3RT2017-2CP04-3MA0

Data sheet



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 230 V AC, 50/60 Hz, with varistor plugged on, auxiliary contacts: 2 NO + 2 NC, spring-loaded terminal, size: S00, captive auxiliary switch

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
product extension	
 function module for communication 	No
auxiliary switch	No
power loss [W] for rated value of the current	
 at AC in hot operating state 	1.5 W
 at AC in hot operating state per pole 	0.5 W
without load current share typical	5.7 W
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 AC	7,3g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,4g / 5 ms, 7,3g / 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
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 %
Main circuit	
number of poles for main current circuit	3

	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	22 A
value	
• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	22 A
— up to 690 V at ambient temperature 60 °C rated	20 A
value	2077
• at AC-3	
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
• at AC-4 at 400 V rated value	8.5 A
• at AC-5a up to 690 V rated value	19.4 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	7.2 A
— up to 400 V for current peak value n=20 rated value	7.2 A
— up to 500 V for current peak value n=20 rated value	7.2 A
— up to 690 V for current peak value n=20 rated value	6.7 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	4.8 A
— up to 400 V for current peak value n=30 rated value	4.8 A
— up to 500 V for current peak value n=30 rated value	4.8 A
— up to 690 V for current peak value n=30 rated value	4.8 A
· · · · · · · · · · · · · · · · · · ·	
minimum cross-section in main circuit at maximum AC-1 rated	4 mm²
value	4 mm²
	4 mm²
value operational current for approx. 200000 operating cycles at	4 mm² 4.1 A
value operational current for approx. 200000 operating cycles at AC-4	
value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value	4.1 A
value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value	4.1 A
value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current	4.1 A
value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1	4.1 A 3.3 A
value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value	4.1 A 3.3 A 20 A
value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value	4.1 A 3.3 A 20 A 20 A
value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value	4.1 A 3.3 A 20 A 20 A 2.1 A
value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value	4.1 A 3.3 A 20 A 20 A 2.1 A 0.8 A
value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value	4.1 A 3.3 A 20 A 20 A 2.1 A 0.8 A 0.6 A
value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value	4.1 A 3.3 A 20 A 20 A 2.1 A 0.8 A 0.6 A
value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value • with 2 current paths in series at DC-1	4.1 A 3.3 A 20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A
value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 42 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value	4.1 A 3.3 A 20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A
operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value	4.1 A 3.3 A 20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A
value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value — at 60 V rated value — at 110 V rated value — at 110 V rated value	4.1 A 3.3 A 20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A
operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value	4.1 A 3.3 A 20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 20 A 21 A 20 A
operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value • at 10 V rated value • at 220 V rated value — at 24 V rated value — at 24 V rated value — at 24 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value	4.1 A 3.3 A 20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A 21 A 20
operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 24 V rated value — at 24 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value — at 440 V rated value — at 440 V rated value — at 440 V rated value — at 4600 V rated value — at 600 V rated value	4.1 A 3.3 A 20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A 2
operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 600 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value — at 440 V rated value — at 60 V rated value — at 220 V rated value — at 24 V rated value — at 24 V rated value — at 24 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value	4.1 A 3.3 A 20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A 2
value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value • at 110 V rated value • at 20 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 10 V rated value — at 60 V rated value — at 100 V rated value — at 220 V rated value — at 220 V rated value — at 240 V rated value — at 240 V rated value — at 600 V rated value — at 600 V rated value • with 3 current paths in series at DC-1 — at 24 V rated value • with 3 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value	4.1 A 3.3 A 20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A 2
operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 24 V rated value — at 24 V rated value — at 440 V rated value — at 600 V rated value • with 3 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value — at 60 V rated value — at 110 V rated value — at 110 V rated value	4.1 A 3.3 A 20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A 12 A 1.6 A 0.8 A 0.7 A
operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 600 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value — at 220 V rated value — at 24 V rated value — at 24 V rated value — at 600 V rated value — at 24 V rated value — at 24 V rated value — at 20 V rated value	4.1 A 3.3 A 20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A 2
operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 24 V rated value — at 24 V rated value — at 440 V rated value — at 600 V rated value • with 3 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value — at 60 V rated value — at 110 V rated value — at 110 V rated value	4.1 A 3.3 A 20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A 12 A 1.6 A 0.8 A 0.7 A

— at 24 V rated value	20 A
— at 60 V rated value	0.5 A
— at 110 V rated value	0.15 A
 with 2 current paths in series 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	0.35 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	1.5 A
— at 440 V rated value	0.2 A
	0.2 A
— at 600 V rated value	0.2 A
operating power	5 5 12M
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	5.5 kW
• at AC-3e	
— 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	5.5 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 	2.8 kVA
 up to 400 V for current peak value n=20 rated value 	4.9 kVA
 up to 500 V for current peak value n=20 rated value 	6.2 kVA
 up to 690 V for current peak value n=20 rated value 	8 kVA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	1.9 kVA
 up to 400 V for current peak value n=30 rated value 	3.3 kVA
 up to 500 V for current peak value n=30 rated value 	4.1 kVA
 up to 690 V for current peak value n=30 rated value 	5.7 kVA
short-time withstand current in cold operating state up to	
40 °C	
 limited to 1 s switching at zero current maximum 	200 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	123 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	96 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 30 s switching at zero current maximum	74 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 60 s switching at zero current maximum	61 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h
at AC-3e maximum	750 1/h
at AC-4 maximum	250 1/h
Control circuit/ Control	200 1111
	AC.
type of voltage of the control supply voltage	AC
control supply voltage at AC	220 V
at 50 Hz rated value	230 V
at 60 Hz rated value	230 V
operating range factor control supply voltage rated value of magnet coil at AC	

• at 50 Hz	0.8 1.1
● at 60 Hz	0.85 1.1
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC	
• at 50 Hz	37 VA
• at 60 Hz	33 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.8
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
● at 50 Hz	5.7 VA
• at 60 Hz	4.4 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
● at 60 Hz	0.25
closing delay	
• at AC	9 35 ms
opening delay	
• at AC	4 15 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous	2
contact number of NO contacts for auxiliary contacts instantaneous	2
contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	
 at 230 V rated value 	6 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	6 A
at 48 V rated value	2 A
at 60 V rated value	2 A
at 110 V rated value	1 A
at 115 V rated value at 125 V rated value	0.9 A
at 125 V rated value 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	Tradity Switching per 100 million (17 V, 1 mz)
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	11 A
	11 A
at 600 V rated value violed machanical performance [hp]	110
yielded mechanical performance [hp]	
• for single-phase AC motor	0.5 ha
— at 110/120 V rated value	0.5 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

contact rating of auxiliary contacts according to UL Size science processor design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 2 required — with type of assignment 2 required — with type of assignment 2 required finatisation mounting dimensions floating method • aide-by-side mounting floating method • aide-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • required appealing • with side-by-side mounting • forwards — upwards — forwards — to make a contract of the side — downwards — to make a contract of the side — downwards — of the parts — torwards — to make a contract of the side — downwards — of make a contract of the side • for any and control circuit • if or axiliary contacts • fold or stranded • finely stranded with core and processing • finely str	— at 575/600 V rated value	10 hp
Short-circuit protection design of the fuse link		· ·
For ahort-circular protection of the main circuit		
- with type of conditation 1 required - with type of assignment 2 required - for short-circuit protection of the auxiliary switch required mounting position 4/-180* robustion possible on vertical mounting surface; can be littled forward and backward by 4*-22.5* for vertical incuming surface; can be littled forward and backward by 4*-22.5* for vertical incuming surface; can be littled forward and backward by 4*-22.5* for vertical incuming surface; can be littled forward and backward by 4*-22.5* for vertical incuming surface; can be littled forward and backward by 4*-22.5* for vertical incuming surface; can be littled forward and backward by 4*-22.5* for vertical incuming surface; can be littled forward and backward by 4*-22.5* for vertical incuming surface; can be littled forward and backward by 4*-22.5* for vertical incuming surface; can be littled forward and backward by 4*-22.5* for vertical incuming surface; can be littled forward and backward by 4*-22.5* for vertical incuming surface; can be littled forward and backward by 4*-22.5* for vertical incuming surface; can be littled forward and backward by 4*-22.5* for vertical incuming surface; can be littled forward and backward by 4*-22.5* for vertical incuming surface; can be littled forward and backward by 4*-22.5* for vertical incuming surface; can be littled forward and backward by 4*-22.5* for vertical incuming surface; can be littled forward and backward by 4*-22.5* for vertical incuming surface; can be littled forward and backward by 4*-22.5* for vertical incuming surface; can be littled forward and backward by 4*-22.5* for vertical incuming surface; can be littled forward and backward by 4*-22.5* for vertical forward by 4*-22.5* for verti	design of the fuse link	
- with type of assignment 2 required special color of the auxiliary switch required installational mounting idinous torus in the state of the state	for short-circuit protection of the main circuit	
Section A (S00 V. 1 kA) mounting position fastening method side by-side mounting height required specing • with side by-side mounting - forwards - upwards - downwards - downwards - forwards - the side - forwards - upwards - forwards - forwards - the side - forwards - to mm - the side - downwards - to mm - at the side - downwards - upwards - to mm - at the side - downwards - to mm - at the side - downwards - upwards - to mm - at the side - downwards - upwards - to mm - at the side - downwards - upwards - to mm - at the side - downwards - upwards - to mm - to make the side - downwards - to mm - to mm - to mm - to make the side - downwards - to mm - to make the side - downwards - to mm - to make the side - downwards - to mm - to make the side - downwards - to mm - to make the side - downwards - to mm - to make the side - downwards - to mm - to make the side - downwards - to mm - to make the side - downwards - to mm - to make the side - downwards - to mm - to make the side - to mm - to make the side - to mm - to make the side - to ma	 — with type of coordination 1 required 	gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
mounting position	 — with type of assignment 2 required 	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)
Mounting position	• for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
backward by 4-22.5" on vertical mounting surface * side-by-side mounting * side-by-side mounting * with depth * side-by-side mounting * with side-by-side mounting * with side-by-side mounting * with side-by-side mounting * for yeards * upwards * upwards * upwards * of grounded parts * for grounded parts * for grounded parts * of rownwards * at the side * downwards * 10 mm * of ive parts * of ive parts * ownwards * 10 mm * of ire parts * of ive parts * ownwards * 10 mm * of ire parts * ownwards * 10 mm * of ire parts * ownwards * 10 mm * of ire parts * ownwards * 10 mm * of man ournet circuit * of an auciliary contacts * solid * solid or stranded * finely stranded with core end processing * finely stranded with core end	Installation/ mounting/ dimensions	
* side-by-side mounting height with	mounting position	
height width 45 mm dopth 12¹ mm required spacing • with side-by-side mounting — forwards 10 mm — upwards 10 mm — at the side 0 mm — at the side 0 mm — ownwards 10 ownwards 10 mm — ownwards 10	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
width depth 121 mm required spacing • with side-by-side mounting — forwards — upwards 10 mm — downwards 10 mm — ownwards 10 mm — ownwards 10 mm — ownwards 10 mm — in the side 0 mm — ownwards 10 mm — ownwards 10 mm — at the side 6 mm — ownwards 10 mm — at the side 6 mm — ownwards 10 mm — ownw	side-by-side mounting	Yes
depth required spacing • with side-by-side mounting — lorwards — upwards — ownwards — at the side — of orgounded parts — forwards — upwards — forwards — upwards — forwards — ownwards — forwards — forwards — ownwards — forwards — ownwards — forwards — upwards — forwards — upwards — forwards — upwards — forwards — ownwards — own	height	70 mm
required spacing with side-by-side mounting — (convards — upwards — at the side — of or grounded parts — (convards — upwards — of or grounded parts — (convards — upwards — of or grounded parts — (convards — upwards — of or grounded parts — (convards — upwards — of or live parts — of or live parts — (convards — of or live parts — (convards — upwards — of or live parts — (convards — upwards — of or live parts — (convards — (convards — upwards — (convards — (width	45 mm
with side-by-side mounting	depth	121 mm
forwards upwards upwards 10 mm 10	required spacing	
- upwards - downwards - at the side • for grounded parts - forwards - upwards - at the side - downwards - upwards - at the side - downwards - forwards - downwards - downwards - forwards - forwards - forwards - forwards - forwards - upwards - forwards - upwards - forwards - upwards - downwards - of mm Connections' Terminals Type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • solid - solid or stranded • finely stranded with core end processing • finely stranded without core end processing • for AWG cables for auxiliary contacts - solid or stranded - finely stranded without core end processing • for AWG cables for auxiliary contacts - solid or stranded - finely stranded without core end processing • for AWG cables for auxiliary contacts - solid or stranded - finely stranded without core end processing • for AWG cables for auxiliary contacts - Solid or stranded - finely stranded without core end processing - finely stranded without c	• with side-by-side mounting	
- downwards - at the side	— forwards	10 mm
- at the side • for grounded parts - forwards - upwards - upwards - at the side - downwards • for live parts - forwards - forwards - forwards - for live parts - forwards - upwards - for live parts - forwards - upwards - downwards - downwards - downwards - downwards - at the side - downwards - at the side - for min - upwards - downwards - at the side - for min - downwards - at the side - for min - downwards - at the side - for min - downwards - at the side - for min - downwards - at the side - for min - downwards - at the side - for min - downwards - at the side - for min - downwards - for awxiliary contacts - solid or stranded - finely stranded with core end processing - finely stranded with core end processing - for for will accord and processing - for for will accord with core end processing - for for will accord with core end processing - for for will accord with core end processing - for for will accord with core end processing - for for will accord with core end processing - for for will accord with core end processing - for for will accord with core end processing - for for will accord with core end processing - for for will accord with core end processing - for for will accord with	— upwards	10 mm
• for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — to make the parts — forwards — upwards — to make the parts — forwards — upwards — downwards — to make the parts — the side Connectional Terminals Very of electrical connection • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • for auxiliary and control circuit • spring-loaded terminals • of magnet coil Vpe of connectable conductor cross-sections for main contacts • solid • solid or stranded • solid or stranded • finely stranded with core end processing • finel	— downwards	10 mm
- forwards 10 mm 1	— at the side	0 mm
- upwards - at the side - downwards 10 mm • for live parts - forwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals type of electrical connection • for auxiliary and control circuit • for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for familiary contacts - solid or stranded - finely stranded with core end processing • for familiary contacts - solid or stranded - finely stranded with core end processing • for familiary contacts - solid or stranded - finely stranded with core end processing • for familiary contacts - solid or stranded - finely stranded with core end processing • for familiary contacts - solid or stranded - finely stranded without core end processing • for familiary contacts - solid or stranded - finely stranded without core end processing • for familiary contacts - solid or stranded - solid processing - solid processing - solid processing - s	for grounded parts	
- at the side - downwards 10 mm for live parts - forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Torminals type of electrical connection • for main current circuit spring-loaded terminals spring-loaded terminals • of an auxiliary and control circuit spring-loaded terminals • of magnet coil spring-loaded terminals spring-loaded terminals • of magnet coil spring-loaded terminals • spring-loaded terminals	— forwards	10 mm
- downwards - for live parts - forwards - upwards - upwards - downwards - downwards - the side Connections/ Terminals type of electrical connection - for main current circuit - for auxiliary and control circuit - at contactor for auxiliary contacts - of magnet coil - of magnet coil - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - finely stranded with	— upwards	10 mm
• for live parts — forwards — upwards — downwards — at the side Connections/ Terminals type of electrical connection • for maxiliary and control circuit • of magnet coil type of connectable conductor cross-sections for main contacts • solid • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts • solid or stranded • finely stranded without core end processing • for auxiliary contacts • for aux	— at the side	6 mm
forwards	— downwards	10 mm
- upwards - downwards - 10 mm - at the side	for live parts	
- downwards — at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • solid spring-type terminals • solid 2x (0.5 4 mm²) • solid or stranded • finely stranded with core end processing 2x (0.5 2.5 mm²) • finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing - finely	— forwards	10 mm
Connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-loaded terminals • of magnet coil Spring-type terminals • solid 2x (0.5 4 mm²) • solid or stranded with core end processing 2x (0.5 2.5 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • solid 0.5 4 mm² • finely stranded without core end processing 0.5 4 mm² • solid 0.5 4 mm² • solid 0.5 4 mm² • finely stranded without core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded without core end processing 0.5 2.5 mm² • finely stranded without core end processing 0.5 2.5 mm² connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing 0.5 2.5 mm² type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing 2x (0.5 2.5 mm²) type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing 2x (0.5 2.5 mm²) • finely stranded with core end processing 2x (0.5 2.5 mm²) • finely stranded with core end processing 2x (0.5 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 12) AWG number as coded connectable conductor cross-sections	— upwards	10 mm
type of electrical connection • for main current circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid • solid or stranded • finely stranded with core end processing • solid • solid or stranded • finely stranded without core end processing • finely stranded with core end processing • for auxiliary contacts • solid or stranded — finely stranded with core end processing • for auxiliary contacts • solid or stranded — solid or stra	— downwards	10 mm
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid • solid or stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • solid • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded with core end processing • for auxiliary contacts • solid or stranded - solid or stranded - solid or stranded - finely stranded with core end processing - solid or stranded - solid or stranded - soli	— at the side	6 mm
• for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid • solid or stranded • finely stranded with core end processing • finely stranded with core end processing • solid • stranded • solid • solid • solid • solid • finely stranded with core end processing • finely stranded with core end processing • solid • solid • solid • solid • solid • stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for AWG cables for auxiliary contacts • finely stranded with core end processing • for AWG cables for auxiliary contacts • for AWG cables for auxiliary contacts • AWG number as coded connectable conductor cross section	Connections/ Terminals	
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of magnet coil type of connectable conductor cross-sections for main contacts • solid	at contactor for auxiliary contacts	
type of connectable conductor cross-sections for main contacts • solid • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • solid • stranded without core end processing • stranded • finely stranded with core end processing • stranded • stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • finely stranded with core end processing - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded without core end processing • for auxiliary contacts - solid or stranded - finely stranded without core end processing • for auxiliary contacts - solid or stranded - finely stranded without core end processing • for auxiliary contacts - solid or stranded - finely stranded without core end processing • for auxiliary contacts - solid or stranded - solid or stranded	•	
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— finely stranded without core end processing otherwise for AWG cables for auxiliary contacts 2x (0.5 2.5 mm²) 2x (20 12) AWG number as coded connectable conductor cross section		
◆ for AWG cables for auxiliary contacts 2x (20 12) AWG number as coded connectable conductor cross section	•	
AWG number as coded connectable conductor cross section		
section	·	
• for main contacts 20 12		
	• for main contacts	20 12

for auxiliary contacts	20 12
Safety related data	
product function	
 mirror contact according to IEC 60947-4-1 	Yes
 positively driven operation according to IEC 60947-5-1 	No
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
 with high demand rate according to SN 31920 	73 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
suitability for use	
 safety-related switching OFF 	Yes
Cortificator/ approvals	

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>





Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Marine / Shipping other Railway Environment



Confirmation



Confirmation

Vibration and Shock

Environmental Confirmations

Further information

Siemens has decided to exit the Russian market (see here).

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

 $\underline{\text{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2017-2CP04-3MA0}\\$

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-2CP04-3MA0

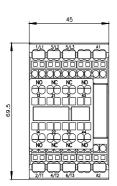
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

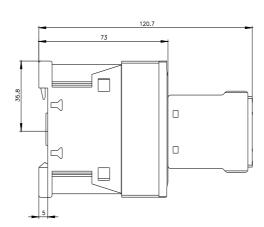
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2CP04-3MA0

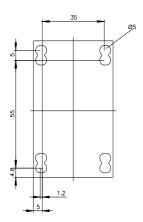
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

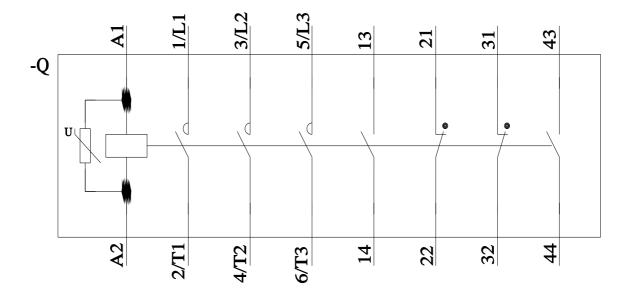
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2017-2CP04-3MA0\&lang=en}}$

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2017-2CP04-3MA0&objecttype=14&gridview=view1









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