## SIEMENS

## Data sheet

## 3RT2045-1AC20



power contactor, AC-3e/AC-3, 80 A, 37 kW / 400 V, 3-pole, 24 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S3  $\,$ 

product brand name         SIRUS           product brand designation         90wer contactor           product type designation         SRT2           contractor         S3           size of contactor         S3           product extension         No           • function module for communication         No           • auxiliary switch         Yes           power loss [V] for rated value of the current         5.3 W           • at AC in hot operaing state per pole         5.3 W           • at AC in hot operaing state per pole         5.3 W           • without load current share typical         25 W           insultation voltage         1000 V           • of auxiliary circuit with degree of pollution 3 rated value         690 V           • of auxiliary circuit rated value         8 kV           • of auxiliary circuit rated value         10.3g / 5 ms, 6.g / 10 ms           shock resistance at rectangular impulse         10.3g / 5 ms, 10 g / 10 ms	6/1	
product type designation         3RT2           General technical data	product brand name	SIRIUS
General technical data     S3       size of contactor     S3       product extension     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 prole     5.3 W       • without load current share typical     1000 V       • of main circuit with degree of pollution 3 rated value     000 V       • of main circuit with degree of pollution 3 rated value     8 kV       • of auxiliary circuit rated value     600 V       • stack cestance at rectangular impulse     10.3g / 5 ms, 6, g / 10 ms       • at AC     16.3g / 5 ms, 10. g / 10 ms       mechanical service life (operating cycles)     10 000 000       • of the contactor with added actennically optimized auxiliary switch block typical     10 000 000       • of the contactor with added actennically optimized auxiliary switch block typical     10 000 000       • of the contactor with added actennically optimized auxiliary switch block typical     10 000 000       • of the contactor with added actennically optimized auxiliary switch block typical     10 000 000       • of the contactor with added actennically optimiz	product designation	Power contactor
size of contactor     §3       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     5.3 W       • at AC in hot operating state per pole     5.3 W       • of main circult with degree of pollution 3 rated value     1000 V       • of main circult with degree of pollution 3 rated value     690 V       surger voltage resistance     8 kV       • of main circult with degree of pollution 3 rated value     690 V       surger voltage resistance     6 kV       • of main circult with degree of pollution 3 rated value     690 V       surger voltage resistance     6 kV       • of main circult with degree of pollution 3 rated value     690 V       surger voltage resistance     6 kV       • of main circult with degree of pollution 4 rated value     6 kV       maximum permissible voltage for protective separation between collards main contacts according to EN 60947-1     600 V       shock resistance with sine pulse     10.3g / 5 ms, 6.g / 10 ms       e at AC     16.3g / 5 ms, 10.g / 10 ms       mechanical service life (operating cycles)     0 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     10000 000       reference code according to EEC 81346-2     Q           Su	product type designation	3RT2
product extension     incidion module for communication     No       • auxiliary switch     Yes       • auxiliary switch     Yes       • at AC in hot operating state     15.9 W       • at AC in hot operating state per pole     5.3 W       • without load current share typical     25 W       • of main circuit with degree of pollution 3 rated value     1000 V       • of main circuit with degree of pollution 3 rated value     600 V       • of main circuit rated value     8 kV       • 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       • shock resistance at rectangular impulse     64 V       • at AC     10.3g / 5 ms, 6, g / 10 ms       • at AC     10.3g / 5 ms, 10.g / 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 auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     0 00 000       • of the contactor with added auxiliary switch block typical     0 00 000       • of the contactor with added auxiliary switch block typical     0 00 000       • of the contactor with added auxiliary switch block	General technical data	
• function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     5.9 W       • at AC in hot operating state     15.9 W       • at AC in hot operating state per pole     5.3 W       • of main circuit with degree of pollution 3 rated value     1000 V       • of main circuit with degree of pollution 3 rated value     600 V       • of main circuit with degree of pollution 3 rated value     800 V       • of main circuit and value     8 kV       • of main circuit rated value     6 kV       • of main circuit rated value     8 kV       • of main circuit rated value     6 kV       • of auxiliary circuit rated value     6 kV       • of auxiliary circuit rated value     10.3g / 5 ms, 6, g / 10 ms       • shock resistance at rectangular impulse     10 000 000       • at AC     16.3g / 5 ms, 10.g / 10 ms       • at AC     10 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added electronically	size of contactor	S3
• auxiliary switch         Yes           power loss [W] for rated value of the current         5.9 W           • at AC in hot operating state per pole         5.3 W           • at AC in hot operating state per pole         5.3 W           • without load current share typical         25 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         68 V           • of main circuit rated value         6 kV           • of auxiliary circuit with degree of pollution 3 rated value         6 kV           • of main circuit rated value         6 kV           • of auxiliary circuit with degree of pollution 3 rated value         6 kV           • of auxiliary circuit rated value         8 kV           • of auxiliary circuit rated value         8 kV           • at AC         10.3g / 5 ms, 6, g / 10 ms           shock resistance with sine pulse         10.000 000           • at AC         10.3g / 5 ms, 10, g / 10 ms           mechanical service life (operating cycles)         10 000 000           • of ontactor typical         10 000 000           • of the contactor with added electronically optimized auxiliary switch block typical         10 000 000           • of the contactor with added electro	product extension	
power loss [W] for rated value of the current         15.9 W           • at AC in hot operating state per pole         5.3 W           • without load current share typical         25 W           insulation voltage         000 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         8 kV           • of auxiliary circuit rated value         680 V           • at AC         10.3g / 5 ms, 6.g / 10 ms           shock resistance at rectangular impulse         630 V           • at AC         10.3g / 5 ms, 10.g / 10 ms           mechanical service life (operating cycles)         10 000 000           • of the contactor with added auxiliary switch block typical         10 000 000           • of the contactor with added auxiliary switch block typical         10 000 000           • of the contactor with added auxiliary switch block typical         0 000 00	<ul> <li>function module for communication</li> </ul>	No
• at AC in hot operating state     15.9 W       • at AC in hot operating state price     5.3 W       • without load current share typical     25 W       insultation voltage     600 V       • of main circuit with degree of pollution 3 rated value     690 V       • of auxiliary circuit with degree of pollution 3 rated value     690 V       • of main circuit rated value     68V       • of auxiliary circuit rated value     6 kV       • of auxiliary strict block typical     600 V       • at AC     10.3g / 5 ms, 6, g / 10 ms       shock resistance with sine pulse     6 auxiliary strict block typical       • at AC     10 000 000       • of the contactor typical     10 000 000       • of the contactor with added electronically optimized     10 000 000       • of the contactor with added electronically optimized     0301/2017       Ambient conditions     2 000 m       installation	auxiliary switch	Yes
• at AC in hot operating state per pole       5.3 W         • without bad current share typical       25 W         insulation voltage       1000 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         • of auxiliary circuit rated value       8 kV         • of auxiliary circuit rated value       6 kV         maximum perniselse voltage for protective separation between coil and main contacts according to EN 60947-1       690 V         • at AC       10.3g / 5 ms, 6, g / 10 ms         • at AC       10.3g / 5 ms, 10.g / 10 ms         • at AC       16.3g / 5 ms, 10.g / 10 ms         • at AC       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         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       0	power loss [W] for rated value of the current	
• without load current share typical     25 W       insuliation voltage     1000 V       • of main circuit with degree of pollution 3 rated value     690 V       surge voltage resistance     690 V       • of main circuit rated value     6 kV       • of auxiliary circuit rated value     6 kV       • at AC     10.3g / 5 ms, 6.g / 10 ms       • at AC     16.3g / 5 ms, 10.g / 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     0 000 m       • of the contactor with added auxiliary switch block typical     0 000 000       • of the contactor with added auxiliary switch block typical     0 000 000       • of the contactor with addee auxiliary switch block typical     0 000 m       auxiliary sorrage     -55 +60 °C <th><ul> <li>at AC in hot operating state</li> </ul></th> <th>15.9 W</th>	<ul> <li>at AC in hot operating state</li> </ul>	15.9 W
insulation voltage <ul> <li>of main circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit rated value</li> <li>of auxiliary circuit rated value</li> <li>at AC</li> <li>at AC</li></ul>	<ul> <li>at AC in hot operating state per pole</li> </ul>	5.3 W
• of main circuit with degree of pollution 3 rated value     1 000 V       • of auxiliary circuit with degree of pollution 3 rated value     690 V       surge voltage resistance     8 kV       • of main circuit rated value     8 kV       • of auxiliary circuit rated value     6 kV       maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1     690 V       shock resistance at rectangular impulse     6       • at AC     10.3g / 5 ms, 6, g / 10 ms       shock resistance with sine pulse     1       • at AC     16.3g / 5 ms, 10.g / 10 ms       shock resistance with sine pulse     1       • at AC     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)     03/01/2017       Ambient conditions     -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     95 % </th <th><ul> <li>without load current share typical</li> </ul></th> <th>25 W</th>	<ul> <li>without load current share typical</li> </ul>	25 W
• of auxiliary circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       8 kV         • of main circuit rated value       8 kV         • of auxiliary circuit rated value       6 kV         maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1       690 V         shock resistance at rectangular impulse       690 V         • at AC       10.3g / 5 ms, 6, g / 10 ms         shock resistance with sine pulse       10.3g / 5 ms, 10.g / 10 ms         • at AC       16.3g / 5 ms, 10.g / 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         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       0301/2017         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         • during storage       -55 +60 °C         • during storage       5 %	insulation voltage	
surge voltage resistance       8 kV         • of main circuit rated value       8 kV         • of auxiliary circuit rated value       6 kV         maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1       690 V         shock resistance at rectangular impulse       630 V         • at AC       10.3g / 5 ms, 6g / 10 ms         shock resistance with sine pulse       16.3g / 5 ms, 10.g / 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         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       03/01/2017         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>	1 000 V
• of main circuit rated value       8 kV         • of auxiliary circuit rated value       6 kV         maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1       690 V         shock resistance at rectangular impulse       6         • at AC       10.3g / 5 ms, 6, g / 10 ms         shock resistance with sine pulse       16.3g / 5 ms, 10.g / 10 ms         • at AC       16.3g / 5 ms, 10.g / 10 ms         mechanical service life (operating cycles)       10 000 000         • of the contactor typical       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         • 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 typical       0 000 000         reference code according to IEC 81346-2       Q         gaitoria altrude at height above sea level maximum       2 000 m         ambient temperature       -         • dur	<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       690 V         shock resistance at rectangular impulse       600 V         • at AC       10.3g / 5 ms, 6g / 10 ms         shock resistance with sine pulse       -         • at AC       16.3g / 5 ms, 10.g / 10 ms         mechanical service life (operating cycles)       -         • of contactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       03/01/2017         Amblent conditions       2 000 m         ambient temperature       -25 +60 °C         • during storage       -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       690 V         shock resistance at rectangular impulse <ul> <li>at AC</li> <li>btock resistance with sine pulse</li> <li>at AC</li> <li>for contactor typical</li> <li>of contactor typical</li> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of othe contactor is a coording to IEC 81346-2</li> <li>Q</li> </ul> <li>Substance Prohibitance (Date)</li> <li>03/01/2017</li> <li>Ambient conditions</li> <li>installation altitude at height above sea level maximum</li> <li>auxing sorage</li> <li>-25 +60 °C</li> <li>elarity humidity minimum</li> <li>10 %</li> <li>95 %</li>	<ul> <li>of main circuit rated value</li> </ul>	8 kV
coil and main contacts according to EN 60947-1         shock resistance at rectangular impulse         • at AC       10.3g / 5 ms, 6g / 10 ms         shock resistance with sine pulse         • at AC       16.3g / 5 ms, 10.g / 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         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       03/01/2017         Ambient conditions       2000 m         ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit	<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
• at AC10.3g / 5 ms, 6.g / 10 msshock resistance with sine pulse		690 V
shock resistance with sine pulse       i6.3g / 5 ms, 10.g / 10 ms         mechanical service life (operating cycles)       i0.000 000         • 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)       03/01/2017         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 AC16.3g / 5 ms, 10.g / 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 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)03/01/2017Ambient conditions2 000 minstallation altitude at height above sea level maximum • during operation • during storage2 000 mrelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %	• at AC	10.3g / 5 ms, 6,.g / 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)       03/01/2017         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)03/01/2017Ambient 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 	• at AC	16.3g / 5 ms, 10.g / 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>03/01/2017</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)       03/01/2017         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)       03/01/2017         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)       03/01/2017         Ambient conditions       2000 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 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)	03/01/2017
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
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	1 000 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	1 000 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated</li> </ul>	125 A
value	
• at AC-1	
<ul> <li>— up to 690 V at ambient temperature 40 °C rated value</li> </ul>	125 A
— up to 690 V at ambient temperature 60 °C rated	105 A
value	
• at AC-3	
— at 400 V rated value	80 A
— at 500 V rated value	80 A
— at 690 V rated value	58 A
— at 1000 V rated value	30 A
• at AC-3e	
— at 400 V rated value	80 A
— at 500 V rated value	80 A
— at 690 V rated value	58 A
— at 1000 V rated value	30 A
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	66 A
• at AC-5a up to 690 V rated value	110 A
• at AC-5b up to 400 V rated value	80 A
● at AC-6a	
<ul> <li>— up to 230 V for current peak value n=20 rated value</li> </ul>	80 A
<ul> <li>— up to 400 V for current peak value n=20 rated value</li> </ul>	80 A
<ul> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>	80 A
<ul> <li>— up to 690 V for current peak value n=20 rated value</li> </ul>	58 A
● at AC-6a	
<ul> <li>— up to 230 V for current peak value n=30 rated value</li> </ul>	54 A
<ul> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>	54 A
<ul> <li>— up to 500 V for current peak value n=30 rated value</li> </ul>	54 A
<ul> <li>— up to 690 V for current peak value n=30 rated value</li> </ul>	54 A
minimum cross-section in main circuit at maximum AC-1 rated value	50 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	34 A
at 690 V rated value	24 A
operational current	27 A
at 1 current path at DC-1	
— at 24 V rated value	100 A
— at 60 V rated value	60 A
— at 110 V rated value	9 A
— at 220 V rated value	2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.4 A
with 2 current paths in series at DC-1	
- at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	100 A
— at 440 V rated value	1.8 A
— at 600 V rated value	1.8 4
with 3 current paths in series at DC-1	
- at 24 V rated value	100 A
	100 A
- at 60 V rated value	
- at 110 V rated value	100 A
— at 220 V rated value	80 A
— at 440 V rated value	4.5 A

— at 600 V rated value	2.6 A
at 1 current path at DC-3 at DC-5	
— at 24 V rated value	40 A
— at 60 V rated value	6 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.15 A
— at 600 V rated value	0.06 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	7 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.16 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	35 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.35 A
operating power	
• at AC-2 at 400 V rated value	37 kW
• at AC-3	
— at 230 V rated value	22 kW
— at 400 V rated value	37 kW
— at 500 V rated value	45 kW
— at 690 V rated value	55 kW
— at 1000 V rated value	37 kW
• at AC-3e	
— at 230 V rated value	22 kW
— at 400 V rated value	37 kW
— at 500 V rated value	45 kW
— at 690 V rated value	55 kW
— at 1000 V rated value	37 kW
operating power for approx. 200000 operating cycles at AC-	
4	47.0111/
• at 400 V rated value	17.9 kW
• at 690 V rated value	21.8 kW
operating apparent power at AC-6a	0411/4
• up to 230 V for current peak value n=20 rated value	31 kVA
• up to 400 V for current peak value n=20 rated value	55 kVA
• up to 500 V for current peak value n=20 rated value	69 kVA
• up to 690 V for current peak value n=20 rated value	69 kVA
operating apparent power at AC-6a	24 5 12/4
up to 230 V for current peak value n=30 rated value	21.5 kVA
up to 400 V for current peak value n=30 rated value	37.4 KVA
• up to 500 V for current peak value n=30 rated value	46.7 kVA
up to 690 V for current peak value n=30 rated value	64.5 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>	1 500 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	1 186 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 10 s switching at zero current maximum	851 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 30 s switching at zero current maximum	538 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 60 s switching at zero current maximum	423 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	900 1/h

• at AC-2 maximum	400 1/h
• at AC-3 maximum	1 000 1/h
• at AC-3e maximum	1 000 1/h
• at AC-4 maximum	300 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	24 V
• at 60 Hz rated value	24 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	348 VA
• at 60 Hz	296 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.62
• at 60 Hz	0.55
apparent holding power of magnet coil at AC	
• at 50 Hz	25 VA
• at 60 Hz	18 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.35
• at 60 Hz	0.41
closing delay	
• at AC	13 50 ms
opening delay	
• at AC	10 21 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact	1
Auxiliary circuit           number of NC contacts for auxiliary contacts instantaneous contact           number of NO contacts for auxiliary contacts instantaneous contact	1
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum	
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15	1 10 A
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value	1 10 A 6 A
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value	1 10 A 6 A 3 A
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value	1 10 A 6 A 3 A 2 A
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value	1 10 A 6 A 3 A
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value	1 10 A 6 A 3 A 2 A 1 A
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 690 V rated value         • at 690 V rated value         • at 48 V rated value         • at 48 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 440 V rated value         • at 690 V rated value         • at 690 V rated value         • at 690 V rated value         • at 60 V rated value         • at 48 V rated value         • at 48 V rated value         • at 60 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 24 V rated value         • at 48 V rated value         • at 60 V rated value         • at 410 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 48 V rated value         • at 48 V rated value         • at 48 V rated value         • at 40 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 690 V rated value         • at 690 V rated value         • at 48 V rated value         • at 48 V rated value         • at 400 V rated value         • at 220 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 48 V rated value         • at 24 V rated value         • at 48 V rated value         • at 400 V rated value         • at 250 V rated value         • at 24 V rated value         • at 24 V rated value         • at 25 V rated value         • at 110 V rated value         • at 220 V rated value         • at 220 V rated value         • at 200 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 24 V rated value         • at 48 V rated value         • at 400 V rated value         • at 25 V rated value         • at 110 V rated value         • at 220 V rated value         • at 220 V rated value         • at 220 V rated value         • at 25 V rated value         • at 220 V rated value         • at 220 V rated value         • at 600 V rated value         • at 600 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 1 A 0.15 A
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 48 V rated value         • at 40 V rated value         • at 24 V rated value         • at 250 V rated value         • at 24 V rated value         • at 25 V rated value         • at 110 V rated value         • at 220 V rated value         • at 220 V rated value         • at 220 V rated value         • at 600 V rated value         • at 600 V rated value         • at 220 V rated value         • at 24 V rated value         • at 24 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 48 V rated value         • at 48 V rated value         • at 48 V rated value         • at 10 V rated value         • at 125 V rated value         • at 220 V rated value         • at 600 V rated value         • at 220 V rated value         • at 600 V rated value         • at 48 V rated value         • at 24 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 1
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 48 V rated value         • at 48 V rated value         • at 40 V rated value         • at 690 V rated value         • at 690 V rated value         • at 490 V rated value         • at 490 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value         • at 24 V rated value         • at 25 V rated value         • at 125 V rated value         • at 600 V rated value         • at 600 V rated value         • at 24 V rated value         • at 24 V rated value         • at 24 V rated value         • at 48 V rated value         • at 48 V rated value         • at 24 V rated value         • at 48 V rated value         • at 48 V rated value         • at 48 V rated value         • at 60 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 1
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 400 V rated value         • at 20 V rated value         • at 21 V rated value         • at 110 V rated value         • at 220 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 48 V rated value         • at 24 V rated value         • at 24 V rated value         • at 24 V rated value         • at 48 V rated value      <	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 6 A 10
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 400 V rated value         • at 410 V rated value         • at 42 V rated value         • at 110 V rated value         • at 220 V rated value         • at 600 V rated value         • at 600 V rated value         • at 48 V rated value         • at 60 V rated value         • at 110 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 6 A 10
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 600 V rated value         • at 48 V rated value         • at 60 V rated value         • at 220 V rated value         • at 110 V rated value         • at 600 V rated value         • at 220 V rated value         • at 24 V rated value         • at 24 V rated value         • at 60 V rated value         • at 220 V rated value         • at 600 V rated value         • at 24 V rated value         • at 600 V rated value         • at 24 V rated value         • at 600 V rated value         • at 24 V rated value         • at 10 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 6 A 6 A 6 A 1 A 1 A 1 A 1 0 1
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 690 V rated value         • at 690 V rated value         • at 48 V rated value         • at 48 V rated value         • at 110 V rated value         • at 220 V rated value         • at 24 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value         • at 24 V rated value         • at 60 V rated value         • at 10 V rated value         • at 110 V rated value <t< td=""><td>1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 0.9 A 0.3 A 0.1 A</td></t<>	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 0.9 A 0.3 A 0.1 A
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 48 V rated value         • at 24 V rated value         • at 25 V rated value         • at 220 V rated value         • at 24 V rated value         • at 600 V rated value         • at 24 V rated value         • at 600 V rated value         • at 220 V rated value         • at 24 V rated value         • at 60 V rated value         • at 110 V rated value         • at 125 V rated value <t< td=""><td>1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 6 A 6 A 6 A 1 A 1 A 1 A 1 0 1</td></t<>	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 6 A 6 A 6 A 1 A 1 A 1 A 1 0 1
Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 690 V rated value         • at 690 V rated value         • at 48 V rated value         • at 48 V rated value         • at 110 V rated value         • at 220 V rated value         • at 24 V rated value         • at 24 V rated value         • at 220 V rated value         • at 600 V rated value         • at 24 V rated value         • at 60 V rated value         • at 10 V rated value         • at 110 V rated value <t< td=""><td>1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 1 A 0.15 A 1 A 0.9 A 0.3 A 0.1 A</td></t<>	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 1 A 0.15 A 1 A 0.9 A 0.3 A 0.1 A

	77 A
at 480 V rated value	77 A
tat 600 V rated value	62 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> <li>— at 110/120 V rated value</li> </ul>	7.5 hp
— at 230 V rated value	15 hp
• for 3-phase AC motor	10 lib
- at 200/208 V rated value	25 hp
- at 220/230 V rated value	30 hp
— at 460/480 V rated value	60 hp
— at 575/600 V rated value	60 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
— with type of coordination 1 required	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)
— with type of assignment 2 required	gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and
	backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
side-by-side mounting	Yes
height	140 mm
width depth	70 mm 152 mm
depth required spacing	132 11111
with side-by-side mounting	
- forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
• for live parts	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
Connections/ Terminals	
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals
<ul> <li>of magnet coil</li> </ul>	Screw-type terminals
type of connectable conductor cross-sections for main contacts	
finely stranded with core end processing	2x (2.5 35 mm²), 1x (2.5 50 mm²)
connectable conductor cross-section for main contacts	
• solid	2.5 16 mm <sup>2</sup>
• stranded	6 70 mm²
finely stranded with core end processing	2.5 50 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 2.5 mm <sup>2</sup>
finely stranded with core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts     colid or stranded	$2x (0.5 - 1.5 mm^2) 2x (0.75 - 2.5 mm^2)$
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)

— finely strar	nded with core end process	ing 2x (	0.5 1.5 mm²), 2x (0.75 .	2.5 mm²)	
-	for auxiliary contacts	•	20 16), 2x (18 14)		
	ed connectable conducto		20 10), 2x (10 11)		
<ul> <li>for main contact</li> </ul>	S	10	2		
<ul> <li>for auxiliary con</li> </ul>	tacts	20	14		
Safety related data					
product function					
<ul> <li>mirror contact a</li> </ul>	ccording to IEC 60947-4-1	Yes			
	operation according to IEC	C 60947-5-1 No			
suitability for use safet	y-related switching OFF	Yes			
B10 value with high de	emand rate according to SN	31920 1 00	00 000		
proportion of danger	ous failures				
<ul> <li>with low demand</li> </ul>	d rate according to SN 319	20 40 %	6		
<ul> <li>with high demar</li> </ul>	nd rate according to SN 319	920 73 %	6		
	ow demand rate according		FIT		
	interval or service life acco		1		
protection class IP of	n the front according to I	EC 60529 IP20	)		
touch protection on t	the front according to IEC	60529 finge	er-safe, for vertical contac	t from the front	
Certificates/ approvals					
CEA					CUL
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Confo	ormity	Test Certificates	
RCM	Type Examination Cer- tificate	CE EG-Konf.	UK CA	Special Test Certific- ate	Type Test Certific- ates/Test Report
Marine / Shipping					
ABS		Hoyd's Register urs	PRS	RINA	KMRS
other	Railway	Dangerous Good	Environment		

Further information	
Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business	
Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).	supply these products to an
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875	
Information- and Downloadcenter (Catalogs, Brochures,…) https://www.siemens.com/ic10	
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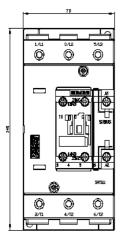
Indus https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2045-1AC20

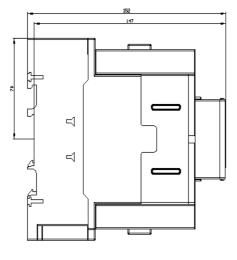
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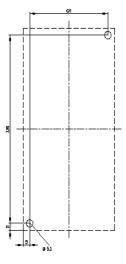
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2045-1AC20 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2045-1AC20 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2045-1AC20&lang=en Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2045-1AC20/char

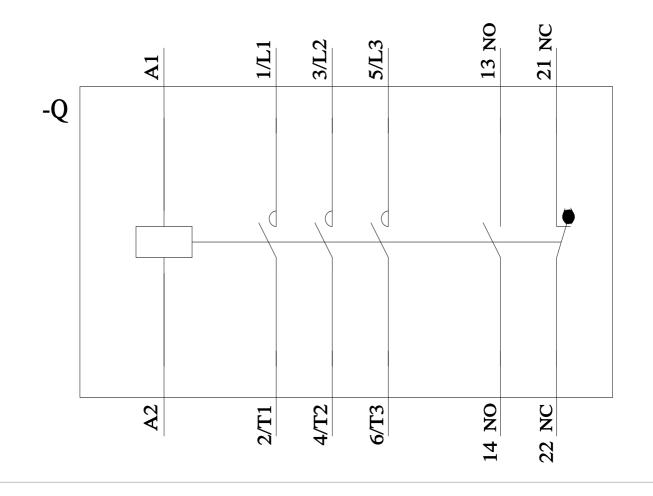
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2045-1AC20&objecttype=14&gridview=view1









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