A (500 V, 10 kA), aM: 50 A (690 V, 100 kA), BS88: 63 A (415 V, 80 kK) gG: 10 A (500 V, 1 kA) gG: 10 A (500 V, 1 kA) gG: 10 A (500 V, 10 kA), aM: 50 A (690 V, 100 kA), BS88: 63 A (415 V, 80 kKA) gG: 10 A (500 V, 1 kA) gG: 10 A (500 V, 1 kA)<!--</td--><td></td><td>A600 / P600</td>		A600 / P600
• for short-circuit protection of the main circuit gG: 160 4 (800 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 KA) - with type of coordination 1 required gG: 80A (690V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 63A (415V,80kA) - with type of assignment 2 required gG: 80A (690 V, 100 kA), aM: 50A (690 V, 100 kA), BS88: 63A (415V,80kA) - or short-circuit protection of the auxiliary witch required gG: 80A (690 V, 100 kA), aM: 50A (690 V, 100 kA), BS88: 63A (415V,80kA) required spacing +/180° rotation possible on vertical mounting surface; can be tilted forward and backward by +22.5° on vertical mounting surface; can be tilted forward and backward by +22.5° on vertical mounting surface; can be tilted forward and backward by +22.5° on vertical mounting surface; can be tilted forward and backward by +22.5° on vertical mounting surface; can be tilted forward and backward by +22.5° on vertical mounting surface; can be tilted forward and backward by +22.5° on vertical mounting surface; can be tilted forward and backward by +22.5° on vertical mounting surface; can be tilted forward and backward by +22.5° on vertical mounting surface; can be tilted forward and backward by +22.5° on vertical mounting surface; can be tilted forward and backward by +22.5° on vertical mounting surface; can be tilted forward and backward by +22.5° on vertical mounting surface; can be tilted forward and backward by +22.5° on vertical mounting surface; can be tilted forward and backward by +22.5° on vertical mounting surface; can be tilted forward bited forward backward by +22.5° on vertical mounting surface; can be tilted forward by the vertical mounting surface; can be tilted forward backward by +22.5° on vertical mounting surface; can be tilted forward by the vertical mounting surf	Short-circuit protection	
with type of coordination 1 required gC: 80A (680 V, 100 kA), akt: 80A (680 V, 100 kA), BS88: 125 A (415 V, 80 kK) with type of assignment 2 required gC: 80A (690V, 100 kA), akt: 80A (690V, 100 kA), BS88: 63A (415 V, 80 kA) with type of assignment 2 required gC: 80A (690V, 100 kA), akt: 80A (690V, 100 kA), BS88: 63A (415 V, 80 kA) with type of assignment 2 required gC: 80A (690V, 100 kA), akt: 80A (690V, 100 kA), BS88: 63A (415 V, 80 kA) with type of assignment 2 required gC: 80A (690V, 100 kA), akt: 80A (690V, 100 kA), BS88: 63A (415 V, 80 kA) with type of assignment 2 required gC: 80A (690V, 100 kA), akt: 80A (690V, 100 kA), BS88: 63A (415 V, 80 kA) with type of assignment 2 required gC: 80A (690V, 100 kA), akt: 80A (690V, 100 kA), BS88: 125 A (415 V, 80 kA) with type of assignment 2 required gC: 80A (690V, 100 kA), akt: 80A (690V, 100 kA), BS88: 125 A (415 V, 80 kA) with type of assignment 2 required assi	•	
with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required installator/ mounting/ dimensions 	 for short-circuit protection of the main circuit 	
• for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting dimensions +/180° rotation possible on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.25° on vertical mounting surface; can be tilled forward and backward by 4/: 2.50° on terminals • ofwards 10 mm 0 mm • of orwards 10 mm 0 mm • of orwards 10 mm 0 mm <	 — with type of coordination 1 required 	kA)
installation/ mounting/ dimensions */180° rotation possible on vertical mounting surface; can be titled forward and backward by +/ 2.2 ° 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 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm </td <td> — with type of assignment 2 required </td> <td>gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)</td>	 — with type of assignment 2 required 	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)
mounting position +/180° rotation possible on vertical mounting surface; can be tilted forward and backward by 4/-22.5° on vertical mounting surface fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 114 mm width 55 mm depth 130 mm required spacing 0 mm - upwards 10 mm - upwards 0 mm - dorwards 0 mm - upwards 10 mm - dorwards	 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
backward by +/ 22.5" on vertical mounting surface fastening method screw and by +/ 22.5" on vertical mounting surface fastening method screw and sup-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 114 mm width 55 mm deepth 130 mm required spacing	nstallation/ mounting/ dimensions	
• side-by-side mounting Yes height 114 mm width 55 mm depth 130 mm required spacing - - forwards 10 mm - upwards 00 mm - downwards 10 mm - downwards 0 mm - downwards 00 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - at the side 0 mm - at the side 10 mm - at the side 10 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - forwards 50 mm - forwards 50 mm - forwards 50 mm <tr td=""> 50 mm <tr td=""></tr></tr>	mounting position	
height 114 mm width 55 mm depth 130 mm required spacing 100 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
Jord 55 mm depth 130 mm required spacing 10 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - at the side 6 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - for usiliary and contol circuit screw-type terminals for auxiliary and contol circuit screw-type terminals i of auxiliary and contacts Screw-type terminals i of magnet coil Screw-type te	side-by-side mounting	Yes
depth 130 mm required spacing - • with side-by-side mounting - - forwards 10 mm - upwards 10 mm - downwards 0 mm - downwards 0 mm - at the side 0 mm - for groundel parts - - forwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - for auxiliary and control circuit <td>height</td> <td>114 mm</td>	height	114 mm
required spacing • with side-by-side mounting - forwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 0 mm - at the side 0 mm - for grounded parts - - forwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - for availary and control circuit screw-type terminals for a auxiliary and control circuit screw-type	· · · · · · · · · · · · · · · · · · ·	55 mm
with side-by-side mounting - forwards 10 mm - upwards 10 mm - downwards 0 mm - downwards 0 mm - at the side 0 mm • for grounded parts - - forwards 10 mm - upwards 0 mm - upwards 0 mm - upwards 6 mm - downwards 0 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - downwards 0 mm - downwards 10 mm - at the side 6 mm Tornectons/ Terminals 6 mm Vpe of electrical connection screw-type terminals • for auxiliary and control circuit screw-type terminals • for auxiliary contacts Screw-type terminals • of magnet coil screw-type terminals • of ond conductor cross-section	depth	130 mm
with side-by-side mounting - forwards 10 mm - upwards 10 mm - downwards 0 mm - downwards 0 mm - at the side 0 mm • for grounded parts - - forwards 10 mm - upwards 0 mm - upwards 0 mm - upwards 6 mm - downwards 0 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - downwards 0 mm - downwards 10 mm - at the side 6 mm Tornectons/ Terminals 6 mm Vpe of electrical connection screw-type terminals • for auxiliary and control circuit screw-type terminals • for auxiliary contacts Screw-type terminals • of magnet coil screw-type terminals • of ond conductor cross-section	•	
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- upwards10 mm- at the side6 mm- downwards10 mm- downwards10 mm- for live parts forwards10 mm- upwards10 mm- downwards10 mm- downwards10 mm- downwards6 mm- downwards6 mm- at the side6 mmConnections/ Terminalstype of electrical connection- for main current circuitscrew-type terminals- for auxiliary and control circuitscrew-type terminals- of magnet coilScrew-type terminals- of magnet coilScrew-type terminals- type of connectable conductor cross-sections for main contactsScrew-type terminals- solid or stranded2x (1 35 mm²), 1x (1 50 mm²)- finely stranded with core end processing2x (1 25 mm²), 1x (1 35 mm²)		10 mm
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Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²)		
type of electrical connection• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminalstype of connectable conductor cross-sections for main contactsScrew-type terminals• solid or stranded2x (1 35 mm²), 1x (1 50 mm²)• finely stranded with core end processing2x (1 25 mm²), 1x (1 35 mm²)		
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• of magnet coil Screw-type terminals type of connectable conductor cross-sections for main contacts Screw-type terminals • solid or stranded 2x (1 35 mm²), 1x (1 50 mm²) • finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) connectable conductor cross-section for main contacts Screw-type terminals	-	
type of connectable conductor cross-sections for main contacts • solid or stranded 2x (1 35 mm²), 1x (1 50 mm²) • finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) connectable conductor cross-section for main contacts		
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• finely stranded with core end processing 2x (1 25 mm ²), 1x (1 35 mm ²) connectable conductor cross-section for main contacts		$2y(4) = 25 \text{ mm}^2 + 1y(4) = 50 \text{ mm}^2$
connectable conductor cross-section for main contacts		
		2x (1 25 mm²), 1x (1 35 mm²)
- tinely strended with seve and pressessing 4 OF2		4 05 mm2
finely stranded with core end processing 1 35 mm ²		1 50 []][]]"
connectable conductor cross-section for auxiliary contacts	-	0.5 0.5 mm²
solid or stranded 0.5 2.5 mm ²		
finely stranded with core end processing 0.5 2.5 mm ²		0.5 2.5 MM*
type of connectable conductor cross-sections		
• for auxiliary contacts	-	
- solid or stranded 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)		
- finely stranded with core end processing $2x (0.5 \dots 1.5 \text{ mm}^2), 2x (0.75 \dots 2.5 \text{ mm}^2)$		
• for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14)	•	2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross section	section	
• for main contacts 18 1	for main contacts	18 1
• for auxiliary contacts 20 14		

product function					
 mirror contact ad 	ccording to IEC 60947-4-1		Yes		
 positively driven 	operation according to IEC	C 60947-5-1	No		
B10 value with high de	mand rate according to SN	I 31920	1 000 000		
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 %		
ailure rate [FIT] with lo	w demand rate according	to SN 31920	100 FIT		
T1 value for proof test 61508	interval or service life acco	rding to IEC	20 a		
protection class IP or	n the front according to I	EC 60529	IP20		
ouch protection on t	he front according to IEC	60529	finger-safe, for vertical contact	from the front	
uitability for use					
 safety-related sv 	vitching OFF		Yes		
ertificates/ approvals					
General Product App	oroval				
		Confirmation		KC	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of 0	Conformity	Test Certificates	
RCM	<u>Type Examination Cer-</u> <u>tificate</u>	UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certif</u> <u>ate</u>
Marine / Shipping					
Marine / Shipping	BUREAU VERITAS		Lloyd's Register urs	PRS	RINA
	BUREAU VERITAS		Lloyds Register uts	PRS Dangerous Good	Environment
ABS	UREAU VERITAS Other Confirmation	Confirmation	Railway		

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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2035-1AQ20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2035-1AQ20

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

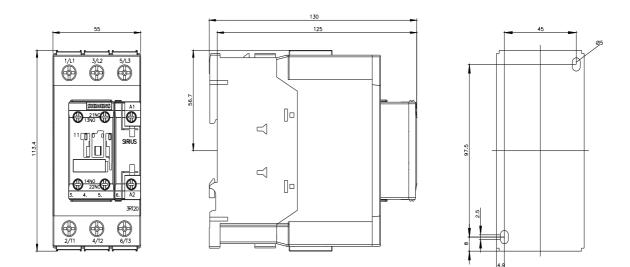
https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1AQ20

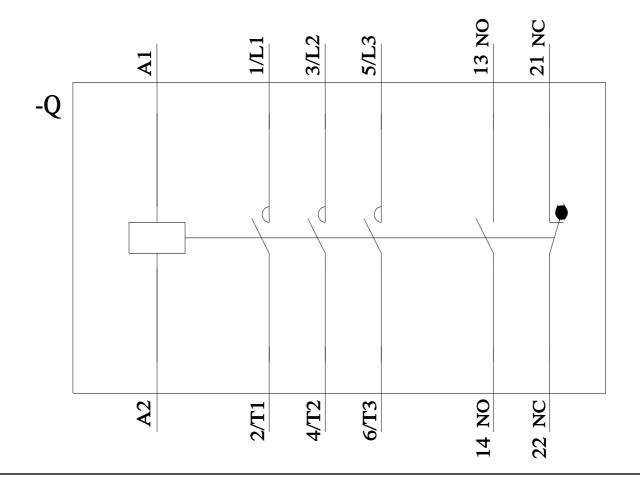
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2035-1AQ20&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1AQ20/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2035-1AQ20&objecttype=14&gridview=view1





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