## SIEMENS

## Data sheet

## 3RT2024-1AD00



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 42 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0

product brand name         SIRIUS           product designation         Power contactor           product type designation         SRT2           Central technical data         State of contactor           size of contactor         S0           product statension         No           • function module for communication         No           • auxiliary switch         Yes           power loss [W] for rated value of the current         -           • at AC in hot operating state         0.9 W           • at AC in hot operating state per pole         0.3 W           • without load current share typical         7.6 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         7.5g / 5 ms. 4.7g / 10 ms <tr< th=""><th>4/13</th><th></th></tr<>	4/13	
product type designation         3RT2           General technical data	product brand name	SIRIUS
General 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     0.9 W       • at AC in hot operating state     0.9 W       • at AC in hot operating state     0.9 W       • without load current share typical     7.8 W       insulation voltage     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of auxiliary circuit with degree of pollution 3 rated value     690 V       • of auxiliary circuit rated value     64 V       • at AC     7.5g / 5 ms, 4.7g / 10 ms       mechanical service life (operating cycles)     10 000 000       • of the contactor with added acteronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added acteronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added acteronically optimized auxiliary switch block typical     10 000 000       • of the contactor with	product designation	Power contactor
size of contactor         S0           product extension         •           • function module for communication         No           • auxiliary switch         Yes           power loss [W] for rated value of the current         0.9 W           • at AC in hot operating state per pole         0.3 W           • without load current share typical         7.6 W           Insulation voltage         690 V           • of main circuit with degree of pollution 3 rated value         690 V           • of main circuit with degree of pollution 3 rated value         690 V           • of main circuit with degree of pollution 3 rated value         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 main circuit rated value         64V           • of auxiliary circuit rated value         64V </th <th>product type designation</th> <th>3RT2</th>	product type designation	3RT2
product extension     No       • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     0.9 W       • at AC in hot operating state     0.9 W       • at AC in hot operating state per pole     0.3 W       • without load current share typical     7.6 W       insulation voltage     690 V       • of main circui with degree of pollution 3 rated value     690 V       • of analizity circuit rated value     690 V       • of main circuit rated value     6 kV       • of main circuit rated value     6 kV       • of main circuit rated value     6 kV       • of main contacts according to EN 60947-1     5 kV       shock resistance at rectangular impulse     7.5g / 5 ms, 4.7g / 10 ms       • at AC     11.8g / 5 ms, 7.4g / 10 ms       shock resistance with sine pulse     10 000 000       • of contactor with added electronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     0 00 000       efference code according to ELC 81346-2     Q       Q Substance Prohibitance (Date)     10/01/2009       Ambient temperation     25 + 60 °C       • during operation     -25 + 60 °C       • during operation     -25 + 60 °C	General technical data	
• function module for communication       No         • auxillary switch       Yes         power loss [W] for rated value of the current       0.9 W         • at AC in hot operating state per pole       0.3 W         • at AC in hot operating state per pole       0.3 W         • of main circuit with degree of pollution 3 rated value       690 V         • of main circuit with degree of pollution 3 rated value       690 V         • of main circuit with degree of pollution 3 rated value       690 V         • of main circuit rated value       6 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       10 V         • of auxiliary circuit rated value       10 V         • at AC       7,5g / 5 ms, 4,7g / 10 ms         • at AC       11.8g / 5 ms, 7,4g / 10 ms         • at AC       10 000 000         • of the contactor which added auxiliary switch block typical       10 000 000         • of the contactor which added auxiliary switch block typical       10	size of contactor	S0
• auxiliary switch     Yes       power loss [W] for rated value of the current     0.9 W       • at AC in hot operating state     0.9 W       • at AC in hot operating state per pole     0.3 W       • without load current share typical     7.6 W       insultation voltage     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit rated value     690 V       • of main circuit rated value     6 kV       • of auxiliary circuit with degree of pollution 3 rated value     600 V       • of auxiliary circuit with degree of pollution 3 rated value     6 kV       • of auxiliary circuit with degree of pollution 3 rated value     6 kV       • of auxiliary circuit with degree of polletive separation between col and main contacts according to EN 60947-1     400 V       shock resistance at rectangular impulse     4 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 electonically 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	product extension	
power loss [W] for rated value of the current     0.9 W       • at AC in hot operating state     0.9 W       • at AC in hot operating state prole     0.3 W       • without load current share typical     7.6 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 rated value     64 V       • of main circuit rated value     64 V       • of auxiliary circuit rated value     64 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 with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10/00 1/2009       Ambient conditions <td< th=""><td><ul> <li>function module for communication</li> </ul></td><td>No</td></td<>	<ul> <li>function module for communication</li> </ul>	No
• at AC in hot operating state     0.9 W       • at AC in hot operating state per pole     0.3 W       • without load current share typical     7.6 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 V       • of auxiliary circuit rated value     6 k/V       • of auxiliary circuit rated value     100 V       • at AC     7.5g / 5 ms, 4.7g / 10 ms       • at AC     11.8g / 5 ms, 7.4g / 10 ms       • at AC     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     10 000 000       • of the contactor with added auxiliary switch block typical <t< th=""><td>auxiliary switch</td><td>Yes</td></t<>	auxiliary switch	Yes
et AC in hot operating state per pole         0.3 W         without load current share typical         7.6 W         Insulation voltage         of main circuit with degree of pollution 3 rated value         of auxiliary circuit with degree of pollution 3 rated value         of auxiliary circuit with degree of pollution 3 rated value         of auxiliary circuit with degree of pollution 3 rated value         of auxiliary circuit with degree of pollution 3 rated value         of auxiliary circuit rated value         of the contacts according to EN 60947-1         shock resistance at rectangular impulse         • at AC         shock resistance at rectangular impulse         • at AC         of contactor typical         • of contactor typical         of contactor typical         of contactor typical         of the contactor with added electronically optimized         auxiliary switch block typical         volto 1000 000         of the contactor with added auxiliary switch block typical         volto 1000 000         coftence code according to IEC 81346-2         Q         Substance Prohibitance (Date)         volto 1000 102009         Anbient conditions         installation altitude at height above sea level maximum         2000 m         ambient temperature         volting storage         -25 +60 °C         relative humidity at 55 °C according to IEC 60068-2-30         maximum	power loss [W] for rated value of the current	
• without load current share typical     7.6 W       insulation voltage     690 V       • of main circuit with degree of pollution 3 rated value     690 V       surge voltage resistance     690 V       • of main circuit rated value     6 kV       • of auxiliary circuit rated value     6 kV       • at AC     7,5g / 5 ms, 4,7g / 10 ms       • at AC     11.8g / 5 ms, 7,4g / 10 ms       • 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 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)     1001/2009       Ambient conditions     -       installation altitude at height above sea level maximum     2 000 m       ambient temperature     -	<ul> <li>at AC in hot operating state</li> </ul>	0.9 W
Insulation voltage       690 V         • of main circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       690 V         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • at 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         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient temperature       -         • during storage       -25 +60 °C         • during storage       -25 +60 °C         • during storage       -25 +60 °C         • during storage	<ul> <li>at AC in hot operating state per pole</li> </ul>	0.3 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       6         • of main circuit rated value       6 kV         maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       400 V         • at AC       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         efference 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 +60 °C         • during storage       -55 +60 °C         • during storage       -55 +60 °C         • during s	<ul> <li>without load current share typical</li> </ul>	7.6 W
• of auxiliary circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       6 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • ad AC       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         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 storage       -55 +60 °C         relative humidity at 55 °C according to IEC 6	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 the 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         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         ambient temperature       -55 +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 <td><ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul></td> <td>690 V</td>	<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
• of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       400 V         • 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         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       2 000 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       7,5g / 5 ms, 4,7g / 10 ms         shock resistance with sine pulse       -         • at AC       11.8g / 5 ms, 7,4g / 10 ms         mechanical service life (operating cycles)       -         • of contactor typical       10 000 000         • of the contactor with added 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         Amblent conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -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       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       -55 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         95 %       95 %	<ul> <li>of main circuit rated value</li> </ul>	6 kV
coil and main contacts according to EN 60947-1         shock resistance at rectangular impulse         • at AC       7,5g / 5 ms, 4,7g / 10 ms         shock resistance with sine pulse         • at AC       11,8g / 5 ms, 7,4g / 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 EX 81346-2         Q         Substance Prohibitance (Date)         10/01/2009         Ambient conditions         installation altitude at height above sea level maximum         2 000 m         ambient temperature         • during operation         -25 +60 °C         • during storage         -55 +80 °C         relative humidity 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       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       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 +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       11,8g / 5 ms, 7,4g / 10 ms         mechanical service life (operating cycles)       10 000 000         • of contactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       5 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         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	shock resistance at rectangular impulse	
• at AC11,8g / 5 ms, 7,4g / 10 msmechanical service life (operating cycles)0• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009Ambient 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 %maximum95 %	• at AC	7,5g / 5 ms, 4,7g / 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	shock resistance with sine pulse	
<ul> <li>of contactor typical</li> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor typical</li> <li>of the conditions</li> <li>auxiliary states</li> <li>of the conditions</li> <li>auxiliary states</li> <li>of the conditions</li> <li>auxiliary states</li> <li>auxiliary states</li> <li>auxiliary states</li> <li>auxiliary states</li> <li>auxilia</li></ul>	• at AC	11,8g / 5 ms, 7,4g / 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>-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 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       400 m	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       95 %         Main circuit       95 %	during operation	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30     95 %       Main circuit     95 %	during storage	-55 +80 °C
maximum Main circuit	relative humidity minimum	10 %
		95 %
number of poles for main current circuit 3	Main circuit	
	number of poles for main current circuit	3

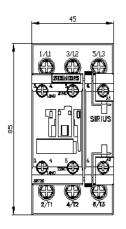
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	40 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	40 A
— up to 690 V at ambient temperature 60 °C rated	35 A
value	
• at AC-3	
— at 400 V rated value	12 A
— at 500 V rated value	12 A
— at 690 V rated value	9 A
• at AC-3e	
— at 400 V rated value	12 A
— at 500 V rated value	12 A
— at 690 V rated value	9 A 10 5 A
at AC-4 at 400 V rated value	12.5 A
• at AC-5a up to 690 V rated value	35.2 A
<ul> <li>at AC-5b up to 400 V rated value</li> <li>at AC-6a</li> </ul>	9.9 A
	44.4.4
— up to 230 V for current peak value n=20 rated value	11.4 A 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>	11.3 A
— up to 690 V for current peak value n=20 rated value	9A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	7.6 A
— up to 400 V for current peak value n=30 rated value	7.6 A
— up to 500 V for current peak value n=30 rated value	7.6 A
— up to 690 V for current peak value n=30 rated value	7.6 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	5.5 A
at 690 V rated value	5.5 A
operational current	
• at 1 current path at DC-1	
— 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
• with 3 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	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>	

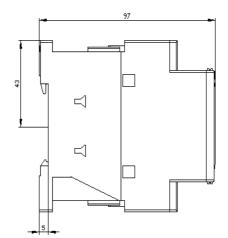
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V 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	5.5 kW
• at AC-3	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	2.6 kW
<ul> <li>at 690 V rated value</li> </ul>	4.6 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	4.5 kVA
<ul> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	7.8 kVA
<ul> <li>up to 230 V for current peak value n=20 rated value</li> <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>	7.8 kVA 9.8 kVA
<ul> <li>up to 230 V for current peak value n=20 rated value</li> <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> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	7.8 kVA
<ul> <li>up to 230 V for current peak value n=20 rated value</li> <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> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	7.8 kVA 9.8 kVA 10.7 kVA
<ul> <li>up to 230 V for current peak value n=20 rated value</li> <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> <li>up to 690 V for current peak value n=20 rated value</li> </ul> Operating apparent power at AC-6a <ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	7.8 kVA 9.8 kVA 10.7 kVA 3 kVA
<ul> <li>up to 230 V for current peak value n=20 rated value</li> <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> <li>up to 690 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <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>	7.8 kVA 9.8 kVA 10.7 kVA 3 kVA 5.2 kVA
<ul> <li>up to 230 V for current peak value n=20 rated value</li> <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> <li>up to 690 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <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> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	7.8 kVA 9.8 kVA 10.7 kVA 3 kVA 5.2 kVA 6.5 kVA
<ul> <li>up to 230 V for current peak value n=20 rated value</li> <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> <li>up to 690 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <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> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	7.8 kVA 9.8 kVA 10.7 kVA 3 kVA 5.2 kVA
<ul> <li>up to 230 V for current peak value n=20 rated value</li> <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> <li>up to 690 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <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> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	7.8 kVA 9.8 kVA 10.7 kVA 3 kVA 5.2 kVA 6.5 kVA
<ul> <li>up to 230 V for current peak value n=20 rated value</li> <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> <li>up to 690 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <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> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	7.8 kVA 9.8 kVA 10.7 kVA 3 kVA 5.2 kVA 6.5 kVA 9 kVA
<ul> <li>up to 230 V for current peak value n=20 rated value</li> <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> <li>up to 690 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <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> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	7.8 kVA 9.8 kVA 10.7 kVA 3 kVA 5.2 kVA 6.5 kVA 9 kVA 210 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>up to 230 V for current peak value n=20 rated value</li> <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> <li>up to 690 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <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> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	7.8 kVA 9.8 kVA 10.7 kVA 3 kVA 5.2 kVA 6.5 kVA 9 kVA 210 A; Use minimum cross-section acc. to AC-1 rated value 210 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>up to 230 V for current peak value n=20 rated value</li> <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> <li>up to 690 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <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> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	7.8 kVA 9.8 kVA 10.7 kVA 3 kVA 5.2 kVA 6.5 kVA 9 kVA 210 A; Use minimum cross-section acc. to AC-1 rated value 210 A; Use minimum cross-section acc. to AC-1 rated value 170 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>up to 230 V for current peak value n=20 rated value</li> <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> <li>up to 690 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <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> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	<ul> <li>7.8 kVA</li> <li>9.8 kVA</li> <li>10.7 kVA</li> <li>3 kVA</li> <li>5.2 kVA</li> <li>6.5 kVA</li> <li>9 kVA</li> </ul> 210 A; Use minimum cross-section acc. to AC-1 rated value 210 A; Use minimum cross-section acc. to AC-1 rated value 170 A; Use minimum cross-section acc. to AC-1 rated value 170 A; Use minimum cross-section acc. to AC-1 rated value 126 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>up to 230 V for current peak value n=20 rated value</li> <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> <li>up to 690 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <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> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for surrent peak value n=30 rated value</li> <li>up to 690 V for surrent peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for surrent peak value n=30 rated value</li> <li>up to 690 V for surrent peak value n=30 rated value</li> <li>up to 690 V for surrent peak value n=30 rated value</li> <li>up to 500 V for surrent peak value n=30 rated value</li> <li>up to 690 V for surrent peak value n=30 rated value</li> <li>up to 600 V for surrent peak value n=30 rated value</li> <li>up to 600 V for surrent peak value n=30 rated value</li> <li>up to 600 V for surrent peak value n=30 rated value</li> <li>up to 600 V for surrent peak value n=30 rated value</li> <li>up to 600 V for surrent peak value n=30 rated value</li> </ul>	7.8 kVA 9.8 kVA 10.7 kVA 3 kVA 5.2 kVA 6.5 kVA 9 kVA 210 A; Use minimum cross-section acc. to AC-1 rated value 210 A; Use minimum cross-section acc. to AC-1 rated value 170 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>up to 230 V for current peak value n=20 rated value</li> <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> <li>up to 690 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <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> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for surrent peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value n=30 rated value</li> <li>up to 690 V for current p</li></ul>	<ul> <li>7.8 kVA</li> <li>9.8 kVA</li> <li>10.7 kVA</li> <li>3 kVA</li> <li>5.2 kVA</li> <li>6.5 kVA</li> <li>9 kVA</li> </ul> 210 A; Use minimum cross-section acc. to AC-1 rated value 210 A; Use minimum cross-section acc. to AC-1 rated value 170 A; Use minimum cross-section acc. to AC-1 rated value 170 A; Use minimum cross-section acc. to AC-1 rated value 170 A; Use minimum cross-section acc. to AC-1 rated value 170 A; Use minimum cross-section acc. to AC-1 rated value 105 A; Use minimum cross-section acc. to AC-1 rated value 105 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>up to 230 V for current peak value n=20 rated value</li> <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> <li>up to 690 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <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> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <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 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> </ul>	<ul> <li>7.8 kVA</li> <li>9.8 kVA</li> <li>10.7 kVA</li> <li>3 kVA</li> <li>5.2 kVA</li> <li>6.5 kVA</li> <li>9 kVA</li> </ul> 210 A; Use minimum cross-section acc. to AC-1 rated value 210 A; Use minimum cross-section acc. to AC-1 rated value 170 A; Use minimum cross-section acc. to AC-1 rated value 170 A; Use minimum cross-section acc. to AC-1 rated value 126 A; Use minimum cross-section acc. to AC-1 rated value
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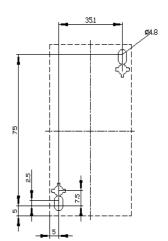
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type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	42 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
<ul> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> </ul>	65 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.82
apparent holding power of magnet coil at AC	
• at 50 Hz	7.6 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
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 110 V rated value	3 A
• at 125 V rated value	2 A
• at 220 V rated value	1 A
• at 600 V rated value	0.15 A
operational current at DC-13	
• at 24 V rated value	10 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• 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	11 A
● at 600 V rated value	11 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	2 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	7.5 hp
— at 575/600 V rated value	10 hp

contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
with type of coordination 1 required	gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)
— with type of assignment 2 required	gG: 25A (690V,100kA), aM: 22A (690V,100kA), BS88: 25A (415V,60kA)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	gg. 10 A (500 V, 1 KA)
	1/ 100° relation proceible on vertical mounting outforce can be tilted forward and
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	
Connections/ Terminals type of electrical connection	
	screw-type terminals
type of electrical connection	screw-type terminals screw-type terminals
type of electrical connection <ul> <li>for main current circuit</li> </ul>	
type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
<ul> <li>type of electrical connection</li> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> </ul>	screw-type terminals Screw-type terminals
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil	screw-type terminals Screw-type terminals
type of electrical connection         • for main current circuit         • for auxiliary and control circuit         • at contactor for auxiliary contacts         • of magnet coil         type of connectable conductor cross-sections for main contacts	screw-type terminals Screw-type terminals Screw-type terminals
type of electrical connection         • for main current circuit         • for auxiliary and control circuit         • at contactor for auxiliary contacts         • of magnet coil         type of connectable conductor cross-sections for main contacts         • solid	screw-type terminals Screw-type terminals Screw-type terminals 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )
type of electrical connection         • for main current circuit         • for auxiliary and control circuit         • at contactor for auxiliary contacts         • of magnet coil         type of connectable conductor cross-sections for main contacts         • solid         • solid or stranded	screw-type terminals Screw-type terminals Screw-type terminals 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )
type of electrical connection         • for main current circuit         • for auxiliary and control circuit         • at contactor for auxiliary contacts         • of magnet coil         type of connectable conductor cross-sections for main contacts         • solid         • solid or stranded         • finely stranded with core end processing	screw-type terminals Screw-type terminals Screw-type terminals 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )
type of electrical connection         • for main current circuit         • for auxiliary and control circuit         • at contactor for auxiliary contacts         • of magnet coil         type of connectable conductor cross-sections for main contacts         • solid         • solid or stranded         • finely stranded with core end processing         connectable conductor cross-section for main contacts	screw-type terminals Screw-type terminals Screw-type terminals 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup>
type of electrical connection         • for main current circuit         • for auxiliary and control circuit         • at contactor for auxiliary contacts         • of magnet coil         type of connectable conductor cross-sections for main contacts         • solid         • solid or stranded         • finely stranded with core end processing         connectable conductor cross-section for main contacts         • solid	screw-type terminals Screw-type terminals Screw-type terminals 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 1 10 mm <sup>2</sup>
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type of electrical connection         • for main current circuit         • for auxiliary and control circuit         • at contactor for auxiliary contacts         • of magnet coil         type of connectable conductor cross-sections for main contacts         • solid         • solid or stranded         • finely stranded with core end processing         connectable conductor cross-section for main contacts         • solid         • stranded         • finely stranded with core end processing         connectable conductor cross-section for main contacts         • solid         • stranded         • finely stranded with core end processing         connectable conductor cross-section for auxiliary contacts         • solid or stranded         • finely stranded with core end processing         type of connectable conductor cross-sections         • for auxiliary contacts         - solid or stranded         - finely stranded with core end processing         • for auxiliary contacts         - solid or stranded         - finely stranded with core end processing         • for AWG cables for auxiliary contacts         AWG number as coded connectable conductor cross section         • for main contacts	screw-type terminals Screw-type terminals 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 1 10 mm <sup>2</sup> 1 10 mm <sup>2</sup> 1 10 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14) 16 8
type of electrical connection         • for main current circuit         • for auxiliary and control circuit         • at contactor for auxiliary contacts         • of magnet coil         type of connectable conductor cross-sections for main contacts         • solid         • solid or stranded         • finely stranded with core end processing         connectable conductor cross-section for main contacts         • solid         • stranded         • finely stranded with core end processing         connectable conductor cross-section for auxiliary contacts         • solid         • stranded         • finely stranded with core end processing         connectable conductor cross-section for auxiliary contacts         • solid or stranded         • finely stranded with core end processing         type of connectable conductor cross-sections         • for auxiliary contacts         - solid or stranded         • for auxiliary contacts         - solid or stranded         - finely stranded with core end processing         • for AWG cables for auxiliary contacts         AWG number as coded connectable conductor cross section         • for main contacts         • for auxiliary contacts         • for auxiliary contacts	screw-type terminals Screw-type terminals 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 1 10 mm <sup>2</sup> 1 10 mm <sup>2</sup> 1 10 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14) 16 8
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type of electrical connection         • for main current circuit         • for auxiliary and control circuit         • at contactor for auxiliary contacts         • of magnet coil         type of connectable conductor cross-sections for main contacts         • solid         • solid or stranded         • finely stranded with core end processing         connectable conductor cross-section for main contacts         • solid         • stranded         • finely stranded with core end processing         connectable conductor cross-section for auxiliary contacts         • solid         • stranded         • finely stranded with core end processing         connectable conductor cross-section for auxiliary contacts         • solid or stranded         • finely stranded with core end processing         type of connectable conductor cross-sections         • for auxiliary contacts         - solid or stranded         - finely stranded with core end processing         • for auxiliary contacts         - solid or stranded         - finely stranded with core end processing         • for AWG cables for auxiliary contacts         AWG number as coded connectable conductor cross section         • for auxiliary contacts         • for auxili	screw-type terminals Screw-type terminals 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 1 10 mm <sup>2</sup> 1 10 mm <sup>2</sup> 1 10 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 15 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14) 16 8 20 14

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	nterval or service life acco		а		
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ertificates/ approvals		Te	.5		
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(SP)		<u>Confirmation</u>		KC	EAC
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