## SIEMENS

## Data sheet

## 3RT2027-1AM20-0UA0



contactor, NEMA version, 10 hp, 460 / 575 V, 3-pole, 208 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0

product brand name         SIRUS           product designation         Power contactor           product type designation         SIRT2           General technical data         -           size of contactor         S0           product stension         No           • auxiliary switch         Yes           power loss [W] for rated value of the current         6.3 W           • at AC in hot operating state         6.3 W           • at AC in hot operating state per pole         2.3 W           • without load current share typical         10.5 W           insultation voltage         690 V           • of main circuit with degree of pollution 3 rated value         690 V           • of auxiliary circuit with degree of pollution 3 rated value         690 V           • of auxiliary circuit rated value         6 kV           • of auxiliary circuit rated value         8 kV           • of contactor with sine pulse         13.5g / 5 ms, 8.3g / 10 ms           • at AC         8.3g / 5 ms, 8.3g / 10 ms           mechanical service life (operating cycles)         10 000 000		
product type designation         3RT2           General technical data         S0           Size of contactor         S0           entral systech         S0           product extension         No           • auxilary switch         Yes           power loss [W] for rated value of the current         6.3 W           • at AC in hot operating state         6.3 W           • at AC in hot operating state per pole         2.3 W           • without load current share typical         10.5 W           Insulation voltage         600 V           • of main circuit with degree of pollution 3 rated value         600 V           • of auxiliary circuit rated value         680 V           • of auxiliary circuit rated value         6 kV           • of auxiliary switch         6 kV           • of auxiliary switch block typical         100 V           • of contacts ecording to EN 00947-1         400 V           • of contactor typical         10 000 000           • of contactor typical         10 000 000	product brand name	SIRIUS
Ceneral technical data     S0       size of contactor     S0       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     C.3 W       • at AC in hot operating state     C.3 W     2.3 W       • without load current share typical     DOS W     DOS W       Insulation voltage     690 V     90 V       • of main circuit with degree of pollution 3 rated value     690 V     690 V       surge voltage resistance     6 kV     6 kV       • of main circuit with degree of pollution 3 rated value     64 V     600 V       • of auxiliary circuit with degree of pollution 3 rated value     64 V     600 V       • of main circuit rated value     6 kV     6 kV       • of auxiliary circuit rated value     6 kV     6 kV       • of auxiliary circuit rate value     6 kV     6 kV       • at AC     8.3g / 5 ms, 5.3g / 10 ms     5000 000       • at AC     13.5g / 5 ms, 8.3g / 10 ms     600 000       • of the contactor with added auxiliary switch block typical     10 000 000     6 000 000       • of the contactor with added auxiliary switch block typical     10 000 000     6 000 000       • of the contactor with added auxiliary switch block typical     10 000 000<	product designation	Power contactor
size of contactor     S0       product extension     No       • auxilary switch     Yes       powor loss [W] for rated value of the current     6.3 W       • at AC in hot operating state     6.3 W       • at AC in hot operating state per pole     2.3 W       • without load current share typical     10.5 W       Insulation voltage     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of auxillary circuit with degree of pollution 3 rated value     690 V       • of auxillary circuit ated value     64V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit rated value     64V       • of main circuit rated value     64V       • of main circuit rated value     64V       • of auxillary circuit rated value     64V       • of auxillary circuit rated value     64V       • of auxillary circuit rated value     64V       • at AC     8.3g / 5 ms, 5.3g / 10 ms       shock resistance withs ine pulse     10.500 000       • of the contactor with added electronically optimized     10.000 000       • of the contactor with added electronically optimized     10.000 000       • of the contactor with added electronically optimized     10.000 000       • of the contactor with added electronically optimized     0.000 000	product type designation	3RT2
product extension     No       • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     6.3 W       • at AC in hot operating state     6.3 W       • at AC in hot operating state pape     2.3 W       • without load current share typical     10.5 W       Insulation voltage     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of analing vicruit with degree of pollution 3 rated value     690 V       • of analing vicruit with degree of pollution 3 rated value     690 V       • of analing vicruit with degree of pollution 3 rated value     690 V       • of analing vicruit with degree of pollution 3 rated value     64V       • of main circuit rated value     6 kV       • of analing vicruit rated value     6 kV       • of analing vicruit rated value     6 kV       • of analing vicruit rated value     6 kV       • at AC     8.3g / 5 ms, 5.3g / 10 ms       shock resistance with sine pulse     10 000 000       • at AC     13.5g / 5 ms, 8.3g / 10 ms       machineal service life (operating cycles)     10 000 000       • of the contractor with added electronically optimized auxiliary switch block typical     10 000 000       reference code according to IEC 81346-2     Q       Quo maambient temperati	General technical data	
• function module for communication       No         • auxiliary switch       Yes         power loss [W] for rated value of the current       6.3 W         • at AC in hot operating state       6.3 W         • at AC in hot operating state per pole       2.3 W         • without load current share typical       10.5 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 and value       6 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       10 V         • of auxiliary circuit rated value       6 kV         • of auxiliary circuit rated value       10 V         • of auxiliary circuit rated value       10 V         • of auxiliary circuit rated value       10 00 V         • auxiliary circuit rated value       10 000 000         • of the contactor what ded au	size of contactor	S0
• auxiliary switch     Yes       power loss [W] for ated value of the current     6.3 W       • at AC in hot operating state     6.3 W       • at AC in hot operating state per pole     2.3 W       • without load current share typical     10.5 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     6 kV       • 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       • at AC     8,3g / 5 ms, 8,3g / 10 ms       shock resistance with sine pulse     13,5g / 5 ms, 8,3g / 10 ms       • at AC     13,5g / 5 ms, 8,3g / 10 ms       • at AC     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       •	product extension	
power loss [W] for rated value of the current       6.3 W         • at AC in hot operating state per pole       2.3 W         • without load current share typical       10.5 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       690 V         • of auxiliary circuit rated value       6 kV         • of auxiliary circuit rated value       7 ms, 5,3g / 10 ms         shock resistance at rectangular impulse       8.3g / 5 ms, 5,3g / 10 ms         • of the contactor w	<ul> <li>function module for communication</li> </ul>	No
• at AC in hot operating state       6.3 W         • at AC in hot operating state per pole       2.3 W         • without load current share typical       10.5 W         insultation voltage       690 V         • of main circuit with degree of pollution 3 rated value       690 V         • of auxiliary circuit with degree of pollution 3 rated value       690 V         • of main circuit rated value       64 VV         • of auxiliary circuit rated value       6 kV         • at AC       8.3g / 5 ms, 5.3g / 10 ms         shock resistance with sine pulse       • at AC         • at AC       13.5g / 5 ms, 8.3g / 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 th	auxiliary switch	Yes
• at AC in hot operating state per pole       2.3 W         • withbut load current share typical       10.5 W         insulation voltage       60 min circuit with degree of pollution 3 rated value       690 V         • of main circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       60 KV         • of main circuit with degree of pollution 3 rated value       690 V         • of auxiliary circuit rated value       6 kV         • at AC       8.3g / 5 ms, 5.3g / 10 ms         shock resistance with sine pulse       -         • at AC       13.5g / 5 ms, 8.3g / 10 ms         mechanical service life (operating cycles)       10 000 000         • 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       10 000 100         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2	power loss [W] for rated value of the current	
without load current share typical     10.5 W      insulation voltage         e of main circuit with degree of pollution 3 rated value         690 V      surge voltage resistance         e of main circuit with degree of pollution 3 rated value         690 V      surge voltage resistance         e of main circuit rated value         6 kV         e of auxiliary circuit rated value         8,3g / 5 ms, 5,3g / 10 ms         shock resistance with sine pulse         e at AC         13,5g / 5 ms, 8,3g / 10 ms         mechanical service life (operating cycles)         i of contactor typical         of onchactor typical         f 0 000 000         e of the contactor with added electronically optimized         auxiliary switch block typical         f 0 000 000         reference code according to IEC 81346-2         Q         Substance Prohibitance (Date)         finstallation altitude at height above sea level maximum         anbient temperature         e during storage         etstice humidity minimum         10 %         relative humidity minimum         10 %         relative humidity minimum         10 %         relative humidity minimum	<ul> <li>at AC in hot operating state</li> </ul>	6.3 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       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       8.3g / 5 ms, 5.3g / 10 ms         • at AC       8.3g / 5 ms, 8.3g / 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 8136-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient temperature       -         • during storage <td< th=""><th><ul> <li>at AC in hot operating state per pole</li> </ul></th><th>2.3 W</th></td<>	<ul> <li>at AC in hot operating state per pole</li> </ul>	2.3 W
• of main circuit with degree of pollution 3 rated value       690 V         • of auxiliary circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       68 V         • of main circuit rated value       6 kV         maximum permissible voltage for protective separation between coll and main contacts according to EN 60847-1       400 V         shock resistance at rectangular impulse       8,3g / 5 ms, 5,3g / 10 ms         • at AC       8,3g / 5 ms, 5,3g / 10 ms         shock resistance with sine pulse       10 000 000         • of the 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         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         efference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       -25 +60 °C         • during storage       -55 +60 °C	<ul> <li>without load current share typical</li> </ul>	10.5 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       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 kJ         • at AC       8,3g / 5 ms, 5,3g / 10 ms         shock resistance with sine pulse       13,5g / 5 ms, 8,3g / 10 ms         • of contactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary witch 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         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       -45 +60 °C         • during storage       -55 +60 °C         • during storage       -55 +60 °C	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       8,3g / 5 ms, 5,3g / 10 ms         • at AC       8,3g / 5 ms, 8,3g / 10 ms         shock resistance with sine pulse       00 000         • of the 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         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity at 55 °C according to IEC 60068-2:30       95 %         Main circuit       Main circuit	<ul> <li>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       8,3g / 5 ms, 5,3g / 10 ms         shock resistance with sine pulse       8,3g / 5 ms, 8,3g / 10 ms         • at AC       13,5g / 5 ms, 8,3g / 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       2000 m         ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minum       10 %         95 %       95 %	<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
• of auxiliary circuit rated value       6 kV         maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       400 V         • at AC       8,3g / 5 ms, 5,3g / 10 ms         shock resistance with sine pulse       -         • at AC       13,5g / 5 ms, 8,3g / 10 ms         mechanical service life (operating cycles)       -         • 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       -         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit       95 %	surge voltage resistance	
maximum permissible voltage for protective separation between       400 V         coil and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       8,3g / 5 ms, 5,3g / 10 ms         • at AC       8,3g / 5 ms, 5,3g / 10 ms         shock resistance with sine pulse       13,5g / 5 ms, 8,3g / 10 ms         • at AC       13,5g / 5 ms, 8,3g / 10 ms         mechanical service life (operating cycles)       0 000 000         • 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         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         shock resistance at rectangular impulse         • at AC       8,3g / 5 ms, 5,3g / 10 ms         shock resistance with sine pulse         • at AC       13,5g / 5 ms, 8,3g / 10 ms         mechanical service life (operating cycles)         • of contactor typical         • of the contactor with added electronically optimized auxiliary switch block typical         • of the contactor with added auxiliary switch block typical         • of the contactor with added auxiliary switch block typical         • of the contactor with added auxiliary switch block typical         • of the contactor go to IEC 81346-2         Q         Substance Prohibitance (Date)         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 minimum         10 %         relative humidity at 55 °C according to IEC 60068-2-30         maximum	<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
• at AC       8,3g / 5 ms, 5,3g / 10 ms         shock resistance with sine pulse       13,5g / 5 ms, 8,3g / 10 ms         • at AC       13,5g / 5 ms, 8,3g / 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 at 55 °C according to IEC 60068-2-30       95 %         Main circuit       40 min circuit		400 V
shock resistance with sine pulse       13,5g / 5 ms, 8,3g / 10 ms         e at AC       13,5g / 5 ms, 8,3g / 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)       10/01/2009         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       13,5g / 5 ms, 8,3g / 10 ms         mechanical service life (operating cycles)       000000         • 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 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       ////////////////////////////////////	• at AC	8,3g / 5 ms, 5,3g / 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)       10/01/2009         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       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>the contactor typical</li> <li>of the contactor</li></ul>	• at AC	13,5g / 5 ms, 8,3g / 10 ms
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>10 000 000</li> <li>reference code according to IEC 81346-2</li> <li>Q</li> <li>Substance Prohibitance (Date)</li> <li>10/01/2009</li> <li>Ambient conditions</li> <li>installation altitude at height above sea level maximum</li> <li>2 000 m</li> <li>ambient temperature         <ul> <li>during operation</li> <li>-25 +60 °C</li> <li>etative humidity minimum</li> <li>10 %</li> </ul> </li> <li>relative humidity at 55 °C according to IEC 60068-2-30 maximum</li> <li>Main circuit</li> </ul>	mechanical service life (operating cycles)	
auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +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)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %		5 000 000
Substance Prohibitance (Date)       10/01/2009         Ambient conditions       installation altitude at height above sea level maximum       2 000 m         ambient temperature       2 000 m         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %	<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Ambient conditions         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %         Main circuit	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum       2 000 m         ambient temperature <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)	10/01/2009
ambient temperature         • during operation         • during storage         -25 +60 °C         • during storage         -55 +80 °C         relative humidity minimum         10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum         Main circuit	Ambient conditions	
• during operation     • during storage     ·25 +60 °C     ·55 +80 °C     ·clative humidity minimum     10 %     relative humidity at 55 °C according to IEC 60068-2-30     maximum     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       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
	3
<ul> <li>operating voltage</li> <li>at AC-3 rated value maximum</li> </ul>	690 V
at AC-3 rated value maximum     at AC-3e rated value maximum	690 V
operational current	690 V
at AC-1 at 400 V at ambient temperature 40 °C rated	50 A
value	50 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	50 A
value	
— up to 690 V at ambient temperature 60 °C rated	42 A
value • at AC-3	
- at 400 V rated value	32 A
— at 500 V rated value	32 A 32 A
— at 690 V rated value	21 A
• at AC-3e	21 A
<ul> <li>at AC-se</li> <li>— at 400 V rated value</li> </ul>	32 A
	32 A 32 A
— at 500 V rated value — at 690 V rated value	32 A 21 A
at AC-4 at 400 V rated value	21 A 22 A
<ul> <li>at AC-4 at 400 V rated value</li> <li>at AC-5a up to 690 V rated value</li> </ul>	22 A 44 A
<ul> <li>at AC-5a up to 690 V rated value</li> <li>at AC-5b up to 400 V rated value</li> </ul>	44 A 26.5 A
at AC-5b up to 400 V rated value     at AC-6a	20.0 A
<ul> <li>at AC-ba</li> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	30.8 A
	30.8 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>	27 A
— up to 500 V for current peak value n=20 rated value	21 A 21 A
at AC-6a	21A
	20.5 A
<ul> <li>— up to 230 V for current peak value n=30 rated value</li> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>	20.5 A
— up to 500 V for current peak value n=30 rated value	18 A
— up to 500 V for current peak value n=30 rated value	18 A
minimum cross-section in main circuit at maximum AC-1 rated	10 A
value	
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	12 A
● at 690 V rated value	12 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
<ul> <li>with 2 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	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-2 at 400 V rated value	15 kW		
• at AC-3			
— at 230 V rated value	7.5 kW		
— at 400 V rated value	15 kW		
— at 500 V rated value	15 kW		
— at 690 V rated value	18.5 kW		
• at AC-3e			
— at 230 V rated value	7.5 kW		
— at 400 V rated value	15 kW		
— at 500 V rated value	15 kW		
— at 690 V rated value	18.5 kW		
operating power for approx. 200000 operating cycles at AC-			
4			
• at 400 V rated value	6 KW		
at 690 V rated value	10.3 kW		
operating apparent power at AC-6a			
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	12.2 kVA		
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	21.3 kVA		
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	23.3 kVA		
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	25 kVA		
operating apparent power at AC-6a			
• up to 230 V for current peak value n=30 rated value	8.1 kVA		
• up to 400 V for current peak value n=30 rated value	14.2 kVA		
	15.5 kVA		
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>			
• up to 690 V for current peak value n=30 rated value	21.5 kVA		
• up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to			
• up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C	21.5 kVA		
<ul> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> </ul>	21.5 kVA 499 A; Use minimum cross-section acc. to AC-1 rated value		
<ul> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> </ul>	21.5 kVA 499 A; Use minimum cross-section acc. to AC-1 rated value 341 A; Use minimum cross-section acc. to AC-1 rated value		
<ul> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> </ul>	21.5 kVA 499 A; Use minimum cross-section acc. to AC-1 rated value 341 A; Use minimum cross-section acc. to AC-1 rated value 260 A; Use minimum cross-section acc. to AC-1 rated value		
<ul> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> </ul>	21.5 kVA 499 A; Use minimum cross-section acc. to AC-1 rated value 341 A; Use minimum cross-section acc. to AC-1 rated value 260 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value		
<ul> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> </ul>	21.5 kVA 499 A; Use minimum cross-section acc. to AC-1 rated value 341 A; Use minimum cross-section acc. to AC-1 rated value 260 A; Use minimum cross-section acc. to AC-1 rated value		
<ul> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> </ul>	21.5 kVA 499 A; Use minimum cross-section acc. to AC-1 rated value 341 A; Use minimum cross-section acc. to AC-1 rated value 260 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value 162 A; Use minimum cross-section acc. to AC-1 rated value		
<ul> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>mo-load switching frequency</li> <li>at AC</li> </ul>	21.5 kVA 499 A; Use minimum cross-section acc. to AC-1 rated value 341 A; Use minimum cross-section acc. to AC-1 rated value 260 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value		
<ul> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>at AC</li> <li>operating frequency</li> </ul>	21.5 kVA 499 A; Use minimum cross-section acc. to AC-1 rated value 341 A; Use minimum cross-section acc. to AC-1 rated value 260 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value 162 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h		
<ul> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>at AC</li> <li>operating frequency</li> <li>at AC-1 maximum</li> </ul>	21.5 kVA 499 A; Use minimum cross-section acc. to AC-1 rated value 341 A; Use minimum cross-section acc. to AC-1 rated value 260 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value 162 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 1 000 1/h		
<ul> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>no-load switching frequency</li> <li>at AC</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> </ul>	21.5 kVA 499 A; Use minimum cross-section acc. to AC-1 rated value 341 A; Use minimum cross-section acc. to AC-1 rated value 260 A; Use minimum cross-section acc. to AC-1 rated value 199 A; Use minimum cross-section acc. to AC-1 rated value 162 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 1 000 1/h 750 1/h		
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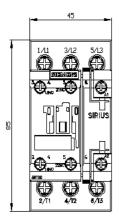
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	208 V
• at 60 Hz rated value	208 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	81 VA
• at 60 Hz	79 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	10.5 VA
• at 60 Hz	8.5 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	1
contact 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
	6 A
<ul> <li>at 110 V rated value</li> </ul>	3 A
<ul> <li>at 110 V rated value</li> <li>at 125 V rated value</li> </ul>	
	3 A
• at 125 V rated value	3 A 2 A
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul>	3 A 2 A 1 A
<ul><li>at 125 V rated value</li><li>at 220 V rated value</li></ul>	3 A 2 A 1 A 0.15 A
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> operational current at DC-13	3 A 2 A 1 A
at 125 V rated value     at 220 V rated value     at 600 V rated value  operational current at DC-13     at 24 V rated value	3 A 2 A 1 A 0.15 A 10 A
at 125 V rated value     at 220 V rated value     at 600 V rated value  operational current at DC-13      at 24 V rated value     at 48 V rated value	3 A 2 A 1 A 0.15 A 10 A 2 A
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> <b>operational current at DC-13</b> <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> </ul>	3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 1 A
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> <b>operational current at DC-13</b> <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> </ul>	3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 1 A 0.9 A
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> <b>operational current at DC-13</b> <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> </ul>	3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> <b>operational current at DC-13</b> <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul>	3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul>	3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>operational current at DC-13</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul>	3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>but 220 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>but 220 V rated value</li> <li>at 600 V rated value</li> <li>but 220 V rated value</li></ul>	3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>operational current at DC-13</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul>	3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 27 A
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>total current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul> </li> </ul>	3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>by the formation of the formation o</li></ul>	3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 27 A
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>total current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul> </li> </ul>	3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 27 A

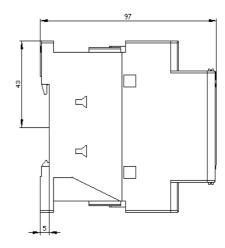
— at 230 V rated value	5 hp		
for 3-phase AC motor	7.5 %		
- at 200/208 V rated value	7.5 hp		
- at 220/230 V rated value	7.5 hp		
- at 460/480 V rated value	10 hp		
at 575/600 V rated value contact rating of auxiliary contacts according to UL	10 hp A600 / P600		
Short-circuit protection	A0007F000		
design of the fuse link			
for short-circuit protection of the main circuit			
- with type of coordination 1 required	gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA)		
- with type of assignment 2 required	gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (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	ge. 1077 (000 v, 114)		
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		
<ul> <li>for live parts</li> </ul>			
— forwards	10 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	6 mm		
Connections/ Terminals			
type of electrical connection			
for main current circuit	screw-type terminals		
<ul> <li>for auxiliary and control circuit</li> </ul>	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	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )		
<ul> <li>solid or stranded</li> <li>finally stranded with core and processing</li> </ul>	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )		
finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²		
connectable conductor cross-section for main contacts	1 10 mm <sup>2</sup>		
• solid	1 10 mm <sup>2</sup>		
<ul> <li>stranded</li> <li>finally stranded with core and processing</li> </ul>	1 10 mm <sup>2</sup>		
finely stranded with core end processing	1 10 mm <sup>2</sup>		
connectable conductor cross-section for auxiliary contacts <ul> <li>solid or stranded</li> </ul>	0.5 2.5 mm <sup>2</sup>		
	0.5 2.5 mm² 0.5 2.5 mm²		
finely stranded with core end processing	0.0 2.0 mm		
type of connectable conductor cross-sections			
<ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> </ul>	$2x (0.5 \pm 1.5 \text{ mm}^2) 2x (0.75 \pm 2.5 \text{ mm}^2)$		
<ul> <li>— solid or stranded</li> <li>finally stranded with core and processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
<ul> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul>			
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)		
AWG number as coded connectable conductor cross section			

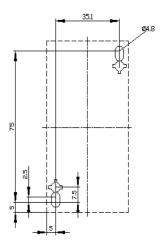
<ul> <li>for main contacts</li> </ul>	S		16 8			
<ul> <li>for auxiliary cont</li> </ul>	acts		20 14			
Safety related data						
product function						
•	cording to IEC 60947-4-1		Yes			
	mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920		450 000			
proportion of dangerous failures						
	I rate according to SN 3192	20	40 %			
	d rate according to SN 319		73 %			
	w demand rate according to		100 FIT			
	interval or service life acco		20 a			
61508			20 a			
protection class IP on	the front according to I	EC 60529	IP20			
touch protection on the	he front according to IEC	60529	finger-safe, for vertical co	ntact from the front		
suitability for use						
<ul> <li>safety-related sw</li> </ul>	vitching on		Yes			
<ul> <li>safety-related sw</li> </ul>	vitching OFF		Yes			
Certificates/ approvals						
General Product App	roval					
SP	$(\mathbf{x})$	Confirmation	(UL)	<u>KC</u>	FAL	
CSA	ccc		UL		LIIL	
EMC	Functional Safety/Safety of Ma- chinery	Declaration of C	onformity	Test Certificates		
RCM	<u>Type Examination Cer-</u> tificate	UK CA	CE EG-Konf.	Special Test Certific- ate	Type Test Certific- ates/Test Report	
Marine / Shipping						
ABS	B UREAU VERITAS		Lloyd's Register uts	RINA	RMRS	
other		Railway	Environment			
<u>Confirmation</u>		Vibration and She	ock <u>Environmental Co</u> firmations	on-		
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						
	.siemens.com/cs/ww/en/vie					
https://www.siemens.co	ordering system)					
https://mall.industry.sie Cax online generator	mens.com/mall/en/en/Cata	alog/product?mlfb=3	<u>9K12027-1AM20-0UA0</u>			
	on.siemens.com/WW/CAX	order/default.aspx?	ang=en&mlfb=3RT2027-1	IAM20-0UA0		
Service&Support (Ma	nuals, Certificates, Chara	acteristics, FAQs,.	)			
https://support.industry						
	luct images. 2D dimensio					

6/29/2023

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