SIEMENS

Data sheet

3RT2023-1BW40



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 48 V DC, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0

9/13	
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S0
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	0.6 W
 at AC in hot operating state per pole 	0.2 W
 without load current share typical 	5.9 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
 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	
 of main circuit rated value 	6 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	10g / 5 ms, 7,5g / 10 ms
shock resistance with sine pulse	
• at DC	15g / 5 ms, 10g / 10 ms
mechanical service life (operating cycles)	
 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
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Weight	0.588 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
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 %

Environmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	221 kg
global warming potential [CO2 eq] during manufacturing	2.65 kg
global warming potential [CO2 eq] during operation	219 kg
global warming potential [CO2 eq] after end of life	-0.639 kg
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
• at AC-3e rated value maximum	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated value	40 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	40 A
— up to 690 V at ambient temperature 60 °C rated value	35 A
• at AC-3	0.4
— at 400 V rated value	9 A 9 A
— at 500 V rated value	
 — at 690 V rated value • at AC-3e 	9 A
• at 400 V rated value	9 A
— at 500 V rated value	9 A
— at 690 V rated value	9 A
at AC-4 at 400 V rated value	8.5 A
• at AC-5a up to 690 V rated value	35.2 A
• at AC-5b up to 400 V rated value	7.4 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	9.1 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
 — up to 400 V for current peak value n=30 rated value 	7.6 A
 — up to 500 V for current peak value n=30 rated value 	6.1 A
— up to 690 V for current peak value n=30 rated value	6.1 A
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm ²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	4.1 A
at 690 V rated value	3.3 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	35 A
- at 60 V rated value	20 A
- at 110 V rated value	4.5 A
- at 220 V rated value	1A
— 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 24 V rated value — at 60 V rated value	35 A 35 A
— at 60 V rated value — at 110 V rated value	35 A 35 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
	0.071

 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
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	20 A
— at 60 V rated value	5 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
 with 2 current paths in series at DC-3 at DC-5 	
— 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	0.27 A
	0.10 A
with 3 current paths in series at DC-3 at DC-5 at 24 V reted value	25.0
— 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-2 at 400 V rated value 	4 kW
• at AC-3	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 kW
— at 690 V rated value	7.5 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	2 kW
• at 690 V rated value	2.5 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 	7.8 kVA
 up to 690 V for current peak value n=20 rated value 	10.7 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	3 kVA
• up to 400 V for current peak value n=30 rated value	5.2 kVA
• up to 500 V for current peak value n=30 rated value	5.2 kVA
• up to 690 V for current peak value n=30 rated value	7.2 kVA
short-time withstand current in cold operating state up to	
40 °C	
 limited to 1 s switching at zero current maximum 	170 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	170 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	140 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	104 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	88 A; Use minimum cross-section acc. to AC-1 rated value
- annou to bo o ownoring at 2010 barront maximum	

no-load switching frequency	1 500 1/h
• at DC	1 500 1/h
operating frequency	
• 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-3e maximum	1 000 1/h
• at AC-4 maximum	300 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC rated value	48 V
operating range factor control supply voltage rated value of magnet coil at DC	
initial value	0.8
full-scale value	1.1
closing power of magnet coil at DC	5.9 W
holding power of magnet coil at DC	5.9 W
closing delay	
• at DC	50 170 ms
opening delay	
• at DC	15 18 ms
arcing time	10 10 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 A
• 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
 at 48 V rated value 	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 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
- at 105 \/ rated value	
 at 125 V rated value 	0.9 A
at 125 V rated value at 220 V rated value	0.9 A 0.3 A
at 220 V rated valueat 600 V rated value	0.3 A 0.1 A
at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts	0.3 A
at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings	0.3 A 0.1 A
at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor	0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value	0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 7.6 A
at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value	0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value yielded mechanical performance [hp]	0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 7.6 A
at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value yielded mechanical performance [hp] ofor single-phase AC motor	0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 7.6 A 9 A
at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value	0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 7.6 A 9 A 1 hp
at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value idled mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value — at 230 V rated value	0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 7.6 A 9 A
at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value	0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) 7.6 A 9 A 1 hp

	— at 220/230 V rated value	3 hp		
contract using of auxiliary contacts according to UL A000 / P000 Start discuit grouted using to 230 v design of the fuse link. of the scaling of the fuse link. C chanceletsitic: 10 A, 0.4 KA - with type of constitution to required g: 83A (880V, 100KA), abl. 22A (880V, 100KA), BS88: 63A (415V, 80KA) - with type of constitution to required g: 83A (880V, 100KA), abl. 22A (880V, 100KA), BS88: 63A (415V, 80KA) - with type of constitution to required g: 26A (880V, 100KA), abl. 22A (880V, 100KA), BS88: 63A (415V, 80KA) - with type of constitution to required g: 26A (880V, 100KA), abl. 22A (880V, 100KA), BS88: 63A (415V, 80KA) - with type of constitution to required g: 26A (880V, 100KA), abl. 22A (880V, 100KA), BS88: 63A (415V, 80KA) mounting particle g: 26A (880V, 100KA), abl. 22A (880V, 100KA), BS88: 25A (415V, 80KA) fastering method size ward snage-on neutring without and bableward by +-2.25 for vertical mounting surface, can be lifted forward and bableward by +-2.25 for vertical mounting surface, can be lifted forward and bableward by +-2.25 for vertical mounting without and the size ward snage-on neutring without and t				
Stort-Circuit protection Characteristic: 10 A: 0.4 kA of the sunlary discut up to 200 V Characteristic: 10 A: 0.4 kA design of the fusible occut break for both-circuit protection C characteristic: 10 A: 0.4 kA - with type of assignment 2 required g6: 53A (850V, 100KA), abl. 32A (850V, 100KA), BS88: 53A (415V, 850KA) - with type of assignment 2 required g6: 53A (850V, 100KA), abl. 22A (850V, 100KA), BS88: 25A (415V, 850KA) - with type of assignment 2 required g6: 10 A (500 V, 100KA), abl. 22A (850V, 100KA), BS88: 25A (415V, 850KA) - with type of assignment 2 required g6: 10 A (500 V, 100KA), abl. 22A (850V, 100KA), BS88: 25A (415V, 850KA) - with side pool assignment 2 required g6: 10 A (500 V, 10KA), abl. 22A (850V, 100KA), BS88: 25A (415V, 850KA) - working poolition +/180* reduint poolition Vestical mounting surface, tan be billed forward and backward by viz 22 for vertical mounting surface, tan be billed forward and backward by viz 22 for vertical mounting surface, tan be billed forward and backward by viz 22 for vertical mounting surface, tan be billed forward and backward by viz 22 for vertical mounting surface, tan be billed forward and backward by viz 22 for vertical mounting surface, tan bill able by suble mounting onto 35 mm DIN reli according to DIN EN 0715 - forwards 10 mm - or orwards 10 mm - or orwards 10 mm - orwards 10 mm <td></td> <td colspan="3"></td>				
design of the mustature incurul protection of the auxiliary control up to 230 v C characteristic: 10 A; 0.4 kA design of the fuse link of standing routing protection of the main dircuit is of standing protection of the main dircuit or with type of consolination 1 required is for short-care protection of the auxiliary switch required gc: 10.4 (600 V, 10kA), ank: 50A (600V, 100kA), BSSB: 63A (415V, 80KA) gc: 10.4 (600 V, 11kA) gc: 10.4 (600 V, 11kA), ank: 50A (600V, 100kA), BSSB: 63A (415V, 80KA) gc: 10.4 (600 V, 11kA) gc: 10.4 (600 V, 11kA), ank: 50A (600V, 100kA), BSSB: 63A (415V, 80KA) gc: 10.4 (600 V, 11kA) gc: 10.4 (600 V, 11kA), ank: 50A (600V, 100kA), BSSB: 63A (415V, 80KA) gc: 10.4 (600 V, 11kA), ank: 50A (600V, 100kA), BSSB: 63A (415V, 80KA) gc: 10.4 (600 V, 11kA), ank: 50A (600V, 100kA), BSSB: 52A (415V, 80KA) gc: 10.4 (600 V, 11kA), ank: 50A (600 V, 100kA), BSSB: 52A (415V, 80KA) gc: 10.4 (600 V, 11kA), ank: 50A (600 V, 100kA), ank: 50A (600 V, 100kA), BSSB: 52A (415V, 80KA) gc: 10.4 (600 V, 11kA), ank: 50A (600 V, 11kA), ank: 50A (600 V, 100kA), BSSB: 52A (415V, 80KA) gc: 10.4 (600 V, 11kA), ank: 50A (600 V, 11kA), ank: 50A (600 V, 100kA), ank: 50A (600 V, 11kA), ank: 50A (
design of the fue link. for short-ficing production is required g5: 63.4 (690V, 100kA), abl: 32.4 (690V, 100kA), BS88: 63.4 (415V, 80kA) g5: 76.4 (690V, 100kA), abl: 32.0 (690V, 100kA), BS88: 63.4 (415V, 80kA) g6: 76.4 (690V, 100kA), abl: 32.0 (690V, 100kA), BS88: 63.4 (415V, 80kA) g6: 76.4 (690V, 100kA), abl: 32.0 (690V, 100kA), BS88: 63.4 (415V, 80kA) g6: 76.4 (690V, 100kA), abl: 32.0 (690V, 100kA), BS88: 63.4 (415V, 80kA) g6: 76.4 (690V, 100kA), abl: 32.0 (690V, 100kA), BS88: 63.4 (415V, 80kA) g6: 76.4 (690V, 100kA), abl: 32.0 (690V, 100kA), BS88: 63.4 (415V, 80kA) g6: 76.4 (690V, 100kA), abl: 32.0 (690V, 100kA), BS88: 63.4 (415V, 80kA) g6: 76.4 (690V, 100kA), abl: 32.0 (690V, 100kA), BS88: 63.4 (415V, 80kA) g6: 76.4 (690V, 100kA), abl: 32.0 (690V, 100kA), BS88: 63.4 (415V, 80kA) g7: 76.4 (690V, 100kA), abl: 32.0 (690V, 100kA), BS88: 63.4 (415V, 80kA) g8: 76.4 (690V, 100kA), abl: 32.0 (690V, 100kA), BS88: 63.4 (415V, 80kA) g8: 76.4 (690V, 100kA), abl: 32.0 (690V, 100kA), BS88: 63.4 (415V, 80kA) g8: 76.4 (690V, 100kA), abl: 32.0 (690V, 100kA), BS88: 63.4 (415V, 80kA) g8: 76.4 (700V, 100kA), BS88: 63.4 (415V, 80kA) g9: 76.4 (700V, 1	design of the miniature circuit breaker for short-circuit protection	C characteristic: 10 A; 0.4 kA		
- with type of coordination 1 required - with type of assignment 2 required of a short-circuit protection of the auxiliary switch required gc: 10.4 (600 V, 100 A), abt: 20.4 (690 V, 100 A), BS38: 25A (415V, 80 A) gc: 10.4 (600 V, 100 A), abt: 20.4 (690 V, 100 A), BS38: 25A (415V, 80 A) required protection for auxiliary switch required fastening method side-by-side mounting fastening method side-by-side mounting fastening method side-by-side mounting fastening method side-by-side mounting fastening method side-by-side mounting with side-by-side mounting with side-by-side mounting - forwards - upwards - upwards - forwards - forward				
- with spee of assignment 2 required of a short decut protection of the auxiliary switch required gG: 10 A (600 V, 11 kA) mounting dimensions +/180° rotation possible on vertical mounting surface; can be titled forward and backword by /* 2.2 ° on vertical mounting surface; can be titled forward and backword by /* 2.2 ° on vertical mounting surface; can be titled forward and backword by /* 2.2 ° on vertical mounting surface; can be titled forward and backword by /* 2.2 ° on vertical mounting surface; can be titled forward and backword by /* 2.2 ° on vertical mounting surface; can be titled forward and backword by /* 2.2 ° on vertical mounting surface; can be titled forward and backword by /* 2.2 ° on vertical mounting surface; can be titled forward and backword by /* 2.2 ° on vertical mounting surface; can be titled forward and backword by /* 2.2 ° on vertical mounting surface; can be titled forward and backword by /* 2.2 ° on vertical mounting surface; can be titled forward and backword by /* 2.2 ° on vertical mounting surface; can be titled forward and backword by /* 2.2 ° on vertical mounting surface; can be titled forward and backword by /* 2.2 ° on vertical mounting surface; can be titled forward and backword by /* 2.2 ° on vertical mounting surface; can be titled forward and backword by /* 2.2 ° on vertical mounting surface; can be titled forward and backword by /* 2.2 ° on vertical mounting surface; can be titled forward and backword by /* 2.2 ° on vertical mounting surface; can be titled forward and - forwards 10 mm - upwards 2 ° on meutical * of main current clouid * scree whee terminals * of main current clouid * scree whee terminals * of main current clouid * scree whee terminals * of main current clouid * 2 × (1 2 5 mm), 2 × (2 5 10 mm²) - solid or stranded 1 10 mm² - finely stranded with core end processing 2 × (1 2 5 mm²), 2 × (0 5 15 mm²) * of avano	 for short-circuit protection of the main circuit 			
• for short-croat protection of the sualitary switch required gct. 10 A (500 V, 1 kA) insufficient of mounting sufface; can be titled forward and backward by V 2.2 S ⁻⁰ on vertical mounting sufface; can be titled forward and backward by V 2.2 S ⁻⁰ on vertical mounting sufface; fastening method side-by-side mounting Ves fastening method side-by-side mounting Ves fastening method Screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 backyn with side-by-side mounting	 — with type of coordination 1 required 	gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)		
Institution/ mounting dimensions 4:100 relation possible on vertical mounting surface; can be tilted forward and backward by s/- 22.5 'on vertical mounting surface; fastening method disc by side mounting Yes fastening method disc by side mounting Yes fastening method disc by side mounting onto 35 mm DIN rail according to DIN EN 60715 The provide mounting regulated spacing 10 mm - downwards 10 mm - downwards <td< td=""><td>- with type of assignment 2 required</td><td>gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)</td></td<>	- with type of assignment 2 required	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)		
meunting position +/160° rotation positile on vertical mounting surface fastening method screw and snap-on mounting onto 35 mm DN rail according to DN EN 60715 height 85 mm width 45 mm depth 107 mm required spacing 0 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - upwards 0 mm - upwards 0 mm - upwards 0 mm - upwards 0 mm - ordowrwards 0 mm - ordowrwards	 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)		
Image: State ing method side-by-side mounting Yes festening method side-by-side mounting on to 35 mm DIN rail according to DIN EN 60715 B8 mm height 85 mm width 45 mm depth 107 mm required spacing - • with side-by-side mounting - - forwards 10 mm - quards 10 mm - quards 10 mm - downwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - for and in current tirouit screw-type terminals	Installation/ mounting/ dimensions			
festening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 85 mm width 45 mm depth 107 mm required spacing 00 mm - Urwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - urwards 10 mm - downwards 10 mm - downwards <t< td=""><td>mounting position</td><td></td></t<>	mounting position			
height 85 mm width 46 mm depth 107 mm reculted spacing	fastening method side-by-side mounting	Yes		
width 45 mm depth 107 mm required spacing 107 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - of auxiliary contacts	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
depth 107 mm required spacing	height	85 mm		
required spacing • with side-by-side mounting forwards 10 mm upwards 10 mm downwards 00 mm downwards 0 mm downwards 0 mm downwards 10 mm forwards 10 mm forwards 10 mm forwards 10 mm downwards 10 mm of	width	45 mm		
• with side-by-side mountingI- forwards10 mm- downwards10 mm- downwards10 mm- downwards00 mm- at the side0 mm- for grounded parts10 mm- upwards10 mm- upwards10 mm- downwards10 mm- upwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards5 mm- downwards10 mm- downwards5 mm- for auxiliary contacts5 mm- for auxiliary contacts2 x (1 25 mm ³), 2x (25 10 mm ³)- solid or standed1 10 mm ³ - finely stranded wit	depth	107 mm		
forwards10 mm upwards10 mm downwards0 mm at the side0 mm at the side0 mm upwards10 mm upwards10 mm upwards10 mm downwards10 mm downwards50 mm for auxiliary and control circuitscrew-type terminals for auxiliary and control circuitscrew-type terminals of main contactsScrew-type terminals solid2x (1 25 mm²), 2x (25 10 mm²) solid or stranded2x (1 25 mm²), 2x (25 10 mm²) solid or stranded2x (1 25 mm²), 2x (25 10 mm²) solid1 10 mm² finely stranded with core end processing4 10 mm² solid or stranded1 10 mm² solid or stranded5 25 mm²) solid or stranded5 25 mm²) solid or stranded5 25 mm²) solid or stranded2x (0.5 15 mm²), 2x (0.75 .				
at the side0 mm• for grounded parts forwards10 mm growards10 mm at the side6 mm at the side6 mm downwards10 mm forwards10 mm forwards10 mm upwards10 mm upwards10 mm downwards10 mm downwards10 mm downwards10 mm downwards10 mm downwards5 mm for auxiliary contacts2 x (1 25 mm ²) 2x (25 10 mm ²) for auxiliary contacts2 x (1 25 mm ²) 2x (25 10 mm ²) for auxiliary contacts2 x (1 25 mm ²) 2x (25 10 mm ²) for auxiliary contacts2 x (1 25 mm ²) 2x (25 10 mm ²) for auxiliary contacts2 x (1 25 mm ²) 2x (14 8) for auxiliary contacts2 x (1 10 mm ² forley stranded with core end processing1 10 mm ² <t< td=""><td></td><td></td></t<>				
• for grounded parts				
- forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm - forwards 10 mm - forwards 10 mm - powards 10 mm - powards 10 mm - powards 10 mm - downwards 10 mm - at the side 6 mm Connectabons/ Terminals 6 mm of main current circuit screw-type terminals of rangent coll Screw-type terminals of magnet coll Screw-type terminals type of connectable conductor cross-sections 6 magnet coll type of connectable conductor cross-sections 2x (1 25 mm ³), 2x (2.5 10 mm ³) - solid or stranded 2x (1 25 mm ³), 2x (2.5 10 mm ³), 2x (2.5 6 mm ³), 1x 10 mm ² ornectable condu		0 mm		
upwards10 mm at the side6 mm downwards10 mm for vards10 mm forwards10 mm upwards10 mm upwards10 mm upwards10 mm at the side6 mmConnections/TerminalsConnections/Terminalsc for auxiliary and control circuitscrew-type terminalse for main current circuitscrew-type terminalse for main current circuitscrew-type terminalse for main current circuitscrew-type terminalse for auxiliary contactsScrew-type terminalsfype of connectable conductor cross-sections				
- at the side 6 mm - downwards 10 mm • for live parts 10 mm - forwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 0 mm - downwards 10 mm - downwards 0 mm - downwards 10 mm - downwards 0 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 6 mm connectons/Terminals 5 mm of ranginet coil screw-type terminals • of ranginet coil Screw-type terminals • of main contacts 2 x (1 2.5 mm²), 2x (2.5 10 mm²) - solid 2 x (1 2.5 mm²), 2x (2.5 10 mm²) - solid stranded 2 x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2 x (1 2.5 mm²), 2x (2.5 10 mm²) • for AWC cables for main contacts 2 x (1 2.5 mm²), 2 x (2.5 10 mm²) • inely str	— forwards			
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• for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14)				
	AWG number as coded connectable conductor cross			

section					
 for main contacts 	5		16 8		
 for auxiliary containing 	acts		20 14		
Safety related data					
product function					
 mirror contact ac 	cording to IEC 60947-4-1		Yes		
 positively driven 	operation according to IE	C 60947-5-1	No		
 suitable for safet 	y function		Yes		
suitability for use safety	-related switching OFF		Yes		
service life maximum			20 a		
test wear-related serv	ice life necessary		Yes		
proportion of dangero	ous failures				
 with low demand 	rate according to SN 319	20	40 %		
 with high demand 	d rate according to SN 31	920	73 %		
B10 value with high d	emand rate according to	SN 31920	1 000 000		
failure rate [FIT] with low demand rate according to SN		100 FIT			
31920		-			
ISO 13849					
device type according	•		3		
overdimensioning acc	ording to ISO 13849-2 n	ecessary	Yes		
IEC 61508					
safety device type acc	cording to IEC 61508-2		Туре А		
Electrical Safety					
protection class IP on	the front according to I	EC 60529	IP20		
touch protection on th	ne front according to IEC	60529	finger-safe, for vertical contac	t from the front	
Approvals Certificates					
General Product Approval	EMV	Test Certificate	95	Marine / Shipping	
EHC		<u>Type Test Cert</u> ates/Test Rep		ABS	
Marine / Shipping				other	
ĴÅ					
DNV	Llovd's Register urs	RINA	RMRS	Miscellaneous	<u>Confirmation</u>
Railway	Liss	RINA Environment	RMRS		<u>Confirmation</u>
		Environment	Environmental Con- firmations		Confirmation
Railway Special Test Certific- ate	Dangerous goods	Environment			Confirmation
Railway Special Test Certific- ate	Dangerous goods Transport Information	EPD			Confirmation
Railway Special Test Certific- ate urther information Information on the par https://support.industry.	Dangerous goods <u>Transport Information</u> ckaging siemens.com/cs/ww/en/vi nloadcenter (Catalogs, B om/ic10	EPD			Confirmation

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2023-1BW40

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

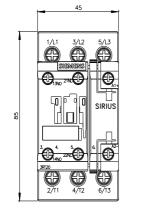
https://support.industry.siemens.com/cs/ww/en/ps/3RT2023-1BW40

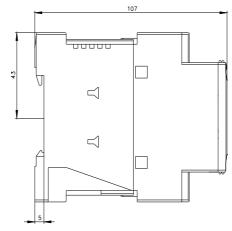
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2023-1BW40&lang=en

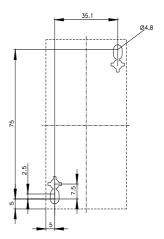
Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2023-1BW40/char

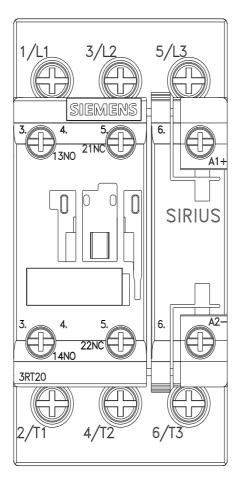
Further characteristics (e.g. electrical endurance, switching frequency)

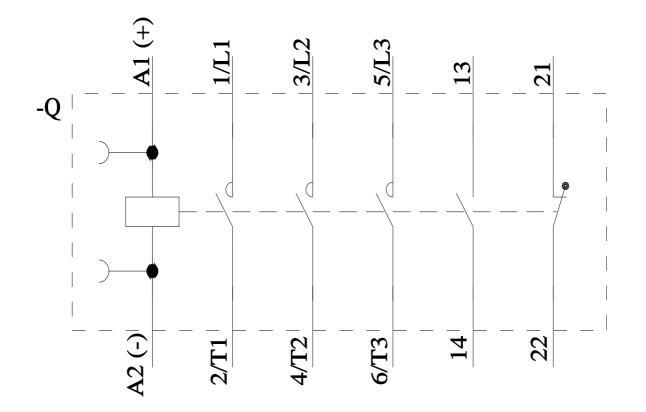
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2023-1BW40&objecttype=14&gridview=view1











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1/24/2025 🖸

1/31/2025