## SIEMENS

## Data sheet

## 3RT2023-1AK60



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 110 V AC, 50 Hz / 120 V, 60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0

product brand name         SIRUS           product designation         Power contactor           product type designation         SRT2           central tachineal data         state of contactor           size of contactor         S0           product type designation         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         2 W           insulation voltage         600 V           • of auxiliary circuit with degree of pollution 3 rated value         600 V           • of auxiliary circuit with degree of pollution 3 rated value         600 V           • of auxiliary circuit rated value         6 kV           • of auxiliary circuit rated value         75 g / 5 ms, 4,7g / 10 ms           machine contactor solita test conting to the contactor with added auxiliary switch block typical         10 000 000 <td< th=""><th></th><th></th></td<>		
product type designation         3RT2           General tachnical data	product brand name	SIRIUS
Contract to Contactor         S0           product extension         •           • 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 per pole         0.2 W           • without load current share typical         2W           insultation voltage         680 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         64V           • of main circuit with degree of pollution 3 rated value         64V           • of main circuit rated value         64V           • of main circuit rated value         64V           • of auxiliary circuit mated value         64V           • of auxiliary circuit rated value         64V           • of main circuit rated value         7.5g / 5 ms, 4.7g / 10 ms           machart mesistale ovaliage for protective separation between col	product designation	Power contactor
size of contactor         S0           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 per pole         0.2 W           • without load current share typical         2 W           insulation voltage         680 V           • of main circuit with degree of pollution 3 rated value         690 V           • of auxiliary circuit with degree of pollution 3 rated value         690 V           • of main circuit with degree of pollution 3 rated value         690 V           • of auxiliary circuit rated value         6 KV           • of the contactor with sine pulse         7,5g / 5 ms, 4,7g / 10 ms           shock resistance withs sine pulse         10,800 000           • at AC         10,800 000           • of the contactor with added electronically optimized         10000 000           • of the contactor	product type designation	3RT2
product extension     No       • (unction 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       • et AC in hot operating state per pole     0.2 W       • withoot load current share typical     2 W       insulation voltage     6 90 V       • of main circuit with degree of pollution 3 rated value     690 V       • of an in circuit value degree of pollution 3 rated value     690 V       • of an incircuit rated value     6 kV       • of an an circuit rated value     6 kV       • of an an incort rated value     6 kV       • of an and main contacts according to EN 60947-1     5 kV       shock resistance at rectangular impulse     6 kV       • at AC     7.5g / 5 ms, 4.7g / 10 ms       shock resistance at rectangular impulse     10 000 000       • at AC     11.8g / 5 ms, 7.4g / 10 ms       machineal service life (operating cycles)     10 000 000       • of the contactor with added electronically optimized     5000 000       availary switch block typical     10 00       • of the contactor with added electronically optimized     0 0       availary switch block typical     0 0       • of the contactor with added auxiliary switch block typical     0 00	General technical data	
• 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 per pole       0.2 W         • without load current share typical       2 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 kV         • of main circuit rated value       6 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • at AC       7,5g / 5 ms, 4,7g / 10 ms         shock resistance with sine pulse       7,5g / 5 ms, 7,4g / 10 ms         • at AC       11.8g / 5 ms, 7,4g / 10 ms         machineal service life (operating cycles)       10 000 000         • of chactor typical       10 000 000         • of the contactor whadeded auxiliary switch block typical       10 000 000	size of contactor	SO
• auxiliary switch     Yes       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     2 W       Insulation voltage     680 V       • of main circuit with degree of pollution 3 rated value     690 V       • of auxiliary circuit rated value     690 V       • of auxiliary circuit rated value     690 V       • of auxiliary circuit rated value     61 V       • of auxiliary circuit rated value     100 V       • of the contactor with added electronically optimized     10 000 000       • of the contactor with added electronically optimized     0000 000       • of the contactor wit	product extension	
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       2 W         insulation voltage       6 for an in 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 auxiliary circuit rated value       6 kV         • at AC       7.5g / 5 ms, 4.7g / 10 ms         shock resistance at rectangular impulse       11.8g / 5 ms, 7.4g / 10 ms         • 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       10 000 000	<ul> <li>function module for communication</li> </ul>	No
• 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       2 W         insulation voltage       690 V         • of main circuit with degree of pollution 3 rated value       690 V         • of auxiliary circuit with degree of pollution 3 rated value       690 V         • of auxiliary circuit with degree of pollution 3 rated value       690 V         • of auxiliary circuit rated value       6 kV         • at AC       7.5g / 5 ms, 4.7g / 10 ms         shock resistance at rectangular impulse       11.8g / 5 ms, 7.4g / 10 ms         • at AC       11.8g / 5 ms, 7.4g / 10 ms         mechanical service life (operating cycles)       10 000 000         • of the contactor with added electronically optimized       200 000         • auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000	<ul> <li>auxiliary switch</li> </ul>	Yes
• at AC in hot operating state per pole       0.2 W         • withbut load current share typical       2 W         insulation voltage       6 W         • 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 AC       7,5g / 5 ms, 4,7g / 10 ms         shock resistance with sine pulse       11.8g / 5 ms, 7,4g / 10 ms         • at AC       11.8g / 5 ms, 7,4g / 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 addeed auxiliary switch block typical       10 000 000         reference code accordin	power loss [W] for rated value of the current	
• without load current share typical     2 W       Insulation voltage     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of auxiliary circuit with degree of pollution 3 rated value     690 V       surge voltage resistance     6 kV       • of auxiliary circuit rated value     6 kV       • at AC     7,5g / 5 ms, 4,7g / 10 ms       shock resistance with sine pulse     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       reference code according to IEC 81346-2 <t< th=""><th><ul> <li>at AC in hot operating state</li> </ul></th><th>0.6 W</th></t<>	<ul> <li>at AC in hot operating state</li> </ul>	0.6 W
Insulation voltage       600 V         • of main circuit with degree of pollution 3 rated value       600 V         • of auxiliary circuit with degree of pollution 3 rated value       600 V         surge voltage resistance       600 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       -         • at AC       7,5g / 5 ms, 4,7g / 10 ms         shock resistance with sine pulse       -         • 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)       10/01/2009         Ambient temperature       -         • during operation       -25 +60 °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       680 V         • 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 kV         • at AC       7.5g / 5 ms, 4.7g / 10 ms         shock resistance with sine pulse       10 000 000         • at AC       11.8g / 5 ms, 7.4g / 10 ms         mechanical service life (operating cycles)       0 000 000         • 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 +80 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity minimum       10 %         maximum       95 %	<ul> <li>without load current share typical</li> </ul>	2 W
• of auxiliary circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       6 kV         • of main circuit rated value       6 kV         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       7,5g / 5 ms, 4,7g / 10 ms         shock resistance with sine pulse       11,8g / 5 ms, 7,4g / 10 ms         • 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         • 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 attitude at height above sea level maximum       2 000 m         ambient temperature       -55 +60 °C         • during storage       -55 +80 °C         relative humidity at 55 °C according	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       7.5g / 5 ms, 4.7g / 10 ms         shock resistance with sine pulse       11.8g / 5 ms, 7.4g / 10 ms         • 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)       10/01/2009         Ambient conditions       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -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 coil and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       400 V         • at AC       7,5g / 5 ms, 4,7g / 10 ms         shock resistance with sine pulse       11,8g / 5 ms, 7,4g / 10 ms         • at AC       11,8g / 5 ms, 7,4g / 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)       10/01/2009         Ambient conditions       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         • during storage<	<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       7,5g / 5 ms, 4,7g / 10 ms         shock resistance with sine pulse       •         • at AC       11,8g / 5 ms, 7,4g / 10 ms         shock resistance with dede electronically optimized auxiliary switch block 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)       10/01/2009         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 %         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       7,5g / 5 ms, 4,7g / 10 ms         • at AC       7,5g / 5 ms, 4,7g / 10 ms         shock resistance with sine pulse       11,8g / 5 ms, 7,4g / 10 ms         • 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       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +80 °C         relative humidity minimum       10 %         95 %       95 %	<ul> <li>of main circuit rated value</li> </ul>	6 kV
coil and main contacts according to EN 60947-1       coil and main contacts according to EN 60947-1         shock resistance at rectangular impulse       7,5g / 5 ms, 4,7g / 10 ms         • at AC       7,5g / 5 ms, 7,4g / 10 ms         shock resistance with sine pulse       11.8g / 5 ms, 7,4g / 10 ms         • at AC       11.8g / 5 ms, 7,4g / 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)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +80 °C         • relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit       Main circuit	<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
• at AC       7,5g / 5 ms, 4,7g / 10 ms         shock resistance with sine pulse       11,8g / 5 ms, 7,4g / 10 ms         • at AC       11,8g / 5 ms, 7,4g / 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         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +80 °C         relative humidity minimum       10 %         relative humidity minimum       10 %         Main circuit       95 %		400 V
shock resistance with sine pulse       if g runn in g runn         • at AC       11,8g / 5 ms, 7,4g / 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         • 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 at rectangular impulse	
• at AC       11,8g / 5 ms, 7,4g / 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)       10/01/2009         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 %	• at AC	7,5g / 5 ms, 4,7g / 10 ms
mechanical service life (operating cycles)       in the contactor typical         • 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)       10/01/2009         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 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>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>during storage</li> <li>-55 +80 °C</li> </ul> </li> <li>relative humidity minimum</li> <li>10 %</li> <li>relative humidity at 55 °C according to IEC 60068-2-30</li> <li>maximum</li> </ul>	• at AC	11,8g / 5 ms, 7,4g / 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     10 000 000     reference code according to IEC 81346-2     Q     Substance Prohibitance (Date)     10/01/2009     Ambient conditions     installation altitude at height above sea level maximum     2 000 m     ambient temperature     oduring operation     -25 +60 °C     relative humidity minimum     10 %     relative humidity at 55 °C according to IEC 60068-2-30     maximum     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)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit       95 %	<ul> <li>of contactor typical</li> </ul>	10 000 000
reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009Ambient 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 %Prelative humidity at 55 °C according to IEC 60068-2-30 maximum95 %		5 000 000
Substance Prohibitance (Date)       10/01/2009         Ambient conditions       installation altitude at height above sea level maximum       2 000 m         ambient temperature       0 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 %	of the contactor with added auxiliary switch block typical	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	
• during operation     -25 +60 °C       • during storage     -55 +80 °C       relative humidity minimum     10 %       relative humidity at 55 °C according to IEC 60068-2-30 maximum     95 %       Main circuit	installation altitude at height above sea level maximum	2 000 m
• during storage     -55 +80 °C       relative humidity minimum     10 %       relative humidity at 55 °C according to IEC 60068-2-30 maximum     95 %       Main circuit	ambient temperature	
relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %         Main circuit       10 %	during operation	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30       95 %         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	40 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	40 A
— up to 690 V at ambient temperature 60 °C rated	35 A
value	
• at AC-3	
— at 400 V rated value	9 A
— at 500 V rated value	9 A
— at 690 V rated value	9 A
• at AC-3e	
— at 400 V rated value	9 A
— at 500 V rated value	9 A
— at 690 V rated value	9 A 0 5 A
at AC-4 at 400 V rated value	8.5 A
at AC-5a up to 690 V rated value	35.2 A
• at AC-5b up to 400 V rated value	7.4 A
• at AC-6a	44.4.4
— up to 230 V for current peak value n=20 rated value	11.4 A
<ul> <li>— up to 400 V for current peak value n=20 rated value</li> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>	11.4 A 9.1 A
— up to 500 V for current peak value n=20 rated value	9A
• at AC-6a	SA .
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	7.6 A
— up to 200 V for current peak value n=30 rated value	7.6 A
— up to 500 V for current peak value n=30 rated value	6.1 A
— up to 690 V for current peak value n=30 rated value	6.1 A
minimum cross-section in main circuit at maximum AC-1 rated	10 mm <sup>2</sup>
value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	4.1 A
at 690 V rated value	3.3 A
operational current	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— at 24 V rated value	35 A
— at 60 V rated value	20 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	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 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	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 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	20 A
— at 60 V rated value	5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 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	35 A
— at 60 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 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	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
operating power	
• at AC-3	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 kW
— at 690 V rated value	7.5 kW
operating power for approx. 200000 operating cycles at AC-	
4 ● at 400 V rated value	2 kW
at 400 V rated value     at 690 V rated value	2.5 kW
operating apparent power at AC-6a	2.5 KW
up to 230 V for current peak value n=20 rated value	4.5 kVA
• up to 400 V for current peak value n=20 rated value	7.8 kVA
• up to 500 V for current peak value n=20 rated value	7.8 KVA
• up to 690 V for current peak value n=20 rated value	10.7 kVA
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	3 kVA
• up to 400 V for current peak value n=30 rated value	5.2 kVA
• up to 500 V for current peak value n=30 rated value	5.2 KVA
• up to 690 V for current peak value n=30 rated value	7.2 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>	170 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	170 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	140 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	104 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	88 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	1 000 1/h
• at AC-3 maximum	1 000 1/h
• at AC-3e maximum	1 000 1/h
• at AC-4 maximum	300 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
- • • • •	

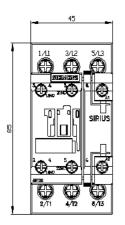
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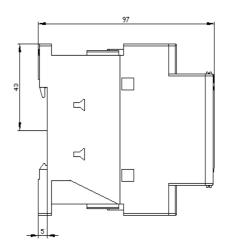
control supply voltage at AC	
• at 50 Hz rated value	110 V
at 60 Hz rated value	120 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	68 VA
• at 60 Hz	67 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.72
• at 60 Hz	0.74
apparent holding power of magnet coil at AC	
• at 50 Hz	7.9 VA
● at 60 Hz	6.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
• at 60 Hz	0.28
closing delay	
• at AC	8 40 ms
opening delay	
• at AC	4 16 ms
arcing time	10 10 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	1A
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 10 V rated value	3 A
at 125 V rated value	2 A
at 125 v rated value     at 220 V rated value	1A
at 220 V rated value     at 600 V rated value	0.15 A
operational current at DC-13	10.4
at 24 V rated value	10 A
• at 48 V rated value	2 A 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	7.6 A
at 600 V rated value	9 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	1 hp
— at 230 V rated value	1 hp

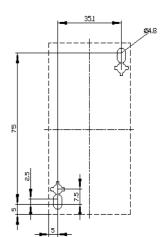
• for 3-phase AC motor	
- at 200/208 V rated value	2 hp
— at 220/230 V rated value	3 hp
- at 460/480 V rated value	5 hp
— at 575/600 V rated value	7.5 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	A0007 F000
design of the fuse link	
0	
for short-circuit protection of the main circuit     with time of accordination 1 required	gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)
<ul> <li>— with type of coordination 1 required</li> <li>with type of coordination 2 required</li> </ul>	
— with type of assignment 2 required	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
<ul> <li>side-by-side mounting</li> </ul>	Yes
height	85 mm
width	45 mm
depth	97 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	
<ul> <li>for main current circuit</li> </ul>	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	2x (1 2.5 mm²), 2x (2.5 10 mm²)
solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
connectable conductor cross-section for main contacts	
• solid	1 10 mm²
• stranded	1 10 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	1 10 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	
<ul> <li>for auxiliary contacts</li> </ul>	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross section	
for main contacts	16 8
	10 0

product function  • mirror contact according to IEC 60947-4-1  • Yes  B10 value with high demand rate according to SN 31920 450 000  proportion of dangerous failures  • with low demand rate according to SN 31920 40 % • with high demand rate according to SN 31920 73 % Failure rate according to SN 31920 100 FIT  T1 value for product Balmerous for the front according to IEC 60529 File rate accord	<ul> <li>for auxiliary co</li> </ul>	intacts		20 14		
<ul> <li>entro control according to EEC BM27-4-1</li> <li>ves</li> <l< td=""><td>Safety related data</td><td></td><td></td><td></td><td></td><td></td></l<></ul>	Safety related data					
subably for use safely-related synthing OFF     Yes       Bit Value with July denand rule according to SN 31920     40 %       a with July denand rule according to SN 31920     73 %       a with July denand rule according to SN 31920     73 %       a with July denand rule according to SN 31920     73 %       a with July denand rule according to SN 31920     73 %       a with July denand rule according to SN 31920     73 %       a with July denand rule according to IEC 60529     1920       b code     20 a       b code     20 a       code	product function					
Bit Q value with high demand rule according to SN 31920     450 000       • with low demand rule according to SN 31920     40 %       • with low demand rule according to SN 31920     40 %       • with low demand rule according to SN 31920     100 FT       • with low demand rule according to SN 31920     100 FT       • with low demand rule according to SN 31920     100 FT       • with low demand rule according to SN 31920     100 FT       • thit low demand rule according to SN 31920     100 FT       • thit low demand rule according to SN 31920     100 FT       • thit low demand rule according to SN 31920     100 FT       • thit low demand rule according to SN 31920     100 FT       • thit low demand rule according to SN 31920     100 FT       • thit low demand rule according to SN 31920     100 FT       • thit low demand rule according to SN 500 SN     100 FT       • thit low demand rule according to SN 500 SN     100 FT       • thit low demand rule according to SN 500 SN     100 FT       • thit low demand rule according to SN 500 SN     100 FT       • thit low demand rule according to SN 500 SN     100 FT       • thit low demand rule according to SN 500 SN     100 FT       • thit low demand rule according to SN 500 SN     100 FT       • thit low demand rule according to SN 500 SN     100 FT       • thit low SN 500 SN     100 FT	<ul> <li>mirror contact</li> </ul>	according to IEC 60947-4-1		Yes		
propertion of dangerous failures are large of the SN 1920 40 5 73 5 100 FT 73 5 73 5 73 5 73 5 73 5 73 5 73 5 73						
<ul> <li>• with loy demand rate according to SN 31920 <ul> <li>• with loy demand rate according to SN 31920</li> <li>• with loy demand rate according to SN 31920</li> <li>• The value rate [TT] with low demand rate according to SN 31920</li> <li>• The value rate [TT] with low demand rate according to SN 31920</li> <li>• The value rate [TT] with low demand rate according to SN 31920</li> <li>• The value rate [TT] with low demand rate according to SN 31920</li> <li>• The value rate (TT) with low demand rate according to IEC 60529</li> <li>• P20</li> <li>• transmission on the front according to IEC 60529</li> <li>• P20</li> <li>• Confirmation</li> &lt;</ul></li></ul>	B10 value with high demand rate according to SN 31920					
<ul> <li>with high demand rate according to SN 31920</li> <li>73 %</li> <li>Find the rate [FT] with low demand rate according to EC 60529</li> <li>71 %</li> <li>72 %</li> <li>72 %</li> <li>72 %</li> <li>72 %</li> <li>73 %</li> <li>73 %</li> <li>74 %</li></ul>	proportion of dange	erous failures				
Tailure rade [FT] with low demand rate according to EV 31220     100 FT       The role of proof lest interval or service life according to EC 60529     20 a       protection on the front according to EC 60529     1920       protection on the front according to EC 60529     1920       protection on the front according to EC 60529     1920       protection on the front according to EC 60529     1920       protection on the front according to EC 60529     1920       protection on the front according to EC 60529     1920       protection on the front according to EC 60529     1920       protection on the front according to EC 60529     1920       protection on the front according to EC 60529     1920       protection on the front according to EC 60529     1920       protection on the front according to EC 60529     1920       protection on the front according to EC 60529     1920       protection on the front according to EC 60529     1920       protection on the front according to EC 60529     1920       protection on the front according to EC 60529     1920       protection on the front according to EC 60529     1920       protection on the front according to EC 60529     1920       protection on the front according to EC 60529     1920       protection on the front according to EC 60529     1920       protection on the front according to EC 60529     <	<ul> <li>with low dema</li> </ul>	nd rate according to SN 3192	20	40 %		
Type Jue for proof test interval or service life according to IEC 60623     20 a       protection class IP on the front according to IEC 60623     IP20       interval     Impactantly, for vertical contact from the front       interval     Impactantly, for vertical contact from the front supply for perturby, for vertical contact from the fron	<ul> <li>with high dema</li> </ul>	and rate according to SN 319	920	73 %		
61630       1920         Torde protection on the front according to IEC 60523       Inger-safe, for vertical contact from the front         General Product Approval       Imger-safe, for vertical contact from the front         General Product Approval       Imger-safe, for vertical contact from the front         General Product Approval       Imger-safe, for vertical contact from the front         General Product Approval       Imger-safe, for vertical contact from the front         General Product Approval       Imger-safe, for vertical contact from the front         General Product Approval       Imger-safe, for vertical contact from the front         ENC       Functional Safety/Safety of Ma- contact for the front according to IEC 60529       Imger-safe, for vertical contact from the front         Mainer / Shipping       Imger-safe, for vertical contact from the front       Imger-safe, for vertical contact from the front         Mainer / Shipping       Imger-safe, for vertical contact from the front according to IEC 60529       Imger-safe, for vertical contact from the front         Mainer / Shipping       Imger-safe, for vertical contact from the front according to IEC 60529       Imger-safe, for vertical contact from the front contact fro	failure rate [FIT] with	low demand rate according	to SN 31920	100 FIT		
protection class IP on the front according to IEC 60523 transfer vertical contact from the front inficial even approach inficial even approach inf		st interval or service life acco	rding to IEC	20 a		
Interview and the front according to IEC 60520         Interview and the front according to IEC 60520         Interview and the front according to IEC 60520         Improve the front according to IEC 605200	61508					
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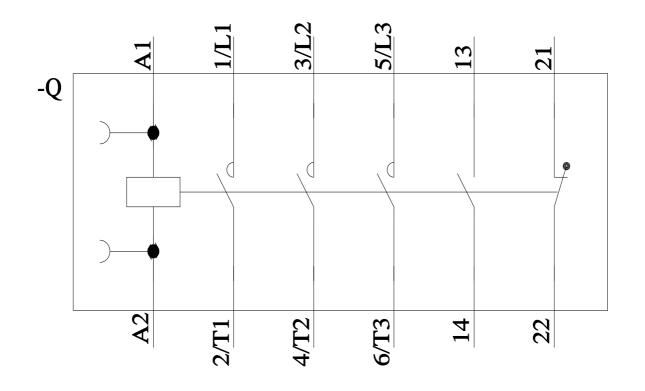
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