## SIEMENS

## Data sheet

## 3RT2018-1AV62



power contactor, AC-3e/AC-3, 16 A, 7.5 kW / 400 V, 3-pole, 480 V AC, 60 Hz, auxiliary contacts: 1 NC, screw terminal, size: S00

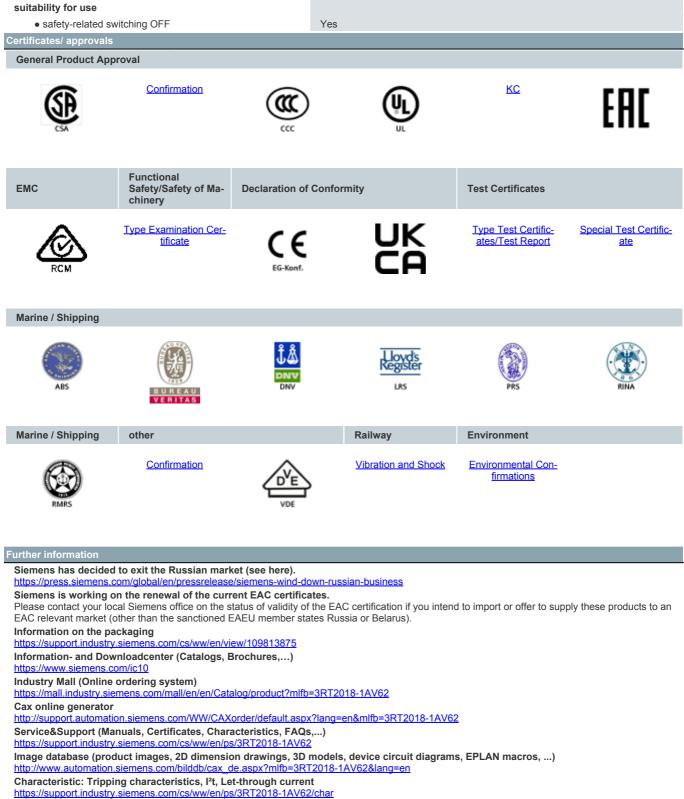
product brand name         SIRIUS           product bread designation         Power contactor           product type designation         SR12           Central technical dats         S00           size of contactor         S00           a contage states         S00           - function module for communication         No           - auxilary switch         Yes           power loss [W] for rated value of the current         3           - at AC in hot operating state         3           - at AC in hot operating state per pole         1           - of main incitul with degree of pollution 3 rated value         690 V           - of auxilary circuit rated value         64V           - of auxilary circuit rated value         7.3g / 5 ms. 4.7g / 10 ms           machinum permitsable values for protective separation betweet auxilary switch block typical         30000 000		
product type designation         3RT2           General technical data         Stop           general technical data         Stop           product extension         No           • function module for communication         No           • auxilary switch         Yes           power loss [W] for rated value of the current         3 W           • at AC in hot operating state         3 W           • at AC in hot operating state per pole         1 W           • without load current share typical         6.5 W           insulation ordtage         600 V           • of main circuit with degree of pollution 3 rated value         600 V           • of auxiliary circuit value         600 V           • of auxiliary circuit rated value         64V           • of canic rotate seconding to EN 00947.1         400 V           • of canicator typical         30 000 000           • of the contactor with added electonically optimized auxiliary swith block typical         1000 000 <t< th=""><td>product brand name</td><td>SIRIUS</td></t<>	product brand name	SIRIUS
General technical data     S00       size of contactor     S00       product extension     • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     3 W       • at AC in hot operating state     3 W       • at AC in hot operating state per pole     1 W       • without load current share typical     65 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 rated value     64 V       • of auxiliary circuit rated value     64 V       • of main circuit with degree of pollution 3 rated value     60 V       • of auxiliary circuit rated value     64 V       • of auxiliary circuit rated value     64 V       • of auxiliary circuit rated value     64 V       • at AC     7.3g / 5 ms, 4.7g / 10 ms       mechanical service life (operating cycles)     30 000 000       • of the contactor with added acteronically optimized auxiliary switch block typical     1000 000       • of the contactor with added acteronically optimized auxiliary switch block typical     10000 000       • of the contactor with added auxiliary switch block typical     10000 000       • of the contactor with added auxiliary switch block	product designation	Power contactor
size of contactor     S00       product extension     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     3 W       • at AC in hot operating state eprope     1 W       • without load current share typical     6.5 W       Insulation voltage     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of auxiliary circuit rated value     64V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit rated value     64V       • of main circuit rated value     64V       • of main circuit rated value     64V       • of auxiliary circuit rated value     64V       • of main circuit with degree of pollution 3 rated value     600 V       • of auxiliary circuit rated value     64V       • of auxiliary circuit rated value     64V       • of auxiliary circuit rated value     64V       • of auxiliary sitte blood to rates according to EN 60947-1     400 V       shock resistance with sine pulse     11,4g / 5 ms, 7,3g / 10 ms       mechanical service life (operating cycles)     5 000 000       • of the contactor with added electronically optimized     1	product type designation	3RT2
product extension     No       • function module for communication     No       • auxiliary switch     Yes       • at AC in hot operating state     3 W       • at AC in hot operating state prole     1 W       • withoot load current share typical     6.6 W       Insulation voltage     690 V       • of main circuit share typical     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit rated value     6 kV       • of anain circuit rated value     6 kV       • of main circuit rated value     6 kV       • of anaing cy circuit rated value     6 kV       • of anaing concircuit seconding to EN 60947-1     5000 V       • at AC     11,4g / 5 ms, 7.3g / 10 ms       • at AC     11,4g / 5 ms, 7.3g / 10 ms       • at AC     10 00000       • of the contactor with added electronically optimized auxiliary switch block typical     10 00000       • of the contactor with added electronically optimized auxiliary switch block typical     10 000000    <	General technical data	
• function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     -       • at AC in hot operating state     3 W       • at AC in hot operating state per pole     1 W       • without load current share typical     6.5 W       insulation voitage     600 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 atter dvalue     6 kV       • of main circuit rated value     6 kV       • of main circuit rated value     6 kV       • of auxiliary circuit rated value     10 kV       • of auxiliary circuit rated value     10 kV       • at AC     11,4g / 5 ms, 7,3g / 10 ms       shock resistance with sine pulse     30 000 000       • of the contactor which added auxiliary switch block typical     10 000 000       • of the contactor which added auxiliary switch block typical     10 000 000       reference	size of contactor	S00
• auxiliary switch     Yes       power loss [W] for rated value of the current     3       • at AC in hot operating state     3       • at AC in hot operating state per pole     1       • at AC in hot operating state per pole     1       • of main circuit state typical     6.5       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit rated value     690 V       • of main circuit rated value     64V       • of auxiliary circuit with degree of pollution 3 rated value     64V       • of fauxiliary circuit with degree of pollution 3 rated value     64V       • of auxiliary circuit with degree of pollution 3 rated value     64V       • of auxiliary circuit rated value     64V       • of auxiliary circuit rated value     64V       • of auxiliary circuit rated value     64V       maximum permissible voltage for protective separation between coli and main contacts according to EN 6097-1     400 V       shock resistance at rectangular impulse     11,4g / 5 ms, 7,3g / 10 ms       • at AC     7.3g / 5 ms, 7,3g / 10 ms       mechanical service life (operating cycles)     5000 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 typica	product extension	
power loss [W] for rated value of the current         3 W           • at AC in hot operating state per pole         1 W           • without load current share typical         6.5 W           insulation voltage         6.90 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 main circuit with degree of pollution 3 rated value         690 V           • of main circuit rated value         64 V           • of main circuit rated value         64 V           • of auxiliary circuit rated value         64 V           • at AC         7.3g / 5 ms, 4.7g / 10 ms           shock resistance with sine pulse         30 000 000           • 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 t	<ul> <li>function module for communication</li> </ul>	No
• at AC in hot operating state     3 W       • at AC in hot operating state per pole     1 W       • without load current share typical     65 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 kV       • of auxiliary circuit rated value     7.3g / 5 ms, 4.7g / 10 ms       shock resistance with sine pulse     11.4g / 5 ms, 7.3g / 10 ms       • at AC     11.4g / 5 ms, 7.3g / 10 ms       mechanical service life (operating cycles)     5 000 000       • of the contactor with added electronically optimized     10 000 000       • of the contactor with added electronically optimized     10 000 000       reference code according to IEC	auxiliary switch	Yes
• at AC in hot operating state per pole       1 W         • without load current share typical       6.5 W         Insulation voltage       6.5 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 auxiliary circuit rated value       6 kV         • of main circuit with degree of pollution 8 rated value       600 V         • of auxiliary circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • at AC       7,3g / 5 ms, 4,7g / 10 ms         • at AC       7,3g / 5 ms, 7,3g / 10 ms         • at AC       11,4g / 5 ms, 7,3g / 10 ms         • at AC       11,4g / 5 ms, 7,3g / 10 ms         • at AC       10 000 000         • of contactor typical       30 000 000         • 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 <tr< th=""><td>power loss [W] for rated value of the current</td><td></td></tr<>	power loss [W] for rated value of the current	
• without load current share typical       6.5 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 with degree of pollution 3 rated value       690 V         surge voltage resistance       6 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • at AC       7,3g / 5 ms, 4.7g / 10 ms         • at AC       11,4g / 5 ms, 7,3g / 10 ms         • of the contactor with added electronically optimized auxiliary switch block typical       30 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 001/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -55 +60 °C         • during storage <td><ul> <li>at AC in hot operating state</li> </ul></td> <td>3 W</td>	<ul> <li>at AC in hot operating state</li> </ul>	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       + at AC       7,3g / 5 ms, 4,7g / 10 ms         shock resistance with sine pulse       - 11.4g / 5 ms, 7,3g / 10 ms       11.4g / 5 ms, 7,3g / 10 ms         mechanical service life (operating cycles)       - 0 00000       - 0 fthe contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000       - 0 fthe contactor with added auxiliary switch block typical         • of the contactor with added selectronically optimized auxiliary switch block typical       10 000 000       - 0 fthe contactor with added auxiliary switch block typical <td< th=""><td><ul> <li>at AC in hot operating state per pole</li> </ul></td><td>1 W</td></td<>	<ul> <li>at AC in hot operating state per pole</li> </ul>	1 W
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     surge voltage resistance     of main circuit rated value     of auxiliary circuit rated value     of auxiliary circuit rated value     of kV     maximum permissible voltage for protective separation between     coll and main contacts according to EN 60947-1     shock resistance at rectangular impulse         at AC         7,3g / 5 ms, 4,7g / 10 ms     shock resistance with sine pulse         at AC         11,4g / 5 ms, 7,3g / 10 ms     shock resistance 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 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 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 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 with contactor with added auxiliary switch block typical         of the contactor with added auxiliary switch block typical         of with contactor with added auxiliary switch block typical         of with contactor with added auxiliary switch block         cou on the	<ul> <li>without load current share typical</li> </ul>	6.5 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         • of auxiliary circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • at AC       400 V         • at AC       7,3g / 5 ms, 4,7g / 10 ms         shock resistance with sine pulse       -         • at AC       11,4g / 5 ms, 7,3g / 10 ms         mechanical service life (operating cycles)       30 000 000         • of contactor typical       30 000 000         • 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       -25 +60 °C         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 t	insulation voltage	
surge voltage resistance       6 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       • at AC         • at AC       7,3g / 5 ms, 4,7g / 10 ms         shock resistance with sine pulse       • at AC         • at AC       11.4g / 5 ms, 7,3g / 10 ms         mechanical service life (operating cycles)       00 000         • of the contactor typical       30 000 000         • 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 EC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         ambient temperature       -25 +60 °C         • during sporage       -25 +60 °C         • during storage       -55 +80 °C         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main cincuit       40 %   <	<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
• of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       400 V         • at AC       7,3g / 5 ms, 4,7g / 10 ms         shock resistance with sine pulse       -         • at AC       11,4g / 5 ms, 7,3g / 10 ms         mechanical service life (operating cycles)       -         • of contactor typical       30 000 000         • 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)       100/12/2009         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 at 55 °C according to IEC 60068-2-30       95 %         maximum       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       7,3g / 5 ms, 4,7g / 10 ms         shock resistance with sine pulse       -         • at AC       11,4g / 5 ms, 7,3g / 10 ms         mechanical service life (operating cycles)       -         • of contactor typical       30 000 000         • 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         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 minimum       10 %         95 %       95 %	surge voltage resistance	
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse <ul> <li>at AC</li> <li>7,3g / 5 ms, 4,7g / 10 ms</li> </ul> shock resistance with sine pulse <ul> <li>at AC</li> <li>7,3g / 5 ms, 7,3g / 10 ms</li> <li>mechanical service life (operating cycles)             <ul> <li>of contactor typical</li> <li>30 000 000</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 othe contactor with added auxiliary switch block typical</li> <li>of othe contactor with added auxiliary switch block typical</li> <li>10/000 000</li> </ul> </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> </ul> <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> <li>95 %</li> </ul> </li>	<ul> <li>of main circuit rated value</li> </ul>	6 kV
coil and main contacts according to EN 60947-1       added according to EN 60947-1         shock resistance at rectangular impulse       7,3g / 5 ms, 4,7g / 10 ms         at AC       7,3g / 5 ms, 7,3g / 10 ms         shock resistance with sine pulse       11,4g / 5 ms, 7,3g / 10 ms         e at AC       11,4g / 5 ms, 7,3g / 10 ms         mechanical service life (operating cycles)       30 000 000         of contactor typical       30 000 000         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         oturing operation       -25 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit	<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
• at AC7,3g / 5 ms, 4,7g / 10 msshock resistance with sine pulse • at AC11,4g / 5 ms, 7,3g / 10 msmechanical service life (operating cycles) • of contactor typical30 000 000• of contactor typical30 000 000• of the contactor with added electronically optimized 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 000 000• of the contactor with added auxiliary switch block typical2000 m• of the contactor with added auxiliary switch block typical2000 m• of the contactor with added auxiliary switch block typical2000 m• of the contactor with added auxiliary switch block typical2000 m• of the contactor with added auxiliary switch block typical2000 m• attribution altitude at height above sea level maximum2 000 m• attribution altitude at height above sea level maximum2 000 m• attribution altitude at height above sea level maximum2 000 m• attribution altitude at height above sea level maximum2 5 +60 °C• during operation-25 +60 °C• elative humidity at 55 °C according to IEC 60068-2-3095 %• Main circuit		400 V
shock resistance with sine pulse       11,4g / 5 ms, 7,3g / 10 ms         mechanical service life (operating cycles)       30 000 000         • of contactor typical       30 000 000         • 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 %	shock resistance at rectangular impulse	
• at AC11,4g / 5 ms, 7,3g / 10 msmechanical service life (operating cycles)30 000 000• of contactor typical30 000 000• of the contactor with added electronically optimized 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 000 000• 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 typical20 000 m• of the contactor with added auxiliary switch block typical2000 m• ambient conditions2 000 m• during operation • during storage-25 +60 °C• during storage-55 +80 °Crelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %	• at AC	7,3g / 5 ms, 4,7g / 10 ms
mechanical service life (operating cycles)     30 000 000       • of contactor typical     30 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     5 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       reference code according to IEC 81346-2     Q       Substance Prohibitance (Date)     10/01/2009       Ambient conditions     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	
• of contactor typical       30 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       5 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         installation 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	• at AC	11,4g / 5 ms, 7,3g / 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>-55 +80 °C</li> </ul> </li> <li>relative humidity minimum</li> <li>10 %</li> <li>gendation to IEC 60068-2-30</li> <li>maximum</li> </ul>	mechanical service life (operating cycles)	
auxiliary switch block typical       I0 000 000         • of the contactor with added auxiliary switch block typical       I0 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	<ul> <li>of contactor typical</li> </ul>	30 000 000
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       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 %	<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
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 %	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       -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       -25 +80 °C	installation altitude at height above sea level maximum	2 000 m
• during storage     -55 +80 °C       relative humidity minimum     10 %       relative humidity at 55 °C according to IEC 60068-2-30 maximum     95 %       Main circuit	ambient temperature	
relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %         Main circuit       95 %	during operation	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30       95 %         maximum       95 %         Main circuit       95 %	during storage	-55 +80 °C
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	22 A
value	
• at AC-1	
<ul> <li>— up to 690 V at ambient temperature 40 °C rated value</li> </ul>	22 A
— up to 690 V at ambient temperature 60 °C rated	20 A
value	
• at AC-3	
— at 400 V rated value	16 A
— at 500 V rated value	12.4 A
— at 690 V rated value	8.9 A
• at AC-3e	
— at 400 V rated value	16 A
— at 500 V rated value	12.4 A
— at 690 V rated value	8.9 A
• at AC-4 at 400 V rated value	11.5 A
at AC-5a up to 690 V rated value	19.4 A
• at AC-5b up to 400 V rated value	13.2 A
• at AC-6a	
<ul> <li>— up to 230 V for current peak value n=20 rated value</li> </ul>	9.6 A
<ul> <li>— up to 400 V for current peak value n=20 rated value</li> </ul>	9.6 A
<ul> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>	9.6 A
— up to 690 V for current peak value n=20 rated value	8.9 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	6.6 A
— up to 400 V for current peak value n=30 rated value	6.4 A
— up to 500 V for current peak value n=30 rated value	6.4 A
— up to 690 V for current peak value n=30 rated value	6.4 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	5.5 A
• at 690 V rated value	4.4 A
operational current	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	

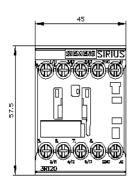
— at 24 V rated value	20 A
— at 60 V rated value	0.5 A
— at 110 V rated value	0.15 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 110 V rated value	0.35 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	1.5 A
— at 440 V rated value	0.2 A
— at 600 V rated value	0.2 A
operating power	
• at AC-2 at 400 V rated value	7.5 kW
• at AC-3	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	7.5 kW
operating power for approx. 200000 operating cycles at AC-	
4	
<ul> <li>at 400 V rated value</li> </ul>	2.5 kW
<ul> <li>at 690 V rated value</li> </ul>	3.5 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	3.8 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	6.6 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	8.3 kVA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	10.6 kVA
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	2.5 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	4.4 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	5.5 kVA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	7.6 kVA
short-time withstand current in cold operating state up to 40 $^{\circ}\mathrm{C}$	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	300 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	169 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	128 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	92 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	74 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 60 Hz rated value	480 V
	V VUT
operating range factor control supply voltage rated value of magnet coil at AC	
● at 60 Hz	0.85 1.1

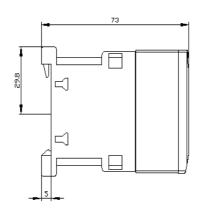
apparent pick-up power of magnet coil at AC	
• at 60 Hz	43 VA
inductive power factor with closing power of the coil	
• at 60 Hz	0.8
apparent holding power of magnet coil at AC	
• at 60 Hz	6.5 VA
inductive power factor with the holding power of the coil	
• at 60 Hz	0.25
closing delay	
• at AC	9 35 ms
opening delay	
• at AC	4 15 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
at 48 V rated value	6 A
<ul> <li>at 60 V rated value</li> </ul>	6 A
<ul> <li>at 110 V rated value</li> </ul>	3 A
<ul> <li>at 125 V rated value</li> </ul>	2 A
<ul> <li>at 220 V rated value</li> </ul>	1 A
<ul> <li>at 600 V rated value</li> </ul>	0.15 A
operational current at DC-13	
<ul> <li>at 24 V rated value</li> </ul>	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	14 A
• at 600 V rated value	11 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	1 hp
— at 230 V rated value	2 hp
• for 3-phase AC motor	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	5 hp
— at 460/480 V rated value	10 hp
— at 575/600 V rated value	10 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
- with type of coordination 1 required	gG: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80kA)
— with type of assignment 2 required	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)
• for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	

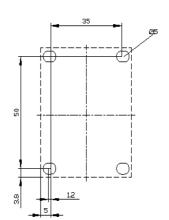
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
side-by-side mounting	Yes
height	58 mm
width	45 mm
depth	73 mm
required spacing	
with side-by-side mounting	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals
<ul> <li>of magnet coil</li> </ul>	Screw-type terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
<ul> <li>solid or stranded</li> </ul>	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
connectable conductor cross-section for main contacts	
• solid	0.5 4 mm²
• stranded	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 4 mm <sup>2</sup>
finely stranded with core end processing	0.5 2.5 mm <sup>2</sup>
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>
- finely stranded with core end processing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 2x 12
AWG number as coded connectable conductor cross section	
for main contacts	20 12
for auxiliary contacts	20 12
Safety related data	
product function	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	
with low demand rate according to SN 31920	40 %
with high demand rate according to SN 31920	73 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front

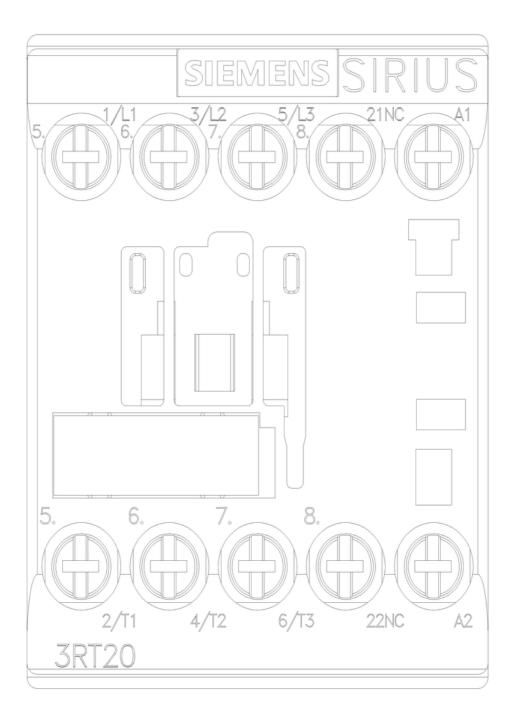


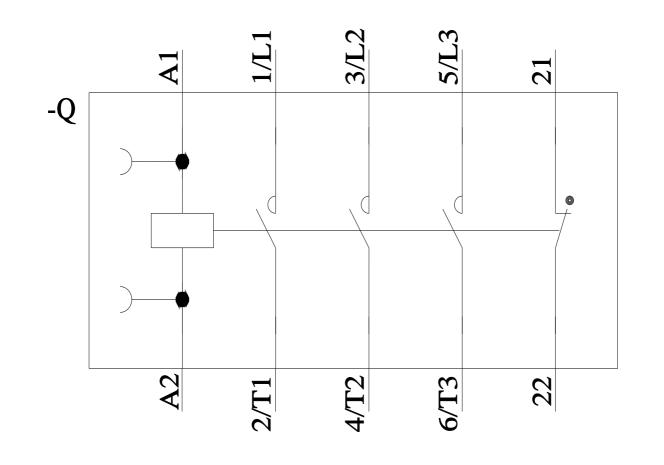
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2018-1AV62&objecttype=14&gridview=view1











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