SIEMENS

Data sheet

3RT2016-4AK62



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 110 V AC, 50 Hz / 120 V, 60 Hz, auxiliary contacts: 1 NC, ring cable lug connection, size: S00 $\,$

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
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 	0.9 W
 at AC in hot operating state per pole 	0.3 W
 without load current share typical 	1.2 W
type of calculation of power loss depending on pole	quadratic
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	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	30 000 000
 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)	
Weight	0.224 kg
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	39.6 kg			
Global Warming Potential [CO2 eq] during manufacturing	1.18 kg			
Global Warming Potential [CO2 eq] during operation	38.5 kg			
Global Warming Potential [CO2 eq] after end of life	-0.155 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	22 A			
• at AC-1	60 A			
— up to 690 V at ambient temperature 40 °C rated value	22 A 20 A			
— up to 690 V at ambient temperature 60 °C rated value	20 A			
• at AC-3 — at 400 V rated value	9 A			
— at 500 V rated value — at 500 V rated value	9 A 7.7 A			
— at 690 V rated value	6.7 A			
• at AC-3e				
- at 400 V rated value	9 A			
— at 500 V rated value	7.7 A			
— at 690 V rated value	6.7 A			
• at AC-4 at 400 V rated value	8.5 A			
• at AC-5a up to 690 V rated value	19.4 A			
• at AC-5b up to 400 V rated value	7.4 A			
• at AC-6a				
— up to 230 V for current peak value n=20 rated value	5.3 A			
— up to 400 V for current peak value n=20 rated value	5.3 A			
— up to 500 V for current peak value n=20 rated value	5.3 A			
— up to 690 V for current peak value n=20 rated value	5 A			
• at AC-6a				
— up to 230 V for current peak value n=30 rated value	3.5 A			
— up to 400 V for current peak value n=30 rated value	3.5 A			
— up to 500 V for current peak value n=30 rated value	3.6 A			
— up to 690 V for current peak value n=30 rated value	3.3 A			
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm ²			
operational current for approx. 200000 operating cycles at AC-4				
at 400 V rated value	4.1 A			
at 690 V rated value	3.3 A			
operational current				
at 1 current path at DC-1	20.4			
— at 24 V rated value — at 60 V rated value	20 A 20 A			
— at 100 V rated value — at 110 V rated value	20 A 2.1 A			
— at 220 V rated value	0.8 A			
— at 440 V rated value	0.6 A			
— at 600 V rated value	0.6 A			
with 2 current paths in series at DC-1				
— at 24 V rated value	20 A			
— at 60 V rated value	20 A			
— at 110 V rated value				
	12 A			
— at 220 V rated value	12 A 1.6 A			
— at 220 V rated value — at 440 V rated value				

with 2 surrant action in carias at DC 4				
with 3 current paths in series at DC-1 — at 24 V rated value	20 A			
— at 60 V rated value				
— at 10 V rated value	20 A			
— at 220 V rated value	20 A 20 A			
— at 440 V rated value	20 A			
	1.3 A 1 A			
— at 600 V rated value	TA			
at 1 current path at DC-3 at DC-5	20 A			
— at 24 V rated value				
— at 60 V rated value — at 110 V rated value	0.5 A 0.15 A			
	0.15 A			
 with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value 	20 A			
— at 60 V rated value	5 A			
	0.35 A			
 — at 110 V rated value with 3 current paths in series at DC-3 at DC-5 	0.55 A			
with 5 current paths in series at DC-5 at DC-5 — at 24 V rated value	20 A			
	20 A 20 A			
— at 60 V rated value — at 110 V rated value	20 A 20 A			
	20 A 1.5 A			
— at 220 V rated value				
— at 440 V rated value — at 600 V rated value	0.2 A			
	0.2 A			
operating power • at AC-3				
- at 230 V rated value	2.2 kW			
— at 400 V rated value	4 kW			
— at 500 V rated value	4 kW			
- at 690 V rated value	5.5 kW			
• at AC-3e	0.0 KW			
— at 230 V rated value	2.2 kW			
— at 400 V rated value	4 kW			
— at 500 V rated value	4 kW			
— at 690 V rated value	5.5 kW			
operating power for approx. 200000 operating cycles at AC-				
4				
• at 400 V rated value	2 kW			
• at 690 V rated value	2.5 kW			
operating apparent power at AC-6a				
 up to 230 V for current peak value n=20 rated value 	2 kVA			
 up to 400 V for current peak value n=20 rated value 	3.6 kVA			
 up to 500 V for current peak value n=20 rated value 	4.6 kVA			
 up to 690 V for current peak value n=20 rated value 	5.9 kVA			
operating apparent power at AC-6a				
 up to 230 V for current peak value n=30 rated value 	1.3 kVA			
• up to 400 V for current peak value n=30 rated value	2.4 kVA			
• up to 500 V for current peak value n=30 rated value	3.1 kVA			
• up to 690 V for current peak value n=30 rated value	4 kVA			
short-time withstand current in cold operating state up to 40 °C				
Imited to 1 s switching at zero current maximum	155 A; Use minimum cross-section acc. to AC-1 rated value			
Imited to 5 s switching at zero current maximum	111 A; Use minimum cross-section acc. to AC-1 rated value			
Imited to 10 s switching at zero current maximum	86 A; Use minimum cross-section acc. to AC-1 rated value			
Imited to 30 s switching at zero current maximum	66 A; Use minimum cross-section acc. to AC-1 rated value			
Imited to 60 s switching at zero current maximum	55 A; Use minimum cross-section acc. to AC-1 rated value			
no-load switching frequency	40.000 4/h			
• at AC	10 000 1/h			
operating frequency	1 000 1/b			
• at AC-1 maximum	1 000 1/h			
• at AC-2 maximum	750 1/h			
• at AC-3 maximum	750 1/h 750 1/h			
• at AC-3e maximum	750 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 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	26.4 VA
• at 60 Hz	26.4 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.81
• at 60 Hz	0.81
apparent holding power of magnet coil at AC	
• at 50 Hz	4.4 VA
• at 60 Hz	4.4 VA
inductive power factor with the holding power of the coil	0.24
• at 50 Hz	0.24
• at 60 Hz	0.24
elosing delay • at AC	9 35 ms
	6111 00 0
opening delay • at AC	4 15 ms
arcing time	4 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous	1
contact	10 A
operational current at AC-12 maximum	
operational current at AC-15	
operational current at AC-15 • at 230 V rated value	10 A
operational current at AC-15 • at 230 V rated value • at 400 V rated value	10 A 3 A
operational current at AC-15 • at 230 V rated value	10 A 3 A 2 A
 operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value 	10 A 3 A
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	10 A 3 A 2 A
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 operational current at DC-12	10 A 3 A 2 A 1 A
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 Operational current at DC-12 • at 24 V rated value	10 A 3 A 2 A 1 A 10 A
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 Operational current at DC-12 • at 24 V rated value • at 48 V rated value	10 A 3 A 2 A 1 A 10 A 6 A
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 Operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A
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 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	10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A
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 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	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A
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 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	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A
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 operational current at DC-12 • 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 600 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A
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 operational current at DC-12 • 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 600 V rated value • at 600 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A
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 48 V rated value • at 60 V rated value • at 24 V rated value • at 25 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 24 V rated value • at 24 V rated value	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 A
operational current at AC-15• at 230 V rated value• at 400 V rated value• at 500 V rated value• at 690 V rated valueoperational current at DC-12• 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• at 600 V rated value• at 48 V rated value• at 420 V rated value• at 48 V rated value• at 48 V rated value• at 24 V rated value• at 48 V rated value• at 48 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A
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 10 V rated value• at 110 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• at 24 V rated value• at 25 V rated value• at 100 V rated value• at 110 V rated value• at 125 V rated value• at 125 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A
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 110 V rated value• at 125 V rated value• at 220 V rated value• at 600 V rated value• at 2120 V rated value• at 220 V rated value• at 24 V rated value• at 25 V rated value• at 24 V rated value• at 220 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• at 220 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A
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 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 25 V rated value • at 20 V rated value	10 A 3 A 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
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 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 600 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 25 V rated value • at 25 V rated value • at 20 V rated value • at 600 V rated value • at 600 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A
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 24 V rated value • at 48 V rated value • at 10 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 600 V rated value • at 24 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 600 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value <td>10 A 3 A 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</td>	10 A 3 A 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
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 110 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 20 V rated value • at 20 V rated value • at 20 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 600 V rated value • at 125 V rated value • at 600 V rated value	10 A 3 A 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 1 A 0.15 A 10 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
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• 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 220 V rated value• at 24 V rated value• at 25 V rated value• at 20 V rated value• at 600 V rated value• at 110 V rated value• at 125 V rated value• at 125 V rated value• at 125 V rated value• at 120 V rated value• at 600 V rated value <td>10 A 3 A 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 7.6 A</td>	10 A 3 A 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 7.6 A
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 48 V rated value • at 400 V rated value • at 48 V rated value • at 10 V rated value • at 110 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 • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 60 V rated value • at 24 V rated value • at 25 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 <td>10 A 3 A 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 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1</td>	10 A 3 A 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 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
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 48 V rated value • at 400 V rated value • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 24 V rated value • at 24 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 25 V rated value • at 110 V rated value • at 600 V rated value • at 600 V rated value • at 110 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 <td>10 A 3 A 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 7.6 A</td>	10 A 3 A 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 7.6 A
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 48 V rated value • at 400 V rated value • at 48 V rated value • at 10 V rated value • at 110 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 • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 60 V rated value • at 24 V rated value • at 25 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 <td>10 A 3 A 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 7.6 A</td>	10 A 3 A 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 7.6 A

of 220 V/ refer turbus	1 hn				
— at 230 V rated value	1 hp				
• for 3-phase AC motor	0 hr				
- at 200/208 V rated value	2 hp				
— at 220/230 V rated value	3 hp				
— at 460/480 V rated value	5 hp				
- at 575/600 V rated value	7.5 hp				
contact rating of auxiliary contacts according to UL	A600 / Q600				
Short-circuit protection					
design of the fuse link					
 for short-circuit protection of the main circuit 					
 — with type of coordination 1 required 	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)				
— with type of assignment 2 required	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (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				
height	58 mm				
width	45 mm				
depth	73 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 	Ring cable lug connection				
 for auxiliary and control circuit 	ring terminal lug connection				
 at contactor for auxiliary contacts 	Ring cable lug connection				
of magnet coil	Ring cable lug connection				
Safety related data					
product function					
 mirror contact according to IEC 60947-4-1 	Yes				
positively driven operation according to IEC 60947-5-1	No				
suitable for safety function	Yes				
suitability for use safety-related switching OFF	Yes				
service life maximum	20 a				
test wear-related service life necessary	Yes				
proportion of dangerous failures					
• with low demand rate according to SN 31920	40 %				
• with high demand rate according to SN 31920	73 %				
B10 value with high demand rate according to SN 31920	1 000 000				
failure rate [FIT] with low demand rate according to SN	100 FIT				
31920					
ISO 13849					
device type according to ISO 13849-1	3				
overdimensioning according to ISO 13849-2 necessary	Yes				
IEC 61508					
safety device type according to IEC 61508-2	Туре А				

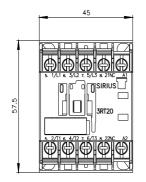
Electrical Safety protection class IP on the front according to IEC 60529 IP00						
Approvals Certificates	the front decording to					
General Product Appro	oval					
	UK CA	CE EG-Konf.	<u>Confirmation</u>		KC	
General Product Approval	EMV	Functional Saftey	Test Certificates		Marine / Shipping	
EHC	RCM	<u>Type Examination Cer-</u> <u>tificate</u>	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS	
Marine / Shipping					other	
BUREAU VERITAS		PRS	RINA	RMRS RMRS	<u>Miscellaneous</u>	
other		Railway	Environment			
<u>Confirmation</u>	<u>Confirmation</u>	Special Test Certific- ate	EPD	Environmental Con- firmations		
Further information						
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/catalog/product?mlfb=3RT2016-4AK62 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2016-4AK62 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-4AK62						

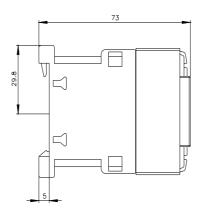
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2016-4AK62&lang=en

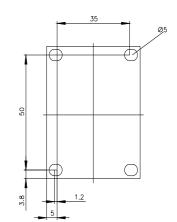
Characteristic: Tripping characteristics, I²t, Let-through current

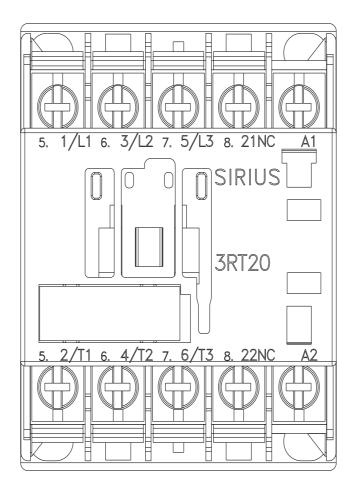
https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-4AK62/char

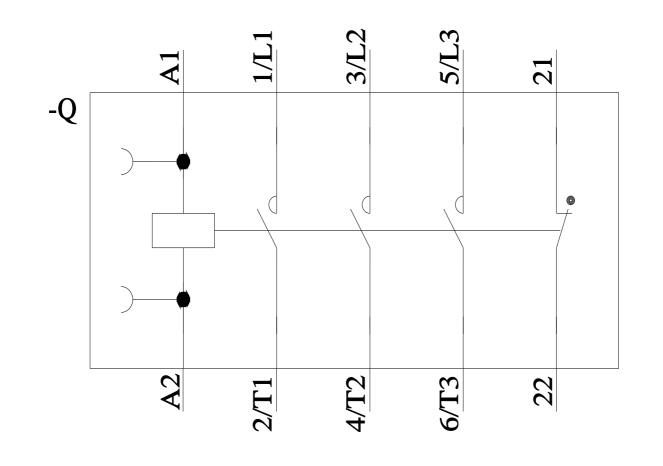
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2016-4AK62&objecttype=14&gridview=view1











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