## SIEMENS

## Data sheet

## 3RT2024-1AF00



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 110 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0

product brand name         SIRUS           product vge designation         Power contactor           Openral technical data         SRT2           Size of contactor         S0           or contactor         No           - function module for communication         No           - function module for communication         No           - at AC in hot operating state per pole         0.5 W           or main circuit with degree of pollution 3 rated value         690 V           of main circuit rated value         6 k/V           of main circuit rated value         6 k/V           or and main circuit rated value         6 k/V           or and main circuit rated value         6 k/V           or and main circuit rated value         10 000 000           or and main circuit rated value         10 000 000           or do ratabras according to EPA 60947.         10 000 000           or do ratabras according to EPA 60947.         10 000 000		
product type designation         3RT2           General technical data	product brand name	SIRIUS
General technical data         S0           size of contactor         S0           product extension         No           • function module for communication         No           • auxiliary switch         Yes           power loss [W] for rated value of the current         0.9 W           • at AC in hot operating state         0.9 W           • at AC in hot operating state         0.9 W           • of main circuit with degree of pollution 3 rated value         690 V           • of main circuit with degree of pollution 3 rated value         690 V           • of main circuit rated value         690 V           • of main circuit rated value         690 V           • of main circuit rated value         68 V           • of auxiliary circuit rated value         6 kV           • of contactor scitas according to EN 60947-1         400 V           sthock resistance with sine pulse         11.8g / 5 ms, 7.4g / 10 ms           • at AC         11.8g / 5 ms, 7.4g / 10 ms           mechanical service life (operating cycles)         10 000 000           • of the contactor with added electronically optimized	product designation	Power contactor
size of contactor     S0       product extension     No       • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     0.9 W       • at AC in hot operating state per pole     0.3 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 auxiliary circuit with degree of pollution 3 rated value     690 V       • of auxiliary circuit with degree of pollution 3 rated value     680 V       surge voltage resistance     6kV       • of auxiliary circuit rated value     6 kV       • of auxiliary since block resistance at rectangular impulse     7.5 / 5 ms, 4.7g / 10 ms       • at AC     11.8g / 5 ms, 7.4g / 10 ms       * eactor trypical     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 <tr< th=""><th>product type designation</th><th>3RT2</th></tr<>	product type designation	3RT2
product extension         No           • function module for communication         No           • auxiliary switch         Yes           • auxiliary switch         Yes           • at AC in hot operating state         0.9 W           • at AC in hot operating state pole         0.3 W           • without load current share typical         7.6 W           Insulation voltag         690 V           • of main circuit with degree of pollution 3 rated value         690 V           • of auxiliary circuit with degree of pollution 3 rated value         690 V           • of auxiliary circuit with degree of pollution 3 rated value         64V           • of main circuit rated value         6 kV           • of main circuit rated value         6 kV           • of main circuit rated value         6 kV           • of auxiliary circuit rated value         7.5g / 5 ms. 4.7g / 10 ms           shock resistance with sine pulse         10 000 000           • of the contactor with added elecronically optimiz	General technical data	
• function module for communicationNo• auxiliary switchYespower loss [W] for rated value of the current• at AC in hot operating state0.9 W• at AC in hot operating state per pole0.3 W• at AC in hot operating state per pole0.3 W• without load current share typical70Insulation voltage690 V• of main circuit with degree of pollution 3 rated value690 V• of main circuit with degree of pollution 3 rated value690 V• of main circuit with degree of pollution 3 rated value690 V• of main circuit rated value6 k/V• of main circuit rated value6 k/V• of main circuit rated value6 k/V• of auxiliary witch block typical7,5g / 5 ms, 4,7g / 10 ms• at AC11.8g / 5 ms, 7,4g / 10 ms• at AC10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical2 000 mambient conditions2 000 mand titude at height above sea level maximum2 000 mambient tomperature-2 +60 °C• during storage-5 +60 °C• during storage-5 +60 °C• during storag	size of contactor	SO
• auxiliary switch         Yes           power loss [W] for rated value of the current	product extension	
power loss [W] for rated value of the current         9           e at AC in hot operating state prole         0.9 W           • at AC in hot operating state prole         0.3 W           • without load current share typical         7.6 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           • of auxiliary circuit rated value         6 kV           • of main circuit rated value         6 kV           • of auxiliary circuit rated value         6 kV           • at AC         7.5g / 5 ms, 4.7g / 10 ms           shock resistance at rectangular impulse         10 000 000           • at AC         11.8g / 5 ms, 7.4g / 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         10/01/2009           Abient conditions         2000 m           ambient temperat	<ul> <li>function module for communication</li> </ul>	No
• at AC in hot operating state per pole0.9 W• at AC in hot operating state per pole0.3 W• without load current share typical7.6 WInsultator voltage690 V• of main circuit with degree of pollution 3 rated value690 V• of main circuit rated value690 V• of main circuit rated value690 V• of main circuit rated value68V• of main circuit rated value6 kV• of main circuit rated value6 kV• of auxiliary circuit rated value7.5g / 5 ms, 4.7g / 10 msshock resistance with sine pulse10 000 000• at AC10 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 01/2009Aubient conditions2000 mambient temperature-55 +60 °C• during storage-55 +60 °C• during storage-55 +60 °C </th <th><ul> <li>auxiliary switch</li> </ul></th> <th>Yes</th>	<ul> <li>auxiliary switch</li> </ul>	Yes
• at AC in hot operating state per pole0.3 W• without load current share typical7.6 Winsulation voltage690 V• of main circuit with degree of pollution 3 rated value690 V• of axiliary circuit with degree of pollution 3 rated value690 Vsurge voltage resistance6 kV• of nain circuit rated value6 kV• of axiliary circuit with degree of pollution 3 rated value6 kV• of axiliary circuit rated value7,5g / 5 ms, 4,7g / 10 ms• at AC11,8g / 5 ms, 7,4g / 10 ms• of the contactor with added electronically optimized axiliary switch block typical10 000 000• of the contactor with added electronically optimized axiliary switch block typical10 000 000• of the contactor with added axiliary switch block typical10 000 000• of the contactor with added axiliary switch block typical0• of the contactor with added axiliary switch block typical0• of the contactor wit	power loss [W] for rated value of the current	
• without load current share typical       7.6 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         • of auxiliary circuit rated value       6 kV         • of main circuit rated value       6 kV         • of auxiliary corcuit rated value       60 V         • at AC       7.5g / 5 ms, 4.7g / 10 ms         • at AC       11.8g / 5 ms, 7.4g / 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     <	<ul> <li>at AC in hot operating state</li> </ul>	0.9 W
insulation voltage       690 V         • of main circuit with degree of pollution 3 rated value       690 V         • of auxiliary circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       690 V         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • af AC       7,5g / 5 ms, 4,7g / 10 ms         shock resistance with sine pulse       -         • at AC       11,8g / 5 ms, 7,4g / 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         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during operation       -25 +60 °C         • durin	<ul> <li>at AC in hot operating state per pole</li> </ul>	0.3 W
• of main circuit with degree of pollution 3 rated value690 V• of auxiliary circuit with degree of pollution 3 rated value690 V• surge voltage resistance•• of main circuit rated value6 kV• of auxiliary circuit rated value6 kV• of auxiliary circuit rated value6 kV• of auxiliary circuit rated value6 kVmaximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1400 V• shock resistance at rectangular impulse • at AC7,5g / 5 ms, 4,7g / 10 ms• at AC7,5g / 5 ms, 7,4g / 10 ms• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical2000 m• of the contactor with added auxiliary switch block typical2000 m• of the contactor with added auxiliary switch block typical2000 m• of the contactor with added auxiliary switch block typical2000 m• of the contactor with added auxiliary switch block typical2000 m• of the contactor with added auxiliary switch block typical2000 m• of the contactor with added auxiliary switch block typical2000 m• of the contactor with added auxiliary switch block typical2000 m• of the contactor with added auxiliary switch block typical2000 m• of the contact	<ul> <li>without load current share typical</li> </ul>	7.6 W
of auxiliary circuit with degree of pollution 3 rated value690 Vsurge voltage resistanceof main circuit rated value6 kVof ana incuit rated value6 kVof auxiliary circuit rated value6 kVcol auxiliary circuit rated value400 Vshock resistance at rectangular impulse400 Vshock resistance at rectangular impulse7,5g / 5 ms, 4,7g / 10 msshock resistance with sine pulse11,8g / 5 ms, 7,4g / 10 msshock resistance life (operating cycles)10 000 000of contactor typical10 000 000of the contactor with added electronically optimized5000 000auxiliary switch block typical10 000 000of the contactor with added electronically optimized2000 mmethant conditions2000 mmatitude at height above sea level maximum2 000 minstallation altitude at height above sea level maximum2 55 +80 °Celative humidity at 55 °C according to IEC 60068-2-3095 %	insulation voltage	
surge voltage resistance       6         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       400 V         • at AC       7,5g / 5 ms, 4,7g / 10 ms         shock resistance with sine pulse       11,8g / 5 ms, 7,4g / 10 ms         • at AC       11,8g / 5 ms, 7,4g / 10 ms         mechanical service life (operating cycles)       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         ambient temperature       -25 +60 °C         • during sporage       -25 +60 °C         • during strange       5 % °C         relative humidity at 55 °C according to IEC 60068-2-30       95 %	<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
• of main circuit rated value6 kV• of auxiliary circuit rated value6 kVmaximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1400 Vshock resistance at rectangular impulse400 V• at AC7,5g / 5 ms, 4,7g / 10 msshock resistance with sine pulse7,5g / 5 ms, 7,4g / 10 ms• at AC11,8g / 5 ms, 7,4g / 10 msmechanical service life (operating cycles)10 000 000• of contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical0 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical0 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical0 000 000• of the contactor with added electronically optimized auxiliary solution block typical0 000 000• of the contactor with addee auxiliary switch block typical0 000 000• of the contactor with addee electronically optimized auxiliary solution altitude at height above sea level maximum2 000 minstallation altitude at height above sea level maximum2 000 m• of during operation • of uning storage-25 +60 °C	<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
• of auxiliary circuit rated value6 kVmaximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1400 Vshock resistance at rectangular impulse • at AC7,5g / 5 ms, 4,7g / 10 ms• at AC7,5g / 5 ms, 7,4g / 10 ms• at AC11,8g / 5 ms, 7,4g / 10 ms• at AC11,8g / 5 ms, 7,4g / 10 ms• 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 typical0 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 typical2 000 m• of the contactor with addee auxiliary switch block typical2 000 m• of the contactor with addee auxiliary switch block typical2 000 m• of the contactor with addee auximum2 000 m• during operation-25 +60 °C• during storage-55 +80 °C• during storage-55 +80 °C• relative humidity minimum10 %• prelative humidity minimum95 %	surge voltage resistance	
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1400 Vshock resistance at rectangular impulse • at AC7,5g / 5 ms, 4,7g / 10 msshock resistance with sine pulse • at AC7,5g / 5 ms, 7,4g / 10 msshock resistance with sine pulse • at AC11,8g / 5 ms, 7,4g / 10 msmechanical service life (operating cycles) • of contactor typical10 000 000of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical10 000 000of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2 Substance Prohibitance (Date)QAmbient conditions2000 mambient temperature • during operation • during storage-25 +60 °C -55 +80 °Crelative humidity at 55 °C according to IEC 60068-2-30 maximum95 %	<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       7,5g / 5 ms, 4,7g / 10 ms         shock resistance with sine pulse       11,8g / 5 ms, 7,4g / 10 ms         • 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)       10/01/2009         Ambient conditions       2 000 m         ambient temperature       -         • during operation       -25 +60 °C         • during storage       -55 +80 °C         • during storage       -55 +80 °C         • elative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %	<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
• at AC7,5g / 5 ms, 4,7g / 10 msshock resistance with sine pulse • at AC11,8g / 5 ms, 7,4g / 10 msmechanical service life (operating cycles) • of contactor typical10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical2000 m• of the contactor with added auxiliary switch block typical2000 m• of the contactor with added auxiliary switch block typical2000 m• of the contactor with added auxiliary switch block typical2000 m• of the contactor with added auxiliary switch block typical10/01/2009• of the contactor with added auxiliary switch block typical2000 m• of the contactor with added auxiliary switch block typical10/01/2009• ambient conditions2 000 m• installation altitude at height above sea level maximum2 000 m• during operation-25 +60 °C• during storage-55 +80 °C• relative humidity minimum10 %• relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %		400 V
shock resistance with sine pulse       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       5 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %	shock resistance at rectangular impulse	
• at AC11,8g / 5 ms, 7,4g / 10 msmechanical service life (operating cycles)10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typicalQSubstance Prohibitance (Date)Q• Ambient conditions2 000 m• during operation-25 +60 °C• during operation-25 +60 °C• during storage-55 +80 °C• relative humidity minimum10 %• relative humidity at 55 °C according to IEC 60068-2-3095 %	• at AC	7,5g / 5 ms, 4,7g / 10 ms
mechanical service life (operating cycles)       integration of the contactor typical         • of contactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       5 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %	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 typical0 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature • during operation-25 +60 °C• during storage-55 +80 °Crelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %	• at AC	11,8g / 5 ms, 7,4g / 10 ms
• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature • during operation • during storage-25 +60 °Cfelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %	mechanical service life (operating cycles)	
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reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature • during operation • during storage-25 +60 °Crelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %		5 000 000
Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %	<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Ambient conditions         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %	reference code according to IEC 81346-2	Q
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 %	Substance Prohibitance (Date)	10/01/2009
ambient temperature     -25       • during operation     -25       • during storage     -55       relative humidity minimum     10 %       relative humidity at 55 °C according to IEC 60068-2-30 maximum     95 %	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
• during storage     -55 +80 °C       relative humidity minimum     10 %       relative humidity at 55 °C according to IEC 60068-2-30 maximum     95 %	ambient temperature	
relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %	during operation	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 95 % 95 %	during storage	-55 +80 °C
maximum	relative humidity minimum	10 %
Main circuit		95 %
	Main circuit	
number of poles for main current circuit 3	number of poles for main current circuit	3

number of NO contacts for main contacts	3
	3
<ul> <li>operating voltage</li> <li>at AC-3 rated value maximum</li> </ul>	690 V
at AC-3e rated value maximum	690 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated	40 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	40 A
value	
— up to 690 V at ambient temperature 60 °C rated value	35 A
• at AC-3	
— at 400 V rated value	12 A
— at 500 V rated value	12 A
— at 690 V rated value	9 A
• at AC-3e	
— at 400 V rated value	12 A
— at 500 V rated value	12 A
— at 690 V rated value	9 A
at AC-4 at 400 V rated value	12.5 A
• at AC-5a up to 690 V rated value	35.2 A
• at AC-5b up to 400 V rated value	9.9 A
● at AC-6a	
— up to 230 V for current peak value n=20 rated value	11.4 A
— up to 400 V for current peak value n=20 rated value	11.4 A
— up to 500 V for current peak value n=20 rated value	11.3 A
— up to 690 V for current peak value n=20 rated value	9 A
● at AC-6a	
— up to 230 V for current peak value n=30 rated value	7.6 A
<ul> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>	7.6 A
<ul> <li>— up to 500 V for current peak value n=30 rated value</li> </ul>	7.6 A
<ul> <li>— up to 690 V for current peak value n=30 rated value</li> </ul>	7.6 A
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	5.5 A
• at 690 V rated value	5.5 A
operational current	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— at 24 V rated value	35 A
— at 60 V rated value	20 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
• with 2 current paths in series at DC-1	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
with 3 current paths in series at DC-1	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
- at 110 V rated value	35 A
- at 220 V rated value	35 A
— at 440 V rated value	2.9 A
- at 600 V rated value	1.4 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	

— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 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	35 A
— at 60 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— 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	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
operating power	
• at AC-3	
- at 230 V rated value	3 kW
— at 200 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	7.5 KV
- at 230 V rated value	3 kW
— at 200 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	
	7.5 kW
operating power for approx. 200000 operating cycles at AC- 4	
<ul> <li>at 400 V rated value</li> </ul>	2.6 kW
at 690 V rated value	4.6 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	4.5 kVA
• up to 400 V for current peak value n=20 rated value	7.8 kVA
• up to 500 V for current peak value n=20 rated value	9.8 kVA
• up to 690 V for current peak value n=20 rated value	10.7 kVA
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	3 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	5.2 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	
• up to 500 V for current peak value n=30 rated value	6.5 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	
• up to 500 V for current peak value n=30 rated value	6.5 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to</li> </ul>	6.5 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> </ul>	6.5 kVA 9 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> </ul>	6.5 kVA 9 kVA 210 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> </ul>	<ul> <li>6.5 kVA</li> <li>9 kVA</li> <li>210 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>210 A; Use minimum cross-section acc. to AC-1 rated value</li> </ul>
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control supply voltage at AC	440.1/
at 50 Hz rated value	110 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	0.0 1.1
• at 50 Hz	65 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.82
apparent holding power of magnet coil at AC	0.02
• at 50 Hz	7.6 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
closing delay	0.20
• at AC	8 40 ms
opening delay	
• at AC	4 16 ms
arcing time	10 10 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	1
contact	
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	
<ul> <li>at 24 V rated value</li> </ul>	10 A
<ul> <li>at 48 V rated value</li> </ul>	6 A
<ul> <li>at 60 V rated value</li> </ul>	6 A
<ul> <li>at 110 V rated value</li> </ul>	3 A
• at 125 V rated value	2 A
at 220 V rated value	1 A
• at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	10 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 125 V rated value	0.9 A
• at 220 V rated value	0.3 A
• at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	11 A
• at 600 V rated value	11 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	1 hp
— at 230 V rated value	2 hp
• for 3-phase AC motor	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	7.5 hp
— at 575/600 V rated value	10 hp
contact rating of auxiliary contacts according to UL	A600 / P600
contact rating of auxiliary contacts according to OL	100071000

Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
— with type of coordination 1 required	gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)
— with type of assignment 2 required	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and
	backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
side-by-side mounting	Yes
height	85 mm
width	45 mm
depth	97 mm
required spacing	
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	
• for main current circuit	screw-type terminals
for auxiliary and control circuit	screw-type terminals
at contactor for auxiliary contacts	Screw-type terminals
of magnet coil	Screw-type terminals
type of connectable conductor cross-sections for main contacts	0 (4
• solid	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )
solid or stranded	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )
finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
connectable conductor cross-section for main contacts	1 10
• solid	1 10 mm <sup>2</sup>
<ul> <li>stranded</li> <li>finally stranded with core and processing</li> </ul>	1 10 mm <sup>2</sup>
finely stranded with core end processing	1 10 mm²
connectable conductor cross-section for auxiliary contacts <ul> <li>solid or stranded</li> </ul>	0.5 2.5 mm²
	0.5 2.5 mm <sup>2</sup>
finely stranded with core end processing	0.0 2.0 mm
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
- solid or stranded	$2x (0.5 \pm 1.5 \text{ mm}^2) 2x (0.75 \pm 2.5 \text{ mm}^2)$
<ul> <li>— solid or stranded</li> <li>— finally stranded with core and processing</li> </ul>	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 mm²), 2x (0.75 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul> AWG number as coded connectable conductor cross	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section         <ul> <li>for main contacts</li> </ul> </li> </ul>	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14) 16 8
<ul> <li>finely stranded with core end processing         <ul> <li>for AWG cables for auxiliary contacts</li> </ul> </li> <li>AWG number as coded connectable conductor cross section         <ul> <li>for main contacts</li> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> </li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14)
<ul> <li>finely stranded with core end processing         <ul> <li>for AWG cables for auxiliary contacts</li> </ul> </li> <li>AWG number as coded connectable conductor cross section         <ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> </li> <li>Safety related data</li> </ul>	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14) 16 8
	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14) 16 8 20 14
<ul> <li>finely stranded with core end processing         <ul> <li>for AWG cables for auxiliary contacts</li> </ul> </li> <li>AWG number as coded connectable conductor cross section         <ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> </li> <li>Safety related data</li> </ul>	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14) 16 8

<ul> <li>with low demai</li> </ul>	nd rate according to SN 3192	20 40	%			
-	and rate according to SN 319					
failure rate [FIT] with	low demand rate according t	o SN 31920 100	) FIT			
61508	t interval or service life accor		а			
protection class IP on the front according to IEC 60529			0			
touch protection on the front according to IEC 60529			finger-safe, for vertical contact from the front			
suitability for use						
safety-related	•	Yes	3			
ertificates/ approval General Product Ap						
(S) M	<u>Confirmation</u>			KC	EHC	
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Conf	ormity	Test Certificates		
RCM	Type Examination Cer- tificate	UK CA	CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report	
Marine / Shipping		ĴÅ	Lloyds Register			
ABS	BUREAU VERITAS	DNV	LRS	RINA	RMRS	
other			Railway	Environment		
<u>Confirmation</u>		<u>Confirmation</u>	<u>Vibration and Shock</u>	Environmental Con- firmations		
urther information						
	ed to exit the Russian mark		under hundrage			
Siemens is working Please contact your l EAC relevant market Information on the p	com/global/en/pressrelease on the renewal of the curr ocal Siemens office on the si (other than the sanctioned E packaging ry.siemens.com/cs/ww/en/vie	ent EAC certificates. atus of validity of the E AEU member states R	AC certification if you inten	d to import or offer to suppl	y these products to a	
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 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

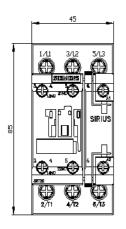
 http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2024-1AF00&lang=en

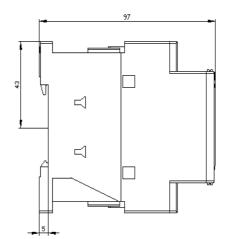
 Characteristic: Tripping characteristics, I²t, Let-through current

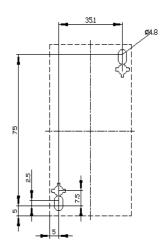
 https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-1AF00/char

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

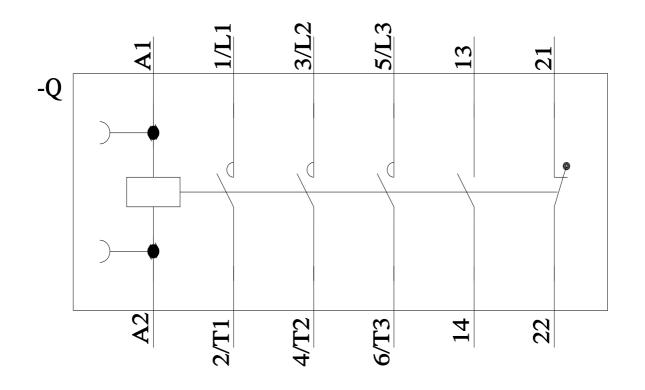
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