# SIEMENS

#### Data sheet

### 3RT2026-2BB40



power contactor, AC-3e/AC-3, 25 A, 11 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO + 1 NC, spring-loaded terminal, size: S0

product brand name         SIRUS           product brand designation         Power contactor           size of contactor         S0           orradiat technical data         S0           size of contactor         S0           orradiat technical data         No           • function module for communication         No           • auxiliary switch         Yes           power loss [W] for rated value of the current         5.7 W           • at AC in hot operating state per pole         1.9 W           • without load current share typical         5.9 W           insultation voitage         690 V           • of main circuit with degree of pollution 3 rated value         690 V           • of auxiliary circuit rated value         600 V           • of auxiliary circuit rated value         600 V           • of auxiliary circuit rated value         600 V           • of auxiliary circuit rated value         100 V           • of auxiliary circuit rated value         100 V           • of auxiliary circuit rated value         10 00 V           • of the contactor with side pu	- alal	
product type designation         3RT2           General technical data	product brand name	SIRIUS
General technical data     S0       size of contactor     S0       product extension     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     5.7 W       • at AC in hot operating state     5.7 W       • at AC in hot operating state prole     1.9 W       • without load current share typical     5.9 W       Insulation voltage     680 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit with degree of pollution 3 rated value     64 V       • of main circuit rated value     64 V       • of auxillary circuit rated value     600 V       • at DC     10g / 5 ms, 7,5g / 10 ms       mechanical service life (operating cycles)     100 0000       • of the contactor with added electronically optimized auxillary switch block typical     1000 000       • of the contactor with added auxillary switch block typical     1000 000       • of the contactor with added auxillary switch block typical     1000 000       • of the contactor with added auxillary switch bloc	product designation	Power contactor
size of contactor     S0       product extension     • function module for communication     No       • auxilary switch     Yes       power loss [W] for rated value of the current     • at AC in hot operating state per pole     1.9 W       • at AC in hot operating state per pole     1.9 W       • without load current share typical     5.9 W       Insulation voltage     680 V       • of main circult with degree of pollution 3 rated value     690 V       surger voltage resistance     6 kV       • of main circult rated value     64 V       • of main circult with degree of pollution 3 rated value     600 V       surger voltage resistance     6 kV       • of main circult rated value     64 V       • of main circult rated value     6 kV       • of auxiliary circuit rated value     64 V       • of auxiliary circult rated value     64 V       • of auxiliary circult rated value     64 V       • of auxiliary surger polecitive separation between     10g / 5 ms, 7,5g / 10 ms       shock resistance with sine pulse     15g / 5 ms, 10g / 10 ms       mechanical service life (operating cycles)     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 electeronically optimized	product type designation	3RT2
product extension     incrition module for communication     No       • auxiliary switch     Yes       • auxiliary switch     Yes       • at AC in hot operating state     5.7 W       • at AC in hot operating state per pole     1.9 W       • without load current share typical     5.9 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 rated value     690 V       • of main circuit rated value     64 V       • of main circuit rated value     64 V       • of main circuit rated value     64 V       • of main contacts according to EN 00947-1     54 V       • at DC     10g / 5 ms, 7.5g / 10 ms       • at DC     10g / 5 ms, 7.5g / 10 ms       • at DC     15g / 5 ms, 10g / 10 ms       mechanical service life (operating cycles)     10000 000       • of the contactor with added electronically optimized auxiliary switch block typical     10000 000       • of the contactor with added auxiliary switch block typical     0 000       • of the contactor with added auxiliary switch block typical     0 000       • of the contactor with added auxiliary switch block typical     0 000       • of the contactor with added auxiliary switch block typical     0 000       • of the contactor with added auxiliary switch block typ	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     5.7 W       • at AC in hot operating state per pole     1.9 W     • without load current share typical     5.9 W       Insulation voltage     690 V     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     600 V       • of main circuit atted value     6 kV     6 kV       • of main circuit rated value     6 kV     6 kV       • 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       • of auxiliary circuit rated value     100 V     0 V       • at DC     10g / 5 ms, 7,5g / 10 ms     5 shock resistance with sine pulse       • at DC     15g / 5 ms, 10g / 10 ms     10 000 000       • of the contactor which added electronically optimized     5 000 000       auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typ	size of contactor	S0
• auxiliary switch         Yes           power loss [W] for rated value of the current         5.7 W           • at AC in hot operating state per pole         1.9 W           • at AC in hot operating state per pole         5.9 W           • without load current share typical         5.9 W           • of main circuit with degree of pollution 3 rated value         690 V           • of main circuit rated value         690 V           • of main circuit rated value         690 V           • of main circuit rated value         64 V           • of main circuit rated value         64 V           • of maxiliary circuit with degree of pollution 3 rated value         64 V           • of main circuit rated value         64 V           • of maxiliary circuit rated value         64 V           • of auxiliary circuit rated value         64 V           maximum permissible voltage for protective separation between col and main contacts according to EN 60947-1         100 / 5 ms, 7.5g / 10 ms           shock resistance with sine pulse         15g / 5 ms, 10g / 10 ms           • at DC         10g / 5 ms, 7.5g / 10 ms           • of contactor with added electronically optimized auxiliary switch block typical         10 000 000           • of the contactor with added electronically optimized auxiliary switch block typical         10 000 000           • of t	product extension	
power loss [W] for rated value of the current         5.7 W           • at AC in hot operating state         5.7 W           • at AC in hot operating state per pole         1.9 W           • without load current share typical         5.9 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 with degree of pollution 3 rated value         64 V           • of main circuit rated value         64 V           • of main circuit rated value         64 V           • of auxiliary circuit rated value         64 V           • at DC         10g / 5 ms, 7,5g / 10 ms           shock resistance with sine pulse         10g / 5 ms, 10g / 10 ms           • at DC         10g / 5 ms, 10g / 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 bl	<ul> <li>function module for communication</li> </ul>	No
• at AC in hot operating state prole       5.7 W         • at AC in hot operating state prole       1.9 W         • without load current share typical       5.9 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 with degree of pollution 3 rated value       690 V         • of auxiliary circuit rated value       6 kV         shock resistance at rectangular impulse       400 V         • at DC       10g / 5 ms, 7,5g / 10 ms         shock resistance with sine pulse       15g / 5 ms, 10g / 10 ms         • of ontactor typical       10 000 000         • of the contactor with added electronically optimized       2000 00         auxiliary switch block typical       10 000 000         • of the contactor with added electronically optimized       2000 m         auxiliary brobib	auxiliary switch	Yes
• at AC in hot operating state per pole       1.9 W         • without bad current share typical       5.9 W         insulation voltage       60 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         • at DC       10g / 5 ms, 7.5g / 10 ms         • at DC       15g / 5 ms, 10g / 10 ms         • at DC       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         • of the contactor with	power loss [W] for rated value of the current	
• without load current share typical       5.9 W         insuliation 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         maximum permissible voltage for protective separation between       400 V         coll and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       400 V         • at DC       10g / 5 ms, 7.5g / 10 ms         shock resistance with sine pulse       10g / 5 ms, 10g / 10 ms         • at DC       15g / 5 ms, 10g / 10 ms         • 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         • of the contactor with added auxiliary switch block typical       10 000 000         substance Prohibitance (Date)       2000 m         ambient conditions       <	<ul> <li>at AC in hot operating state</li> </ul>	5.7 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       400 V         • at DC       10g / 5 ms, 7,5g / 10 ms         shock resistance with sine pulse       15g / 5 ms, 10g / 10 ms         • at DC       100 00 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 8136-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient temperature       -         • during storage       -25 +60 °C	<ul> <li>at AC in hot operating state per pole</li> </ul>	1.9 W
• of main circuit with degree of pollution 3 rated value     690 V       • of auxiliary circuit with degree of pollution 3 rated value     690 V       surge voltage resistance     680 V       • of main circuit rated value     6 kV       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 DC     10g / 5 ms, 7,5g / 10 ms       shock resistance with sine pulse     -       • at DC     10g / 5 ms, 7,5g / 10 ms       shock resistance with sine pulse     -       • at DC     10g / 5 ms, 10g / 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       reference code according to IEC 81346-2     Q       Substance Prohibitance (Date)     2000 m       ambient temperature     -25 +60 °C       • during operation     -25 +60 °C       • during storage     -55 +60 °C       • during storage     -55 +60 °C       • elative humidity at 55 °C according to IEC 60068-2.30	<ul> <li>without load current share typical</li> </ul>	5.9 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 DC       400 V         • at DC       15g / 5 ms, 7,5g / 10 ms         • at DC       15g / 5 ms, 10g / 10 ms         • at DC       15g / 5 ms, 10g / 10 ms         • at DC       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         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10001/2009         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<	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       10g / 5 ms, 7,5g / 10 ms         • at DC       10g / 5 ms, 7,5g / 10 ms         shock resistance with sine pulse       15g / 5 ms, 10g / 10 ms         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %	<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
• of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • 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 DC       10g / 5 ms, 7,5g / 10 ms         shock resistance with sine pulse       10g / 5 ms, 10g / 10 ms         • at DC       15g / 5 ms, 10g / 10 ms         mechanical service life (operating cycles)       00000         • of the contactor vith 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       -55 +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 DC       10g / 5 ms, 7,5g / 10 ms         shock resistance with sine pulse       10g / 5 ms, 7,5g / 10 ms         • at DC       15g / 5 ms, 10g / 10 ms         mechanical service life (operating cycles)       000000         • 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         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 DC</li> <li>tog / 5 ms, 7,5g / 10 ms</li> </ul> shock resistance with sine pulse <ul> <li>at DC</li> <li>tog / 5 ms, 7,5g / 10 ms</li> </ul> mechanical service life (operating cycles) <ul> <li>of contactor typical</li> <li>tog / 5 ms, 10g / 10 ms</li> </ul> of the contactor with added electronically optimized auxiliary switch block typical <li>tog 0000</li> 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 <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         shock resistance at rectangular impulse         • at DC       10g / 5 ms, 7,5g / 10 ms         shock resistance with sine pulse         • at DC       15g / 5 ms, 10g / 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       2000 m         ambient temperature       -25 +60 °C         • during operation       -25 +80 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         maximum       95 %	<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
• at DC       10g / 5 ms, 7,5g / 10 ms         shock resistance with sine pulse       15g / 5 ms, 10g / 10 ms         • at DC       15g / 5 ms, 10g / 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       10 %		400 V
shock resistance with sine pulse       15g / 5 ms, 10g / 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	shock resistance at rectangular impulse	
• at DC15g / 5 ms, 10g / 10 msmechanical service life (operating cycles) • of contactor typical10 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 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 m• during operation • during operation • during storage-25 +60 °C• during storage relative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %	• at DC	10g / 5 ms, 7,5g / 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	shock resistance with sine pulse	
• 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 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 DC	15g / 5 ms, 10g / 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>maximum</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 %         Main circuit       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 %         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	25 A
— at 500 V rated value	18 A
— at 690 V rated value	13 A
• at AC-3e	
— at 400 V rated value	25 A
— at 500 V rated value	18 A
— at 690 V rated value	13 A
• at AC-4 at 400 V rated value	15.5 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>	20.7 A
	20.2 A
— up to 230 V for current peak value n=20 rated value	
<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>	20.2 A 20.2 A
— up to 690 V for current peak value n=20 rated value	12.9 A
at AC-6a	12.9 A
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	13.5 A
— up to 200 V for current peak value n=30 rated value	13.5 A
— up to 500 V for current peak value n=30 rated value	13.5 A
— up to 690 V for current peak value n=30 rated value	13 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	9 A
at 690 V rated value	9A
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
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	

- A 110 V relative25 Å- A 120 V relative0.99 Å at 60 V relative0.99 Å at 60 V relative0.99 Å at 60 V relative35 Å at 60 V relative35 Å at 60 V relative15 Å at 60 V relative15 Å at 60 V relative16 Å at 720 V relative16 Å	— at 24 V rated value	20 A				
	— at 110 V rated value	2.5 A				
	— at 220 V rated value	1 A				
• with 2 current paths landics at DC-3 at DC-3S- at 24 V riad value35 A- at 10 V riad value15 A- at 20 V riad value027 A- at 20 V riad value027 A- at 400 V riad value05 A- at 400 V riad value05 A- at 400 V riad value05 A- at 400 V riad value06 A- at 400 V riad value05 A- at 400 V riad value55 KW- at 400 V riad value11 KW- at 400 V riad value55 KW- at 400 V riad value11 KW- at 400 V riad value55 KW- at 400 V riad value55 KW- at 400 V riad value13 KW- at 400 V riad value55 KW- at 400 V riad value50 KW- at 400 V riad value50 KW- at 400 V riad value70 KW- at 400 V	— at 440 V rated value	0.09 A				
	— at 600 V rated value	0.06 A				
- a r80 V rated value56 Å- at 110 V rated value15 Å- at 220 V rated value027 Å- at 440 V rated value027 Å- at 440 V rated value05 Å- at 420 V rated value55 Å- at 420 V rated value55 Å- at 420 V rated value05 Å- at 420 V rated value05 Å- at 420 V rated value06 Å- at 420 V rated value05 Å- at 420 V rated value05 Å- at 420 V rated value16 Å- at 420 V rated value16 Å- at 420 V rated value16 Å- at 420 V rated value55 Å- at 420 V rated value16 Å- at 420 V rated value18 Å <trr>- at 420 V rat</trr>	<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>					
- ait 10 V rate value15Å- ait 20V rate value00- ait 30V rate value016A- ait 30V rate value05A- ait 30V rate value35A- ait 30V rate value35A- ait 30V rate value35A- ait 30V rate value36A- ait 30V rate value35K- ait 30V rate value35K- ait 30V rate value35K- ait 30V rate value11 KW- ait 30V rate value35K- ait 30V rate value35K- ait 40V rate value11 KW- ait 30V rate value35K- ait 40V rate value11 KW- ait 30V rate value35K- ait 40V rate value35K- ait 40V rate value11 KW- ait 40V rate value35K- ait 40V rate value35K- ait 40V rate value35K- ait 40V rate value35K- ait 40V for carent pask value n-20 rate value35K- ait 40V for carent pask value n-20 rate value35K- ait 40V rate value - 30 rate value35K- ait 40V rate value - 30 rate value35K- ait 40V for carent pask value n-30 rate value35K- ait 40V for carent pask value n-30 rate value35	— 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				
• with 3 current paths in series at DC-3 at DC-59- at 24 V rated value35 A- at 100 V rated value35 A- at 100 V rated value36 A- at 220 V rated value0 A- at 220 V rated value0.6 A- at 230 V rated value0.6 A- at 230 V rated value5 KW- at 230 V rated value5 KW- at 230 V rated value1 KW- at 230 V rated value5 KW- at 400 V rated value1 KW- at 230 V rated value1 KW- at 340 V rated value5 KW- at 400 V rated value1 KW- at 340 V rated value5 KW- at 340 V rated value1 KW- at 340 V rated value5 KW- at 340 V rated value1 KW- at 340 V rated value1 KW- at 340 V rated value1 KW- at 340 V rated value5 KW- at 340 V rated value1 KW- at 340 V rated value5 KW- at 340 V rated value1 KW- at 340 V rated value5 KW- at 340 V rated value5 KW- at 340 V rated value3 KW- at 340 V rated value3 KW- at 340 V rated value3 SW- at 340 V rated value3 SW <trr>- at 340 V rated value3 SW</trr>	— at 440 V rated value	0.27 A				
- al 24 V raied value35 Å- al 100 V rated value35 Å- al 220 V rated value36 Å- al 220 V rated value10 Å- al 420 V rated value0.6 Å- al 420 V rated value0.6 Å- al 420 V rated value5.5 kW- al 420 V rated value11 kW- al 430 V rated value5.5 kW- al 400 V rated value11 kW- al 400 V rated value11 kW- al 600 V rated value12 kW- al 600 V rated value13 kW- al 600 V rated value5.5 kW- al 600 V rated value = 20 rated value8.4 kW- al 600 V rated value = 20 rated value8.4 kW- al 600 V rated value = 20 rated value8.4 kW- al 600 V rated value = 20 rated value8.4 kW- al 600 V rated value = 30 rated value9.3 kW- al 600 V rated value = 30 rated value9.3 kW- al 600 V rated value = 30 rated value9.3 kW- al 600 V rated value = 30 rated value9.3 kW- al 600 V rated value = 30 rated value9.3	— 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 110 V rated value35 Å- at 220 V rated value10 A- at 220 V rated value0.6 A- at 600 V rated value0.6 A- at 620 V rated value5.5 W- at 620 V rated value11 W- at 620 V rated value11 W- at 630 V rated value12 W- at 630 V rated value14 W- at 630 V rated value13 W- at 630 V rated value ne20 rated value13 W- at 630 V for current pack value ne20 rated value13 W- at 630 V for current pack value ne20 rated value13 W- at 630 V for current pack value ne20 rated value15 W- at 630 V for current pack value ne20 rated value15 W- at 630 V for current pack value ne20 rated value15 W- at 630 V for current pack value ne20 rated value15 W	— 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				
operating power <ul> <li>at AC-3</li> <li>at 220 V rated value</li> <li>at 400 V rated value</li> <li>at 400 V rated value</li> <li>at 400 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at AC-3e</li> <li>at AC-3e</li> <li>at 230 V rated value</li> <li>bt W</li> <li>at AC-3e</li> <li>at 200 V rated value</li> <li>bt W</li> <li>at AC-3e</li> <li>at 200 V rated value</li> <li>bt W</li> <li>at AC-3e</li> <li>at 400 V rated value</li> <li>bt W</li> <li>at 600 V rated value</li> <li>bt W</li> <li>bt 600 V for current peak value n=20 rated value</li> <li>bt W</li> <li>bt b 500 V for current peak value n=20 rated value</li> <li>ft 54 KVA</li> <li>bt b 100 V for current peak value n=30 rated value</li> <li>ft 54 KVA</li> <li>bt b 100 V for current peak value n=30 rated value</li> <li>ft 64 VA</li> <li>bt b 000 V for current peak value n=30 rated value</li> <li>ft 64 VA</li> <li>bt b 000 V for current peak value n=30 rated value</li> <li>ft 64 VA</li> <li>bt b 000 V for current peak value n=30 rated value</li> <li>ft 64 VA</li> <li>bt 000 V for current pe</li></ul>	— at 440 V rated value	0.6 A				
• at AC-3S 5 kW at 230 V rated value11 kW- at 600 V rated value11 kW- at 600 V rated value11 kW- at 600 V rated value11 kW- at 230 V rated value55 kW- at 230 V rated value55 kW- at 230 V rated value11 kW- at 600 V rated value44 kW- at 600 V rated value7.7 kWoperating paper for approx. 200000 operating cycles at AC-68• up to 230 V for current paek value n=20 rated value8.9 kVA• up to 500 V for current paek value n=20 rated value15.4 kVA• up to 500 V for current paek value n=20 rated value15.4 kVA• up to 230 V for current paek value n=30 rated value5.3 kVA• up to 230 V for current paek value n=30 rated value9.3 kVA• up to 500 V for current paek value n=30 rated value15.5 kVA• up to 500 V for current paek value n=30 rated value15.5 kVA• up to 500 V for current paek value n=30 rated value15.5 kVA• up to 500 V for current paek value n=30 rated value15.5 kVA• up to 500 V for current paek value n=30 rated value15.5 kVA• up to 500 V for current paek value n=30 rated value15.5 kVA• up to 500 V for current paek value n=30 rated value15.5 kVA• unot 600 S switching at zero curr	— at 600 V rated value	0.6 A				
	operating power					
at 500 V rated value11 kW at 500 V rated value11 kW• at AC-3a55 kW at 230 V rated value55 kW at 400 V rated value11 kW at 500 V rated value11 kW at 500 V rated value11 kW at 500 V rated value11 kW at 600 V rated value11 kW at 600 V rated value4.4 kW at 600 V rated value4.4 kW at 600 V rated value7.7 kWoperating apparent power at AC-5a8 kVA up to 230 V for current peak value n=20 rated value13.9 kVA up to 230 V for current peak value n=20 rated value15.4 kVA up to 530 V for current peak value n=20 rated value15.4 kVA up to 630 V for current peak value n=20 rated value15.4 kVA up to 630 V for current peak value n=20 rated value15.4 kVA up to 630 V for current peak value n=30 rated value3.5 kVA up to 630 V for current peak value n=30 rated value3.5 kVA up to 630 V for current peak value n=30 rated value11.6 kVA up to 630 V for current peak value n=30 rated value30.4 kVA up to 630 V for current peak value n=30 rated value11.6 kVA up to 630 V for current peak value n=30 rated value11.6 kVA up to 630 V for current peak value n=30 rated value11.6 kVA up to 630 V for current peak value n=30 rated value11.6 kVA up to 630 V for current peak value n=30 rated value11.6 kVA up to 630 V for current peak value n=30 rated value13.0 kVA	— at 230 V rated value	5.5 kW				
	— at 400 V rated value	11 kW				
• eta AC-3e at 230 V rated value5.5 kW at 400 V rated value11 kW at 600 V rated value11 kW at 600 V rated value11 kW at 600 V rated value11 kW- at 600 V rated value7.1 kW- at 600 V rated value7.7 kW- at 600 V rated value5.3 kVA- operating paperent power at AC-6a up to 230 V for current peak value n=20 rated value13.9 kVA- up to 500 V for current peak value n=20 rated value15.4 kVA- up to 500 V for current peak value n=20 rated value15.4 kVA- up to 500 V for current peak value n=20 rated value15.4 kVA- up to 500 V for current peak value n=20 rated value15.4 kVA- up to 500 V for current peak value n=30 rated value5.3 kVA- up to 500 V for current peak value n=30 rated value9.3 kVA- up to 500 V for current peak value n=30 rated value15.4 kVA- up to 500 V for current peak value n=30 rated value375 A; Use minimum cross-section acc. to AC-1 rated value- up to 500 V for current peak value n=30 rated value300 A; Use minimum cross-section acc. to AC-1 rated value- up to 500 V for current maximum300 A; Use minimum cross-section acc. to AC-1 rated value- at DC- at AC-3 maximum- at DC- at AC-4 maximum- at AC-4 maximum1000 t/h- at AC-4 maximum1000 t/h- at AC-3 maximum750 t/h- at AC-3 maximum750 t/h- at AC-4 maximum750 t/h- at AC-4 maximum750	— at 500 V rated value	11 kW				
	— at 690 V rated value	11 kW				
at 400 V rated value11 kW at 500 V rated value11 kW at 680 V rated value11 kW at 680 V rated value11 kW at 680 V rated value11 kW at 400 V rated value4.4 kW at 400 V rated value4.4 kW at 680 V rated value7.7 kW operating apparent power at AC-6a8 kVA up to 230 V for current peak value n=20 rated value8 kVA up to 500 V for current peak value n=20 rated value13.9 kVA up to 500 V for current peak value n=20 rated value15.4 kVA up to 500 V for current peak value n=20 rated value15.4 kVA up to 230 V for current peak value n=30 rated value3.8 kVA up to 230 V for current peak value n=30 rated value15.4 kVA up to 500 V for current peak value n=30 rated value11.6 kVA up to 500 V for current peak value n=30 rated value11.6 kVA up to 500 V for current peak value n=30 rated value11.6 kVA up to 500 V for current peak value n=30 rated value11.6 kVA up to 500 V for current peak value n=30 rated value10.6 kVA up to 500 V for current peak value n=30 rated value11.6 kVA up to 500 V for current peak value n=30 rated value10.6 kVA up to 500 V for current peak value n=30 rated value10.6 kVA up to 500 V for current peak value n=30 rated value10.6 kVA up to 500 V for current peak value n=30 rated value10.6 kVA up to 500 V for current peak value n=30 rated value10.6 kVA limited	• at AC-3e					
at 500 V rated value       11 kW         at 680 V rated value       11 kW         operating power for approx. 20000 operating cycles at AC- 4       4         • at 400 V rated value       4.4 kW         • at 690 V rated value       4.4 kW         • at 690 V rated value       7.7 kW         operating apparent power at AC-6a       8 kVA         • up to 230 V for current peak value n=20 rated value       13.9 kVA         • up to 500 V for current peak value n=20 rated value       15.4 kVA         • up to 500 V for current peak value n=20 rated value       15.4 kVA         • up to 500 V for current peak value n=30 rated value       5.3 kVA         • up to 500 V for current peak value n=30 rated value       15.5 kVA         • up to 500 V for current peak value n=30 rated value       15.5 kVA         • up to 500 V for current peak value n=30 rated value       15.5 kVA         • up to 500 V for current peak value n=30 rated value       300 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 1 s switching at zero current maximum       305 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       140.4 Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       140 A; Use minimum cross-section acc. to AC-1 rated value         •	— at 230 V rated value	5.5 kW				
at 890 V rated value       11 kW         operating power for approx. 200000 operating cycles at AC-4	— at 400 V rated value	11 kW				
operating power for approx. 20000 operating cycles at AC- 4         4           • at 400 V rated value         4.4 kW           • at 680 V rated value         7.7 kW           operating apparent power at AC-6a         8 kVA           • up to 230 V for current peak value n=20 rated value         8 kVA           • up to 500 V for current peak value n=20 rated value         13.9 kVA           • up to 500 V for current peak value n=20 rated value         17.4 kVA           • up to 690 V for current peak value n=20 rated value         5.3 kVA           • up to 400 V for current peak value n=30 rated value         5.3 kVA           • up to 500 V for current peak value n=30 rated value         9.3 kVA           • up to 500 V for current peak value n=30 rated value         15.5 kVA           • up to 500 V for current peak value n=30 rated value         15.5 kVA           • up to 500 V for current peak value n=30 rated value         15.5 kVA           • up to 500 V for current peak value n=30 rated value         15.5 kVA           • up to 500 V for current peak value n=30 rated value         10.6 kVA           • up to 500 V for current peak value n=30 rated value         10.6 kVA           • up to 500 V for current peak value n=30 rated value         11.6 kVA           • up to 500 V for current peak value n=30 rated value         10.6 kVA           • up to 500 V for current peak	— at 500 V rated value	11 kW				
• at 400 V rated value4.4 kW• at 600 V rated value7.7 kWoperating apparent power at AC-6a8 kVA• up to 230 V for current peak value n=20 rated value8 kVA• up to 500 V for current peak value n=20 rated value13.9 kVA• up to 500 V for current peak value n=20 rated value17.4 kVA• up to 690 V for current peak value n=20 rated value15.4 kVA• up to 690 V for current peak value n=20 rated value5.3 kVA• up to 230 V for current peak value n=30 rated value5.3 kVA• up to 230 V for current peak value n=30 rated value5.3 kVA• up to 500 V for current peak value n=30 rated value5.3 kVA• up to 500 V for current peak value n=30 rated value15.5 kVA• up to 500 V for current peak value n=30 rated value15.5 kVA• up to 500 V for current peak value n=30 rated value15.5 kVA• up to 500 V for current peak value n=30 rated value10.5 kVA• up to 500 V for current peak value n=30 rated value10.5 kVA• up to 500 V for current peak value n=30 rated value10.5 kVA• up to 500 V for current peak value n=30 rated value10.5 kVA• up to 500 V for current peak value n=30 rated value10.5 kVA• up to 500 V for current next maximum375 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum210 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum114 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum11	— at 690 V rated value	11 kW				
• at 400 V rated value4.4 kW• at 690 V rated value7.7 kWoperating apparent power at AC-6a• up to 230 V for current peak value n=20 rated value8 kVA• up to 500 V for current peak value n=20 rated value13.9 kVA• up to 500 V for current peak value n=20 rated value15.4 kVA• up to 690 V for current peak value n=20 rated value15.4 kVA• up to 690 V for current peak value n=30 rated value5.3 kVA• up to 500 V for current peak value n=30 rated value5.3 kVA• up to 500 V for current peak value n=30 rated value15.5 kVA• up to 500 V for current peak value n=30 rated value15.5 kVA• up to 690 V for current peak value n=30 rated value15.5 kVA• up to 690 V for current peak value n=30 rated value15.5 kVA• up to 690 V for current peak value n=30 rated value300 A; Use minimum cross-section acc. to AC-1 rated value• up to 690 V for current peak value n=30 rated value300 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum210 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum140 minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum140 k; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum140 k; Use minimum cross-section acc. to AC-1 rated value• at AC-1 maximum1000 1/h	operating power for approx. 200000 operating cycles at AC-					
• at 690 V rated value7.7 kWoperating apparent power at AC-6aV• up to 230 V for current peak value n=20 rated value8 kVA• up to 500 V for current peak value n=20 rated value13.9 kVA• up to 500 V for current peak value n=20 rated value17.4 kVA• up to 500 V for current peak value n=20 rated value15.4 kVAoperating apparent power at AC-6a-• up to 230 V for current peak value n=30 rated value5.3 kVA• up to 500 V for current peak value n=30 rated value9.3 kVA• up to 500 V for current peak value n=30 rated value11.6 kVA• up to 500 V for current peak value n=30 rated value15.5 kVA• up to 500 V for current peak value n=30 rated value15.5 kVA• up to 500 V for current peak value n=30 rated value300 A; Use minimum cross-section acc. to AC-1 rated value• up to 500 V for current peak value n=30 rated value300 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum300 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum150 1/h• at AC-3 maximum1000 1/						
operating apparent power at AC-6a         skVA           • up to 230 V for current peak value n=20 rated value         8 kVA           • up to 400 V for current peak value n=20 rated value         13.9 kVA           • up to 500 V for current peak value n=20 rated value         17.4 kVA           • up to 690 V for current peak value n=20 rated value         17.4 kVA           • up to 690 V for current peak value n=20 rated value         15.4 kVA           operating apparent power at AC-6a	• at 400 V rated value	4.4 kW				
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up to 500 V for current peak value n=20 rated value17.4 kVAup to 690 V for current peak value n=20 rated value15.4 kVAoperating apparent power at AC-6a	<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	8 kVA				
• up to 690 V for current peak value n=20 rated value15.4 kVAoperating apparent power at AC-6a-• up to 230 V for current peak value n=30 rated value5.3 kVA• up to 400 V for current peak value n=30 rated value9.3 kVA• up to 500 V for current peak value n=30 rated value11.6 kVA• up to 690 V for current peak value n=30 rated value15.5 kVAshort-time withstand current in cold operating state up to 400 K for switching at zero current maximum375 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum300 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum210 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated value• at DC• at AC-1 maximum• at AC-1 maximum1000 1/h• at AC-1 maximum1000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum520 1/h	<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	13.9 kVA				
operating apparent power at AC-6aSXVA• up to 230 V for current peak value n=30 rated value5.3 kVA• up to 400 V for current peak value n=30 rated value9.3 kVA• up to 500 V for current peak value n=30 rated value11.6 kVA• up to 690 V for current peak value n=30 rated value15.5 kVAshort-time withstand current in cold operating state up to 40°C375 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum300 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum210 A; Use minimum cross-section acc. to AC-1 rated value• limited to 3 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated value• limited to 6 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated value• limited to 6 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated value• limited to 6 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated value• limited to 6 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated value• limited to 6 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated value• at DC1500 1/h• at DC1500 1/h• at AC-1 maximum1000 1/h• at AC-1 maximum1000 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at	<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	17.4 kVA				
• up to 230 V for current peak value n=30 rated value5.3 kVA• up to 400 V for current peak value n=30 rated value9.3 kVA• up to 500 V for current peak value n=30 rated value11.6 kVA• up to 690 V for current peak value n=30 rated value15.5 kVAshort-time withstand current in cold operating state up to 40° C375 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum300 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum210 A; Use minimum cross-section acc. to AC-1 rated value• limited to 3 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated value• limited to 6 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated value• limited to 6 s switching at zero current maximum150 1/h• at DC1 500 1/h• at AC-1 maximum1000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum750 1/h• at AC-4 maximum750 1/h	<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	15.4 kVA				
up to 400 V for current peak value n=30 rated value9.3 kVAup to 500 V for current peak value n=30 rated value11.6 kVAup to 690 V for current peak value n=30 rated value15.5 kVAshort-time withstand current in cold operating state up to 40 °C375 A; Use minimum cross-section acc. to AC-1 rated valueilimited to 1 s switching at zero current maximum375 A; Use minimum cross-section acc. to AC-1 rated valueilimited to 5 s switching at zero current maximum300 A; Use minimum cross-section acc. to AC-1 rated valueilimited to 10 s switching at zero current maximum210 A; Use minimum cross-section acc. to AC-1 rated valueilimited to 30 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated valueilimited to 60 s switching at zero current maximum148 A; Use minimum cross-section acc. to AC-1 rated valueilimited to 60 s switching at zero current maximum148 A; Use minimum cross-section acc. to AC-1 rated valueilimited to 60 s switching at zero current maximum148 A; Use minimum cross-section acc. to AC-1 rated valueilimited to 60 s switching at zero current maximum150 1/horberating frequency1500 1/he at DC1000 1/hi at AC-1 maximum1000 1/hi at AC-2 maximum750 1/hi at AC-3 maximum750 1/hi at AC-3 maximum750 1/hi at AC-3 maximum750 1/hi at AC-4 maximum250 1/h	operating apparent power at AC-6a					
up to 500 V for current peak value n=30 rated value11.6 kVAup to 690 V for current peak value n=30 rated value15.5 kVAshort-time withstand current in cold operating state up to 40 °C375 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 1 s switching at zero current maximum300 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 10 s switching at zero current maximum300 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 10 s switching at zero current maximum210 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 30 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 60 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated valueoperating frequency1500 1/he at DC1500 1/hot AC-2 maximum1000 1/hat AC-3 maximum750 1/he at AC-3 maximum750 1/he at AC-3 maximum750 1/he at AC-3 maximum750 1/he at AC-4 maximum250 1/h	<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	5.3 kVA				
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short-time withstand current in cold operating state up to 40 °C375 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum300 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum210 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum210 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated value• at DC1 500 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h	<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	11.6 kVA				
40 °C• limited to 1 s switching at zero current maximum375 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum300 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum210 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated value• at DC1 500 1/h• at DC1 500 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h	• up to 690 V for current peak value n=30 rated value	15.5 kVA				
• limited to 1 s switching at zero current maximum375 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum300 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum210 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated value• at DC1 500 1/h• at AC-1 maximum1 500 1/h• at AC-2 maximum1 000 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h						
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Imited to 10 s switching at zero current maximum210 A; Use minimum cross-section acc. to AC-1 rated valueImited to 30 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated valueImited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated valueImited to 60 s switching frequency118 A; Use minimum cross-section acc. to AC-1 rated valueImited to 20 s switching frequency1 500 1/hImited to 20 s at AC-1 maximum1 500 1/hImited to 20 s at AC-1 maximum1 000 1/hImited to 20 s at AC-2 maximum750 1/hImited to 20 s at AC-3 maximum750 1/hImited to 20 s at AC-3 maximum750 1/hImited to 20 s at AC-3 maximum250 1/hImited to 20 s at AC-4 maximum250 1/h	-					
• limited to 30 s switching at zero current maximum144 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency118 A; Use minimum cross-section acc. to AC-1 rated value• at DC1 500 1/hoperating frequency1 500 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-4 maximum250 1/h	-					
• limited to 60 s switching at zero current maximum118 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency1• at DC1 500 1/hoperating frequency1• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 e maximum750 1/h• at AC-4 maximum250 1/h	-					
no-load switching frequency         1           • at DC         1         500 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-3e maximum         250 1/h         -	-					
• at DC         1 500 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-3e maximum         250 1/h		118 A; Use minimum cross-section acc. to AC-1 rated value				
operating frequency1 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-4 maximum250 1/h						
• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-4 maximum250 1/h		1 500 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						
• at AC-3 maximum       750 1/h         • at AC-3e maximum       750 1/h         • at AC-4 maximum       250 1/h	• at AC-1 maximum	1 000 1/h				
• at AC-3e maximum         750 1/h           • at AC-4 maximum         250 1/h	• at AC-2 maximum	750 1/h				
• at AC-4 maximum 250 1/h	• at AC-3 maximum	750 1/h				
	• at AC-3e maximum	750 1/h				
Control circuit/ Control		250 1/h				
	Control circuit/ Control					

type of voltage of the control supply voltage	DC
control supply voltage at DC	
rated value	24 V
operating range factor control supply voltage rated value of magnet coil at DC	
initial value	0.8
full-scale value	1.1
closing power of magnet coil at DC	5.9 W
holding power of magnet coil at DC	5.9 W
closing delay	
• at DC	50 170 ms
opening delay	
• at DC	15 18 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
<ul> <li>at 400 V rated value</li> </ul>	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
<ul> <li>at 48 V rated value</li> </ul>	6 A
<ul> <li>at 60 V rated value</li> </ul>	6 A
• at 110 V rated value	3 A
<ul> <li>at 125 V rated value</li> </ul>	2 A
<ul> <li>at 220 V rated value</li> </ul>	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
<ul> <li>at 60 V rated value</li> </ul>	2 A
<ul> <li>at 110 V rated value</li> </ul>	1 A
<ul> <li>at 125 V rated value</li> </ul>	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	21 A
at 600 V rated value	22 A
yielded mechanical performance [hp]	
for single-phase AC motor	0 hr
- at 110/120 V rated value	2 hp
- at 230 V rated value	3 hp
• for 3-phase AC motor	5 hr
- at 200/208 V rated value	5 hp
- at 220/230 V rated value	7.5 hp
- at 460/480 V rated value	15 hp
at 575/600 V rated value	20 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit 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: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 100 A (415 V, 80 kA)

#### - with type of assignment 2 required

• for short-circuit protection of the auxiliary switch required

gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (415V, 80kA) gG: 10 A (500 V, 1 kA)

Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and
factoring method	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 Yes
side-by-side mounting     height	102 mm
width	45 mm
depth	107 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	
for main current circuit	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
<ul> <li>of magnet coil</li> </ul>	Spring-type terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (1 10 mm²)
<ul> <li>solid or stranded</li> </ul>	2x (1 10 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 6 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (1 6 mm²)
connectable conductor cross-section for main contacts	
• solid	1 10 mm <sup>2</sup>
stranded	1 10 mm <sup>2</sup>
<ul> <li>finely stranded with core end processing</li> </ul>	1 6 mm²
<ul> <li>finely stranded without core end processing</li> </ul>	1 6 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 2.5 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 1.5 mm²
<ul> <li>finely stranded without core end processing</li> </ul>	0.5 2.5 mm²
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— solid or stranded	2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 14)
AWG number as coded connectable conductor cross section	
<ul> <li>for main contacts</li> </ul>	18 8
<ul> <li>for auxiliary contacts</li> </ul>	20 14
Safety related data	
product function	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes
suitability for use safety-related switching OFF	Yes
B10 value with high demand rate according to SN 31920	450 000

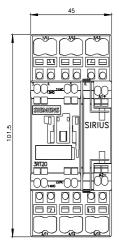
proportion of danger						
	d rate according to SN 319		40 %			
-	nd rate according to SN 319		73 %			
	w demand rate according		100 FIT			
61508	interval or service life acco	•	20 a			
-	n the front according to I		IP20			
•	he front according to IEC	60529	finger-safe, f	or vertical contact	from the front	
Certificates/ approvals		_		_		
General Product App	oroval					
(SP)		<u>Confirmatic</u>	n	Ű	KC	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of	Conformity		Test Certificates	
RCM	<u>Type Examination Cer-</u> tificate	UK CA		CE EG-Konf.	Type Test Certific- ates/Test Report	Special Test Certific- ate
Test Certificates	Marine / Shipping					
<u>Miscellaneous</u>	ABS	BUREAU VERITAS			Lloyd's Register	PRS
Marine / Shipping		other			Railway	Dangerous Good
RINA	RARS	<u>Confirmatic</u>	<u>n</u>	DE VDE	<u>Vibration and Shock</u>	Transport Information
Environment						
Environmental Con- firmations						
Further information						
	I to exit the Russian mark	ket (see here).				
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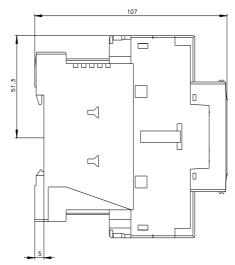
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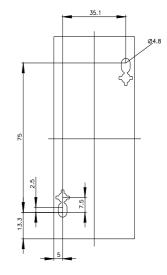
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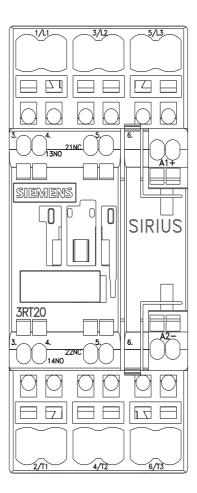
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

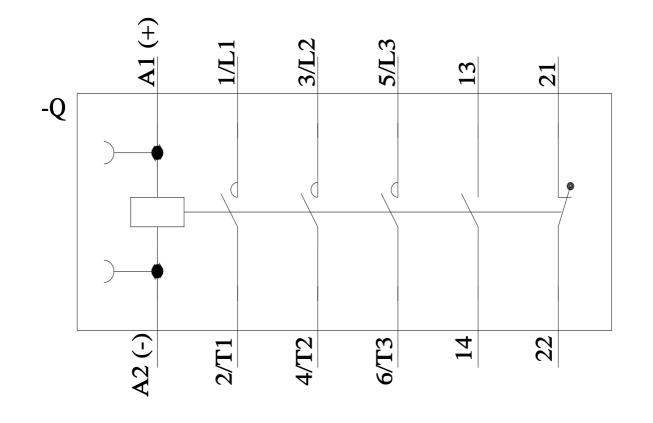
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