## SIEMENS

## Data sheet

## 3RT2015-2BB42-1AA0



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NC, spring-loaded terminal, size: S00, upright mounting position

product brand name         SIRIUS           product designation         Power contactor           product type designation         SRT2           Cancal technical data         S00           size of contactor         S00           product extension         No           • auxilary switch         Yes           power loss [W] for rated value of the current         0.6 W           • at AC in hot operating state         0.6 W           • at AC in hot operating state per pole         0.2 W           • without load current share typical         4 W           Insulation voltage         690 V           • of main circuit with degree of pollution 3 rated value         690 V           • of auxilary circuit rated value         6 kV           • of auxilary dicuit rated value         6 kV           • of auxilary circuit rated value         6 kV           • of auxilary circuit rated value         6 kV           • of duct fact value         6 kV           • of duct rated value         6 kV           • of the contactor with adde auxilary switch betweent         10.5g / 5 ms, 6.8		
product type designation         3RT2           General technical data         S00           group of contactor         S00           product extension         No           • auxilary switch         Yes           power loss [W] for rated value of the current         0.6 W           • at AC in hot operating state         0.6 W           • at AC in hot operating state per pole         0.2 W           • without load current share typical         4 W           Insulation orbitsge         690 V           • of main incitul 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         6 kV           • of consin orbatas according to EN 00847-1         400 V           • at DC         6.7g / 5 ms, 4.2g / 10 ms           • at DC         10.5g / 5 ms, 6.6g / 10 ms           • of contactor typical         30 000 000           • of the contactor with added electronically optimized auxilary swith block typical	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     • at AC in hot operating state     0.6 W       • at AC in hot operating state     0.6 W     0.2 W       • without load current share typical     0.9 W     0.2 W       • without load current share typical     690 V     0.9 W       • of main circuit with degree of pollution 3 rated value     690 V     690 V       • of auxiliary circuit with degree of pollution 3 rated value     690 V     690 V       • of auxiliary circuit with degree of pollution 3 rated value     68 V     690 V       • of auxiliary circuit rated value     64 V     64 V       • of auxiliary circuit rated value     64 V     64 V       • of auxiliary circuit rated value     64 V     64 V       • of auxiliary circuit rated value     61 V     61 V       • of contactor typical     0.0 V     00 V       • at DC     10.5g / 5 ms, 6.6g / 10 ms       mechanical service life (operating cycles)     00 0000       • 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 add	product designation	Power contactor
size of contactor     S00       product extension     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     0.6 W       • at AC in hot operating state     0.6 W       • at AC in hot operating state per pole     0.2 W       • without load current share typical     4 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 rated value     64 V       • of auxiliary circuit rated value     64 V       • of contactor corting to EN 60947-1     400 V       shock resistance with sine pulse     67 / 5 ms, 4.2g / 10 ms       • at DC     10,5g / 5 ms, 6.6g / 10 ms       mechanical service Iffe (operating cycles)     5 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     10 000 000       reference code according to EEC 81348-2	product type designation	3RT2
product extension     No       • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     0.6 W       • at AC in hot operating state     0.6 W       • at AC in hot operating state prole     0.2 W       • without load current share typical     4 W       insulation voltage     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit value with degree of pollution 3 rated value     690 V       • of auxiliary circuit rated value     6 kV       • of main circuit value value     6 kV       • of main contacts according to EN 60947-1     5 kock resistance at rectangular impulse       • at DC     6.7g / 5 ms, 4.2g / 10 ms       • at DC     10,5g / 5 ms, 6.6g / 10 ms       mechanical service life (operating cycles)     30 000 000       • of the contactor with added electronically optimized     30 000 000       efference code according to ELC 81346-2     Q       Substance Prohibitance (Date)     10/01/2009       Ambient temperature     2000 m       ambient temperature     2000 m       • during operation     -25 +	General technical data	
• function module for communication       No         • auxillary switch       Yes         power loss [W] for rated value of the current       0.6 W         • at AC in hot operating state       0.6 W         • at AC in hot operating state per pole       0.2 W         • without load current share typical       4 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 rated value       6 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • at DC       6,7g / 5 ms, 4,2g / 10 ms         shock resistance with sine pulse       6 c/7g / 5 ms, 6,6g / 10 ms         • at DC       10.5g / 5 ms, 6,6g / 10 ms         mechanical service life (op	size of contactor	S00
• auxiliary switch     Yes       power loss [W] for rated value of the current     0.6 W       • at AC in hot operating state     0.6 W       • at AC in hot operating state per pole     0.2 W       • without load current share typical     4 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     64 V       • of auxiliary oricuit with degree of pollution 3 rated value     600 V       surge voltage resistance     64 V       • of auxiliary oricuit rated value     64 V       • of auxiliary souting for protective separation between coli and main contacts according to EN 60947-1     400 V       shock resistance with sine pulse     67,9 / 5 ms, 6,6g / 10 ms       • at DC     10,5g / 5 ms, 6,6g / 10 ms       • at DC     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 b	product extension	
power loss [W] for rated value of the current     0.6 W       • at AC in hot operating state per pole     0.2 W       • without load current share typical     4 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 DC     6.7g / 5 ms, 4.2g / 10 ms       • at DC     5.0g / 5 ms, 6.6g / 10 ms       • at DC     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       relative conditions     -25 +60 °C       installerion altitude at height above	<ul> <li>function module for communication</li> </ul>	No
• at AC in hot operating state prole       0.6 W         • at AC in hot operating state prole       0.2 W         • without load current share typical       4 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 auxiliary circuit with degree of pollution 3 rated value       690 V         • of auxiliary circuit rated value       6 kV         • at DC       6.7g / 5 ms, 4.2g / 10 ms         shock resistance with sine pulse       30 000 000         • at DC       10.5g / 5 ms, 6.6g / 10 ms         • of the contactor with added electronically optimized       30 000 000         • of the contactor with added electronically optimized       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         <	auxiliary switch	Yes
• at AC in hot operating state per pole       0.2 W         • without load current share typical       4 W         insulation voltage       6 W         • of main circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       64 V         • of main circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       6 kV         • of auxiliary circuit rated value       6 kV         • at DC       6.7g / 5 ms, 4.2g / 10 ms         shock resistance at rectangular impulse       6.7g / 5 ms, 6.6g / 10 ms         • at DC       10.5g / 5 ms, 6.6g / 10 ms         mechanical service life (operating cycles)       5 000 000         • 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         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2	power loss [W] for rated value of the current	
• without load current share typical     4 W       insulation voltage     600 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       surge voltage resistance     600 V       • of main circuit rated value     6 kV       • of auxiliary circuit rated value     6 kV       • at DC     6.7g / 5 ms, 4.2g / 10 ms       • at DC     10.5g / 5 ms, 6.6g / 10 ms       • of contactor life (operating cycles)     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       ambient temperature     -       • during storage	<ul> <li>at AC in hot operating state</li> </ul>	0.6 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 rated value       6 kV         • of auxiliary circuit rated value       6 kV         • at DC       6.7g / 5 ms, 4.2g / 10 ms         • at DC       10.5g / 5 ms, 6.6g / 10 ms         • at DC       10.5g / 5 ms, 6.6g / 10 ms         • 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 temperature       -         • during storage       -25 +60 °C         • during storage       -55 +80 °C         relative humidity at 55 °C	<ul> <li>at AC in hot operating state per pole</li> </ul>	0.2 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       6 kV         • of main 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 DC       6,7g / 5 ms, 6,6g / 10 ms         machanical 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 operation       -25 +60 °C         • during storage       -55 +80 °C         • relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit       Main circuit	<ul> <li>without load current share typical</li> </ul>	4 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 DC       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       5 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         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       95 %         Main circuit       95 %	insulation voltage	
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 DC       6,7g / 5 ms, 6,6g / 10 ms         mechanical service life (operating cycles)       00 000         • of the contactor with added electronically optimized auxiliary switch block typical       30 000 000         • 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         • 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       2000 m         ambient temperature       -25 +60 °C         • during sporage       -55 +80 °C         relative humidity minimum       10 %         95 %       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 DC       6,7g / 5 ms, 6,6g / 10 ms         shock resistance with sine pulse       00 V         • at DC       10,5g / 5 ms, 6,6g / 10 ms         mechanical service life (operating cycles)       30 000 000         • of the 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         ambient temperature       -25 +60 °C         • during operation       -25 +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       6,7g / 5 ms, 4,2g / 10 ms         • at DC       6,7g / 5 ms, 6,6g / 10 ms         shock resistance with sine pulse       000000         • at DC       10,5g / 5 ms, 6,6g / 10 ms         mechanical service life (operating cycles)       0000000         • 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       -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 DC       6,7g / 5 ms, 4,2g / 10 ms         shock resistance with sine pulse       10,5g / 5 ms, 6,6g / 10 ms         • at DC       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 DC       6,7g / 5 ms, 4,2g / 10 ms         shock resistance with sine pulse       -         • at DC       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         Ambient conditions       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       95 %         Main circuit	<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
• at DC       6,7g / 5 ms, 4,2g / 10 ms         shock resistance with sine pulse       10,5g / 5 ms, 6,6g / 10 ms         • at DC       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       4000		400 V
shock resistance with sine pulse       10,5g / 5 ms, 6,6g / 10 ms         mechanical service life (operating cycles)       0,5g / 5 ms, 6,6g / 10 ms         • 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 %         Main circuit       95 %	shock resistance at rectangular impulse	
• at DC10,5g / 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 typical5 000 000• of the contactor with added auxiliary switch block typical10 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 • during storage-25 +60 °C• during storage-55 +80 °Crelative humidity minimum10 %Main circuit	• at DC	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       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 typical30 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 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 • during storage-25 +60 °Crelative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %Main circuitMain circuit	● at DC	10,5g / 5 ms, 6,6g / 10 ms
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>10 000 000</li> <li>reference code according to IEC 81346-2</li> <li>Q</li> <li>Substance Prohibitance (Date)</li> <li>10/01/2009</li> <li>Ambient conditions</li> <li>installation altitude at height above sea level maximum</li> <li>2 000 m</li> <li>ambient temperature         <ul> <li>during operation</li> <li>-25 +60 °C</li> <li>etative humidity minimum</li> <li>10 %</li> </ul> </li> <li>relative humidity at 55 °C according to IEC 60068-2-30 maximum</li> </ul>	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 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       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       2 000 m         • 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       -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	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	
<ul> <li>during operation</li> <li>-25 +60 °C</li> <li>during storage</li> <li>-55 +80 °C</li> <li>relative humidity minimum</li> <li>10 %</li> <li>relative humidity at 55 °C according to IEC 60068-2-30 g5 %</li> <li>Main circuit</li> </ul>	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 %         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	5
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	18 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	18 A
value	
— up to 690 V at ambient temperature 60 °C rated value	16 A
• at AC-3	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-3e	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
at AC-4 at 400 V rated value	6.5 A
• at AC-5a up to 690 V rated value	15.8 A
• at AC-5b up to 400 V rated value	5.8 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	4 A
— up to 400 V for current peak value n=20 rated value	4 A
— up to 500 V for current peak value n=20 rated value	3.8 A
— up to 690 V for current peak value n=20 rated value	3.6 A
● at AC-6a	
— up to 230 V for current peak value n=30 rated value	2.7 A
<ul> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>	2.7 A
— up to 500 V for current peak value n=30 rated value	2.5 A
— up to 690 V for current peak value n=30 rated value	2.4 A
minimum cross-section in main circuit at maximum AC-1 rated value	2.5 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	2.6 A
• at 690 V rated value	1.8 A
operational current	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	1.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.42 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	8.4 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.5 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	15 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.7 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	

— at 24 V rated value	15 A
— at 60 V rated value	0.35 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	15 A
— at 60 V rated value	3.5 A
— at 110 V rated value	0.25 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.14 A
— at 600 V rated value	0.14 A
operating power	
<ul> <li>at AC-2 at 400 V rated value</li> </ul>	3 kW
• at AC-3	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
● at AC-3e	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	1.15 kW
• at 690 V rated value	1.15 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	1.5 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	2.7 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	3.3 kVA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	4.3 kVA
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	1 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	1.8 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	2.2 kVA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	2.9 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>	120 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 5 s switching at zero current maximum	86 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 10 s switching at zero current maximum	67 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 30 s switching at zero current maximum	52 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 60 s switching at zero current maximum	43 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at DC	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	
type of voltage of the control supply voltage	DC
control supply voltage at DC	
rated value	24 V
operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.8
● full-scale value	1.1

closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
closing delay	
• at DC	30 100 ms
opening delay	
• at DC	7 13 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
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	
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	1A
operational current at DC-12	
• at 24 V rated value	10 A
at 24 V rated value     at 48 V rated value	6 A
at 48 V rated value     at 60 V rated value	6 A
	3 A
• at 110 V rated value	
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	
at 24 V rated value	10 A
<ul> <li>at 48 V rated value</li> </ul>	2 A
<ul> <li>at 60 V rated value</li> </ul>	2 A
<ul> <li>at 110 V rated value</li> </ul>	1 A
<ul> <li>at 125 V rated value</li> </ul>	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)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	4.8 A
• at 600 V rated value	6.1 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	0.25 hp
— at 230 V rated value	0.75 hp
• for 3-phase AC motor	
— at 200/208 V rated value	1.5 hp
— at 220/230 V rated value	2 hp
— at 460/480 V rated value	3 hp
— at 575/600 V rated value	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)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
	standing, on horizontal mounting surface
mounting position	
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
side-by-side mounting	Yes
height	70 mm
width	45 mm
depth	73 mm

required spacing	
with side-by-side mounting     forwards	10 mm
— 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	spring-loaded terminals
for auxiliary and control circuit	spring-loaded terminals
at contactor for auxiliary contacts	Spring-type terminals
of magnet coil	Spring-type terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (0.5 4 mm <sup>2</sup> )
<ul> <li>solid or stranded</li> </ul>	2x (0,5 4 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm²)
finely stranded without core end processing	2x (0.5 2.5 mm²)
connectable conductor cross-section for main contacts	
• solid	0.5 4 mm²
stranded	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
<ul> <li>finely stranded without core end processing</li> </ul>	0.5 2.5 mm²
connectable conductor cross-section for auxiliary contacts	
<ul> <li>solid or stranded</li> </ul>	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
finely stranded without core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0,5 4 mm <sup>2</sup> )
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)
for AWG cables for auxiliary contacts	2x (20 12)
AWG number as coded connectable conductor cross section	
for main contacts	20 12
for auxiliary contacts	20 12
Safety related data	
product function	
mirror contact according to IEC 60947-4-1	Yes
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	
with low demand rate according to SN 31920	40 %
with high demand rate according to SN 31920	73 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to EC	20 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
suitability for use	
<ul> <li>safety-related switching OFF</li> </ul>	Yes
Certificates/ approvals	

oroval				
	<u>Confirmation</u>		<u>KC</u>	EHC
Functional Safety/Safety of Ma- chinery	Declaration of Confor	rmity	Test Certificates	
<u>Type Examination Cer-</u> <u>tificate</u>	UK CA	CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report
B U REAU VERITAS		Lloyd's Register	PRS	RINA
other		Railway	Dangerous Good	Environment
Confirmation	UDE VDE	Vibration and Shock	Transport Information	Environmental Con- firmations
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Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2015-2BB42-1AA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2015-2BB42-1AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2BB42-1AA0

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

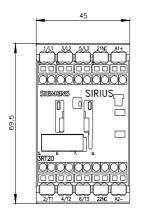
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2015-2BB42-1AA0&lang=en

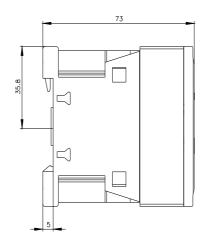
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

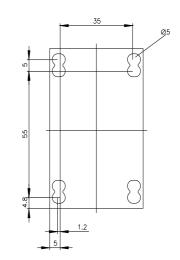
https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2BB42-1 A0/char

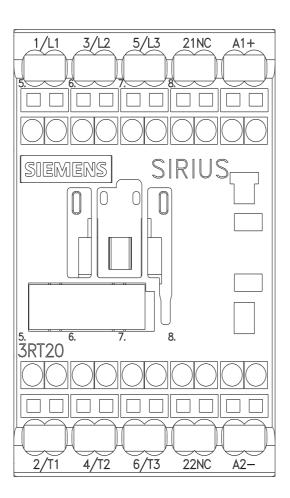
 Further characteristics (e.g. electrical endurance, switching frequency)

 http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-2BB42-1AA0&objecttype=14&gridview=view1

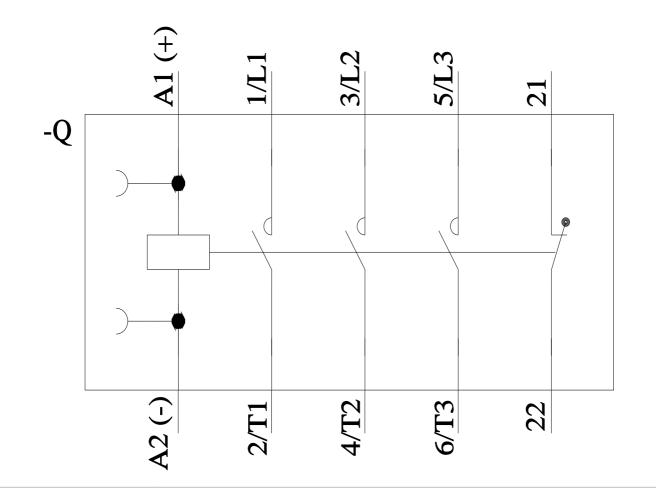








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