## SIEMENS

## Data sheet

## 3RT2036-1AH00



power contactor, AC-3e/AC-3, 51 A, 22 kW / 400 V, 3-pole, 48 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2  $\,$ 

product brand name         SIRUS           product designation         Power contactor           product type designation         SRT2           Ganaral technical data         -           size of contactor         S2           product extension         No           • function module for communication         No           • auxiliary switch         Yes           power loss [W] for rated value of the current         -           • at AC in hot operating state         12 W           • at AC in hot operating state per pole         4 W           • without load current share typical         680 V           • of main circult with degree of pollution 3 rated value         690 V           • of auxiliary circult with degree of pollution 3 rated value         680 V           • of auxiliary circult rated value         6 kV           • of auxiliary circult rated value         6 kV           • of auxiliary circul rated value         6 kV           • of auxiliary circult rated value         6 kV           • of auxiliary circul rated value         6 kV           • of auxiliary circu	Let y	
product type designation         3RT2           General technical data	product brand name	SIRIUS
Ceneral technical data     Size of contactor     S2       product extension     • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     • at AC in hot operating state     12 W       • at AC in hot operating state     12 W     4 W       • without load current share typical     6W     6W       insulation voltage     600 V     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     64 V       • of auxiliary circuit with degree of pollution 3 rated value     690 V       • of auxiliary circuit rated value     64 V       • at AC     11.8g / 5 ms, 7.4g / 10 ms       mechanical service life (operating cycles)     10 000 000       • of the contactor with added auxiliary switch block typical     10000 000       • of the contactor with added auxiliary switch block typical     10000 000       • of the contactor with added auxiliary switch block typical     10000 000       • of the contact	product designation	Power contactor
size of contactor     S2       product extension     No       • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     12 W       • at AC in hot operating state per pole     4 W       • without load current share typical     6W       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 auxiliary circuit rated value     64V       • of main circuit with degree of pollution 3 rated value     690 V       • of auxiliary circuit rated value     64V       • of main circuit rated value     64V       • of main circuit rated value     64V       • of auxiliary solution to contacts excording to EN 60947-1     400 V       shock resistance with sine pulse     11.8g / 5 ms, 7.4g / 10 ms       • at AC     18.5g / 5 ms, 11.6g / 10 ms       mechanical service Iffe (operating cycles)     10 000 000       • of the contactor with added electronically optimized     10 000 000       • of the contactor with added electronically optimized     000 100 000   <	product type designation	3RT2
product extension     inaction module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     12 W       • at AC in hot operating state     12 W       • at AC in hot operating state prole     4 W       • without load current share typical     6 W       Insulation voltage     6 90 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit ted value     6 kV       • of analizing vicinut rated value     13.8g / 5 ms, 7.4g / 10 ms       shock resistance with sine pulse     14.0c       • at AC     18.5g / 5 ms, 11.6g / 10 ms       mechanical service life (ope	General technical data	
• function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     • at AC in hot operating state     12 W       • at AC in hot operating state per pole     4 W       • without load current share typical     6 W       insultation 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     64 V       • of main circuit with degree of pollution 3 rated value     64 V       • of main circuit with degree of pollution 3 rated value     64 V       • of auxiliary circuit rated value     64 KV       • of auxiliary circuit rated value     64 V       • of auxiliary circuit rated value     10.00 V       • auxiliary circuit rated value     10.00 V       • at AC     1	size of contactor	S2
• auxiliary switch     Yes       power loss [W] for rated value of the current     • at AC in hot operating state     12 W       • at AC in hot operating state per pole     4 W       • without load current share typical     6 W       insultation 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     6 kV       • of auxiliary circuit with degree of pollution 3 rated value     600 V       surge voltage resistance     6 kV       • of auxiliary circuit with degree of pollution 3 rated value     6 kV       • of auxiliary circuit vated value     6 kV       • of auxiliary circuit rated value     6 kV       • of auxiliary souting for protective separation between coll and main contacts according to EN 50947-1     400 V       shock resistance with sine pulse     18.5g /5 ms, 74.g / 10 ms       • at AC     11.8g /5 ms, 74.g / 10 ms       mechanical service life (operating cycles)     10 000 000       • 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 </th <th>product extension</th> <th></th>	product extension	
power loss [W] for rated value of the current     12 W       • at AC in hot operating state     12 W       • at AC in hot operating state per pole     4 W       • without load current share typical     6 W       insulation voltage     6 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       • of auxiliary circuit with degree of pollution 3 rated value     690 V       • of auxiliary circuit rated value     6 kV       • at AC     11.8g / 5 ms, 7.4g / 10 ms       shock resistance with sine pulse     11.8g / 5 ms, 7.4g / 10 ms       • at AC     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       relative to auxiliary switch block	<ul> <li>function module for communication</li> </ul>	No
• at AC in hot operating state       12 W         • at AC in hot operating state per pole       4 W         • without load current share typical       6 W         insultation voltage       6 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         • of auxiliary circuit rated value       6 kV         • at AC       11.8g / 5 ms, 7.4g / 10 ms         shock resistance with sine pulse       • at AC         • at AC       18.5g / 5 ms, 11.6g / 10 ms         • of ontactor typical       10 000 000         • of the contactor with added electronically optimized       2000 00         • auxiliary switch block typical       10 000 000         • of the	auxiliary switch	Yes
• at AC in hot operating state per pole         4 W           • without load current share typical         6 W           Insulation voltage         6 W           • 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           maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1         400 V           shock resistance at rectangular impulse         400 V           • at AC         11.8g / 5 ms, 7.4g / 10 ms           shock resistance with sine pulse         10 000 000           • at AC         18.5g / 5 ms, 11.6g / 10 ms           mechanical service life (operating cycles)         10 000 000           • of contactor typical         10 000 000           • 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-	power loss [W] for rated value of the current	
• without load current share typical       6 W         insulation voltage       • of main circuit with degree of pollution 3 rated value       690 V         • of auxiliary circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       6 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • at AC       11.8g / 5 ms, 7.4g / 10 ms         • at AC       18.5g / 5 ms, 11.6g / 10 ms         • at AC       18.5g / 5 ms, 11.6g / 10 ms         • of contactor typical       10 000 000         • of the contactor with added electronically optimized       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)       2000 m	<ul> <li>at AC in hot operating state</li> </ul>	12 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         maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       6 kV         • at AC       11.8g / 5 ms, 7.4g / 10 ms         shock resistance with sine pulse       18.5g / 5 ms, 11.6g / 10 ms         • of contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added euxiliary 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)       10/01/2014         Ambient temperature       -         • during storage       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 % <th><ul> <li>at AC in hot operating state per pole</li> </ul></th> <th>4 W</th>	<ul> <li>at AC in hot operating state per pole</li> </ul>	4 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         • 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       400 V         • at AC       11.8g / 5 ms, 7.4g / 10 ms         shock resistance with sine pulse       18.5g / 5 ms, 11.6g / 10 ms         • at AC       18.5g / 5 ms, 11.6g / 10 ms         mechanical service life (operating cycles)       10 000 000         • 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)       10/01/2014         Ambient conditions       -25 +60 °C         • during storage       -55 +80 °C         • during storage       -55 +80 °C         • during storage       -55 +80 °C         • faltive humidity at 55 °C according to IEC 60068-2-30       95 %	<ul> <li>without load current share typical</li> </ul>	6 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       400 V         • at AC       11.8g / 5 ms, 7.4g / 10 ms         shock resistance with sine pulse       11.8g / 5 ms, 11.6g / 10 ms         • at AC       18.5g / 5 ms, 11.6g / 10 ms         mechanical service life (operating cycles)       0 000 000         • of contactor typical       10 000 000         • 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)       10/01/2014         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 t	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       400 V         • at AC       11.8g / 5 ms, 7.4g / 10 ms         shock resistance with sine pulse       11.8g / 5 ms, 7.4g / 10 ms         • at AC       18.5g / 5 ms, 11.6g / 10 ms         mechanical service life (operating cycles)       10 000 000         • 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)       10/01/2014         Ambient conditions       -         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit       Main circuit	<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 coil and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       400 V         • at AC       11.8g / 5 ms, 7.4g / 10 ms         shock resistance with sine pulse       18.5g / 5 ms, 11.6g / 10 ms         • at AC       18.5g / 5 ms, 11.6g / 10 ms         mechanical service life (operating cycles)       10 000 000         • of the contactor typical       10 000 000         • 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)       10/01/2014         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       400 V         • at AC       11.8g / 5 ms, 7.4g / 10 ms         shock resistance with sine pulse       -         • at AC       18.5g / 5 ms, 11.6g / 10 ms         mechanical service life (operating cycles)       -         • of contactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       5 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         Ambient conditions       2 000 m         ambient temperature       -         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         95 %       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       11.8g / 5 ms, 7.4g / 10 ms         • at AC       11.8g / 5 ms, 7.4g / 10 ms         shock resistance with sine pulse       11.8g / 5 ms, 7.4g / 10 ms         • at AC       18.5g / 5 ms, 11.6g / 10 ms         mechanical service life (operating cycles)       10 000 000         • of contactor typical       10 000 000         • 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)       10/01/2014         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 %         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       11.8g / 5 ms, 7.4g / 10 ms         shock resistance with sine pulse       18.5g / 5 ms, 11.6g / 10 ms         • at AC       18.5g / 5 ms, 11.6g / 10 ms         mechanical service life (operating cycles)       0 000 000         • of 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)       10/01/2014         Ambient conditions       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       95 %	<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
• at AC       11.8g / 5 ms, 7.4g / 10 ms         shock resistance with sine pulse       18.5g / 5 ms, 11.6g / 10 ms         • at AC       18.5g / 5 ms, 11.6g / 10 ms         mechanical service life (operating cycles)       0 000 000         • of contactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       5 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         Ambient conditions       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 %		400 V
shock resistance with sine pulse       18.5g / 5 ms, 11.6g / 10 ms         mechanical service life (operating cycles)       10 000 000         • of contactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       5 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         Ambient conditions       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	shock resistance at rectangular impulse	
• at AC18.5g / 5 ms, 11.6g / 10 msmechanical service life (operating cycles)0• of contactor typical10 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 000 000• 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)10/01/2014Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature-25 +60 °C• during operation-25 +60 °C• during storage-55 +80 °Crelative humidity minimum10 %Main circuitMain circuit	• at AC	11.8g / 5 ms, 7.4g / 10 ms
mechanical service life (operating cycles)     i       • of contactor typical     10 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     5 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       reference code according to IEC 81346-2     Q       Substance Prohibitance (Date)     10/01/2014       Ambient conditions     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     Main circuit	shock resistance with sine pulse	
<ul> <li>of contactor typical</li> <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>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 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 typical</li> <li>of the contact</li></ul>	• at AC	18.5g / 5 ms, 11.6g / 10 ms
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 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation oduring storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit Main circuit	mechanical service life (operating cycles)	
auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         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>	10 000 000
reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         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)       10/01/2014         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 <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       4	Substance Prohibitance (Date)	10/01/2014
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     10 %	ambient temperature	
relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit       95 %	<ul> <li>during operation</li> </ul>	-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
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	70 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	70 A
value	20 A
— up to 690 V at ambient temperature 60 °C rated value	60 A
• at AC-3	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
• at AC-3e	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
• at AC-4 at 400 V rated value	41 A
• at AC-5a up to 690 V rated value	61.6 A
• at AC-5b up to 400 V rated value	41.5 A
• at AC-6a	
<ul> <li>— up to 230 V for current peak value n=20 rated value</li> </ul>	43.2 A
<ul> <li>— up to 400 V for current peak value n=20 rated value</li> </ul>	43.2 A
<ul> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>	43.2 A
<ul> <li>— up to 690 V for current peak value n=20 rated value</li> </ul>	24 A
● at AC-6a	
<ul> <li>— up to 230 V for current peak value n=30 rated value</li> </ul>	28.8 A
<ul> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>	28.8 A
<ul> <li>— up to 500 V for current peak value n=30 rated value</li> </ul>	28.8 A
— up to 690 V for current peak value n=30 rated value	24 A
minimum cross-section in main circuit at maximum AC-1 rated value	25 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	24 A
• at 690 V rated value	20 A
operational current	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— at 24 V rated value	55 A
— at 60 V rated value	23 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
with 2 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	45 A
- at 220 V rated value	5 A
— at 440 V rated value	1A
— at 600 V rated value	0.8 A
with 3 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
- at 600 V rated value	1.4 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	

— at 24 V rated value	35 A
— at 60 V rated value	6 A
— at 220 V rated value	1 A
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	25 A
— at 220 V rated value	5 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	25 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.35 A
operating power	
• at AC-2 at 400 V rated value	22 kW
• at AC-3	
— at 230 V rated value	15 kW
— at 400 V rated value	22 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
• at AC-3e	
— at 400 V rated value	22 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	12.6 kW
at 690 V rated value	18.2 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	17.2 kVA
• up to 400 V for current peak value n=20 rated value	29.9 kVA
• up to 500 V for current peak value n=20 rated value	37.4 kVA
up to 690 V for current peak value n=20 rated value	28.6 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	11.4 kVA
• up to 400 V for current peak value n=30 rated value	19.9 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	24.9 kVA
up to 690 V for current peak value n=30 rated value	28.6 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>	937 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	697 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	468 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	282 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	229 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	600 1/h
• at AC-3 maximum	800 1/h
• at AC-3e maximum	800 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC

control supply voltage at AC • at 50 Hz rated value	48 V
• at 50 HZ rated value operating range factor control supply voltage rated value of	10 V
magnet coil at AC	
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	190 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.72
apparent holding power of magnet coil at AC	
• at 50 Hz	16 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.37
closing delay	
• at AC	10 80 ms
opening delay	
• at AC	10 18 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous	1
contact	
number of NO contacts for auxiliary contacts instantaneous	1
contact	10 A
operational current at AC-12 maximum operational current at AC-15	
at 230 V rated value	10 A
• at 400 V rated value	3A
• at 500 V rated value	2 A
at 500 V rated value     at 690 V rated value	1A
operational current at DC-12	
at 24 V rated value	10 A
at 24 V rated value	6A
at 60 V rated value	6A
at 110 V rated value	3A
• at 125 V rated value	2 A
at 220 V rated value	1A
• 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	1A
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)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	52 A
• at 600 V rated value	52 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	3 hp
— at 230 V rated value	10 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 200/208 V rated value	
	15 hp
— at 220/230 V rated value	15 hp 15 hp
— at 220/230 V rated value	15 hp

design of the fuse link	
for short-circuit protection of the main circuit	
— with type of coordination 1 required	gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)
— with type of assignment 2 required	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
<ul> <li>side-by-side mounting</li> </ul>	Yes
height	114 mm
width	55 mm
depth	130 mm
required spacing	
<ul> <li>with side-by-side mounting</li> </ul>	
— 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
• 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	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals
of magnet coil	Screw-type terminals
type of connectable conductor cross-sections for main contacts	
solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )
connectable conductor cross-section for main contacts	
<ul> <li>finely stranded with core end processing</li> </ul>	1 35 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 2.5 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
type of connectable conductor cross-sections	
Upo of connectable conductor croad-accilona	
for auxiliary contacts	
for auxiliary contacts	$2x (0.5 - 1.5 \text{ mm}^2) 2x (0.75 - 2.5 \text{ mm}^2)$
— solid or stranded	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
<ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul>	
<ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>• for AWG cables for auxiliary contacts</li> </ul> AWG number as coded connectable conductor cross	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>• for AWG cables for auxiliary contacts</li> </ul> AWG number as coded connectable conductor cross section	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14)
<ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>• for AWG cables for auxiliary contacts</li> </ul> AWG number as coded connectable conductor cross section <ul> <li>• for main contacts</li> <li>• for auxiliary contacts</li> </ul>	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14) 18 1
<ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul> AWG number as coded connectable conductor cross section <ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> Safety related data	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14) 18 1
<ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>• for AWG cables for auxiliary contacts</li> </ul> AWG number as coded connectable conductor cross section <ul> <li>• for main contacts</li> <li>• for auxiliary contacts</li> </ul> Safety related data product function	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14) 18 1 20 14
<ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>• for AWG cables for auxiliary contacts</li> </ul> AWG number as coded connectable conductor cross section <ul> <li>• for main contacts</li> <li>• for auxiliary contacts</li> </ul> Safety related data product function <ul> <li>• mirror contact according to IEC 60947-4-1</li> </ul>	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14) 18 1 20 14 Yes
<ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>• for AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section</li> <li>• for main contacts</li> <li>• for auxiliary contacts</li> <li>Safety related data</li> <li>product function</li> <li>• mirror contact according to IEC 60947-4-1</li> <li>• positively driven operation according to IEC 60947-5-1</li> </ul>	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14) 18 1 20 14 Yes No
<ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>• for AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section</li> <li>• for main contacts</li> <li>• for auxiliary contacts</li> <li>Safety related data</li> <li>product function</li> <li>• mirror contact according to IEC 60947-4-1</li> </ul>	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14) 18 1 20 14 Yes

<ul> <li>with low deman</li> </ul>	d rate according to SN 319	20 40	%				
	nd rate according to SN 319		%				
failure rate [FIT] with low demand rate according to SN 31920		to SN 31920 10	100 FIT				
T1 value for proof test interval or service life according to IEC 61508			а				
protection class IP o	n the front according to I	EC 60529 IP:	20				
touch protection on	the front according to IEC	<b>60529</b> fin	ger-safe, for vertical contact	from the front			
Certificates/ approvals							
General Product Ap	proval						
(SP)	<u>Confirmation</u>			KC	EHC		
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Con	formity	Test Certificates			
RCM	<u>Type Examination Cer-</u> tificate	UK CA	CE EG-Konf.	Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report		
Marine / Shipping							
ABS	BUREAU VERITAS		Llovd's Register uis	PRS	RINA		
Marine / Shipping	other		Railway	Dangerous Good	Environment		
KMRS RMRS	<u>Confirmation</u>	<u>Confirmation</u>	Vibration and Shock	Transport Information	Environmental Con- firmations		
Further information	d to exit the Russian mark	rat (sao bara)					
https://press.siemens.s Siemens is working of Please contact your lo EAC relevant market ( Information on the pa https://support.industry	com/global/en/pressrelease on the renewal of the curr cal Siemens office on the s other than the sanctioned B ackaging y siemens.com/cs/ww/en/vi vnloadcenter (Catalogs, E	e/siemens-wind-down-r rent EAC certificates. tatus of validity of the E EAEU member states F ew/109813875	EAC certification if you inten	d to import or offer to supp	ly these products to an		
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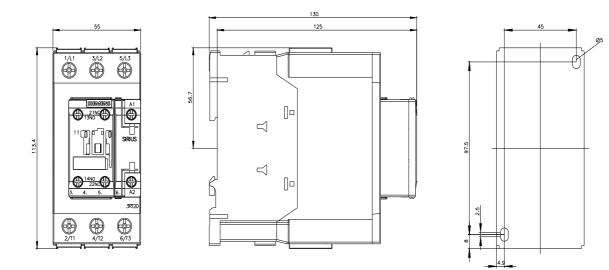
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2036-1AH00

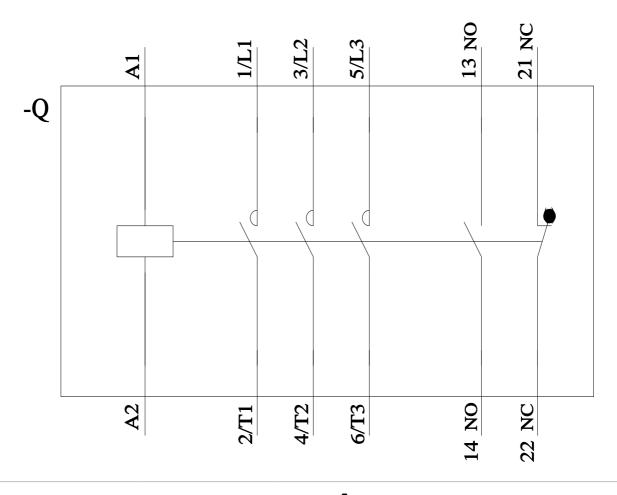
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
- https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1AH00

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

- http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2036-1AH00&lang=en
- Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current
- https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1AH00/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2036-1AH00&objecttype=14&gridview=view1





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