## SIEMENS

## Data sheet

## 3RT2018-2AV01



power contactor, AC-3e/AC-3, 16 A, 7.5 kW / 400 V, 3-pole, 400 V AC, 50/60 Hz, auxiliary contacts: 1 NO, spring-loaded terminal, size: S00  $\,$ 

product brand name         SiRUIS           product type designation         9wer contactor           product type designation         SRT2           General technical data	Treed 1 kg //	
product type designation         3RT2           General technical data         Solo           General technical data         Solo           gize of contactor         Solo           product extension         No           • function module for communication         No           • auxilary switch         Yes           power loss (W) for rated value of the current         SW           • at AC in hot operating state         SW           • at AC in hot operating state per pole         1W           • without load current share typical         5.7 W           insulator voltage         690 V           • of main forcult with degree of pollution 3 rated value         690 V           • of main forcult rated value         680 V           • of auxiliary circuit rated value         680 V           • of auxiliary circuit rated value         6kV           • of auxiliary circuit rated value         6kV           • at AC         100 V           • at AC         14g / 5 ms, 4.7g / 10 ms           • at AC         14g / 5 ms, 7.3g / 10 ms           • of contactor typical         5000 000           • of the contactor with adde descrinolarily optimized auxilary switch block typical         1000 0000           • of the contactor with addeed auxilary switch b	product brand name	SIRIUS
Concrait tochnical data     S00       size of contactor     S00       product extension     No       • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     • at AC in hot operating state       • at AC in hot operating state projel     1 W       • without load current share typical     57 W       insulation voltage     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit rated value     680 V       • of main circuit rated value     64 V       • of auxiliary circuit with degree of pollution 3 rated value     640 V       • of auxiliary circuit rated value     64 V       • of auxiliary circuit rated value     500 V       • at AC     7.3g / 5 ms, 4.7g / 10 ms       mechanical service life (operating cycles)     5000 000       • of the contactor with added auxiliary switch block typical     5000 000       • of the contactor with added auxiliary switch block typical     1000 000       • of the contactor with added auxiliary switch block typical     10000 000	product designation	Power contactor
size of contactor     S00       product extension     No       • ducklary switch     Yes       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     5.7 W       insulation voltage     690 V       • of main circult with degree of pollution 3 rated value     690 V       • of main circult with degree of pollution 3 rated value     690 V       • of main circult with degree of pollution 3 rated value     690 V       • of main circult with degree of pollution 3 rated value     690 V       • of main circult with degree of pollution 3 rated value     690 V       • of main circult with degree of pollution 3 rated value     690 V       • of auxiliary circult rated value     6 kV       • of main circult with degree of pollution 3 rated value     600 V       • of auxiliary circult rated value     6 kV       • of auxiliary circult rated value     6 kV       • of auxiliary switch block typical     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     30 000 00       • of the contactor with added auxiliary switch block typical <th>product type designation</th> <th>3RT2</th>	product type designation	3RT2
product extension         No           • function module for communication         No           • auxillary 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         5.7 W           insulation voltage         690 V           • of main circut with degree of pollution 3 rated value         690 V           • of main circut rated value         690 V           • of main circut rated value         690 V           • of main circut rated value         64V           • of main circut rated value         64V           • of main circut rated value         64V           • of main contracts according to EN 60947-1         64V           • at AC         7,3g / 5 ms, 4,7g / 10 ms           • at AC         11.4g / 5 ms, 7,3g / 10 ms           mechanical service life (operating cycles)         30 000 000           • of the contactor with added electronically optimized         30 000 000           auxiliary switch block typical         1000 000           • of the contactor with added electronically optimized         00 00           auxiliary switch block typical         00 00	General technical data	
• function module for communication         No           • auxillary 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         5.7 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 rated value         6 kV           • of main circuit rated value         6 kV           • of auxiliary circuit rated value         0 x00 V           • at AC         11/4g / 5 ms, 7,3g / 10 ms <th>size of contactor</th> <th>S00</th>	size of contactor	S00
• auxiliary switch         Yes           power loss [W] for rated value of the current <ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>1W</li> <li>at AC in hot operating state per pole</li> <li>of main circuit with degree of pollution 3 rated value</li> <li>690 V</li> <li>of main circuit with degree of pollution 3 rated value</li> <li>690 V</li> <li>of main circuit rated value</li> <li>690 V</li> <li>of main circuit rated value</li> <li>64V</li> <li>of auxiliary or circuit rated value</li> <li>64V</li> <li>at AC</li> <li>not contage for protective separation between coll and main contracts according to EN 80947-1</li> <li>64 AC</li> <li>7.3g / 5 ms, 4.7g / 10 ms</li> </ul> <li>sthock resistance at rectangular impulse</li> <ul> <li>ot at AC</li></ul>	product extension	
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         5.7 W           insulation voltage         6.7 W         6.7 W           • of main circuit with degree of pollution 3 rated value         690 V         690 V           • of main circuit with degree of pollution 3 rated value         690 V         690 V           • of main circuit with degree of pollution 3 rated value         690 V         690 V           • of main circuit with degree of pollution 3 rated value         690 V         690 V           • of main circuit rated value         68 V         690 V           • of main circuit rated value         6 kV         6 kV           • of auxiliary circuit rated value         6 kV         6 kV           • of auxiliary circuit rated value         6 kV         6 kV           • of auxiliary circuit rated value         6 kV         6 kV           • of auxiliary circuit rated value         6 kV         6 kV           • at AC         7,3g / 5 ms, 4,7g / 10 ms         5 shock resistance at rectangular impulse           • at AC         11.4g / 5 ms, 7,3g / 10 ms         5 000 000           • of the contactor with added auxiliary switch block typical         10 000 000         2 000 00           • of	<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     5.7 W       insulation voltage     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit rated value     6 kV       • of auxiliary circuit rated value     6 kV       • at AC     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       • 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     2	auxiliary switch	Yes
• at AC in hot operating state per pole       1 W         • without load current share typical       5.7 W         insulation voltage       60 / 0         • of main circuit with degree of pollution 3 rated value       690 V         • of main circuit with degree of pollution 3 rated value       690 V         • of main circuit with degree of pollution 3 rated value       690 V         • of main circuit with degree of pollution 3 rated value       6 kV         • of main circuit with degree of pollution 3 rated value       6 kV         • of main circuit with degree of pollution 3 rated value       6 kV         • of main circuit with degree of pollution 3 rated value       6 kV         • of main circuit with degree of pollution 3 rated value       6 kV         • of main circuit with added source separation between coll and main contacts according to EN 60947-1       400 V         • 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         • of contactor 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       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the co	power loss [W] for rated value of the current	
• without load current share typical       5.7 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         out a main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       7,3g / 5 ms, 4,7g / 10 ms         • at AC       11,4g / 5 ms, 7,3g / 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 electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 001/2009         Ableint conditions       2 000 m         reference code according to IEC 81346-2       Q         during storage       -55 +60 °C         • during	<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         • of auxiliary circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       400 V         • at AC       7,3g / 5 ms, 4,7g / 10 ms         shock resistance with sine pulse       11,4g / 5 ms, 7,3g / 10 ms         • at AC       30 000 000         • of contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         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 %	<ul> <li>at AC in hot operating state per pole</li> </ul>	1 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     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 inpulse     7,3g / 5 ms, 4,7g / 10 ms       • at AC     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 auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     0 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       reference code according to EEC 81346-2     Q       Substance Prohibitance (Date)     2000 m       ambient temperature     -25 +60 °C       • during storage     -25 +60 °C       • during storage     -55 +60 °C       • during stor	<ul> <li>without load current share typical</li> </ul>	5.7 W
• of auxiliary circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       6 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       600 V         • of auxiliary circuit rated value       6 kV         • of auxiliary circuit rated value       600 V         • of auxiliary circuit rated value       600 V         • of auxiliary circuit rated value       600 V         • at AC       400 V         • at AC       11,4g / 5 ms, 7,3g / 10 ms         • at AC       11,4g / 5 ms, 7,3g / 10 ms         • 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         • of the contactor with added sectonically optimized auxiliary switch block typical       2000 m         • of the contactor with added sectonically optimized auxiliary switch block typical       2000 m         Installation attride ta height above	insulation voltage	
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         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)       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)       2000 m         ambient temperature       -         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit       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         • 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         • 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       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         • 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       0         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       0         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added electronically optimized auxiliary sw	<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       7,3g / 5 ms, 7,3g / 10 ms         • at AC       11,4g / 5 ms, 7,3g / 10 ms         mechanical service life (operating cycles)       11,4g / 5 ms, 7,3g / 10 ms         • 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         ambient temperature       -25 +60 °C         • during storage       -25 +60 °C         • during storage       55 % +80 °C         relative humidity at 55 °C according to IEC 60068-2-30       55 %         maximum       55 %	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       7,3g / 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         • 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         • 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 <ul> <li>at AC</li> <li>7,3g / 5 ms, 4,7g / 10 ms</li> </ul> shock resistance with sine pulse <ul></ul>	<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
• at AC7,3g / 5 ms, 4,7g / 10 msshock resistance with sine pulse11,4g / 5 ms, 7,3g / 10 ms• 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 typical0000 000reference code according to IEC 81346-2QQAmbient conditionsInstallation altitude at height above sea level maximum2 000 mambient temperature • during operation • during storage-25 +60 °C• felative humidity at 55 °C according to IEC 60068-2-30 maximum95 %		400 ∨
shock resistance with sine pulse       11,4g / 5 ms, 7,3g / 10 ms         mechanical service life (operating cycles)       30 000 000         o f contactor typical       30 000 000         o f the contactor with added electronically optimized auxiliary switch block typical       10 000 000         o f 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         o 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) • of contactor typical30 000 000• of contactor with added electronically optimized auxiliary switch block typical30 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 typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor with added auxiliary switch block typical0000 000• of the contactor during to the contactor with added auxiliary switch block typical0000 000• during operation • during storage-25 +60 °C• during storage-55 +80 °C• relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %• Main circuit	• 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         • 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	shock resistance with sine pulse	
• of contactor typical30 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature • during operation • during storage-25 +60 °C• during storage-55 +80 °Crelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %	• at AC	11,4g / 5 ms, 7,3g / 10 ms
• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature • during operation • during storage-25 +60 °C -55 +80 °Crelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %	mechanical service life (operating cycles)	
auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         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 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         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %         Main circuit	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum       2 000 m         ambient temperature <ul> <li>during operation</li> <li>-25 +60 °C</li> <li>during storage</li> <li>-55 +80 °C</li> </ul> relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %         Main circuit       4	Substance Prohibitance (Date)	10/01/2009
ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %         Main circuit	Ambient conditions	
• during operation     -25 +60 °C       • during storage     -55 +80 °C       relative humidity minimum     10 %       relative humidity at 55 °C according to IEC 60068-2-30 maximum     95 %	installation altitude at height above sea level maximum	2 000 m
	ambient temperature	
relative humidity minimum     10 %       relative humidity at 55 °C according to IEC 60068-2-30     95 %       Main circuit     95 %	during operation	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit	during storage	-55 +80 °C
maximum	relative humidity minimum	10 %
		95 %
number of poles for main current circuit 3	Main circuit	
	number of poles for main current circuit	3

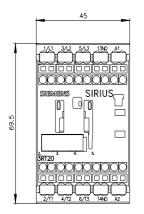
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	22 A
value	
• at AC-1	
<ul> <li>— up to 690 V at ambient temperature 40 °C rated 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>	

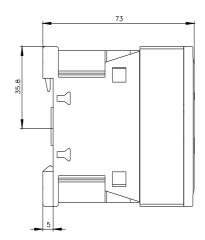
— at 24 V rated value	20 A
— at 60 V rated value	0.5 A
— at 110 V rated value	0.15 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 110 V rated value	0.35 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— 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 Ac-se     — 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-	7.5 KW
4	
• at 400 V rated value	2.5 kW
• at 690 V rated value	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
• up to 500 V for current peak value n=30 rated value	5.5 kVA
• up to 690 V for current peak value n=30 rated value	7.6 kVA
short-time withstand current in cold operating state up to	
40 °C	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	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	
	AC
type of voltage of the control supply voltage	
<ul> <li>control supply voltage at AC</li> <li>at 50 Hz rated value</li> </ul>	400 V
• at 60 Hz rated value	400 V
operating range factor control supply voltage rated value of magnet coil at AC	

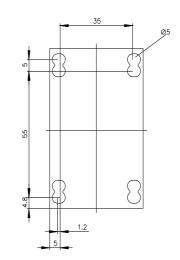
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	37 VA
• at 60 Hz	33 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	5.7 VA
• at 60 Hz	4.4 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
• 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 NO contacts for auxiliary contacts instantaneous	1
contact	
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	
<ul> <li>at 24 V rated value</li> </ul>	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)
JL/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	
non-encon protection	

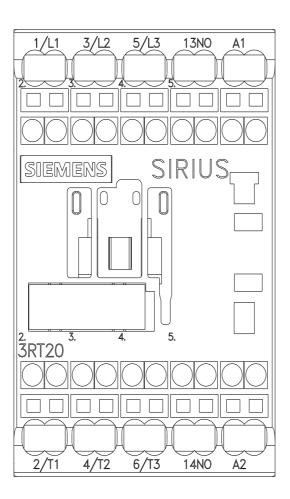
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80kA)
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
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	70 mm
width	45 mm
depth	73 mm
required spacing	
<ul> <li>with side-by-side mounting</li> </ul>	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	spring-loaded terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Spring-type terminals
of magnet coil	Spring-type terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (0.5 4 mm²)
<ul> <li>solid or stranded</li> </ul>	2x (0,5 4 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 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
<ul> <li>finely stranded without core end processing</li> </ul>	0.5 2.5 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
<ul> <li>finely stranded without core end processing</li> </ul>	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0,5 4 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm <sup>2</sup> )
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm <sup>2</sup> )
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 12)
AWG number as coded connectable conductor cross section	
• for main contacts	20 12
<ul> <li>for auxiliary contacts</li> </ul>	20 12
Safety related data	
product function	

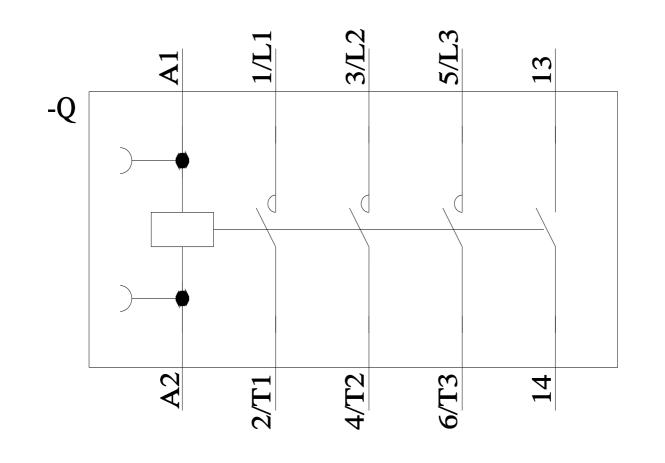
	ccording to IEC 60947-4-1		Yes; with 3RH29		
D I U Value with mun de	emand rate according to SN		1 000 000		
proportion of danger					
with low deman	d rate according to SN 319	20	40 %		
<ul> <li>with high deman</li> </ul>	nd rate according to SN 31	920	73 %		
failure rate [FIT] with lo	ow demand rate according	to SN 31920	100 FIT		
T1 value for proof test 61508	interval or service life acco	ording to IEC	20 a		
	n the front according to I	EC 60529	IP20		
	the front according to IEC		finger-safe, for vertical contact	from the front	
suitability for use					
<ul> <li>safety-related s</li> </ul>	witching OFF		Yes		
ertificates/ approvals	;				
General Product App	proval				
SP	<u>Confirmation</u>			KC	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Co	onformity	Test Certificates	
RCM	Type Examination Cer- tificate	UK CA	CE EG-Konf.	Special Test Certific- ate	Type Test Certific- ates/Test Report
Marine / Shipping	BUREAU VERITAS		Llovd's Register us	PRS	RINA
				Railway	Environment
Marine / Shipping	other				
Marine / Shipping	other Confirmation		<u>Confirmation</u>	Vibration and Shock	<u>Environmental Con-</u> <u>firmations</u>
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