## SIEMENS

## Data sheet

## 3RT2036-1AT60



power contactor, AC-3e/AC-3, 51 A, 22 kW / 400 V, 3-pole, 600 V AC, 60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2  $\,$ 

product brand name         SIRUS           product bread casipnation         9xerz contactor           orgeneral tochnical data         SIRI2           contractor         \$2           size of contactor         \$2           • function module for communication         No           • auxilary switch         Yees           power loss [W] for rated value of the current         4           • at AC in hot operating state         12 W           • at AC in hot operating state per pole         4 W           • without load current share typical         18.5 W           insultation voltage         690 V           • of main circuit with degree of pollution 3 rated value         690 V           • of auxiliary circuit rated value         64 V           • of contactor with sine pulse         10.00 V           • of the contactor with added auxiliar		
product type designation         3RT2           General technical data	product brand name	SIRIUS
General technical data     S2       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     12 W       • at AC in hot operating state probe     4 W       • without load current share typical     860 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     640 V       • of main circuit rated value     64 V       • of auxiliary circuit rated value     64 V       • of contactor 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 alectronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10	product designation	Power contactor
size of contactor     §2       product extension     No       • function module for communication     No       • auxilary 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     18.5 W       insulation 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     680 V       • of auxillary circuit rated value     680 V       • of auxillary circuit rated value     68 kV       • of auxillary circuit rated value     68 kV       • of auxillary circuit rated value     6 kV       • of auxillary solution for EN 60947-1     400 V       shock resistance at rectangular impulse     11.8g / 5 ms, 7.4g / 10 ms       mechanical service life (operating cycles)     0 000 000       • of the contactor with added electronically optimized     10 000 000       • of the contactor with added auxillary switch block typical     10 000 000       reference code according to IEC 61346-2     Q           Substance P	product type designation	3RT2
product extension         No           • function module for communication         No           • auxillary 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 per pole         4W           • without load current share typical         18.5 W           Insulation 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         690 V           • of main circuit rated value         64V           • of main circuit mipulse         10000 V	General technical data	
• function module for communication         No           • auxiliary switch         Yes           power loss [V] 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         18.5 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         64 V           • of main circuit ated value         6k V           • of main circuit rated value         6k V           • of auxiliary circuit rated value         18 g/ 5 ms, 7.4g / 10 ms           • at AC         18.5g / 5 ms, 7.4g / 10 ms           • at AC         18.5g / 5 ms, 11.6g / 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           • of	size of contactor	S2
• 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 per pole         4 W           • without load current share typical         18.5 W           insulation 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         690 V           • of main circuit rated value         64V           • of main circuit rated value         6kV           • of auxiliary oriout rated value         6kV           • at AC         11.8g / 5 ms, 7.4g / 10 ms           shock resistance with sine pulse         10 000 000           • at AC         10 000 000           • of ontactor 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 el	product extension	
Devel Loss [W] for rated value of the current         Devel Loss [W] for rated value of the current           • at AC in hot operating state         12 W           • at AC in hot operating state prole         4 W           • without Load current share typical         18.5 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         600 V           surge voltage resistance         6           • of main circuit rated value         6 kV           • of auxiliary circuit rated value         6 kV           • at AC         11.8 g / 5 ms, 7.4 g / 10 ms           shock resistance at rectangular impulse         18.5 g / 5 ms, 11.6 g / 10 ms           • of the contactor with added auxiliary switch block typical         10 000 000           • of the contactor with added auxiliary switch block typical         10 000 000	<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     85 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     64V       • of main circuit rated value     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       shock resistance with sine pulse     10 000 000       • at AC     10 000 000       • of contactor with added electronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     2000 m       Installation altitude at height above sea level maximum     2000	<ul> <li>auxiliary switch</li> </ul>	Yes
• at AC in hot operating state per pole       4 W         • without load current share typical       18.5 W         insulation voltage       60 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 auxiliary circuit rated value       6 kV         • of main circuit with degree of pollution 8 rated value       6 kV         • of main circuit with degree of pollution 8 rated value       6 kV         • of auxiliary circuit rated value       6 kV         • of and main contacts according to EN 60947-1       400 V         • at AC       11.8g / 5 ms, 7.4g / 10 ms         mechanical service life (operating cycles)       -         • of contactor 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 typica	power loss [W] for rated value of the current	
• without load current share typical       18.5 W         insulation voltage       690 V         • of main circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       600 V         • of main circuit with degree of pollution 3 rated value       680 V         • 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 coll and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       400 V         • at AC       18.5 g / 5 ms, 7.4 g / 10 ms         shock resistance with sine pulse       10 000 000         • at AC       18.5 g / 5 ms, 11.6 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         reference de according to EC 81346-2       Q         Substance Prohibitance (Date)       1001/2014         Ambient conditions       -25 +60 °C         • during storage       -25 +60 °C         • during s	<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         • of main circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       61 W         • of main circuit rated value       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       18.5g / 5 ms, 11.6g / 10 ms         • at AC       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 electronically optimized auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         Ambient temperature       -00 °C         • during operation       <	<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     680 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     400 V       • at AC     11.8g / 5 ms, 7.4g / 10 ms       shock resistance with sine pulse     10 000 000       • at AC     10 000 000       • of 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 suxiliary switch block typical     10 000 000       • of the contactor with added suxiliary switch block typical     10 000 000       • of the contactor with added suxiliary switch block typical     10 000 000       • of uperatine     2 000 m       ambient conditions     -25 +60 °C       • during storage     -25 +60 °C	<ul> <li>without load current share typical</li> </ul>	18.5 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       600 V         • of auxiliary circuit rated value       600 V         • ot AC       18.5g / 5 ms, 7.4g / 10 ms         • ot AC       18.5g / 5 ms, 11.6g / 10 ms         • ot AC       18.5g / 5 ms, 11.6g / 10 ms         • 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         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added set envince       2 000 m         ambient conditions       2 000 m	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 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       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         • 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)       00/10/12014         Ambient conditions       2 000 m         ambient temperature       - 400 °C         • during storage       - 55 + 60 °C         relative humidity at 55 °C according to IEC 60068-2-30       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         • at AC       400 V         • 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 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         • 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         • 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 <th><ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul></th> <td>690 V</td>	<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       11.8g / 5 ms, 7.4g / 10 ms         • 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         • 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         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       10 %         maximum       95 %	surge voltage resistance	
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse <ul> <li>at AC</li> <li>th 8g / 5 ms, 7.4g / 10 ms</li> </ul> shock resistance with sine pulse <ul> <li>at AC</li> <li>th 85 / 5 ms, 11.6g / 10 ms</li> </ul> mechanical service life (operating cycles) <ul> <li>of contactor typical</li> <li>th 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>th 0000 000</li> </ul> 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 <ul> <li>during operation</li> <li>-25 +60 °C</li> <li>during storage</li> <li>-55 +80 °C</li> </ul> relative humidity at 55 °C according to IEC 60068-2-30 <li>maximum</li> Main circuit         Main circuit	<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)       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 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         Ambient conditions       2000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -55 +60 °C         • during operation       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %	<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
• at AC11.8g / 5 ms, 7.4g / 10 msshock resistance with sine pulse		400 V
shock resistance with sine pulse       10         • 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       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       4000000000000000000000000000000000000	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 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2014Ambient conditions2 000 minstallation altitude at height above sea level maximum e during operation e during storage2 000 mambient temperature • during storage-25 +60 °C• during storage-55 +80 °Crelative humidity minimum10 %maximum95 %	• at AC	11.8g / 5 ms, 7.4g / 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 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %	shock resistance with sine pulse	
• 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 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 • during operation • during storage-25 +60 °C• during storage-55 +80 °Crelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %	• at AC	18.5g / 5 ms, 11.6g / 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)10/01/2014Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature • during operation • during storage-25 +60 °C -55 +80 °Crelative humidity minimum10 %maximum95 %	mechanical service life (operating cycles)	
auxiliary switch block typical     10 000 000       reference code according to IEC 81346-2     Q       Substance Prohibitance (Date)     10/01/2014       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 %       Main circuit     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 %	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	
• 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 %	installation altitude at height above sea level maximum	2 000 m
	ambient temperature	
relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       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
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	70 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	70 A
— up to 690 V at ambient temperature 60 °C rated	60 A
value	
• 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	43.2 A
— up to 230 V for current peak value n=20 rated value	
<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>	43.2 A 43.2 A
— up to 500 V for current peak value n=20 rated value	45.2 A 24 A
• at AC-6a	24 A
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	28.8 A
— up to 200 V for current peak value n=30 rated value	28.8 A
— up to 500 V for current peak value n=30 rated value	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	25 mm <sup>2</sup>
value	
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	1 A
— at 600 V rated value	0.8 A
<ul> <li>with 3 current paths in series at DC-1</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	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 200 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	22 kW
• at AC-3e	ZZ KVV
- at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles at AC-	ZZ KVV
4	
• at 400 V rated value	12.6 kW
<ul> <li>at 690 V rated value</li> </ul>	18.2 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	17.2 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	29.9 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	37.4 kVA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	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
• up to 500 V for current peak value n=30 rated value	24.9 kVA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	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 ourphy voltage of AC	
control supply voltage at AC • at 60 Hz rated value	600 V
• at 60 H2 rated value operating range factor control supply voltage rated value of	
magnet coil at AC	
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 60 Hz	212 VA
inductive power factor with closing power of the coil	
• at 60 Hz	0.67
apparent holding power of magnet coil at AC	
• at 60 Hz	18.5 VA
inductive power factor with the holding power of the coil	
• at 60 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 contact	1
number of NO 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	1 A
operational current at DC-12	
• at 24 V rated value	10 A
• at 48 V rated value	6 A
• 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	
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	
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	50.0
at 480 V rated value     at 600 V rated value	52 A
• at 600 V rated value	52 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> <li>— at 110/120 V rated value</li> </ul>	3 hn
— at 230 V rated value	3 hp 10 hp
for 3-phase AC motor	
or 3-phase AC motor     — at 200/208 V rated value	15 hp
— at 220/208 V rated value	15 hp
— at 460/480 V rated value	40 hp
— at 460/480 V rated value — at 575/600 V rated value	40 np 50 hp
contact rating of auxiliary contacts according to UL	A600 / P600

design of the fuse link				
<ul> <li>for short-circuit protection of the main circuit</li> </ul>				
— 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)			
nstallation/ 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			
for auxiliary and control circuit	screw-type terminals			
at contactor for auxiliary contacts	Screw-type terminals			
of magnet coil	Screw-type terminals			
type of connectable conductor cross-sections for main contacts				
solid or stranded	$2x (1 - 25 \text{ mm}^2) 1x (1 - 50 \text{ mm}^2)$			
	$2x (1 35 \text{ mm}^2), 1x (1 50 \text{ mm}^2)$			
finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)			
connectable conductor cross-section for main contacts	4 05 3			
finely stranded with core end processing	1 35 mm²			
connectable conductor cross-section for auxiliary contacts	0.5 0.5 mm²			
solid or stranded	0.5 2.5 mm <sup>2</sup>			
finely stranded with core end processing	0.5 2.5 mm²			
type of connectable conductor cross-sections				
for auxiliary contacts				
— solid or stranded	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )			
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )			
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)			
AWG number as coded connectable conductor cross section				
for main contacts	18 1			
for auxiliary contacts	20 14			
Safety related data				
product function				
<ul><li>product function</li><li>mirror contact according to IEC 60947-4-1</li></ul>	Yes			
-	Yes No			
mirror contact according to IEC 60947-4-1				

<ul> <li>with high demar</li> </ul>	nd rate according to SN 319	920	73 %		
failure rate [FIT] with low demand rate according to SN 31920		100 FIT			
T1 value for proof test 61508	interval or service life acco	rding to IEC	20 a		
protection class IP on the front according to IEC 60529		EC 60529	IP20		
touch protection on t	he front according to IEC	60529	finger-safe, for vertical contact	from the front	
suitability for use					
<ul> <li>safety-related sy</li> </ul>	witching OFF		Yes		
Certificates/ approvals					
General Product App	proval				
(SP)	<u>Confirmation</u>			KC	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of 0	Conformity	Test Certificates	
RCM	<u>Type Examination Cer-</u> <u>tificate</u>	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	Special Test Certific- ate
Marine / Shipping					
ABS	B U R E A U VERITAS		Lloyd's Register urs	PRS	RINA
Marine / Shipping	other		Railway	Dangerous Good	Environment
RMRS RMRS	<u>Confirmation</u>	<u>Confirmation</u>	<u>Vibration and Shock</u>	Transport Information	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=3RT2036-1AT60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2036-1AT60

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1AT60

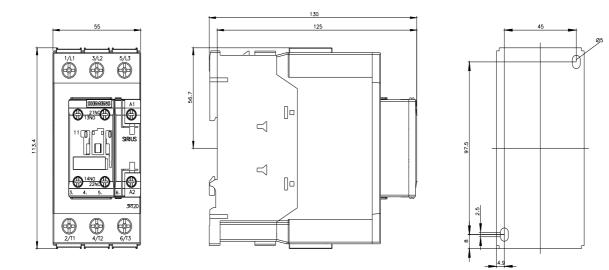
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

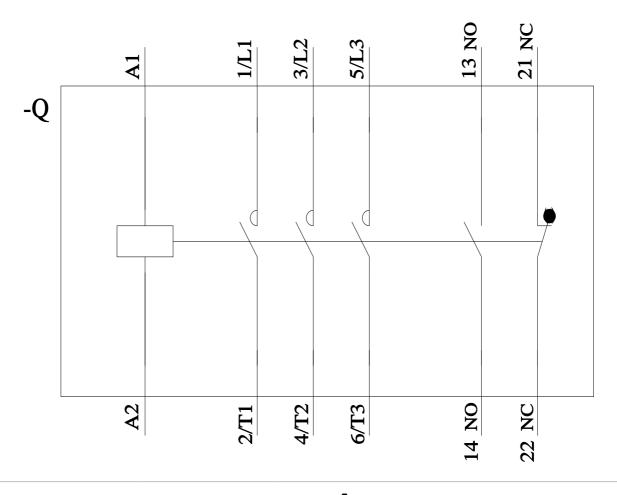
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2036-1AT60&lang=en

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT203 -1AT60/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2036-1AT60&objecttype=14&gridview=view1





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2/10/2023 🖸

3RT20361AT60 Page 7/8

7/10/2023

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