## SIEMENS

## Data sheet

## 3RT2024-1BG40



power contactor, AC-3 12 A, 5.5 kW / 400 V 1 NO + 1 NC, 125 V DC 3-pole, Size S0 screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S0
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	1.5 W
• per pole	0.5 W
power loss [W] for rated value of the current without load current share typical	5.9 W
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	10g / 5 ms, 7,5g / 10 ms
shock resistance with sine pulse	
• at DC	15g / 5 ms, 10g / 10 ms
mechanical service life (switching cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.10.2009 00:00:00
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
<ul> <li>ambient temperature during operation</li> </ul>	-25 +60 °C
<ul> <li>ambient temperature during storage</li> </ul>	-55 +80 °C
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

operational current	-
at AC-1 at 400 V at ambient temperature 40 °C	40 A
• at AC-1	
	40.4
— up to 690 V at ambient temperature 40 °C rated value	40 A
— 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
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	12.5 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	35.2 A
<ul> <li>at AC-5b up to 400 V rated value</li> <li>at AC-6a</li> </ul>	9.9 A
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	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
<ul> <li>up to 690 V for current peak value n=20 rated value</li> <li>at AC-6a</li> </ul>	9 A
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	7.6 A
— up to 400 V for current peak value n=30 rated value	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 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 A
	2.9 A
— at 440 V rated value	
— at 440 V rated value — at 600 V rated value	1.4 A
	1.4 A
— at 600 V rated value	1.4 A

— at 110 V rated value	2.5 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 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 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-2 at 400 V rated value	5.5 kW				
• at AC-3					
— at 230 V rated value	3 kW				
— at 400 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					
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	4.5 kV·A				
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	7.8 kV·A				
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	9.8 kV·A				
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	10.7 kV·A				
operating apparent power at AC-6a					
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	3 kV·A				
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	5.2 kV·A				
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	6.5 kV·A				
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	9 kV·A				
short-time withstand current in cold operating state					
up to 40 °C					
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	210 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	210 A; Use minimum cross-section acc. to AC-1 rated value				
Imited to 10 s switching at zero current maximum	162 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	103 A; Use minimum cross-section acc. to AC-1 rated value				
Imited to 60 s switching at zero current maximum	88 A; Use minimum cross-section acc. to AC-1 rated value				
no-load switching frequency	4 500 4 1				
• at DC	1 500 1/h				
operating frequency	4.000.4%				
• at AC-1 maximum	1 000 1/h				
• at AC-2 maximum	1 000 1/h				
• at AC-3 maximum	1 000 1/h				
• at AC-4 maximum	300 1/h				
Control circuit/ Control	20				
type of voltage of the control supply voltage	DC				
control supply voltage at DC	10E \/				
rated value     operating range factor control supply voltage rated	125 V				
operating range factor control supply voltage rated value of magnet coil at DC					
• initial value	0.8				
full-scale value	1.1				

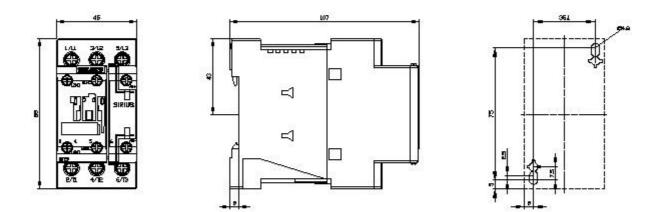
closing power of magnet coil at DC	5.9 W			
holding power of magnet coil at DC	5.9 W			
closing delay	5.3 W			
• at DC	50 170 ms			
opening delay				
• at DC	15 17.5 ms			
arcing time	_ 15 17.5 ms _ 10 10 ms			
control version of the switch operating mechanism	Standard A1 - A2			
Auxiliary circuit				
number of NC contacts for auxiliary contacts	1			
instantaneous contact				
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			
<ul> <li>at 400 V rated value</li> </ul>	3 A			
<ul> <li>at 500 V rated value</li> </ul>	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			
<ul> <li>at 125 V rated value</li> </ul>	2 A			
<ul> <li>at 220 V rated value</li> </ul>	1 A			
• at 600 V rated value	0.15 A			
operational current at DC-13				
<ul> <li>at 24 V rated value</li> </ul>	10 A			
<ul> <li>at 48 V rated value</li> </ul>	2 A			
<ul> <li>at 60 V rated value</li> </ul>	2 A			
<ul> <li>at 110 V rated value</li> </ul>	1 A			
<ul> <li>at 125 V rated value</li> </ul>	0.9 A			
<ul> <li>at 220 V rated value</li> </ul>	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]				
for single-phase AC motor				
— at 110/120 V rated value	1 hp			
— at 230 V rated value	2 hp			
• for 3-phase AC motor				
— at 200/208 V rated value	3 hp			
— at 220/230 V rated value	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			
Short-circuit protection				
design of the fuse link				
for short-circuit protection of the main circuit				
- 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: 22A (690V,100kA), BS88: 25A (415V,80kA)			
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	gG: 10 A (500 V, 1 kA)			
required				
Installation/ mounting/ dimensions				

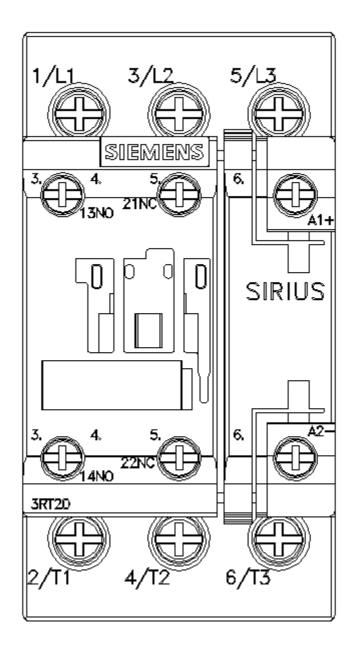
mounting position         +180° robion possible or verical mounting surface; can be tilled forward and backward vty -22 ° or verical mounting surface; science ward snap-on mounting onto 35 mm standard mounting rail according to DNE Ne 00715           • side-by-side mounting         Yes           • height         86 mm           width         45 mm           • date-by-side mounting         Yes           • mounting onto 35 mm standard mounting rail according to DNE Ne 00715         Yes           • height         86 mm           width duby-side mounting         10           • width duby-side mounting         10           • width duby-side mounting         10           - forwards         10 mm           - upwards         10 mm           - dowards         10 mm					
fastening method     screw and snap-on mounting onto 35 mm standard mounting rail action to 100 key side mounting       height     Yes       height     86 mm       depth     107 mm       required spacing     100 mm       - upwards     10 mm       - upwards     10 mm       - upwards     10 mm       - downwards     10 mm       - upwards     10 mm       - forwards     10 mm       - upwards     10 mm       - upwards     10 mm       - for auxiliary and control circuit     screw-type terminals       - otor auxiliary and control circuit     screw-type terminals       - otor auxiliary and control circuit     screw-type terminals       - otor auxiliary and control circuit     screw-type terminals       - at the side     for main contacts       - add     2x (1 25 mm?), 2x (2.5 10 mm²)       - add	mounting position				
• side-hy-side mounting     Yes       height     85 mm       • depth     95 mm       • depth     107 mm       required spacing     107 mm       • with side-by-side mounting     107 mm       • downards     10 mm       - upwards     10 mm       - upwards     10 mm       - downards     10 mm       - downards     10 mm       - at the side     0 mm       - for vards     10 mm       - downards     10 mm       - downards     10 mm       - downards     10 mm       - downards     10 mm       - for vards     10 mm       - downards     10 mm       - downards     10 mm       - for vards     10 mm       - for vards     10 mm       - downards     10 mm       - for vards     10 mm       - for varis current circuit     screw-type terminals       screw-type terminals     screw-type terminals       screw-type terminals     screw-type terminals       - for varis contacts     screw-type terminals       - olid     Screw-type terminals       - for varis contacts     screw-type terminals       - olid or stranded     tr. 1.2 5 mm?), 2x (2.5 10 mm?)       - solid	fastening method	screw and snap-on mounting onto 35 mm standard mounting rail			
height     85 mm       width     45 mm       depth     107 mm       required spacing     10 mm       - upwards     10 mm       - upwards     10 mm       - downwards     10 mm       - downwards     10 mm       - upwards     10 mm       - downwards     10 mm       - downwards     10 mm       - upwards     10 mm       - upwards     10 mm       - upwards     10 mm       - downwards     10 mm       - downwares     10 mm	<ul> <li>side-by-side mounting</li> </ul>	-			
with         45 mm           deph         107 mm           required spacing         107 mm           • with side by-side mounting         10 mm           - upwards         10 mm           - upwards         10 mm           - downwards         10 mm           - odid         screw-type terminals           Screw-type terminals         Screw-type terminals           - odid or stranded         screw-type terminals           - odid or stranded         2k (1					
required spacing     • with side-by-side mounting       - Gowards     10 mm       - upwards     10 mm       - downwards     10 mm       - onwards     10 mm       - ontorstile     6 mm       for auxiliary and contol circuit     screw-type terminals       of mains contacts     2 (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )       - ofid auxiliary contacts					
required spacing         • with side-by-side mounting         - upwards         - upwards         - downwards         10 mm         - downwards         - for grounded parts         - forwards         - downwards         - downwards         - forwards         - downwards         - for live parts         - downwards         - downwards         10 mm         - downwards         - at the side         - for axiliary and contro	depth	107 mm			
• with side-by-side mounting     10 mm       forwards     10 mm       downwards     10 mm       downwards     10 mm       downwards     10 mm       forwards     10 mm       downwards     10 mm       downwards     10 mm       forwards     10 mm       forwards     10 mm       downwards     50 mm       for auxiliary contacts     Screw-type terminals       - for auxiliary contacts     Screw-type terminals       - or auxiliary contacts     Screw-type terminals       - or auxiliary contacts     Screw-type terminals       - or auxiliary contacts     Screw-type terminals       - for	•	-			
forwards     10 mm       upwards     10 mm       downwards     0 mm       at the side     0 mm       forwards     10 mm       forwards     10 mm       forwards     10 mm       upwards     10 mm       downwards     50 mm       of auxillary contol circuit     5crew-type terminals       for auxillary contods     2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 10 mm <sup>3</sup> )       fiely stranded with core end pr					
- downwards     10 mm       - at the side     0 mm       - for grounded parts     10 mm       - forwards     10 mm       - upwards     10 mm       - downwards     5 mm       - downwards     5 mm       - of main current circuit     screw-type terminals       • of main current circuit     screw-type terminals       • of main contacts     - scild       - of magnet coll     2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )       - nold or stranded     2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )       - nold or stranded     2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> - of adowareade with core end processing </td <td>— forwards</td> <td>10 mm</td>	— forwards	10 mm			
- downwards10 mm- at the side0 mm- for grounded parts10 mm- forwards10 mm- upwards0 mm- upwards0 mm- downwards10 mm- downwards10 mm- forwards10 mm- forwards10 mm- forwards10 mm- forwards10 mm- upwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards5 mmConnections/ Terminals5 crew-type terminals- for axiliary and control circuitscrew-type terminals- for main current circuitscrew-type terminals- for main current circuitscrew-type terminals- for main current circuitscrew-type terminals- of magnet coll2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid constance2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid cor stranded1 10 mm²- solid cor stranded1 10 mm²- solid cor stranded1 10 mm²- solid cor stranded2.5 2.5 mm²), 2x (0.75 2.5 mm²)- solid cor stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)- forly stranded with core end processing0.5 2.5 mm²- new tarbarded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)- solid cor stranded2x (0.5 1.5 m	— upwards	10 mm			
• for grounded parts     10 mm       - forwards     10 mm       - growards     6 mm       - at the side     6 mm       - downwards     10 mm       - downwards     10 mm       - forwards     10 mm       - growards     10 mm       - downwards     6 mm       - downwards     5 mm       - downwards     2 x (1 2 5 mm <sup>2</sup> ), 2 x (2 5 10 mm <sup>2</sup> )       - mold     2 x (1 2 5 mm <sup>2</sup> ), 2 x (2 5 6 mm <sup></sup>		10 mm			
- forwards       10 mm         - upwards       10 mm         - upwards       10 mm         - downwards       10 mm         - for live parts       10 mm         - forwards       10 mm         - upwards       10 mm         - forwards       10 mm         - upwards       10 mm         - upwards       10 mm         - downwards       10 mm         - downwards       10 mm         - downwards       0 mm         - downwards       6 main current circuit         screw-type terminals       5 corew-type terminals         - for auxiliary contacts       5 crew-type terminals         - solid       2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 10 mm <sup>3</sup> )         - solid or stranded       2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 10 mm <sup>3</sup> )         - solid or stranded       1 10 mm <sup>2</sup> - solid or stranded       1 10 mm <sup>2</sup> - solid or stranded       1 10 mm <sup>3</sup> - finely stranded	— at the side	0 mm			
- forwards       10 mm         - upwards       10 mm         - upwards       10 mm         - downwards       10 mm         - for live parts       10 mm         - forwards       10 mm         - upwards       10 mm         - forwards       10 mm         - upwards       10 mm         - upwards       10 mm         - downwards       10 mm         - downwards       10 mm         - downwards       0 mm         - downwards       6 main current circuit         screw-type terminals       5 corew-type terminals         - for auxiliary contacts       5 crew-type terminals         - solid       2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 10 mm <sup>3</sup> )         - solid or stranded       2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 10 mm <sup>3</sup> )         - solid or stranded       1 10 mm <sup>2</sup> - solid or stranded       1 10 mm <sup>2</sup> - solid or stranded       1 10 mm <sup>3</sup> - finely stranded	• for grounded parts				
	<b>o</b>	10 mm			
downwards10 mm• for live parts0 mm upwards10 mm upwards10 mm downwards0 mm downwards0 mm dthe side6 mmConnections/ TerminalsScrew-type t	— upwards	10 mm			
• for live parts         - forwards         10 mm           - upwards         10 mm           - upwards         10 mm           - downwards         10 mm           - at the side         6 mm           Connections/ Terminals           • for main current circuit         screw-type terminals           • for auxiliary and control circuit         screw-type terminals           • of magnet coil         Screw-type terminals           • for main contacts         Screw-type terminals           • of magnet coil         Screw-type terminals           • for main contacts         Screw-type terminals           • for main contacts         Screw-type terminals           • a solid         2x (1 2.5 mm²), 2x (2.5 10 mm²)           - solid cor stranded         2x (1 2.5 mm²), 2x (2.5 10 mm²)           - solid cor stranded         2x (1 2.5 mm²), 2x (2.5 10 mm²)           • solid cor stranded         1 10 mm²           • solid cor stranded         1 10 mm²           • solid cor stranded         0.5 2.5 mm²           • solid cor stranded         0.5 2.5 mm²           • solid cor stranded         0.5 2.5 mm²           • for auxiliary contacts         Screw-type terminals           • solid cor stranded<	•	6 mm			
forwards10 mm upwards10 mm downwards0 mm downwards0 mm downwards6 mmConnections/ Terminalsscrew-type terminals for main current circuit- for main current circuitscrew-type terminals- at contactor for auxiliary contactsScrew-type terminals- of magnet collScrew-type terminals- of main contacts	— downwards	10 mm			
forwards10 mm upwards10 mm downwards0 mm downwards0 mm downwards6 mmConnections/ Terminalsscrew-type terminals for main current circuit- for main current circuitscrew-type terminals- at contactor for auxiliary contactsScrew-type terminals- of magnet collScrew-type terminals- of main contacts	<ul> <li>for live parts</li> </ul>				
upwards10 mm downwards6 mmConnections/ Terninalstype of electrical connection• for main current circuitscrew-type terminals• for main current circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminals• of main contactsScrew-type terminals• of main contactsScrew-type terminals• solid or stranded2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )• at AWG cables for main contacts2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> • solid1 10 mm <sup>2</sup> • solid1 10 mm <sup>2</sup> • solid or stranded1 10 mm <sup>2</sup> • finely stranded with core end processing1 10 mm <sup>2</sup> • finely stranded with core end processing1 10 mm <sup>2</sup> • solid or stranded0.5 2.5 mm <sup>3</sup> • solid or stranded0.5 2.5 mm <sup>3</sup> • solid or stranded2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> )• finely stranded with core end processing2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> )• finely stranded with core end processing2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> )• of consctable conductor cross-sections2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> )• finely stranded with core end processing2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5	•	10 mm			
- downwards10 mm- at the side6 mmConnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminals• for main contactsScrew-type terminals• of magnet coil2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid or stranded2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²- solid1 10 mm²- solid or stranded1 10 mm²- solid1 10 mm²- solid1 10 mm²- solid or stranded0.5 2.5 mm²- solid or stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)- solid or stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)- solid or stranded2x (20 1.5 mm²), 2x (0.75 2.5 mm²)- solid or stranded2x (20 1.5 mm²), 2x (0.75 2.5 mm²)- solid or stranded2x (20 1.5 mm²), 2x (0.75 2.5 mm²)- solid or stranded2x (20 1.5 mm²), 2x (0.75 2.5 mm²)-					
at the side     6 mm       Connections/ Terminals       if or main current circuit     screw-type terminals       i for auxiliary and control circuit     screw-type terminals       i to rauxiliary and control circuit     screw-type terminals       i to rauxiliary and control circuit     screw-type terminals       i to rauxiliary contacts     Screw-type terminals       of main contacts     Screw-type terminals       solid     2x (1 2.5 mm²), 2x (2.5 10 mm²)       solid or stranded     2x (1 2.5 mm²), 2x (2.5 10 mm²)       solid or stranded     2x (1 2.5 mm²), 2x (2.5 10 mm²)       solid or stranded     2x (1 2.5 mm²), 2x (2.5 10 mm²)       solid or stranded     1 10 mm²       connectable conductor cross-section for main     contacts       • solid or stranded     1 10 mm²       • stranded     1 10 mm²       • solid or stranded     0.5 2.5 mm²       • solid or stranded     0.5 2.5 mm²       • finely stranded with core end processing     0.5 2.5 mm²       • for auxiliary contacts     2x (0.7 5 2.5 mm²)       • solid or stranded     0.5 2.5 mm²       • finely stranded with core end processing     2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)       • solid or stranded     2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)       <					
Connections / Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         • at contactor for auxiliary contacts         • of magnet coil         • of main current circuit         • at contactor for auxiliary contacts         • of magnet coil         Screw-type terminals         • for main contacts         - solid         - solid or stranded         - solid or stranded         - finely stranded with core end processing         • stranded         • stranded         • stranded         • stranded         • finely stranded with core end processing         • at AWG cables					
type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts</li> <li>solid or stranded</li> <li>at AWG cables for main contacts</li> <li>finely stranded with core end processing</li> <li>at add with core end processing</li> <li>at AWG cables for main contacts</li> <li>at add with core end processing</li> <li>be olid or stranded</li> <li>at add with core end processing</li> <li>at add with core end processing</li> <li>be olid or stranded</li> <li>at add with core end processing</li> <li>be add add add add add add add add add ad</li></ul>					
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<ul> <li>for auxiliary contacts         <ul> <li>solid or stranded</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section for main contacts</li> <li>AWG number as coded connectable conductor cross section for auxiliary contacts</li> </ul> </li> <li>AWG number as coded connectable conductor cross section for main contacts</li> <li>AWG number as coded connectable conductor cross section for auxiliary contacts</li> </ul> <li>Safety related data         <ul> <li>B10 value with high demand rate acc. to SN 31920</li> <li>1 000 000</li> <li>proportion of dangerous failures</li> </ul> </li>	<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²			
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AWG number as coded connectable conductor cross section for main contacts     AWG number as coded connectable conductor cross section for auxiliary contacts     Safety related data     B10 value with high demand rate acc. to SN 31920     1 000 000     proportion of dangerous failures	<ul> <li>— finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
cross section for main contacts     20 14       • AWG number as coded connectable conductor cross section for auxiliary contacts     20 14       Safety related data     1 000 000       proportion of dangerous failures     1 000 000	<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)			
cross section for auxiliary contacts       Safety related data       B10 value with high demand rate acc. to SN 31920     1 000 000       proportion of dangerous failures		16 8			
B10 value with high demand rate acc. to SN 31920       1 000 000         proportion of dangerous failures       1000 000		20 14			
proportion of dangerous failures	Safety related data				
proportion of dangerous failures	B10 value with high demand rate acc. to SN 31920	1 000 000			
	with low demand rate acc. to SN 31920	40 %			
• with high demand rate acc. to SN 31920 73 %	<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	73 %			

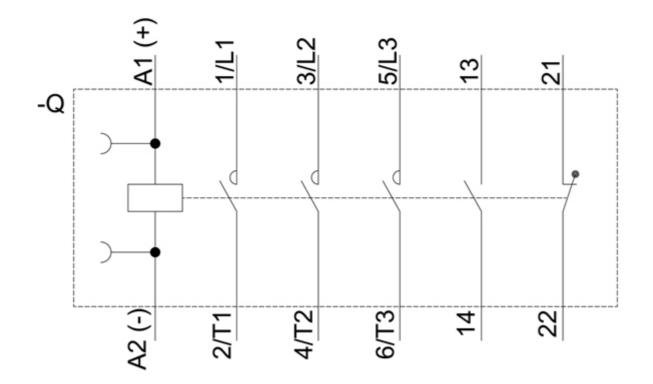
failure rate [FIT] with low	v demand rate acc.	to SN 31920	100 FIT			
product function						
<ul> <li>mirror contact acc</li> </ul>	• mirror contact acc. to IEC 60947-4-1					
T1 value for proof test IEC 61508	T1 value for proof test interval or service life acc. to IEC 61508		20 у			
protection class IP on	the front acc. to IE	EC 60529	IP20			
touch protection on th	e front acc. to IEC	60529	finger-safe, for ve	ertical contac	t from the front	
suitability for use safety-related switching OFF Yes						
Certificates/ approvals						
General Product App	roval					EMC
SP Car			KC	2	EHC	RCM
Declaration of Confor	mity	Test Certificat	es		Marine / Shipping	
<u>Miscellaneous</u>	CE EG-Konf.	<u>Special Tes</u> <u>Certificate</u>	<u>t Type</u> <u>Certificat</u> <u>Rep</u>	tes/Test	ABS	B U R E A U VERITAS
Marine / Shipping					other	
Lloyds Register us	RINA	RMRS	EMVOLEE		<u>Confirmation</u>	VDE
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Information- and Down https://www.siemens.co Industry Mall (Online of https://mall.industry.sier Cax online generator http://support.automatio Service&Support (Mar https://support.industry. Image database (prodd	m/ic10 prdering system) nens.com/mall/en/e n.siemens.com/WW nuals, Certificates, siemens.com/cs/ww uct images, 2D din	n/Catalog/product? //CAXorder/default Characteristics, F //en/ps/3RT2024-1 nension drawings	Pmlfb=3RT2024-1E .aspx?lang=en&ml FAQs,) BG40 , 3D models, devi	lfb=3RT2024		icros,)
Image database (produ http://www.automation.s Characteristic: Trippin	siemens.com/bilddb	/cax_de.aspx?mlfb	=3RT2024-1BG40		iagrams, EPLAN ma	icros,)

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-1BG40/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2024-1BG40&objecttype=14&gridview=view1







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