SIEMENS

Data sheet

3RT2035-1AK60



power contactor, AC-3e/AC-3, 41 A, 18.5 kW / 400 V, 3-pole, 110 V AC, 50 Hz / 120 V, 60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2

product brand name SIRUS product designation Power contactor product type designation SR12 canazit tachnical data	6/13	
product type designation 3RT2 General technical data	product brand name	SIRIUS
Ceneral technical data S2 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 6.6 W • at AC in hot operating state 6.6 W • at AC in hot operating state 6.6 W • without load current share typical 6.6 W • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 64 V • of main circuit with degree of pollution 3 rated value 64 V • of main circuit rated value 64 V • of main circuit rated value 64 V • of main circuit rated value 64 V • of auxiliary circuit rated value 75 ms, 7.4g / 10 ms machinum permissible voltage for protective separation between colland main contactor with added acternnically optimized auxiliary switch block typical 10 000 000 • of the contactor with added acternnically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 <	product designation	Power contactor
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Substance Prohibitance (Date) 10/01/2014 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature 0 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 %	 of the contactor with added auxiliary switch block typical 	10 000 000
Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • 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	reference code according to IEC 81346-2	Q
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• 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	installation altitude at height above sea level maximum	2 000 m
• during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % Main circuit	ambient temperature	
relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit 95 %	 during operation 	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum 95 % Main circuit 95 %	during storage	-55 +80 °C
maximum Main circuit	relative humidity minimum	10 %
		95 %
number of poles for main current circuit 3	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-	
4	
 at 400 V rated value 	11.6 kW
• at 690 V rated value	16.8 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	14.5 kVA
 up to 400 V for current peak value n=20 rated value 	25.2 kVA
• up to 500 V for current peak value n=20 rated value	31.6 kVA
• up to 690 V for current peak value n=20 rated value	28.6 kVA
operating apparent power at AC-6a	
 operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value 	9.6 kVA
• up to 230 V for current peak value n=30 rated value	9.6 kVA 16.8 kVA
 up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value 	16.8 kVA
 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 	16.8 kVA 21 kVA
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 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 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 	16.8 kVA 21 kVA
 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 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C 	16.8 kVA 21 kVA 28.6 kVA
 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 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum 	16.8 kVA 21 kVA 28.6 kVA 843 A; Use minimum cross-section acc. to AC-1 rated value
 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 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum 	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
 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 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 10 s switching at zero current maximum 	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
 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 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum 	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
 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 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum 	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
 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 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum a limited to 60 s switching at zero current maximum a limited to 60 s switching at zero current maximum a limited to 60 s switching at zero current maximum 	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
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 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 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at AC operating frequency at AC-1 maximum at AC-2 maximum 	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 5 000 1/h 1 200 1/h 750 1/h
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 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 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at AC operating frequency at AC-1 maximum at AC-3 maximum 	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 5 000 1/h 1 200 1/h 750 1/h 1 000 1/h

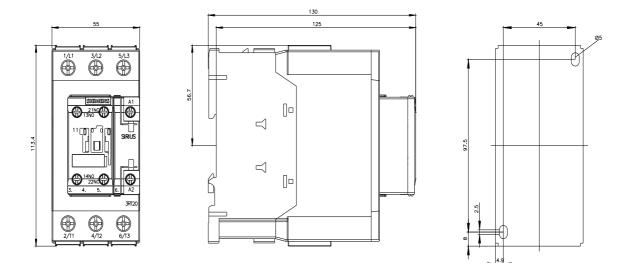
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	110 V
• at 60 Hz rated value	120 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	212 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	18.5 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 contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
-	10 A
 at 230 V rated value at 400 V rated value 	3 A
• at 400 V rated value	3 A 2 A
at 400 V rated valueat 500 V rated value	2 A
 at 400 V rated value at 500 V rated value at 690 V rated value 	
 at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12	2 A 1 A
at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value	2 A 1 A 10 A
at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value	2 A 1 A 10 A 6 A
 at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 60 V rated value 	2 A 1 A 10 A 6 A 6 A
 at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 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 10 A 6 A 6 A 3 A
 at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 60 V rated value 	2 A 1 A 10 A 6 A 6 A 3 A 2 A
 at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 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 	2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A
 at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 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 600 V rated value at 600 V rated value 	2 A 1 A 10 A 6 A 6 A 3 A 2 A
 at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 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 600 V rated value at 600 V rated value at 600 V rated value 	2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A
 at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 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 600 V rated value at 600 V rated value at 400 V rated value at 400 V rated value at 220 V rated value at 400 V rated value 	2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A
 at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 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 600 V rated value at 600 V rated value at 600 V rated value 	2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A
 at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 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 600 V rated value at 600 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 	2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A
 at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 60 V rated value at 110 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 48 V rated value at 400 V rated value at 40 V rated value at 40 V rated value at 60 V rated value at 60 V rated value 	2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 1 A
 at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 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 600 V rated value at 600 V rated value at 600 V rated value at 48 V rated value at 600 V rated value at 48 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 48 V rated value at 60 V rated value 	2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A
 at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 600 V rated value at 24 V rated value at 24 V rated value at 48 V rated value at 600 V rated value at 600 V rated value at 24 V rated value at 24 V rated value at 25 V rated value at 110 V rated value at 48 V rated value at 24 V rated value at 24 V rated value at 25 V rated value at 125 V rated value at 125 V rated value at 125 V rated value at 220 V rated value 	2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.3 A
 at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 600 V rated value at 24 V rated value at 24 V rated value at 220 V rated value at 24 V rated value at 20 V rated value at 125 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 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A
 at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 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 at 24 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 220 V rated value at 24 V rated value at 60 V rated value at 60 V rated value at 10 V rated value at 10 V rated value at 125 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 	2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.3 A
 at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 60 V rated value at 110 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 24 V rated value at 25 V rated value at 24 V rated value at 25 V rated value at 24 V rated value at 25 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 60 V rated value at 60 V rated value at 60 V rated value at 220 V rated value 	2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A
 at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 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 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 600 V rated value at 24 V rated value at 25 V rated value at 10 V rated value at 10 V rated value at 125 V rated value 	2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 1 A 0.15 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
 at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 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 600 V rated value at 24 V rated value at 600 V rated value at 220 V rated value at 24 V rated value at 24 V rated value at 24 V rated value at 220 V rated value at 24 V rated value at 48 V rated value at 48 V rated value at 10 V rated value at 24 V rated value at 60 V rated value at 60 V rated value at 125 V rated value at 480 V rated value at 600 V rated value at 600 V rated value at 480 V rated value 	2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.15 A 10 A 0.15 A 11 A 11 faulty switching per 100 million (17 V, 1 mA)
 at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 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 600 V rated value at 24 V rated value at 24 V rated value at 220 V rated value at 24 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 480 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 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 1 A 0.15 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
 at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 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 600 V rated value at 220 V rated value at 600 V rated value at 220 V rated value at 220 V rated value at 24 V rated value at 24 V rated value at 24 V rated value at 25 V rated value at 20 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 480 V rated value at 480 V rated value at 600 V rated value 	2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.15 A 1 A 1 faulty switching per 100 million (17 V, 1 mA)
 at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 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 600 V rated value at 24 V rated value at 24 V rated value at 220 V rated value at 24 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 480 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 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.15 A 1 A 1 faulty switching per 100 million (17 V, 1 mA)

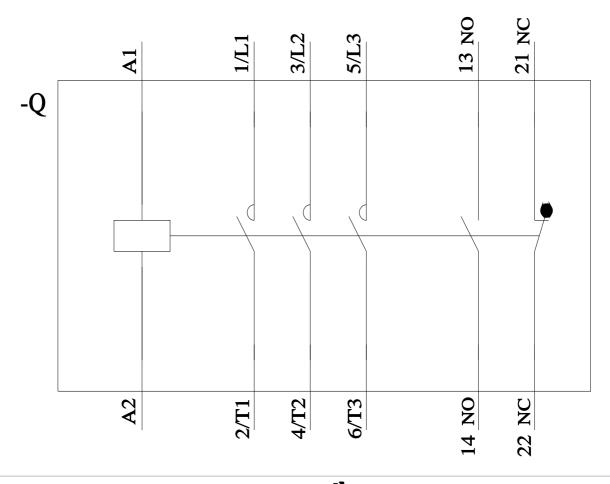
• for 3-phase AC motor·- at 200208 V rated value10 hp- at 200208 V rated value30 hp- at 450/480 V rated value30 hp- at 450/480 V rated value40 hpconcat rating of auxiliary contacts according to ULA600 / P600Short-Caruit protection50 hp- at 7500 V rated value50 hp- at 7500 V rated value10 hp- at 7500 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 bited forward backward by +22.5° on vertical mounting surface; can be tilted forward by the forward backward by +22.5° on vertical mounting surface; can be tilted forward band the downard bited forward backward by the forward b	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 00 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 - forwards 50 mm - forwards 50 mm - oforwards 50 mm - forwards 50 mm <td>mounting position</td> <td></td>	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 auxiliary and control circuit screw-type terminals for auxiliary and control circuit screw-type t	· · · · · · · · · · · · · · · · · · ·	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		
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• for grounded parts10 mm- forwards10 mm- upwards10 mm- at the side6 mm- downwards10 mm- downwards10 mm• for live parts10 mm- forwards10 mm- upwards10 mm- upwards10 mm- upwards10 mm- downwards10 mm- downwards10 mm- downwards6 mm- downwards6 mm- downwards5 crew-type terminals- at the side5 crew-type terminals- for auxiliary and control circuitscrew-type terminals• of magnet coil5 crew-type terminals• of magnet coil5 crew-type terminals• of inductor cross-sections for main contacts5 crew-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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- forwards10 mm- upwards10 mm- at the side6 mm- downwards10 mm- downwards10 mm- forwards10 mm- forwards10 mm- upwards10 mm- upwards10 mm- downwards10 mm- downwards6 mm- downwards6 mm- downwards5 mm- at the side5 mm	 for grounded parts 			
- 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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• for live parts10 mm- upwards10 mm- upwards10 mm- downwards10 mm- at the side6 mmConnections/ Terminals6 mmtype 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 50 mm²)				
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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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• at contactor for auxiliary contacts Screw-type terminals • 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				
• 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	-			
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• 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) Connectable conductor cross-section for main contacts		onew-type terminals		
• 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				

Safety related data						
product function						
•	according to IEC 60947-4-1		Yes			
	-	60947-5-1	No			
. ,	positively driven operation according to IEC 60947-5-1		Yes			
suitability for use safety-related switching OFF B10 value with high demand rate according to SN 31920		1 000 000				
		51920				
	 proportion of dangerous failures with low demand rate according to SN 31920 		40 %			
	nd rate according to SN 3192		73 %			
	ow demand rate according to					
	interval or service life according		100 FIT			
61508			20 a			
protection class IP o	n the front according to IE	C 60529	IP20			
touch protection on	the front according to IEC	60529	finger-safe, for vertical contac	t from the front		
Certificates/ approvals	;					
General Product Ap	proval					
		Confirmation	ŝ	KC	r M F	
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			$\mathbf{\nabla}$		LIIL	
	Functional					
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ARS	1822	DNV	LRS	DPS	PINA	
	VERITAS					
Marine / Shipping	other		Railway	Dangerous Good	Environment	
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https://support.industr	y.siemens.com/cs/ww/en/ps	/3RT2035-1AK60	<u>char</u>			
Further characteristi	cs (e.g. electrical enduran	ce, switching fre	quency)			
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