SIEMENS

Data sheet 3RT2017-2AN22



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 220 V AC, 50/60 Hz, auxiliary contacts: 1 NC, spring-loaded terminal, size: S00

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	Yes
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 	1.5 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 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	30 000 000
 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)	
Weight	0.257 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	39.6 kg
Global Warming Potential [CO2 eq] during manufacturing	1.18 kg
Global Warming Potential [CO2 eq] during mandacturing	38.5 kg
Global Warming Potential [CO2 eq] after end of life	-0.155 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	22 A
• at AC-1	00 A
 up to 690 V at ambient temperature 40 °C rated value up to 690 V at ambient temperature 60 °C rated 	22 A 20 A
value • at AC-3	20 A
■ 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	40.4
— 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 minimum cross-section in main circuit at maximum AC-1 rated	4.8 A 4 mm ²
value operational current for approx. 200000 operating cycles at	7 (111)
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	20 A
— at 60 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
with 2 current paths in series at DC-1 at 24 Verted value.	20.4
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value— at 440 V rated value	1.6 A 0.8 A
— at 440 V rated value — at 600 V rated value	0.7 A
— at 000 v rated value	V.I T.

with 3 current naths in series at DC 1	
 with 3 current paths in series at DC-1 at 24 V rated value 	20 A
— at 24 V rated value — at 60 V rated value	20 A
	20 A
— at 110 V rated value	20 A
— at 220 V rated value	
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
• at 1 current path at DC-3 at DC-5	00.4
— 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	00.4
— 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
— at 600 V rated value	0.2 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	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-	
• 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	
Iimited to 1 s switching at zero current maximum	200 A; Use minimum cross-section acc. to AC-1 rated value
	200 A; Use minimum cross-section acc. to AC-1 rated value 123 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 1 s switching at zero current maximum	
 limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum	123 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum 	123 A; Use minimum cross-section acc. to AC-1 rated value 96 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum 	123 A; Use minimum cross-section acc. to AC-1 rated value 96 A; Use minimum cross-section acc. to AC-1 rated value 74 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum 	123 A; Use minimum cross-section acc. to AC-1 rated value 96 A; Use minimum cross-section acc. to AC-1 rated value 74 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 1 s switching at zero current maximum Imited to 5 s switching at zero current maximum Imited to 10 s switching at zero current maximum Imited to 30 s switching at zero current maximum Imited to 60 s switching at zero current maximum Imited to 60 s switching at zero current maximum Imoload switching frequency	123 A; Use minimum cross-section acc. to AC-1 rated value 96 A; Use minimum cross-section acc. to AC-1 rated value 74 A; Use minimum cross-section acc. to AC-1 rated value 61 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 1 s switching at zero current maximum Imited to 5 s switching at zero current maximum Imited to 10 s switching at zero current maximum Imited to 30 s switching at zero current maximum Imited to 60 s switching at zero current maximum Imoload switching frequency at AC	123 A; Use minimum cross-section acc. to AC-1 rated value 96 A; Use minimum cross-section acc. to AC-1 rated value 74 A; Use minimum cross-section acc. to AC-1 rated value 61 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 1 s switching at zero current maximum Imited to 5 s switching at zero current maximum Imited to 10 s switching at zero current maximum Imited to 30 s switching at zero current maximum Imited to 60 s switching at zero current maximum Imoload switching frequency at AC Operating frequency	123 A; Use minimum cross-section acc. to AC-1 rated value 96 A; Use minimum cross-section acc. to AC-1 rated value 74 A; Use minimum cross-section acc. to AC-1 rated value 61 A; Use minimum cross-section acc. to AC-1 rated value 10 000 1/h

a at AC 2a mayim:	750 4/h
• at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	220 V
at 60 Hz rated value	220 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
apparent pick-up power of magnet coil at AC	0.00 1.1
• at 50 Hz	37 VA
• at 60 Hz	33 VA
inductive power factor with closing power of the coil	33 VA
at 50 Hz	0.8
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	E 7.1/A
• at 50 Hz	5.7 VA
• at 60 Hz	4.4 VA
inductive power factor with the holding power of the coil	0.05
• 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 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 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	11 A
at 480 V rated value at 600 V rated value	
at 600 V rated value violed manhanical newformance [hp]	11 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	

- at 220 V meet value		2.51
• for 3-phase AC motor — at 2002030 Y rated value — at 2002030 V rated value — at 400480 V rated value — at 5070000 V rated value — with 1996 of coordination 1 required — with 1996 of coordination 1 required — with 1996 of assignment 2 required — for short-circuit production of the auxiliary switch required fastening method fastening method fastening method fastening method	— at 110/120 V rated value	0.5 hp
all 200209 V rated value all 400480 V rated value all 400480 V rated value all 575000 V rated value all 57500 V rated value all 575000 V rated value all 57500 V rated value all 575000 V rated value all 57500 V rated value		2 hp
at 220/230 V rated value at 675000 V rated value 27500 V rated value 27500 V rated value	• for 3-phase AC motor	
	 — at 200/208 V rated value 	3 hp
— at 575800 V rated value Contact rating of auxiliary contacts according to U. Short-circuit protection design of the fuse link. - with type of assignment 2 required - with type of assignment 2 required in standard protection of the auxiliary switch required installation mounting diffunction. **To short-circuit protection of the auxiliary switch required installation mounting diffunction. **To short-circuit protection of the auxiliary switch required installation mounting diffunction. **To short-circuit protection of the auxiliary switch required installation mounting diffunction. **To short-circuit protection of the auxiliary switch required installation mounting diffunction. **To short-circuit protection of the auxiliary switch required installation mounting diffunction. **To short-circuit protection of the auxiliary switch required installation mounting diffunction. **To short-circuit protection of the auxiliary switch required installation mounting diffunction. **To short-circuit protection of the auxiliary switch required installation mounting diffunction. **To short-circuit protection of the auxiliary switch required installation mounting diffunction. **To short-circuit protection of the auxiliary switch required installation mounting diffunction. **To short-circuit protection of the auxiliary switch required installation mounting diffunction. **To short-circuit specification. **To mounting position. **To mount	 at 220/230 V rated value 	3 hp
contact rating of auxillary contacts according to UL A5000 / 0600 dosign of the fuse link	— at 460/480 V rated value	7.5 hp
Start-secular protection Seeign of the fuse link -	— at 575/600 V rated value	10 hp
	contact rating of auxiliary contacts according to UL	A600 / Q600
• for short-circuit protection of the main circuit — with type of assignment? required — with type of assignment? required gg: 20A (690V,100KA), alx: 16A (680V, 100KA), BS88: 35A (415V,80KA) gg: 20A (690V,100KA), alx: 16A (680V, 100KA), BS88: 20A (415V,80KA) gg: 20A (690V,100KA), alx: 16A (680V, 100KA), BS88: 20A (415V,80KA) gg: 20A (690V,100KA), alx: 16A (680V, 100KA), BS88: 20A (415V,80KA) gg: 20A (690V,100KA), alx: 16A (680V, 100KA), BS88: 20A (415V,80KA) gg: 20A (690V,100KA), alx: 16A (680V, 100KA), BS88: 20A (415V,80KA) gg: 20A (690V,100KA), alx: 16A (680V, 100KA), BS88: 20A (415V,80KA) gg: 20A (690V,100KA), alx: 16A (680V, 100KA), BS88: 20A (415V,80KA) gg: 20A (690V,100KA), alx: 16A (680V, 100KA), BS88: 20A (415V,80KA) gg: 20A (690V,100KA), alx: 16A (680V, 100KA), BS88: 20A (415V,80KA) gg: 20A (690V,100KA), alx: 16A (680V, 100KA), BS88: 20A (415V,80KA) gg: 20A (690V,100KA), alx: 16A (680V, 100KA), BS88: 20A (415V,80KA) gg: 20A (690V,100KA), alx: 16A (680V, 100KA), BS88: 20A (415V,80KA) gg: 20A (690V,100KA), alx: 16A (680V, 100KA), BS88: 20A (415V,80KA) gg: 20A (690V,100KA), alx: 16A (680V, 100KA), alx: 16A (680	Short-circuit protection	
— with type of condination 1 required — with type of assignment 2 required 4 for short-circuit protection of the auxiliary switch required 5G: 10.4 (800 V. 100kA), abit 120.4 (800 V. 100kA), BS88: 35A (415V.80kA) 9G: 20.4 (800 V. 116A) (800 V. 116A) (800 V. 100kA), BS88: 20A (415V.80kA) 9G: 10.4 (800 V. 1 kA) mounting position # 1.180** Totalion possible on vertical mounting surface; can be tilted forward and backward by +7-2.5° on vertical mounting surface; can be tilted forward and backward by +7-2.5° on vertical mounting surface; can be tilted forward and backward by +7-2.5° on vertical mounting surface; can be tilted forward and backward by +7-2.5° on vertical mounting surface; can be tilted forward and backward by +7-2.5° on vertical mounting surface; can be tilted forward and backward by +7-2.5° on vertical mounting surface; can be tilted forward and backward by +7-2.5° on vertical mounting surface; can be tilted forward and backward by +7-2.5° on vertical mounting surface; can be tilted forward and backward by +7-2.5° on vertical mounting surface; can be tilted forward and backward by +7-2.5° on vertical mounting surface; can be tilted forward and backward by +7-2.5° on vertical mounting surface; can be tilted forward and backward by +7-2.5° on vertical mounting surface; can be tilted forward and backward by +7-2.5° on vertical mounting surface; can be tilted forward and backward by +7-2.5° on vertical mounting surface; can be tilted forward and backward by +7-2.5° on vertical mounting surface; can be tilted forward and backward by +7-2.5° on vertical mounting surface; can be tilted forward and the surface and su	design of the fuse link	
with type of assignment 2 required so for short-circuit protection of the auxiliary switch required installation/mounting formensions ***mounting position** **## A	 for short-circuit protection of the main circuit 	
* for short-circuit protection of the auxiliary switch required mounting outsides **mounting position** **mounting position** **fastening method** **serve and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 **height** **for minute dysacing** **with side-by-side mounting ** **evith side-by-side mounting ** **-forwards** **-formards** **-forwards** *-forwards**	 — with type of coordination 1 required 	gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
Installation/ mounting idinensions mounting position	 — with type of assignment 2 required 	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)
# 1-5180** rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/22.5° on vertical mounting surface; can be tilted forward and backward by +/22.5° on vertical mounting surface; can be tilted forward and backward by +/22.5° on vertical mounting surface; can be tilted for surface. - forwards - downwards - for man cup and conted forwards - downwards - forwards - downwards - forwards - formain current circuit - er aucliancy connection - er aucliancy connection - er aucliancy connection - er aucliancy and control circuit - at contactor for auxiliary contacts - solid or stranded - finely stranded with our ore end processing - finely stranded without core end processing - finely stranded	• for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
Sackward by + 22.5" on vertical mounting surface Sackward by + 22.5" on vertical mounting surface Sackward by + 22.5" on vertical mounting surface Sam DIN rail according to DIN EN 60715	Installation/ mounting/ dimensions	
fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height height 70 mm with 45 mm depth 73 mm required spacing ************************************	mounting position	
height 70 mm width 45 mm deth 73 mm required spacing ************************************		, o
width 45 mm dopth 73 mm required spacing 73 mm - forwards 10 mm - forwards 10 mm - downwards 10 mm - at the side 0 mm - forwards 10 mm - forwards 10 mm - at the side 6 mm - downwards 10 mm - for live parts 10 mm - forwards 20 mm - forwards 20 mm <t< td=""><td><u> </u></td><td></td></t<>	<u> </u>	
depth		
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side — forwards — forwards — the side — ownwards — upwards — the side — ownwards — upwards — to many the side — downwards — upwards — to many the side — downwards — to many the side — downwards — to many the side — downwards — to fire parts — forwards — upwards — to many the side — downwards — to many the side — downwards — upwards — upwards — upwards — the side — downwards — of many the side — of many t		
• with side-by-side mounting — forwards — upwards — at the side • for grounded parts — forwards — upwards — upwards — the side — upwards — upwards — upwards — the side — downwards — to five parts — forwards — upwards — to fire side — downwards — to mm — the side — downwards — to mm — the side — of mm Connections/ Torminals **Torminals** **Tope of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil • for magnet coil **Spring-type terminals **For main contacts — solid — solid or stranded — finely stranded without core end processing — finely stranded without core end processing • for AVIC cables for main contacts • solid • stranded • finely stranded without core end processing • finely stranded without	·	73 mm
forwards		
- upwards	-	
- downwards - at the side 0 mm • for grounded parts - Forwards 10 mm - upwards 10 mm - at the side 6 mm - at the side 6 mm - at the side 6 mm • for live parts 10 mm • for live parts 10 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - formain current circuit spring-loaded terminals spring-l		
- at the side • for grounded parts - forwards - upwards - at the side - downwards • for live parts - forwards - upwards - upwards - upwards - upwards - downwards - downwards - downwards - downwards - for main current circuit • for main current circuit • for auxiliary and control circuit • for auxiliary contacts • of magnet coil type of connectable conductor cross-sections - solid - solid or stranded - finely stranded with core end processing • for AWG cables for main cuntacts • solid • stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • for fawG cables for main contacts • solid • stranded • finely stranded with core end processing • for fawG cables for main contacts • solid • stranded • finely stranded with core end processing • finely stranded with core en	·	
• for grounded parts — forwards — upwards — at the side — downwards • for live parts — for wards — upwards — to rowards — to many the side — downwards • for live parts — for wards — upwards — upwards — upwards — upwards — downwards — to mm — downwards — to mm — at the side — for main current circuit • for raxillary and control circuit • for auxillary and control circuit • at contactor for auxillary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts • solid • stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • finely strande	— downwards	10 mm
- forwards - upwards - 10 mm	— at the side	0 mm
- upwards - at the side - downwards • for live parts - forwards - upwards - upwards - downwards - upwards - downwards - downwards - at the side - formancetons/ Torminals 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 • for AWG cables for main contacts • solid • stranded • finely stranded with core end processing	 for grounded parts 	
- at the side — downwards 10 mm • for live parts — forwards 10 mm — upwards 10 mm — downwards 10 mm — downwards 10 mm — downwards 10 mm — downwards 6 mm — the side 6 mm Connections/ Terminals type of electrical connection • for auxiliary and control circuit spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals • of magnet coil Spring-type terminals • of magnet coil Spring-type terminals • for main connectable conductor cross-sections • for main contacts — solid — solid 2x (0.5 4 mm²) — finely stranded with core end processing 2x (0.5 2.5 mm²) — finely stranded without core end processing 2x (0.5 2.5 mm²) • for AWG cables for main contacts • solid • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • stranded • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • stranded onductor cross-section for main contacts • solid 0.5 4 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm²	— forwards	10 mm
− downwards	— upwards	10 mm
for live parts — forwards — upwards — upwards — downwards — at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit • for main current circuit • at contactor for auxiliary contacts • of magnet coil	— at the side	6 mm
- forwards	— downwards	10 mm
- upwards - downwards - at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • of magnet coil Spring-type terminals • for main contacts • for main contacts - solid 2x (0.5 4 mm²) - solid or stranded with core end processing 2x (0.5 2.5 mm²) • for AWG cables for main contacts • solid • stranded • finely stranded with core end processing • finely stranded conductor cross-sections	• for live parts	
- downwards - at 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 type of connectable conductor cross-sections • for main contacts - solid - solid or stranded - finely stranded with core end processing • for AWC cables for main contacts • stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • solid of stranded • finely stranded without core end processing • solid or stranded • finely stranded without core end processing • solid or stranded • finely stranded without core end processing	— forwards	10 mm
Type of electrical connection • for main current circuit • at contactor for auxiliary and control circuit • of magnet coil • 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 or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • finely stranded without core end processing	— upwards	10 mm
type of electrical connection • for main current circuit spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • of magnet coil Spring-type terminals • for main contacts • for main contacts - solid - solid or stranded - finely stranded with core end processing • for AWG cables for main contacts • solid • stranded • finely stranded with core end processing • for AWG cables for main contacts • solid • stranded • 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 • solid or stranded • finely stranded without core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing	— downwards	10 mm
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coll type of connectable conductor cross-sections • for main contacts - solid - solid or stranded - finely stranded with core end processing • stranded • 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 AWG cables for main contacts • solid • stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • solid or stranded • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end processing	— at the side	6 mm
 for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil Spring-type terminals of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts solid or stranded - solid or stranded with core end processing - finely stranded without core end processing for AWG cables for main contacts solid stranded stranded of stranded of stranded of inely stranded with core end processing for AWG cables for main contacts solid stranded of inely stranded with core end processing of inely stranded without core end processing of inely stranded with core end processing of in	Connections/ Terminals	
 • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil Spring-type terminals • type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts • for AWG cables for main contacts • solid — solid or stranded with core end processing • for AWG cables for main contacts • solid • stranded • stranded • finely stranded with core end processing • finely stranded with core end processing • 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 • solid or stranded • finely stranded with core end processing • finely stranded without core end proc	type of electrical connection	
 at contactor for auxiliary contacts of magnet coil Spring-type terminals 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 AWG cables for main contacts • solid • solid • solid • solid • solid • stranded • stranded • finely stranded with core end processing • finely stranded with core end processing • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • solid or stranded • solid or stranded • finely stranded without core end processing • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded withou	for main current circuit	spring-loaded terminals
of magnet coil type of connectable conductor cross-sections • for main contacts	 for auxiliary and control circuit 	spring-loaded terminals
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 AWG cables for main contacts • solid • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing	 at contactor for auxiliary contacts 	Spring-type terminals
 for main contacts — solid — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — for AWG cables for main contacts Ex (20 12) connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing • 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 • solid or stranded • finely stranded with core end processing • finely stranded without core end processing 	of magnet coil	Spring-type terminals
- solid	type of connectable conductor cross-sections	
- solid or stranded - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing • for AWG cables for main contacts • solid • 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 • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded conductor cross-sections	• for main contacts	
- finely stranded with core end processing - finely stranded without core end processing • for AWG cables for main contacts • for AWG cables for main contacts • solid • stranded • 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 • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded conductor cross-sections	— solid	2x (0.5 4 mm²)
 — finely stranded without core end processing ● for AWG cables for main contacts ○ solid ○ stranded ○ finely stranded with core end processing ○ finely stranded without core end processing ○ finely stranded ○ finely stranded ○ finely stranded ○ finely stranded with core end processing ○ finely stranded with core end processing ○ finely stranded without core end processing 	— solid or stranded	2x (0,5 4 mm²)
 for AWG cables for main contacts connectable conductor cross-section for main contacts 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 finely stranded without core end processing finely stranded without core end processing 2.5 mm² finely connectable conductor cross-sections 	 finely stranded with core end processing 	2x (0.5 2.5 mm²)
connectable conductor cross-section for main contacts • solid • stranded • stranded • finely stranded with core end processing • finely stranded without core end processing • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely connectable conductor cross-sections	 finely stranded without core end processing 	2x (0.5 2.5 mm²)
 solid stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing connectable conductor cross-sections 	 for AWG cables for main contacts 	2x (20 12)
 stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing 5 2.5 mm² type of connectable conductor cross-sections 	connectable conductor cross-section for main contacts	
 stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing 5 2.5 mm² type of connectable conductor cross-sections 	• solid	0.5 4 mm ²
• finely stranded without core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing type of connectable conductor cross-sections	• stranded	
finely stranded without core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing very finely stranded without core end processing	 finely stranded with core end processing 	0.5 2.5 mm²
connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing type of connectable conductor cross-sections		0.5 2.5 mm²
 solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections 0.5 2.5 mm² 0.5 2.5 mm²		
 finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections 		0.5 4 mm²
• finely stranded without core end processing 0.5 2.5 mm² type of connectable conductor cross-sections		
type of connectable conductor cross-sections		
	for auxiliary contacts	

 solid or stranded 	2x (0,5 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm²)
 finely stranded without 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 section	
• 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
suitable for safety function	Yes
suitability for use safety-related switching OFF	Yes
service life maximum	20 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
 with high demand rate according to SN 31920 	73 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
Electrical Safety	
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
Approvals Certificates	

General Product Approval







Confirmation



<u>KC</u>

General Product Approval

EMV

Functional Saftey

Test Certificates

Marine / Shipping





Type Examination Certificate Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping











Miscellaneous

other

other

Railway

Environment

<u>Confirmation</u> <u>Confirmation</u>

Special Test Certificate



Environmental Confirmations

Further information

Information on the packaging

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

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2017-2AN22

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-2AN22

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2AN22

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

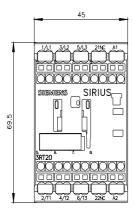
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2017-2AN22\&lang=enderviewer.}}$

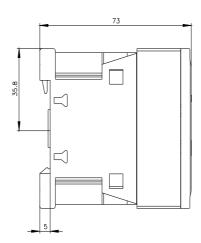
Characteristic: Tripping characteristics, I^2t , Let-through current

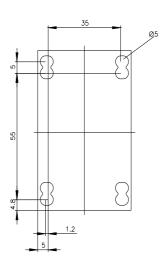
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2AN22/char

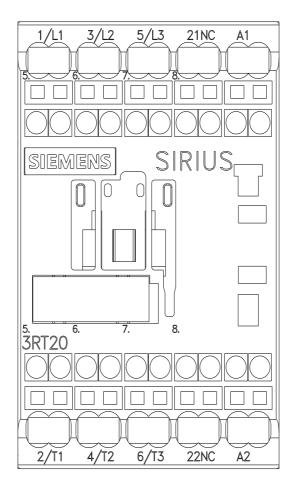
Further characteristics (e.g. electrical endurance, switching frequency)

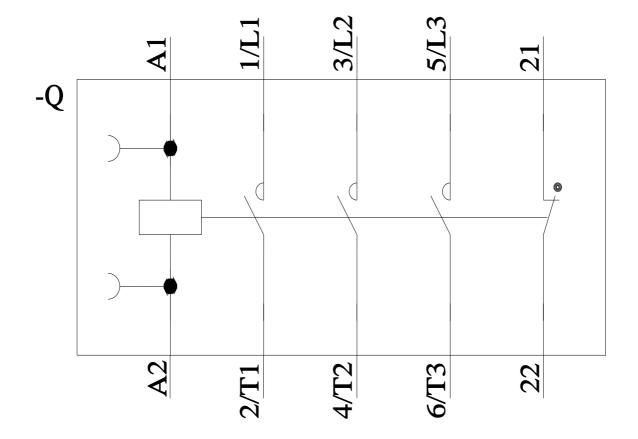
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2017-2AN22&objecttype=14&gridview=view1











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