## SIEMENS

## Data sheet

## 3RT2037-1AV00



power contactor, AC-3e/AC-3, 65 A, 30 kW / 400 V, 3-pole, 400 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2  $\,$ 

product brand name         SiRUS           product bis designation         9 ower contactor           product type designation         9812           Central tochnical data         52           product type designation         No           • function module for communication         No           • auxiliary switch         Yes           power loss [W] for rated value of the current         11.4 W           • at AC in hot operating state         11.4 W           • at AC in hot operating state per pole         3.8 W           • without load current share typical         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 auxiliary circuit with degree of pollution 3 rated value         600 V           • of auxiliary circuit rated value         64 V           • of canic current site pubset         63 V           • of canic current of (operating cycles) <th></th> <th></th>		
product type designation         3RT2           General technical data	product brand name	SIRIUS
General technical data     S2       size of contactor     S2       product extension     No       • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     • at AC in hot operating state       • at AC in hot operating state probe     3.8 W       • without load current share typical     6W       • 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     64 V       • of main circuit rated value     64 V       • of main circuit rated value     64 V       • of auxiliary circuit rated value     60 V       • of contactor with sine pulse     11.8g / 5 ms, 7.4g / 10 ms       • at AC     11.8g / 5 ms, 7.4g / 10 ms       mechanical sorvice life (operating cycles)     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	product designation	Power contactor
size of contactor     §2       product extension     No       • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     11.4 W       • at AC in hot operating state     11.4 W       • at AC in hot operating state per pole     3.8 W       • without load current share typical     6W       • of main circult 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     64V       • of main circuit rated value     64V       • of auxiliary solution [or EN 60947-1     400 V       shock resistance at rectangular impulse     11.8g / 5 ms, 7.4g / 10 ms       • at AC     11.8g / 5 ms, 7.4g / 10 ms       mechanical service life (operating cycles)     0 000 000       • of 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 ICE 61346-2     Q </th <th>product type designation</th> <th>3RT2</th>	product type designation	3RT2
product extension         No           • function module for communication         No           • auxiliary switch         Yes           power loss [W] for rated value of the current         114 W           • at AC in hot operating state         114 W           • at AC in hot operating state per pole         3.8 W           • without load current share typical         6 W           Insulation voltage         690 V           • of main circuit with degree of pollution 3 rated value         690 V           • of main circuit rated value         690 V           • of main circuit rated value         690 V           • of main circuit rated value         64V           • of and main contacts according to EN 60947-1         64V           • at AC         11.8g / 5 ms, 7.4g / 10 ms           • at AC         18.5g / 5 ms, 11.6g / 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 b	General technical data	
• function module for communication         No           • auxiliary switch         Yes           power loss [V] for rated value of the current         +           • at AC in hot operating state         11.4 VV           • at AC in hot operating state per pole         3.8 VV           • without load current share typical         6VV           insulation voltage         690 V           • of main circuit with degree of pollution 3 rated value         690 V           • of main circuit with degree of pollution 3 rated value         64V           • of main circuit ated value         64V           • of main circuit ated value         64V           • of auxiliary circuit rated value         180 V           • ot auxiliary switch block typical         10 000 000 <th>size of contactor</th> <th>S2</th>	size of contactor	S2
excillary switch         Yes           power loss [W] for rated value of the current         II.4 W           • at AC in hot operating state         11.4 W           • at AC in hot operating state per pole         3.8 W           • without load current share typical         6 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         6 kV           • of main circuit rated value         6 kV           • of main circuit rated value         6 kV           • of auxiliary orcuit rated value         6 kV           • of auxiliary orcuit rated value         6 kV           • at AC         11.8 g / 5 ms, 7.4 g / 10 ms           shock resistance at rectangular impulse         10 000 000           • at AC         11.8 g / 5 ms, 11.6 g / 10 ms           mechanical service life (operating cycles)         10 000 000           • of contactor 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	product extension	
power loss [W] for rated value of the current     Intervent       • at AC in hot operating state     11.4 W       • at AC in hot operating state prole     3.8 W       • without load current share typical     6 W       insulation voltage     6 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 auxiliary circuit with degree of pollution 3 rated value     690 V       • of main circuit rated value     6 kV       • of auxiliary circuit rated value     6 kV       • at AC     11.8g / 5 ms, 7.4g / 10 ms       shock resistance with sine pulse     11.8g / 5 ms, 7.4g / 10 ms       • at AC     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 accord	<ul> <li>function module for communication</li> </ul>	No
• at AC in hot operating state     11.4 W       • at AC in hot operating state per pole     3.8 W       • without load current share typical     6 W       insulation voltage     6 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       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit rated value     6 kV       • of auxiliary circuit rated value     6 kV       • at AC     11.8g / 5 ms, 7.4g / 10 ms       shock resistance with sine pulse     10 000 000       • 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 selectronically optimized auxiliary switch bl	<ul> <li>auxiliary switch</li> </ul>	Yes
• at AC in hot operating state per pole       3.8 W         • without load current share typical       6 W         insulation voltage       6 W         • of main circuit with degree of pollution 3 rated value       690 V         • of main circuit with degree of pollution 3 rated value       690 V         • of main circuit with degree of pollution 3 rated value       690 V         • of main circuit with degree of pollution 3 rated value       6 kV         • of main circuit rated value       6 kV         • of main circuit with degree of pollution 8 rated value       6 kV         • of main circuit with degree of pollution 8 rated value       6 kV         • of auxiliary circuit rated value       6 kV         • of and main contacts according to EN 60947-1       400 V         • at AC       11.8g / 5 ms, 7.4g / 10 ms         • et AC       18.5g / 5 ms, 11.6g / 10 ms         • of contactor 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	power loss [W] for rated value of the current	
• without load current share typical       6 W         Insulation voltage       690 V         • of main circuit with degree of pollution 3 rated value       690 V         • of auxiliary circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       6         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • at AC       11.8g / 5 ms, 7.4g / 10 ms         • at AC       18.5g / 5 ms, 11.6g / 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 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 addee electronicall	<ul> <li>at AC in hot operating state</li> </ul>	11.4 W
Insulation 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         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 coll and main contacts according to EN 60947-1       400 V         • at AC       11.8g / 5 ms, 7.4g / 10 ms         • at AC       18.5g / 5 ms, 11.6g / 10 ms         mechanical service life (operating cycles)       0         • of contactor hytical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         Ambient temeprature       -	<ul> <li>at AC in hot operating state per pole</li> </ul>	3.8 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 coll and main contacts according to EN 60847-1     400 V       shock resistance at rectangular impulse     400 V       • at AC     11.8g / 5 ms, 7.4g / 10 ms       shock resistance with sine pulse     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 suxiliary switch block typical     10 000 000       • of the contactor with added suxiliary switch block typical     10 000 000       reference code according to EEC 81346-2     Q       Substance Prohibitance (Date)     2000 m       ambient temperature     -25 +60 °C       • during storage     -25 +60 °C <t< th=""><td><ul> <li>without load current share typical</li> </ul></td><td>6 W</td></t<>	<ul> <li>without load current share typical</li> </ul>	6 W
• of auxiliary circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       6 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • at AC       400 V         • at AC       18.5g / 5 ms, 7.4g / 10 ms         • at AC       18.5g / 5 ms, 11.6g / 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         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       2 000 m         ambient conditions       2 000 m         • during operation       -25 +60 °C         • during storage       -55 +60 °C         • during storage       -55 +60 °C         • flative humidity at	insulation voltage	
surge voltage resistance       6 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       400 V         • at AC       11.8g / 5 ms, 7.4g / 10 ms         shock resistance with sine pulse       18.5g / 5 ms, 11.6g / 10 ms         • at AC       18.5g / 5 ms, 11.6g / 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         • 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 +80 °C         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit       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         • at AC       400 V         • at AC       11.8g / 5 ms, 7.4g / 10 ms         • at AC       18.5g / 5 ms, 11.6g / 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 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       10 000 000         • of the contactor with added auxiliary switch block typical       0 000 n         auxiliary sitch block typical       0 000 n         • of the contactor with added auxiliary switch block typical       0 000 n	<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
• of auxiliary circuit rated value       6 kV         maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       400 V         • at AC       11.8g / 5 ms, 7.4g / 10 ms         shock resistance with sine pulse       11.8g / 5 ms, 11.6g / 10 ms         • at AC       18.5g / 5 ms, 11.6g / 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         • 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 EC 81346-2       Q         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during storage       -55 +80 °C         • relative humidity at 55 °C according to IEC 60068-2-30       10 % <td>surge voltage resistance</td> <td></td>	surge voltage resistance	
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse <ul> <li>at AC</li> <li>shock resistance with sine pulse</li> <li>at AC</li> <li>at AC</li> <li>18.5g / 5 ms, 7.4g / 10 ms</li> </ul> mechanical service life (operating cycles) <ul> <li>of 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 the contactor with added auxiliary switch block typical</li> <li>10 000 000</li> </ul> 10 000 000           reference code according to IEC 81346-2         Q           Substance Prohibitance (Date)         10/01/2014           Ambient conditions         2 000 m           installation altitude at height above sea level maximum         2 000 m           ambient temperature <ul> <li>during operation</li> <li>-25 +60 °C</li> <li>misel storage</li> <li>-55 +80 °C</li> </ul> relative humidity at 55 °C according to IEC 60068-2-30 <li>95 %</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 AC       11.8g / 5 ms, 7.4g / 10 ms         shock resistance with sine pulse       18.5g / 5 ms, 11.6g / 10 ms         • at AC       18.5g / 5 ms, 11.6g / 10 ms         mechanical service life (operating cycles)       0 000 000         • of contactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         Ambient conditions       2000 m         ambient temperature       -25 +60 °C         • during operation       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %         maximum       95 %	<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
• at AC11.8g / 5 ms, 7.4g / 10 msshock resistance with sine pulse		400 V
shock resistance with sine pulse       18.5g / 5 ms, 11.6g / 10 ms         mechanical service life (operating cycles)       10 000 000         o of contactor typical       10 000 000         o of the contactor with added electronically optimized auxiliary switch block typical       5 000 000         o 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)       10/01/2014         Ambient conditions       2 000 m         installation allitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         o during operation       -25 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %	shock resistance at rectangular impulse	
• at AC18.5g / 5 ms, 11.6g / 10 msmechanical service life (operating cycles)0• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2014Ambient conditions2 000 minstallation altitude at height above sea level maximum e during operation e during storage2 000 mambient temperature • during storage-25 +60 °C• during storage-55 +80 °Crelative humidity minimum10 %maximum95 %	• at AC	11.8g / 5 ms, 7.4g / 10 ms
mechanical service life (operating cycles)       10 000 000         • of contactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit	shock resistance with sine pulse	
• of contactor 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)10/01/2014Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature • during operation • during storage-25 +60 °C• during storage-55 +80 °Crelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %	• at AC	18.5g / 5 ms, 11.6g / 10 ms
• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2014Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature • during operation • during storage-25 +60 °C -55 +80 °Crelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %	mechanical service life (operating cycles)	
auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2014Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature-25 +60 °C• during operation-25 +60 °C• during storage-55 +80 °Crelative humidity minimum10 %Patient conditions95 %	<ul> <li>of contactor typical</li> </ul>	10 000 000
reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %		5 000 000
Substance Prohibitance (Date)       10/01/2014         Ambient conditions       installation altitude at height above sea level maximum       2 000 m         ambient temperature       2 000 m         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %	<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Ambient conditions         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %         Main circuit	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum       2 000 m         ambient temperature <ul> <li>during operation</li> <li>-25 +60 °C</li> <li>during storage</li> <li>-55 +80 °C</li> </ul> relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %	Substance Prohibitance (Date)	10/01/2014
ambient temperature     -25 +60 °C       • during operation     -25 +60 °C       • during storage     -55 +80 °C       relative humidity minimum     10 %       relative humidity at 55 °C according to IEC 60068-2-30 maximum     95 %       Main circuit	Ambient conditions	
• during operation     -25 +60 °C       • during storage     -55 +80 °C       relative humidity minimum     10 %       relative humidity at 55 °C according to IEC 60068-2-30 maximum     95 %	installation altitude at height above sea level maximum	2 000 m
	ambient temperature	
relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit       10 %	during operation	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit	during storage	-55 +80 °C
maximum 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	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated</li> </ul>	80 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	80 A
— up to 690 V at ambient temperature 60 °C rated	70 A
value	
• at AC-3	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
● at AC-3e	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
• at AC-4 at 400 V rated value	55 A
• at AC-5a up to 690 V rated value	70.4 A
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	53.9 A
● at AC-6a	
<ul> <li>— up to 230 V for current peak value n=20 rated value</li> </ul>	56.9 A
<ul> <li>— up to 400 V for current peak value n=20 rated value</li> </ul>	56.9 A
<ul> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>	56.9 A
— up to 690 V for current peak value n=20 rated value	47 A
• at AC-6a	
<ul> <li>— up to 230 V for current peak value n=30 rated value</li> </ul>	38 A
<ul> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>	38 A
<ul> <li>— up to 500 V for current peak value n=30 rated value</li> </ul>	38 A
<ul> <li>— up to 690 V for current peak value n=30 rated value</li> </ul>	38 A
minimum cross-section in main circuit at maximum AC-1 rated value	25 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	28 A
• at 690 V rated value	22 A
operational current	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— at 24 V rated value	55 A
— at 60 V rated value	23 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
with 2 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
- at 440 V rated value	1 A
— at 600 V rated value	0.8 A
with 3 current paths in series at DC-1	55 A
— at 24 V rated value	55 A
— at 60 V rated value	55 A
- at 110 V rated value	55 A
- at 220 V rated value	45 A
— at 440 V rated value	2.9 A
- at 600 V rated value	1.4 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	

	— at 24 V rated value	35 A
	— at 60 V rated value	6 A
	— at 220 V rated value	1 A
• win 2 current path in series at DC-3 at DC-5         5           - at 24 V rade value         55 Å           - at 110 V rade value         25 Å           - at 110 V rade value         5 Å           - at 440 V rade value         0.27 Å           - at 440 V rade value         0.18 Å           - at 440 V rade value         0.18 Å           - at 440 V rade value         0.18 Å           - at 440 V rade value         0.5 Å           - at 440 V rade value         55 Å           - at 440 V rade value         55 Å           - at 440 V rade value         0.38 Å           - at 440 V rade value         30 kW           - at 440 V rade value         30 kW           - at 420 V rade value         37 kW           - at 400 V rade value         37 kW <td>— at 440 V rated value</td> <td>0.1 A</td>	— at 440 V rated value	0.1 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>	
- all 10 Vinited value at 440 Vinited value b 27 A - at 600 Vinited value 0 27 A - at 600 Vinited value 0 27 A - at 600 Vinited value 0 27 A - at 60 Vinited value 55 A - at 24 Vinited value 55 A - at 24 Vinited value 55 A - at 70 Vinited value 56 A - at 700 Vinited value 57 A - at 400 Vinited value 58 A - at 700 Vinited value 59 A - at 700 Vinited value 50 Vinited value	— at 24 V rated value	55 A
	— at 60 V rated value	45 A
	— at 110 V rated value	25 A
	— at 220 V rated value	5 A
• with 3 current path in series at DC-3 at DC-5     55 A       - at 20 V rated value     55 A       - at 110 V rated value     55 A       - at 120 V rated value     55 A       - at 440 V rated value     66 A       - at 420 V rated value     0.35 A       operating power     0.35 A       - at 600 V rated value     0.35 A       operating power     0.15 KW       - at 230 V rated value     30 KW       - at 230 V rated value     30 KW       - at 500 V rated value     30 KW       - at 500 V rated value     30 KW       - at 500 V rated value     37 KW       - at 600 V rated value     30 KW       - at 500 V rated value     30 kW       - at 500 V rated value     30 kW       - at 600 V rated value     30 kW       opoperating poperator     30 kW <tr< td=""><td>— at 440 V rated value</td><td>0.27 A</td></tr<>	— at 440 V rated value	0.27 A
	— at 600 V rated value	0.16 A
	<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
	— at 24 V rated value	55 A
	— at 60 V rated value	55 A
	— at 110 V rated value	55 A
	— at 220 V rated value	25 A
operating power       at AC-2 at 400 V rated value       30 kW         • at AC-3	— at 440 V rated value	0.6 A
	— at 600 V rated value	0.35 A
	operating power	
		30 kW
	• at AC-3	
at 400 V rated value30 kW at 500 V rated value37 kW at 230 V rated value37 kW at 230 V rated value15. kW at 400 V rated value30 kW at 630 V rated value30 kW at 630 V rated value37 kW at 630 V rated value20 kWoperating power for approx. 20000 operating cycles at AC at 640 V rated value20 kWoperating apparent power at AC-6820 kW operating apparent power at AC-6850 kW op to 200 V for current peak value n=20 rated value34 kVA up to 200 V for current peak value n=20 rated value35 kVA op to 400 V for current peak value n=30 rated value36 k kVA up to 200 V for current peak value n=30 rated value26 kVA op to 400 V for current peak value n=30 rated value28 kVA up to 580 V for current peak value n=30 rated value28 kVA op to 680 V for current peak value n=30 rated value28 kVA op to 680 V for current peak value n=30 rated value28 kVA op to 680 V for current peak value n=30 rated value28 kVA op time bas value n=30 rated value28 kVA <td>— at 230 V rated value</td> <td>18.5 kW</td>	— at 230 V rated value	18.5 kW
at 890 V rated value37 kW• at AC-3e at 230 V rated value30 kW at 400 V rated value30 kW at 690 V rated value37 kW at 690 V rated value20 kWoperating paperent power at AC-6a22.6 kVA up to 500 V for current peak value n=20 rated value39.4 kVA up to 500 V for current peak value n=20 rated value56.1 kVA up to 500 V for current peak value n=20 rated value56.1 kVA up to 500 V for current peak value n=30 rated value56.1 kVA up to 500 V for current peak value n=30 rated value28.2 kVA up to 500 V for current peak value n=30 rated value28.2 kVA up to 500 V for current peak value n=30 rated value28.2 kVA up to 500 V for current peak value n=30 rated value28.2 kVA up to 500 V for current peak value n=30 rated value28.2 kVA up to 500 V for current neak value n=30 rated value28.2 kVA up to 500 V for current neak value n=30 rated value28.2 kVA up to 500 V for current neak value n=30 rated value28.2 kVA up to 500 V for current neak value n=30 rated value28.2 kVA up to 500 V for current neak value n=30 rated value28.2 kVA up to 500 V for current neak value n=30 rated value28.2 kVA </td <td>— at 400 V rated value</td> <td>30 kW</td>	— at 400 V rated value	30 kW
• at AC-3eI at 230 V rated value15.5 kW- at 400 V rated value30 kW- at 600 V rated value37 kW- at 600 V rated value37 kW- at 600 V rated value37 kWoperating power for approx. 20000 operating cycles at AC-414.7 kW• at 400 V rated value14.7 kW• at 600 V rated value20 kWoperating apparent power at AC-6a20 kW• up to 230 V for current peak value n=20 rated value39.4 kVA• up to 500 V for current peak value n=20 rated value39.4 kVA• up to 690 V for current peak value n=20 rated value56.1 kVAoperating apparent power at AC-6a15.1 kVA• up to 690 V for current peak value n=30 rated value22.8 kVA• up to 600 V for current peak value n=30 rated value25.8 kVA• up to 500 V for current peak value n=30 rated value25.8 kVA• up to 500 V for current peak value n=30 rated value25.8 kVA• up to 500 V for current peak value n=30 rated value35.4 kVA• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 500 V for current peak value n=30 rated value35.4 kVA• up to 500 V for current no current maximum1055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 ra	— at 500 V rated value	37 kW
at 230 V rated value18.5 kW at 400 V rated value30 kW at 500 V rated value37 kWoperating power for approx. 20000 operating cycles at AC- 47 kW• at 400 V rated value14.7 kWoperating apparent power at AC-6a22 22 kWA• up to 230 V for current peak value n=20 rated value39.4 kVA• up to 500 V for current peak value n=20 rated value39.4 kVA• up to 500 V for current peak value n=20 rated value50.1 kVA• up to 500 V for current peak value n=20 rated value51.4 kVA• up to 500 V for current peak value n=30 rated value52.4 kVA• up to 500 V for current peak value n=30 rated value22.8 kVA• up to 500 V for current peak value n=30 rated value22.8 kVA• up to 500 V for current peak value n=30 rated value22.8 kVA• up to 500 V for current peak value n=30 rated value22.8 kVA• up to 500 V for current peak value n=30 rated value22.8 kVA• up to 500 V for current peak value n=30 rated value22.8 kVA• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 500 V for current peak value n=30 rated value33.6 k.U se minimum cross-section acc. to AC-1 rated value• up to 500 V for current peak value n=30 rated value33.6 k.U se minimum cross-section acc. to AC-1 rated value• uimited to 1 s switching at zero current maximum33.6 k.U se minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum35.0 k.U se minimum cross-	— at 690 V rated value	37 kW
	• at AC-3e	
	— at 230 V rated value	18.5 kW
	— at 400 V rated value	30 kW
operating power for approx. 20000 operating cycles at AC-4       14.7 kW         • at 400 V rated value       20 kW         operating apparent power at AC-6a       20 kW         • up to 230 V for current peak value n=20 rated value       39.4 kVA         • up to 500 V for current peak value n=20 rated value       39.4 kVA         • up to 500 V for current peak value n=20 rated value       39.4 kVA         • up to 500 V for current peak value n=20 rated value       46.1 kVA         • up to 500 V for current peak value n=20 rated value       56.1 kVA         operating apparent power at AC-6a       15.1 kVA         • up to 500 V for current peak value n=30 rated value       56.2 kVA         • up to 500 V for current peak value n=30 rated value       28.8 kVA         • up to 500 V for current peak value n=30 rated value       28.8 kVA         • up to 690 V for current peak value n=30 rated value       32.8 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         short-time withstand current in cold operating state up to 40° C       1055 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 1s switching at zero current maximum       1055 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       236 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at	— at 500 V rated value	37 kW
4     i at 400 V rated value     14.7 kW       • at 690 V rated value     20 kW       operating apparent power at AC-6a     22.6 kVA       • up to 230 V for current peak value n=20 rated value     39.4 kVA       • up to 500 V for current peak value n=20 rated value     39.4 kVA       • up to 500 V for current peak value n=20 rated value     49.2 kVA       • up to 500 V for current peak value n=20 rated value     56.1 kVA       operating apparent power at AC-6a     15.1 kVA       • up to 230 V for current peak value n=30 rated value     28.2 kVA       • up to 600 V for current peak value n=30 rated value     28.2 kVA       • up to 500 V for current peak value n=30 rated value     28.2 kVA       • up to 600 V for current peak value n=30 rated value     28.2 kVA       • up to 600 V for current peak value n=30 rated value     26.2 kVA       • up to 600 V for current peak value n=30 rated value     26.3 kVA       • up to 600 V for current peak value n=30 rated value     26.3 kVA       • up to 600 V for current peak value n=30 rated value     32.8 kVA       • up to 600 V for current peak value n=30 rated value     45.3 kVA       • up to 600 V for current maximum     1055 A; Use minimum cross-section acc. to AC-1 rated value       • limited to 10 s switching at zero current maximum     500 A; Use minimum cross-section acc. to AC-1 rated value       • limited to 10 s switching at zero current maximum     27	— at 690 V rated value	37 kW
4     i at 400 V rated value     14.7 kW       • at 690 V rated value     20 kW       operating apparent power at AC-6a     22.6 kVA       • up to 230 V for current peak value n=20 rated value     39.4 kVA       • up to 500 V for current peak value n=20 rated value     39.4 kVA       • up to 500 V for current peak value n=20 rated value     49.2 kVA       • up to 500 V for current peak value n=20 rated value     56.1 kVA       operating apparent power at AC-6a     15.1 kVA       • up to 230 V for current peak value n=30 rated value     28.2 kVA       • up to 600 V for current peak value n=30 rated value     28.2 kVA       • up to 500 V for current peak value n=30 rated value     28.2 kVA       • up to 600 V for current peak value n=30 rated value     28.2 kVA       • up to 600 V for current peak value n=30 rated value     26.2 kVA       • up to 600 V for current peak value n=30 rated value     26.3 kVA       • up to 600 V for current peak value n=30 rated value     26.3 kVA       • up to 600 V for current peak value n=30 rated value     32.8 kVA       • up to 600 V for current peak value n=30 rated value     45.3 kVA       • up to 600 V for current maximum     1055 A; Use minimum cross-section acc. to AC-1 rated value       • limited to 10 s switching at zero current maximum     500 A; Use minimum cross-section acc. to AC-1 rated value       • limited to 10 s switching at zero current maximum     27		
• at 690 V rated value       20 kW         operating apparent power at AC-6a       22.6 kVA         • up to 230 V for current peak value n=20 rated value       39.4 kVA         • up to 600 V for current peak value n=20 rated value       39.4 kVA         • up to 690 V for current peak value n=20 rated value       49.2 kVA         • up to 690 V for current peak value n=20 rated value       56.1 kVA         operating apparent power at AC-6a       51.1 kVA         • up to 230 V for current peak value n=30 rated value       22.8 kVA         • up to 500 V for current peak value n=30 rated value       22.8 kVA         • up to 690 V for current peak value n=30 rated value       22.8 kVA         • up to 690 V for current peak value n=30 rated value       22.8 kVA         • up to 690 V for current peak value n=30 rated value       22.8 kVA         • up to 690 V for current peak value n=30 rated value       25.8 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         short-time withstand current in cold operating state up to 40°C       40°C         • limited to 1 s switching at zero current maximum       1 055 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       20 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       22 A; Use minimum		
operating apparent power at AC-6a22.6 kVA• up to 230 V for current peak value n=20 rated value39.4 kVA• up to 500 V for current peak value n=20 rated value39.4 kVA• up to 500 V for current peak value n=20 rated value49.2 kVA• up to 690 V for current peak value n=20 rated value50.1 kVAoperating apparent power at AC-6a15.1 kVA• up to 230 V for current peak value n=30 rated value26.2 kVA• up to 500 V for current peak value n=30 rated value22.6 kVA• up to 500 V for current peak value n=30 rated value26.2 kVA• up to 500 V for current peak value n=30 rated value28.8 kVA• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 500 V for current peak value n=30 rated value45.3 kVA• up to 690 V for current peak value n=30 rated value45.3 kVA• up to 500 V for current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum20 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum36 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value	<ul> <li>at 400 V rated value</li> </ul>	14.7 kW
• up to 230 V for current peak value n=20 rated value       22.6 kVA         • up to 400 V for current peak value n=20 rated value       39.4 kVA         • up to 500 V for current peak value n=20 rated value       49.2 kVA         • up to 690 V for current peak value n=20 rated value       50.1 kVA         operating apparent power at AC-6a       6         • up to 230 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       28.4 kVA         • up to 500 V for current peak value n=30 rated value       28.4 kVA         • up to 690 V for current peak value n=30 rated value       32.8 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         • up to 690 V for current peak value n=30 rated value       50 A (Use minimum cross-section acc. to AC-1 rated value <td><ul> <li>at 690 V rated value</li> </ul></td> <td>20 kW</td>	<ul> <li>at 690 V rated value</li> </ul>	20 kW
up to 400 V for current peak value n=20 rated value39.4 kVAup to 500 V for current peak value n=20 rated value49.2 kVAup to 690 V for current peak value n=20 rated value56.1 kVAoperating apparent power at AC-6aup to 230 V for current peak value n=30 rated value15.1 kVAup to 400 V for current peak value n=30 rated value26.2 kVAup to 500 V for current peak value n=30 rated value32.8 kVAup to 690 V for current peak value n=30 rated value32.8 kVAup to 690 V for current peak value n=30 rated value32.8 kVAup to 690 V for current peak value n=30 rated value32.8 kVAup to 690 V for current peak value n=30 rated value45.3 kVAshort-time withstand current in cold operating state up to 40 °C40 °Cilmited to 1 s switching at zero current maximum1055 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 50 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 60 s switching at zero current maximum36 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 60 s switching at zero current maximum270 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 60 s switching at zero current maximum200 1/hoperating frequency5000 1/he at AC5000 1/he at AC-1 maximum800 1/h<	operating apparent power at AC-6a	
• up to 500 V for current peak value n=20 rated value       49.2 kVA         • up to 690 V for current peak value n=20 rated value       56.1 kVA         operating apparent power at AC-6a       15.1 kVA         • up to 230 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       25.3 kVA         • up to 500 V for current peak value n=30 rated value       45.3 kVA         • up to 500 V for current peak value n=30 rated value       45.3 kVA         • up to 500 V for current peak value n=30 rated value       45.3 kVA         • up to 500 V for current maximum       1 055 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 1 s switching at zero current maximum       520 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       236 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 S switching at zero current maximum       272 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       272 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       272 A; Use minimum cross-section acc. to AC-1 rated value <td><ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul></td> <td>22.6 kVA</td>	<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	22.6 kVA
• up to 690 V for current peak value n=20 rated value     for current peak value n=30 rated value     iup to 230 V for current peak value n=30 rated value     iup to 230 V for current peak value n=30 rated value     iup to 500 V for current peak value n=30 rated value     26.2 kVA     iup to 500 V for current peak value n=30 rated value     32.8 kVA     iup to 690 V for current peak value n=30 rated value     short-time withstand current in cold operating state up to     40 °C     ilimited to 1 s switching at zero current maximum     limited to 5 s switching at zero current maximum     ilimited to 10 s switching at zero current maximum     ilimited to 30 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     at AC-     sound thing frequency     i at AC-     sound thing frequency     i at AC-     maximum     at AC-2 maximum     A00 1/h     at AC-3 maximum     at AC-3 maximum     zound     at AC-4 maximum     zound	<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	39.4 kVA
operating apparent power at AC-6a15.1 kVA• up to 230 V for current peak value n=30 rated value15.1 kVA• up to 400 V for current peak value n=30 rated value26.2 kVA• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 690 V for current peak value n=30 rated value45.3 kVAshort-time withstand current in cold operating state up to 40 °C45.3 kVA• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-4 maximum200 1/h	<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	49.2 kVA
<ul> <li>up to 230 V for current peak value n=30 rated value</li> <li>15.1 kVA</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>26.2 kVA</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>32.8 kVA</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>45.3 kVA</li> <li>short-time withstand current in cold operating state up to</li> <li>40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>1055 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 1 s switching at zero current maximum</li> <li>1055 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 30 s switching at zero current maximum</li> <li>S20 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 30 s switching at zero current maximum</li> <li>S22 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 60 s switching at zero current maximum</li> <li>S22 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 60 s switching at zero current maximum</li> <li>S22 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 60 s switching at zero current maximum</li> <li>S22 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 60 s switching at zero current maximum</li> <li>S22 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>at AC</li> <li>s to 00 1/h</li> <li>at AC-1 maximum</li> <li>at AC-1 maximum</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> </ul>	<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	56.1 kVA
• up to 400 V for current peak value n=30 rated value26.2 kVA• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 690 V for current peak value n=30 rated value45.3 kVA <b>short-time withstand current in cold operating state up to</b> <b>40 °C</b> 1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching frequency5 000 1/h• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-4 maximum200 1/h	operating apparent power at AC-6a	
• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 690 V for current peak value n=30 rated value45.3 kVAshort-time withstand current in cold operating state up to 40 °C1055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-3 maximum200 1/h	<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	15.1 kVA
• up to 690 V for current peak value n=30 rated value45.3 kVAshort-time withstand current in cold operating state up to 40 °C45.3 kVA• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum730 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-4 maximum200 1/h	<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	26.2 kVA
short-time withstand current in cold operating state up to 40 °C1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-3 maximum200 1/h	<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	32.8 kVA
40 °C• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum730 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 e maximum700 1/h• at AC-4 maximum200 1/h	<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	45.3 kVA
• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum730 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching frequency272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum800 1/h• at AC-3 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-4 maximum200 1/h		
• limited to 5 s switching at zero current maximum730 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-4 maximum200 1/h		
• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• no-load switching frequency272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3e maximum700 1/h• at AC-4 maximum200 1/h	-	
• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency • at AC5 000 1/hoperating frequency5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3e maximum700 1/h• at AC-4 maximum200 1/h	-	
• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency5 000 1/h• at AC5 000 1/hoperating frequency800 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum200 1/h	-	
no-load switching frequency• at AC5 000 1/hoperating frequency• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-4 maximum200 1/h	-	
• at AC5 000 1/hoperating frequency800 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3e maximum700 1/h• at AC-4 maximum200 1/h		272 A; Use minimum cross-section acc. to AC-1 rated value
operating frequency800 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3e maximum700 1/h• at AC-4 maximum200 1/h		
• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3e maximum700 1/h• at AC-4 maximum200 1/h		5 000 1/h
• at AC-2 maximum       400 1/h         • at AC-3 maximum       700 1/h         • at AC-3e maximum       700 1/h         • at AC-4 maximum       200 1/h		
• at AC-3 maximum       700 1/h         • at AC-3e maximum       700 1/h         • at AC-4 maximum       200 1/h		
• at AC-3e maximum         700 1/h           • at AC-4 maximum         200 1/h		
• at AC-4 maximum 200 1/h		
Control circuit/ Control		200 1/h
	Control circuit/ Control	

type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value	AC
<ul> <li>at 50 Hz rated value</li> </ul>	
	400 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	100.1/4
• at 50 Hz	190 VA
inductive power factor with closing power of the coil	0.70
• at 50 Hz	0.72
apparent holding power of magnet coil at AC	16 VA
• at 50 Hz	10 VA
inductive power factor with the holding power of the coil	0.07
• at 50 Hz	0.37
elosing delay • at AC	10 80 ms
opening delay	10 00 115
• at AC	10 18 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
	1
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	
<ul> <li>at 230 V rated value</li> </ul>	10 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at DC-12	
• at 24 V rated value	10 A
<ul> <li>at 48 V rated value</li> </ul>	6 A
• at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 125 V rated value	2 A
at 220 V rated value	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
• at 24 V rated value	10 A
• at 60 V rated value	
	1 faulty switching per 100 million (17 V, 1 mA)
at 600 V rated value	52 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	5 hp
— at 230 V rated value	10 hp
for 3-phase AC motor	
— at 200/208 V rated value	20 hp
— at 200/208 V rated value — at 220/230 V rated value	20 hp
— at 200/208 V rated value	
<ul> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>contact reliability of auxiliary contacts</li> </ul> UL/CSA ratings full-load current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> </ul>	2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 65 A

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: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415V,80kA)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and
for the size of the st	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 width	114 mm 55 mm
depth	130 mm
required spacing	130 mm
with side-by-side mounting	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals
<ul> <li>of magnet coil</li> </ul>	Screw-type terminals
type of connectable conductor cross-sections for main contacts	
<ul> <li>solid or stranded</li> </ul>	2x (1 35 mm²), 1x (1 50 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 25 mm²), 1x (1 35 mm²)
connectable conductor cross-section for main contacts	
<ul> <li>finely stranded with core end processing</li> </ul>	1 35 mm²
connectable conductor cross-section for auxiliary contacts	
<ul> <li>solid or stranded</li> </ul>	0.5 2.5 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
— finely stranded with core end processing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross section	
• for main contacts	18 1
for auxiliary contacts	20 14
Safety related data	
product function	
mirror contact according to IEC 60947-4-1	Yes
positively driven operation according to IEC 60947-5-1	No
suitability for use safety-related switching OFF	Yes
B10 value with high demand rate according to SN 31920	1 000 000

	ous failures				
<ul> <li>with low deman</li> </ul>	d rate according to SN 3192	40	%		
<ul> <li>with high deman</li> </ul>	nd rate according to SN 319	20 73	%		
ailure rate [FIT] with lo	ow demand rate according to	o SN 31920 100	FIT		
1 value for proof test	interval or service life accor	ding to IEC 20	a		
rotection class IP o	n the front according to IE	C 60529 IP2	0		
ouch protection on t	the front according to IEC	60529 fing	er-safe, for vertical contact	from the front	
tificates/ approvals					
General Product App	proval				
(SP)	<u>Confirmation</u>			KC	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Confe	ormity	Test Certificates	
	<u>Type Examination Cer-</u> <u>tificate</u>	CE EG-Konf.	UK CA	Type Test Certific- ates/Test Report	<u>Special Test Certif</u> <u>ate</u>
Marine / Shipping					
ABS	BUREAU VERITAS		Lloyd's Register urs	PRS	RINA
Marine / Shipping	other		Railway	Dangerous Good	Environment
KMRS	<u>Confirmation</u>	Confirmation	Vibration and Shock	Transport Information	<u>Environmental Co</u> <u>firmations</u>

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2037-1AV00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2037-1AV00

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1AV00

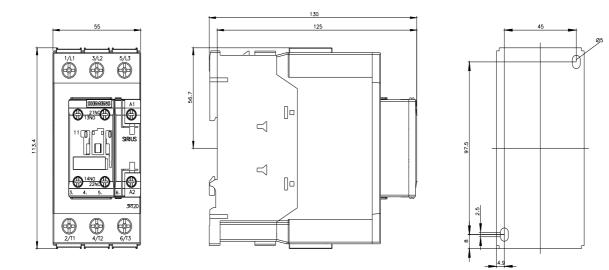
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

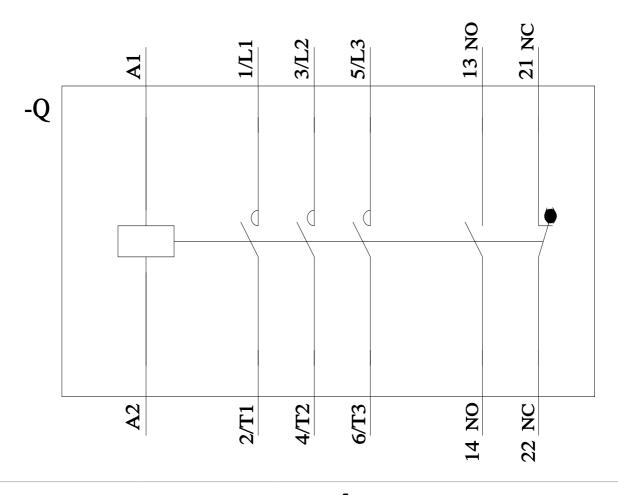
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2037-1AV00&lang=en

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037 7-1AV00/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-1AV00&objecttype=14&gridview=view1





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