## SIEMENS

## Data sheet

## 3RT2016-4AP62



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 220 V AC, 50 Hz / 240 V, 60 Hz, auxiliary contacts: 1 NC, ring cable lug connection, size: S00

product brand name         SIRUS           product designation         Power contactor           product type designation         SRT2           central technical data         S00           product stansion         No           • function module for communication         No           • auxiliary switch         Yes           power loss [VI] for rated value of the current         0.9 W           • 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           insultation voltage         680 V           • of main circuit with degree of pollution 3 rated value         680 V           • of auxiliary circuit rated value         64 V           • of auxiliary circuit rated value         75 ms. 4.2g / 10 ms           mechanical		
product type designation         3RT2           Canaral technical data	product brand name	SIRIUS
General technical data     S00       size of contactor     S00       product extension     • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     0.9 W       • at AC in hot operating state     0.9 W       • at AC in hot operating state     0.9 W       • without load current share typical     1.2 W       insulation voltage     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit rated value     680 V       • of auxiliary circuit with degree of pollution 3 rated value     690 V       surge voltage resistance     64V       • of auxiliary circuit rated value     61V       • of auxiliary circuit rated value     61V       • of contactor typical     30 000 V       • at AC     10,5g / 5 ms, 6,6g / 10 ms       mechanical service life (operating cycles)     30 000 000       • of the contactor with added auxilary switch block typical     10 000 000       • of the contactor with added auxilary switch block typical     10 000 000       • of the contactor with added auxilary switch block typical     10 000 000	product designation	Power contactor
size of contactor     S00       product extension     • function module for communication     No       • auxilary switch     Yes       power loss [W] for rated value of the current     0.9 W       • at AC in hot operating state per pole     0.3 W       • without load current share typical     1.2 W       Insulation voltage     690 V       • 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     690 V       • 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 rated value     6 kV       • of auxillary switch block typical     10.5g / 5 ms, 6,6g / 10 ms       mechanical service life (operating cycles)     5 000 000       • of the contactor with added elect	product type designation	3RT2
product extension     No       • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     0.9 W       • 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       insulation voltage     690 V       • of main circui with degree of pollution 3 rated value     690 V       • of analizity circuit rated value     690 V       • of main circuit rated value     6 kV       • of main circuit rated value     6 kV       • of main circuit rated value     6 kV       • of main contacts according to EN 60947-1     5 kov       • shock resistance at rectangular impulse     6.7g / 5 ms, 4.2g / 10 ms       • at AC     10.5g / 5 ms, 6.6g / 10 ms       mechanical service life (operating cycles)     30 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     10 00000       reference code according to ELC 81346-2     Q       Q     Substance Prohibitance (Date)     2000 m       ambient temperature     400 °C       • during operating table above sea level maximum     2 000 m       ambient temperature     400 °C       • during operatin     25 + 60 °C       • during op	General technical data	
• function module for communication       No         • auxillary switch       Yes         power loss [W] for rated value of the current       0.9 W         • at AC in hot operating state per pole       0.3 W         • without load current share typical       1.2 W         insultation voitage       690 V         • 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 ated value       6 k/V         • of main circuit rated value       6 k/V         • of main circuit rated value       6 k/V         • of auxiliary circuit rated value       6 k/V         • at AC       6,7g / 5 ms, 4,2g / 10 ms         • at AC       10,5g / 5 ms, 6,6g / 10 ms         • at AC       10,5g / 5 ms, 6,6g / 10 ms         • at AC       10,000 000         • of the contactor whin deded auxiliary switch block typical	size of contactor	S00
• auxiliary switch     Yes       power loss [W] for rated value of the current     0.9 W       • 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       insuliation voltage     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit rated value     690 V       • of main circuit rated value     64V       • of auxiliary circuit with degree of pollution 3 rated value     64V       • of auxiliary circuit value     64V       • of auxiliary circuit value     64V       • of auxiliary circuit rated value     64V       • of auxiliary circuit value     64V       • of auxiliary circuit rated value     64V       • of auxiliary circuit rated value     64V       • of auxiliary circuit rated value     64V       • at AC     6.7g / 5 ms, 6.6g / 10 ms       • at AC     10.5g / 5 ms, 6.6g / 10 ms       • at AC     5000 000       • of the contactor with added electronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 0	product extension	
power loss [W] for rated value of the current     0.9 W       • at AC in hot operating state per pole     0.3 W       • without load current share typical     1.2 W       insulation voltage     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of auxiliary circuit with degree of pollution 3 rated value     690 V       • of auxiliary circuit with degree of pollution 3 rated value     690 V       • of auxiliary circuit rated value     64 V       • of main circuit rated value     64 V       • of auxiliary circuit rated value     64 V       • at AC     6.7g / 5 ms, 4.2g / 10 ms       shock resistance with sine pulse     6.7g / 5 ms, 6.6g / 10 ms       • at AC     10.5g / 5 ms, 6.6g / 10 ms       mechanical service life (operating cycles)     5 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10/001/2009	<ul> <li>function module for communication</li> </ul>	No
• 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         insultation voltage       690 V         • of main circuit with degree of pollution 3 rated value       690 V         • of auxiliary circuit with degree of pollution 3 rated value       690 V         • of main circuit rated value       64 V/         • of auxiliary circuit rated value       6 k/V         shock resistance at rectangular impulse       6.7g / 5 ms, 4.2g / 10 ms         • at AC       10.5g / 5 ms, 6.6g / 10 ms         mechanical service life (operating cycles)       5 000 000         • of the contactor with added electronically optimized       30 000 000         • of the contactor with added electronically optimized       10 000 000         reference co	auxiliary switch	Yes
• at AC in hot operating state per pole         0.3 W           • without load current share typical         1.2 W           insulation voltage         60 min circuit with degree of pollution 3 rated value         690 V           • of main circuit with degree of pollution 3 rated value         690 V           surge voltage resistance         6 kV           • of main circuit with degree of pollution 3 rated value         690 V           surge voltage resistance         6 kV           • of auxiliary circuit rated value         6 kV           • of auxiliary circuit rated value         6 kV           • of auxiliary circuit rated value         6 kV           • ad and main contacts according to EN 60947-1         400 V           shock resistance at rectangular impulse         6.7g / 5 ms, 4.2g / 10 ms           • at AC         10.5g / 5 ms, 6.6g / 10 ms           mechanical service life (operating cycles)         0           • of contactor typical         30 000 000           • of the contactor with added electronically optimized auxiliary switch block typical         10 000 000           • of the contactor with added auxiliary switch block typical         10 000 000           • of the contactor with added auxiliary switch block typical         10 000 000           • of the contactor with added auxiliary switch block typical         10 000 000	power loss [W] for rated value of the current	
• without load current share typical       1.2 W         insulation voltage       690 V         • of main circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       690 V         • of main circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       6 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • at AC       6.7g / 5 ms, 4.2g / 10 ms         • at AC       10.5g / 5 ms, 6.6g / 10 ms         • at AC       10.5g / 5 ms, 6.6g / 10 ms         • of contactor typical       30 000 000         • of the contactor with added electronically optimized       30 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       1001/2009         Ambient conditions       -         installation altitude at height above sea level maximum       2 000 m         ambi	<ul> <li>at AC in hot operating state</li> </ul>	0.9 W
insulation voltage <ul> <li>of main circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit rated value</li> <li>of contactor at rectangular impulse</li> <li>of contactor with added electronically optimized</li> <li>auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxi</li></ul>	<ul> <li>at AC in hot operating state per pole</li> </ul>	0.3 W
• 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       680 V         • of main circuit rated value       6 kV         • of auxiliary circuit with degree of pollution 3 rated value       6 kV         • of auxiliary 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       6,7g / 5 ms, 4,2g / 10 ms         • at AC       6,7g / 5 ms, 4,2g / 10 ms         shock resistance with sine pulse       6         • at AC       10.5g / 5 ms, 6,6g / 10 ms         mechanical service life (operating cycles)       30 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       -25 +60 °C         • during storage       -25 +60 °C         • during storage       -55 +60 °C         •	<ul> <li>without load current share typical</li> </ul>	1.2 W
• of auxiliary circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       6 kV         • 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       6,7g / 5 ms, 4,2g / 10 ms         • at AC       6,7g / 5 ms, 6,6g / 10 ms         mechanical service life (operating cycles)       00 000         • of contactor typical       30 000 000         • of the contactor with added electronically optimized auxiliary witch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +60 °C         • during storage       -55 +60 °C         • during storage       -55 +60 °C         • du	insulation voltage	
surge voltage resistance       6         • 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       6,7g / 5 ms, 4,2g / 10 ms         • at AC       6,7g / 5 ms, 6,6g / 10 ms         mechanical service life (operating cycles)       30 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       30 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %	<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
• of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       6,7g / 5 ms, 4,2g / 10 ms         • at AC       6,7g / 5 ms, 6,6g / 10 ms         shock resistance with sine pulse       6,7g / 5 ms, 6,6g / 10 ms         • at AC       10,5g / 5 ms, 6,6g / 10 ms         mechanical service life (operating cycles)       30 000 000         • of the contactor typical       5 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         ambient temperature       -55 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minum       10 %         95 %       95 %	<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
• 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       400 V         • 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       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Amblent conditions       2 000 m         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 at 55 °C according to IEC 60068-2-30       95 %         Main circuit       95 %	surge voltage resistance	
maximum permissible voltage for protective separation between       400 V         coil and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       6,7g / 5 ms, 4,2g / 10 ms         • at AC       6,7g / 5 ms, 4,2g / 10 ms         shock resistance with sine pulse       0,5g / 5 ms, 6,6g / 10 ms         • at AC       10,5g / 5 ms, 6,6g / 10 ms         mechanical service life (operating cycles)       30 000 000         • of contactor typical       30 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -55 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         95 %       95 %	<ul> <li>of main circuit rated value</li> </ul>	6 kV
coil and main contacts according to EN 60947-1         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         • of the contactor with added electronically optimized auxiliary switch block typical         • of the contactor with added auxiliary switch block typical         • of the contactor with added auxiliary switch block typical         • of the contactor with added auxiliary switch block typical         • of the contactor go to EX 81346-2         Q         Substance Prohibitance (Date)         Installation altitude at height above sea level maximum         2 000 m         ambient temperature         • during operation         • during storage         • c5 +80 °C         relative humidity minimum         10 %         relative humidity at 55 °C according to IEC 60068-2-30         maximum	<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
• at AC       6,7g / 5 ms, 4,2g / 10 ms         shock resistance with sine pulse       10,5g / 5 ms, 6,6g / 10 ms         • at AC       10,5g / 5 ms, 6,6g / 10 ms         mechanical service life (operating cycles)       30 000 000         • of contactor typical       30 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 s +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit       4000000000000000000000000000000000000		400 V
shock resistance with sine pulse       0.5g / 5 ms, 6,6g / 10 ms         e at AC       10,5g / 5 ms, 6,6g / 10 ms         mechanical service life (operating cycles)       30 000 000         • of contactor typical       30 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit       40 mino circuit	shock resistance at rectangular impulse	
• at AC10,5g / 5 ms, 6,6g / 10 msmechanical service life (operating cycles)30 000 000• of contactor typical30 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical20 000 m• of the contactor with added auxiliary switch block typical10/01/2009• Ambient conditions2 000 m• installation altitude at height above sea level maximum2 000 m• during operation • during operation • during storage-25 +60 °C• during storage relative humidity minimum10 %• feative humidity at 55 °C according to IEC 60068-2-30 maximum95 %	• at AC	6,7g / 5 ms, 4,2g / 10 ms
mechanical service life (operating cycles)       30 000 000         • 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         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         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       95 %         Main circuit	shock resistance with sine pulse	
• 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         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit	• at AC	10,5g / 5 ms, 6,6g / 10 ms
• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature • during operation-25 +60 °C• during storage-55 +80 °Crelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %	mechanical service life (operating cycles)	
auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         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 %         Main circuit       95 %	<ul> <li>of contactor typical</li> </ul>	30 000 000
reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         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 %		5 000 000
Substance Prohibitance (Date)       10/01/2009         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 %	<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	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
installation altitude at height above sea level maximum       2 000 m         ambient temperature <ul> <li>during operation</li> <li>-25 +60 °C</li> <li>during storage</li> <li>-55 +80 °C</li> </ul> relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %         Main circuit       400 m	Substance Prohibitance (Date)	10/01/2009
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	Ambient conditions	
• 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 maximum       95 %         Main circuit       10 %	during operation	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30     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
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	22 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	22 A
— up to 690 V at ambient temperature 60 °C rated	20 A
value	
● at AC-3	
— 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-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	5.2.4
— up to 230 V for current peak value n=20 rated value	5.3 A
<ul> <li>— up to 400 V for current peak value n=20 rated value</li> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>	5.3 A 5.3 A
— up to 690 V for current peak value n=20 rated value	5.5 A
• at AC-6a	54
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	3.5 A
— up to 200 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	4 mm <sup>2</sup>
value	
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	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	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	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	

<ul> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>with 2 current paths in series at DC-3 at DC-5</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> </ul>	20 A 0.5 A 0.15 A 20 A 5 A 0.35 A
<ul> <li>at 110 V rated value</li> <li>with 2 current paths in series at DC-3 at DC-5</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> </ul>	0.15 A 20 A 5 A
with 2 current paths in series at DC-3 at DC-5     — at 24 V rated value     — at 60 V rated value	20 A 5 A
— at 24 V rated value — at 60 V rated value	5 A
— at 60 V rated value	5 A
at 110 V rated value	0.35 A
— at 110 V rated value	
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	1.5 A
— at 440 V rated value	0.2 A
— at 600 V rated value	0.2 A
operating power	
at AC-2 at 400 V rated value	4 kW
• 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 600 V rated value	5.5 kW
• at AC-3e	
- at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 kW
— at 600 V rated value	5.5 kW
	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
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	3.6 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	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	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	155 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	111 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	86 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	66 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	55 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
	AC
type of voltage of the control supply voltage	
<ul> <li>control supply voltage at AC</li> <li>at 50 Hz rated value</li> </ul>	220 V
at 60 Hz rated value	240 V
operating range factor control supply voltage rated value of magnet coil at AC	

• at 50 Hz     0.8 1.1       apparent pick-up power of magnet coil at AC     26.4 VA       • at 50 Hz     26.4 VA       Inductive power factor with closing power of the coil     0.81       • at 50 Hz     0.44 VA       • at 60 Hz     0.81       • at 60 Hz     0.24       • at 60 V rated value     10 A    <	
apparent pick-up power of magnet coil at AC         • at 50 Hz       26.4 VA         • at 50 Hz       26.4 VA         inductive power factor with closing power of the coil       0.81         • at 50 Hz       0.81         apparent holding power of magnet coil at AC       0.81         • at 50 Hz       0.81         apparent holding power of magnet coil at AC       4.4 VA         • at 60 Hz       4.4 VA         inductive power factor with the holding power of the coil       0.24         • at 60 Hz       0.24         closing delay       0.24         • at AC       9 35 ms         opening delay       -         • at AC       4 15 ms         arcing time       10 15 ms         control version of the switch operating mechanism       Standard A1 - A2         Auxiliary circuit       1         number of NC contacts for auxiliary contacts instantaneous contact       1         coperational current at AC-12 maximum       10 A         • at 400 V rated value       3 A         • at 200 V rated value       2 A         • at 600 V rated value       6 A         • at 400 V rated value       6 A         • at 400 V rated value       6 A         •	
<ul> <li>at 50 Hz</li> <li>26.4 VA</li> <li>at 60 Hz</li> <li>26.4 VA</li> <li>inductive power factor with closing power of the coll</li> <li>at 60 Hz</li> <li>0.81</li> <li>at 60 Hz</li> <li>0.81</li> <li>at 60 Hz</li> <li>0.24</li> <li>at 60 Hz</li> <li>at AC</li> <li>at 60 Hz</li> <li>at AC</li> <li>at 60 Hz</li> <li>at AC</li> <li>at 60 V rated value at 60 Hz</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 220 V rated value</li> <li>at 240 V rated value</li> <li>at 60 V rated value</li> <li>at 220 V rated val</li></ul>	
• at 60 Hz         26.4 VA           inductive power factor with closing power of the coil	
inductive power factor with closing power of the coll	
• at 50 Hz         0.81           • at 60 Hz         0.81           • at 60 Hz         0.81           • at 60 Hz         4.4 VA           • at 50 Hz         4.4 VA           • at 60 Hz         4.4 VA           Inductive power factor with the holding power of the coil         4.4 VA           inductive power factor with the holding power of the coil         0.24           • at 60 Hz         0.24           • at 60 Hz         0.24           • at AC         9 35 ms           opening delay         4 15 ms           • at AC         4 15 ms           arcing time         10 15 ms           control version of the switch operating mechanism         1           operational current at AC-12 maximum         10 A           operational current at AC-15         -           • at 200 V rated value         10 A           • at 400 V rated value         3 A           • at 600 V rated value         10 A           • at 600 V rated value         6 A           • at 400 V rated value         10 A           • at 400 V rated value         10 A           • at 600 V rated value         10 A           • at 600 V rated value         6 A           •	
• at 60 Hz         0.81           apparent holding power of magnet coil at AC         4.4 VA           • at 60 Hz         4.4 VA           • at 60 Hz         4.4 VA           • at 60 Hz         0.24           • at AC         9 35 ms           opening delay         -           • at AC         4 15 ms           arcing time         10 15 ms           control version of the switch operating mechanism         Standard A1 - A2           Atuiliary circuit         10 A           operational current at AC-12 maximum         10 A           operational current at AC-15         -           • at 200 V rated value         3 A           • at 500 V rated value         1 A           operational current at DC-12         -           • at 200 V rated value         6 A           • at 600 V rated value         6 A           • at 600 V rated value         6 A           • at 100 V rated value         6 A           • at 400 V rated value         6 A           • at 600 V rated value         2 A	
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• 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           closing delay         935 ms           • at AC         935 ms           opening delay         415 ms           • at AC         415 ms           arcing time         10 15 ms           control version of the switch operating mechanism         Standard A1 - A2           Auxiliary circuit         10 A           operational current at AC-12 maximum         10 A           operational current at AC-15         -           • at 200 V rated value         3 A           • at 600 V rated value         3 A           • at 600 V rated value         6 A           • at 600 V rated value         6 A           • at 600 V rated value         3 A           • at 600 V rated value         6 A           • at 25 V rated value         6 A           • at 10 V rated value         6 A           • at 25 V rated value         6 A           • at 600 V rated value         6 A           • at 600 V rated value         0.15 A           • at 25 V rated value         10 A <tr< td=""><td></td></tr<>	
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• at 50 Hz         0.24           • at 60 Hz         0.24           closing delay         0.24           • at AC         9 35 ms           opening delay         4 15 ms           • at AC         4 15 ms           arcing time         10 15 ms           control version of the switch operating mechanism         Standard A1 - A2           Auxiliary circuit         1           number of NC contacts for auxiliary contacts instantaneous contact         1           operational current at AC-12 maximum         10 A           operational current at AC-15         -           • at 230 V rated value         3 A           • at 500 V rated value         2 A           • at 600 V rated value         1 A           operational current at DC-12         -           • at 600 V rated value         6 A           • at 600 V rated value         6 A           • at 600 V rated value         3 A           • at 10 V rated value         0 A           • at 600 V rated value         0 A           • at 600 V rated value         0 A           • at 210 V rated value         0 A           • at 220 V rated value         0 A           • at 600 V rated value         0 A	
• at 80 Hz         0.24           closing delay         9 35 ms           opening delay         4 15 ms           • at AC         4 15 ms           arcing time         10 15 ms           control version of the switch operating mechanism         Standard A1 - A2           Auxiliary circuit         10 A           operational current at AC-12 maximum         10 A           operational current at AC-15         1           • at 230 V rated value         3 A           • at 600 V rated value         3 A           • at 600 V rated value         10 A           • at 600 V rated value         3 A           • at 600 V rated value         2 A           • at 600 V rated value         6 A           • at 600 V rated value         10 A           • at 600 V rated value         10 A           • at 600 V rated value         2 A           • at 600 V rated value         6 A           • at 600 V rated value         10 A           • at 600 V rated value         10 A           • at 600 V rated value         10 A           • at 600 V rated value         2 A           • at 20 V rated value         2 A           • at 20 V rated value         1 A <tr< td=""><td></td></tr<>	
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Auxiliary circuit         number of NC 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       3 A         • at 400 V rated value       2 A         • at 500 V rated value       1 A         operational current at DC-12       1 A         • at 690 V rated value       6 A         • at 60 V rated value       6 A         • at 60 V rated value       6 A         • at 24 V rated value       6 A         • at 60 V rated value       6 A         • at 20 V rated value       10 A         • at 24 V rated value       6 A         • at 60 V rated value       6 A         • at 20 V rated value       10 A         • at 20 V rated value       6 A         • at 60 V rated value       6 A         • at 20 V rated value       1 A         • at 20 V rated value       2 A         • at 20 V rated value       1 A         • at 600 V rated value       2 A         • at 600 V rated value       0.15 A         operational current at DC-13       10 A         • at 24 V rated value       2 A	
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• 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	
• 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	
<ul> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>1 A</li> </ul> Operational current at DC-12 <ul> <li>at 24 V rated value</li> <li>10 A</li> <li>at 48 V rated value</li> <li>6 A</li> <li>at 60 V rated value</li> <li>3 A</li> <li>at 110 V rated value</li> <li>3 A</li> <li>at 125 V rated value</li> <li>2 A</li> <li>at 600 V rated value</li> <li>3 A</li> <li>at 220 V rated value</li> <li>0.15 A</li> </ul> Operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>10 A</li> <li>2 A</li> <li>at 48 V rated value</li> <li>2 A</li> <li>at 60 V rated value</li> <li>3 A</li> <li>4 A</li> <li>4 A V rated value</li> <li>5 A</li> &lt;</ul>	
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• at 24 V rated value       10 A         • at 48 V rated value       6 A         • at 60 V rated value       6 A         • at 10 V rated value       3 A         • at 125 V rated value       2 A         • at 220 V rated value       0.15 A         • at 600 V rated value       0.15 A         • at 24 V rated value       2 A         • at 60 V rated value       2 A         • at 60 V rated value       10 A         • at 60 V rated value       2 A         • at 10 V rated value       10 A	
<ul> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>1 A</li> <li>at 600 V rated value</li> <li>0.15 A</li> </ul> Operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>10 A</li> <li>at 48 V rated value</li> <li>2 A</li> <li>at 60 V rated value</li> <li>10 A</li> <li>at 60 V rated value</li> <li>10 A</li> <li>at 60 V rated value</li> <li>10 A</li> <li>110 V rated value</li> <li>10 A</li> <li>110 V rated value</li> <li>110 V rated value</li> </ul>	
• at 60 V rated value       6 A         • at 110 V rated value       3 A         • at 125 V rated value       2 A         • at 220 V rated value       1 A         • at 600 V rated value       0.15 A         operational current at DC-13       10 A         • at 24 V rated value       2 A         • at 48 V rated value       2 A         • at 48 V rated value       10 A         • at 40 V rated value       10 A         • at 40 V rated value       1 A	
<ul> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>0.15 A</li> </ul> operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>10 A</li> <li>at 48 V rated value</li> <li>2 A</li> <li>at 60 V rated value</li> <li>2 A</li> <li>at 60 V rated value</li> <li>10 A</li> <li>at 60 V rated value</li> <li>10 A</li> <li>110 V rated value</li> <li>110 V rated value</li> <li>110 V rated value</li> </ul>	
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>0.15 A</li> </ul> operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>10 A</li> <li>at 48 V rated value</li> <li>2 A</li> <li>at 60 V rated value</li> <li>2 A</li> <li>at 60 V rated value</li> <li>110 V rated value</li> <li>1 A</li> </ul>	
<ul> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>0.15 A</li> <li>operational current at DC-13</li> <li>at 24 V rated value</li> <li>10 A</li> <li>at 48 V rated value</li> <li>2 A</li> <li>at 60 V rated value</li> <li>2 A</li> <li>at 110 V rated value</li> <li>1 A</li> </ul>	
• at 600 V rated value         0.15 A           operational current at DC-13         -           • at 24 V rated value         10 A           • at 48 V rated value         2 A           • at 60 V rated value         2 A           • at 110 V rated value         1 A	
operational current at DC-1310 A• at 24 V rated value10 A• at 48 V rated value2 A• at 60 V rated value2 A• at 110 V rated value1 A	
at 24 V rated value     10 A     10 A     2 A     at 48 V rated value     2 A     at 60 V rated value     at 110 V rated value     1 A	
• at 48 V rated value2 A• at 60 V rated value2 A• at 110 V rated value1 A	
at 60 V rated value 2 A     at 110 V rated value 1 A	
• at 110 V rated value 1 A	
• at 125 V rated value 0.9 A	
• at 220 V rated value 0.3 A	
at 600 V rated value     0.1 A	
contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V,	1 mA)
JL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value 7.6 A	
• at 600 V rated value 9 A	
yielded mechanical performance [hp]	
for single-phase AC motor	
- at 110/120 V rated value 0.33 hp	
— at 230 V rated value 1 hp	
• for 3-phase AC motor	
- 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	ection of the main circu	it			
<ul> <li>for short-circuit protection of the main circuit</li> <li>— with type of coordination 1 required</li> </ul>		gG: 35A (690V.100kA), al	M: 20A (690V,100kA), BS88: 35A	(415V,80kA)	
				M: 16A (690V, 100kA), BS88: 20	
<ul> <li>with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch required</li> </ul>		gG: 10 A (500 V, 1 kA)			
nstallation/ mounting/ dir	•	·	0 ( , , ,		
mounting position			+/-180° rotation possible of backward by +/- 22.5° on	on vertical mounting surface; can vertical mounting surface	be tilted forward and
fastening method			screw and snap-on mount	ting onto 35 mm DIN rail accordir	ng to DIN EN 60715
<ul> <li>side-by-side mount</li> </ul>	ing		Yes		
height			58 mm		
width			45 mm		
depth			73 mm		
required spacing					
<ul> <li>with side-by-side m</li> </ul>	ounting				
- forwards			10 mm		
— upwards			10 mm		
- downwards			10 mm		
— at the side			0 mm		
<ul> <li>for grounded parts</li> </ul>					
— forwards			10 mm		
— upwards			10 mm		
— at the side			6 mm		
— downwards			10 mm		
<ul> <li>for live parts</li> </ul>					
— forwards			10 mm		
— upwards			10 mm		
- downwards			10 mm		
— at the side			6 mm		
connections/ Terminals					
type of electrical connect	ction				
<ul> <li>for main current cire</li> </ul>			Ring cable lug connection	ı	
for auxiliary and control circuit		ring terminal lug connection			
at contactor for auxiliary contacts		Ring cable lug connection			
<ul> <li>of magnet coil</li> </ul>	,,		Ring cable lug connection		
Safety related data			g		
product function					
	rding to IEC 60947-4-1		Yes		
			Yes		
suitability for use safety-related switching OFF B10 value with high demand rate according to SN 31920		1 000 000			
proportion of dangerous		101020	1 000 000		
		20	40 %		
<ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> </ul>		40 % 73 %			
		100 FIT			
failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508		20 a			
protection class IP on the front according to IEC 60529		IP00			
Certificates/ approvals					
General Product Approv	val				
Contrain rouder Appro-					
(SP)		<u>Confirmatic</u>	· •	<u>KC</u>	EHC
CSA					
EMC	Functional Safety/Safety of Ma-	Declaration of		Test Certificates	

RCM	<u>Type Examination Cer-</u> <u>tificate</u>	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>
Marine / Shipping					
ABS	BUREAU VERITAS		Lloyds Register us	PRS	RINA
Marine / Shipping	other		Railway	Environment	
RMRS	<u>Confirmation</u>		Vibration and Shock	Environmental Con- firmations	
Further information					
Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). Information on the packaging					

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2016-4AP62

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2016-4AP62

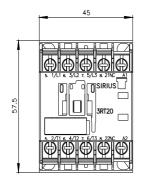
Service&Support industry siemens.com/cs/ww/en/ps/3RT2016-4AP62 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

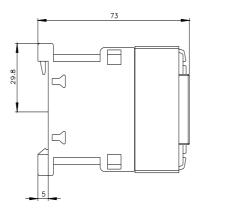
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2016-4AP62&lang=en

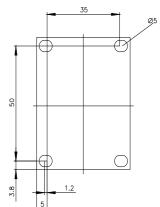
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

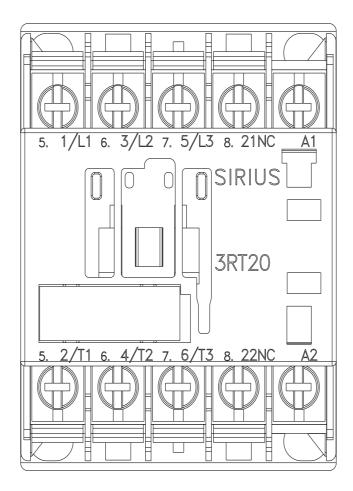
https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-4AP62/char

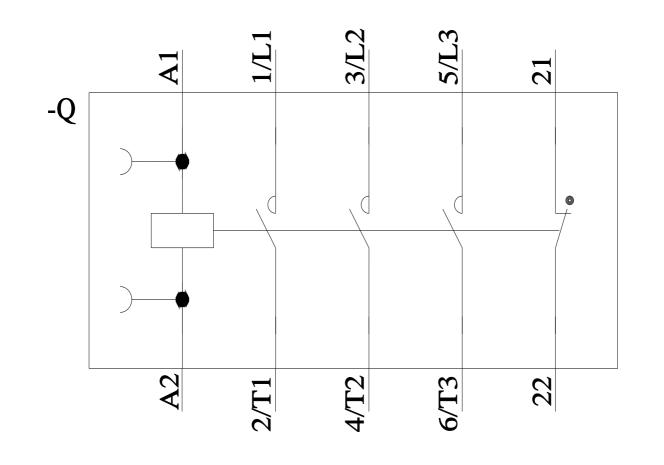
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2016-4AP62&objecttype=14&gridview=view1











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