## **SIEMENS**

Data sheet 3RT2017-1AN61



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 200 V AC, 50 Hz / 200-220 V, 60 Hz, auxiliary contacts: 1 NO, screw terminal, size: S00

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	1.5 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.5 W
without load current share typical	1.7 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
of auxiliary circuit with degree of pollution 3 rated value	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	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)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code 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	
<ul> <li>during operation</li> </ul>	-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
Environmental Product Declaration(EPD)  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 mandiacturing  Global Warming Potential [CO2 eq] during operation	38.5 kg
Global Warming Potential [CO2 eq] after end of life	-0.155 kg
Main circuit	0.100 kg
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	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	22 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	22 A
— up to 690 V at ambient temperature 60 °C rated value	20 A
• at AC-3	40.4
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value • at AC-3e	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 value	4 mm²
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.	20 Δ
— at 24 V rated value — at 60 V rated value	20 A 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 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	
	12 A
— at 220 V rated value	12 A 1.6 A
<ul><li>— at 220 V rated value</li><li>— at 440 V rated value</li></ul>	
	1.6 A

— 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	20 A
— 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	
— at 24 V rated value	20 A
— at 60 V rated value	0.5 A
— at 110 V rated value	0.15 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 110 V rated value	0.35 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— 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-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 600 V rated value	5.5 kW
operating power for approx. 200000 operating cycles at AC-	J.J RVV
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
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	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
limited to 7 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 10 s switching at zero current maximum	96 A; Use minimum cross-section acc. to AC-1 rated value
Ilmited to 10 s switching at zero current maximum     Ilmited to 30 s switching at zero current maximum	74 A; Use minimum cross-section acc. to AC-1 rated value
Ilmited to 50's switching at zero current maximum     Ilmited to 60's switching at zero current maximum	61 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	5771, 536 Hillimian 61000 Section acc. to AC-1 rated value
• at AC	10 000 1/h
operating frequency	10 000 1111
at AC-1 maximum	1 000 1/h
at AC-1 maximum     at AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h
<ul><li>at AC-3e maximum</li><li>at AC-4 maximum</li></ul>	750 1/h
	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	200 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	
• at 50 Hz	36 VA
• at 60 Hz	43 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.8
apparent holding power of magnet coil at AC	
• at 50 Hz	5.9 VA
• at 60 Hz	6.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.24
● 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 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	3 A 2 A
• at 125 V rated value	2 A
<ul><li>at 125 V rated value</li><li>at 220 V rated value</li></ul>	2 A 1 A
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul>	2 A 1 A
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> operational current at DC-13	2 A 1 A 0.15 A
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> operational current at DC-13 <ul> <li>at 24 V rated value</li> </ul>	2 A 1 A 0.15 A
at 125 V rated value at 220 V rated value at 600 V rated value  operational current at DC-13 at 24 V rated value at 48 V rated value	2 A 1 A 0.15 A
at 125 V rated value at 220 V rated value at 600 V rated value  operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 60 V rated value	2 A 1 A 0.15 A 10 A 2 A 2 A
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> </ul>	2 A 1 A 0.15 A 10 A 2 A 2 A 1 A
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> Operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> </ul>	2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A
at 125 V rated value at 220 V rated value at 600 V rated value  operational current at DC-13  at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value	2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A
at 125 V rated value at 220 V rated value at 600 V rated value  operational current at DC-13  at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value	2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
at 125 V rated value at 220 V rated value at 600 V rated value  operational current at DC-13  at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 600 V rated value contact reliability of auxiliary contacts	2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
at 125 V rated value at 220 V rated value at 600 V rated value  operational current at DC-13  at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 220 V rated value at 600 V rated value	2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
at 125 V rated value at 220 V rated value at 600 V rated value  operational current at DC-13  at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 125 V rated value 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	2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
at 125 V rated value at 220 V rated value at 600 V rated value  operational current at DC-13  at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 125 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	2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
at 125 V rated value at 220 V rated value at 600 V rated value  operational current at DC-13  at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value 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	2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
at 125 V rated value at 220 V rated value at 600 V rated value  operational current at DC-13  at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 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]	2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
at 125 V rated value at 220 V rated value at 600 V rated value  operational current at DC-13  at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value 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 for single-phase AC motor	2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)

• 40 S-phase AC motor — at 200230 V rated value — at 672600 V rated value  contact rating of sutiliary contacts according to U.  Short-circuit protection of the main circuit — with type of economation 1 required installation mounting dimensions  **To short-circuit protection of the auxiliary switch required fastening method  f		
	• for 3-phase AC motor	
at 675600 V rated value	— at 200/208 V rated value	3 hp
	— at 220/230 V rated value	3 hp
contact rating of auxiliary contacts according to U.  A600 / 0800  design of the fuse link  of or short-circuit protection of the main circuit  - with type of coordination in Troquized  - with type of coordination in Troquized  - with type of coordination in Troquized  - with type of assignment 2 required  - with type of assignment 2 required  mounting position  fastaniarion mounting dimensions  mounting position  fastaning method  fastanin	— at 460/480 V rated value	7.5 hp
Short-circuit protection   He main circuit	— at 575/600 V rated value	10 hp
design of the fuse link	contact rating of auxiliary contacts according to UL	A600 / Q600
* for short-circuit protection of the main circuit  - with type of assignment 2 required  for short-circuit protection of the auxiliary switch required  frastaliation mounting differentiates  mounting position  - for short-circuit protection of the auxiliary switch required  fastaliation mounting position  - fastaning method  - screw and snap-on mounting out as 5mm DIN rail according to DIN EN 60715  - beight  - with side by side mounting  - for noracis  - quowards  - downwards  - in main contact and a fast and a fas	Short-circuit protection	
— with type of assignment 2 required	design of the fuse link	
with type of assignment 2 required • for short-circuit protection of the auxiliary switch required institution mounting dimension.	<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
of short-circuit protection of the auxillary switch required mounting possibio mounting possibio mounting possibio mounting possibio mounting possibio mounting surface, can be tilted forward and backward by 9'-2.25' on vertical mounting surface, can be tilted forward and backward by 9'-2.25' on vertical mounting surface, can be tilted forward and backward by 9'-2.25' on vertical mounting surface, can be tilted forward and backward by 9'-2.25' on vertical mounting surface, can be tilted forward and backward by 9'-2.25' on vertical mounting surface, can be tilted forward and backward by 9'-2.25' on vertical mounting surface, can be tilted forward and backward by 9'-2.25' on vertical mounting surface, can be tilted forward and backward by 9'-2.25' on vertical mounting surface, can be tilted forward and backward by 9'-2.25' on vertical mounting surface, can be tilted forward and backward by 9'-2.25' on vertical mounting surface, can be tilted forward and backward by 9'-2.25' on vertical mounting surface, can be tilted forward and backward by 9'-2.25' on vertical mounting surface, can be tilted forward and backward by 9'-2.25' on vertical mounting surface, can be tilted forward and backward by 9'-2.25' on vertical mounting surface, can be tilted forward and backward by 9'-2.25' on vertical mounting surface, can be tilted forward and backward by 9'-2.25' on vertical mounting surface.  I have a distillated be surface and so same pare mounting surface, can be tilted forward and backward by 9'-2.25' on vertical mounting surface.  I have made and surface and processing on minimal surface.  I on minimal surface, can be tilted forward and backward by 9'-2.25' on vertical mounting surface.  I on minimal surface and processing on minimal surface and surf	<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
mounting position  ## 180° rotation possible on vertical mounting surface, can be titled forward and backward by *** 22.5° on vertical mounting surface.  ## 180° rotation possible on vertical mounting surface.  ## 100° rotation possible on vertical possible on vertical mounting surface.  ## 100° rotation possible on vertical possible on vertical mounting surface.  ## 100° rotation possible on vertical possible on vertical mounting surface.  ## 100° rotation possible on vertical possible on vertical possible on vertical possible on vertical possible on vertic	<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)
mounting position  #4-f180" retation possible on vertical mounting surface; can be tilted forward and backward by #-f2.5" on vertical mounting surface; can be tilted forward and backward by #-f2.5" on vertical mounting surface; can be tilted forward and backward by #-f2.5" on vertical mounting surface; can be tilted forward and backward by #-f2.5" on vertical mounting surface; can be tilted forward and backward by #-f2.5" on vertical mounting surface; can be tilted forward and backward by #-f2.5" on vertical mounting surface; can be tilted forward and backward by #-f2.5" on vertical mounting surface; can be tilted forward and backward by #-f2.5" on vertical mounting surface; can be tilted forward and backward by #-f2.5" on vertical mounting surface; can be tilted forward and backward by #-f2.5" on vertical mounting surface; can be tilted forward and backward by #-f2.5" on vertical mounting surface; can be tilted forward and backward by #-f2.5" on vertical mounting surface; can be tilted forward and backward by #-f2.5" on vertical mounting surface; can be tilted forward and backward by #-f2.5" on vertical mounting surface; can be tilted forward and backward by #-f2.5" on vertical mounting surface; can be tilted forward and backward by #-f2.5" on which surface is a finite surface and surface; can be sur	<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)
backward by 4-/ 22,5° on vertical mounting surface fastering method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height width 45 mm  depth 73 mm  required spacing • with side-by-side mounting — forwards — upwards — odwnwards — ownwards — of main — at the side • for grounded parts — torwards — upwards — torwards — upwards — odwnwards — odwnwards — odwnwards • for live parts — forwards — upwards — of main — the side — downwards • for live parts — forwards — upwards — torwards — upwards — torwards	Installation/ mounting/ dimensions	
Fastering method  neight  sorew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  95 mm  width  depth  required spacing  with side-by-side mounting  - forwards  - downwards  - downwards  - of main contacts  - forwards  - the side  - downwards  - to main  - the side  - downwards  - to main  - the side  - downwards  - to main  - the side  - downwards  - to main current circuit  - for auxiliary and control circuit  - of or auxiliary and control circuit  - solid  - solid or stranded  - finely stranded with core end processing  - for AWG cables for main contacts  - solid or stranded  - finely stranded with core end processing  - for auxiliary contacts  - solid or stranded  - finely stranded with core end processing  - for for auxiliary contacts  - solid or stranded  - finely stranded with core end processing  - for favic cables for main contacts  - solid or stranded  - finely stranded with core end processing  - for favic cables for main contacts  - solid or stranded  - finely stranded with core end processing  - for favic cables for main contacts  - solid or stranded  - finely stranded with core end processing  - for favic cables for main contacts  - solid or stranded  - finely stranded with core end processing  - for favic cables for main contacts  - solid or stranded  - finely stranded with core end processing  - for favic cables for main contacts  - solid or stranded  - finely stranded with core end processing  - for AWG cables for auxiliary contacts  - solid or stranded  - finely stranded with core end processing  - for AWG cables for auxiliary contacts  - solid or stranded  - finely stranded with core end processing  - for AWG cables for auxiliary contacts  - solid or stranded  - finely stranded with core end processing  - for AWG cables for auxiliary contacts  - solid or stranded  - finely stranded with core end processing  - for AWG cables for	mounting position	
height width 45 mm depth 73 mm required spacing  • with side-by-side mounting  — forwards 10 mm — upwards 10 mm — at the side 0 mm — ownwards 10 mm — ownwards	fastening method	·
width depth 73 mm required spacing  • with side-by-side mounting — forwards — upwards — at the side • for grounded parts — forwards — upwards — 10 mm  • orwards — upwards — 10 mm — at the side — downwards — to mm — at the side — downwards — to mm — at the side — downwards — to mm — to		
required spacing  • with side-by-side mounting  — forwards — upwards — downwards — at the side • for grounded parts — forwards — 10 mm — at the side • for grounded parts — forwards — upwards — 10 mm — upwards — the side — downwards — at the side — downwards — for live parts — forwards — upwards — upwards — upwards — ownwards — ownwards — ownwards — omn — for read ownwards — at the side — for in upwards — 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 AWG cables for main contacts • solid • 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 with 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 auxiliary contacts — solid or stranded • finely stranded with core end processing • for AWG cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts — solid or stranded — finely stranded with core end		
required spacing  with side-by-side mounting —forwards — upwards — of with side —forwards — at the side  for grounded parts —forwards — upwards — the side — forwards — upwards — at the side — downwards — 10 mm — at the side — downwards — 10 mm — of rive parts — forwards — the side — downwards — 10 mm — ownwards — the side — downwards — upwards — the side — downwards — the side — ownwards — the side — ownwards — the side — ownwards — the side — the side — ownwards — the side  Serwe-type terminals  screw-type terminals  scre		
	·	
forwards upwards		
- upwards - downwards 10 mm	, c	10 mm
- downwards - at the side • for grounded parts - forwards - at the side • for grounded parts - forwards - at the side - downwards - at the side - downwards • for live parts - forwards - upwards - upwards - for live parts - forwards - upwards - upwards - upwards - upwards - 10 mm - downwards - 10 mm - downwards - at the side - at the si		
- at the side	·	
• for grounded parts  — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — to reveal the side — downwards • for live parts — forwards — upwards — upwards — upwards — downwards — to mm — at the side — downwards — to mm — at the side — formal contections — at the side  Connections/ Terminals  type of electrical connection • for main current circuit • 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 • for AWG cables for main contacts • solid • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • 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 connectable conductor cross-section 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 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  AWG number as coded connectable conductor cross   4 (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 m		
- forwards		
- upwards - at the side - downwards - for live parts - forwards - puwards - puwards - downwards - upwards - downwards - upwards - downwards - downwards - at the side - domnoctions/ Torminals  type of electrical connection - for main current circuit - for auxiliary and control circuit - of or auxiliary and control circuit - of magnet coil - of magnet coil - solid - solid - solid or stranded - finely stranded with core end processing - for AWG cables for main contacts - solid - solid - stranded - finely stranded with core end processing - finely stranded with core end processing - solid - stranded - finely stranded with core end processing - solid - stranded - finely stranded with core end processing - solid - 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 - 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 - 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 - 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 - 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 -		10 mm
- at the side - downwards • for live parts - forwards - upwards - upwards - downwards - at the side - formands - upwards - the side - formands - at the side - formands - at the side - formands - at the side - formands  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 • stranded • stranded • stranded with 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 • 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 with core end processing • for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - for AWG cables for auxiliary contacts - solid or stranded - finely stranded connectable conductor cross		
- downwards • for live parts - forwards - upwards - downwards - downwards - at the side - downwards - at the side - formal current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • for magnet coil  type of electricable conductor cross-sections • for main contacts  - solid - solid or stranded - finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded • finely conductor cross-section for auxiliary contacts • solid • stranded • finely stranded with core end processing • for AWG cables for main contacts • solid or stranded • finely stranded with core end processing • for accompactable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing  • for accompactable conductor cross-section 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 auxiliary contacts • 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 with 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 auxiliary contacts • 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 with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts	•	
• for live parts  forwards upwards downwards at the side at the side of main current circuit for auxiliary and control circuit solid solid solid solid or stranded finely stranded with core end processing for auxiliary contacts solid stranded finely stranded with core end processing for auxiliary contacts solid stranded finely stranded with core end processing solid stranded finely stranded with core end processing 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 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 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 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 solid or stranded finely stranded with core end processing solid or stranded finely stranded with core end processing solid or stranded finely stra		
- forwards		· · · · · · · · · · · · · · · · · · ·
- upwards	•	10 mm
- downwards - at the side  Connections/ Terminals  type of electrical connection  • for main current circuit • 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 • for AWG cables for main contacts • solid • stranded • finely stranded with core end processing • for end the conductor cross-section for main contacts • solid • 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 with core end processing  connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing  type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing  type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing  type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded - finely stranded with core end processing  type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded - finely stranded with core end processing - for AWG cables for auxiliary contacts - solid or stranded - finely stranded - fi		
Terminals  type of electrical connection  • for main current circuit • at contactor 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 • stranded • stranded • finely stranded with core end processing • for main contacts • solid • 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 with 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 auxiliary contacts • solid or stranded — finely stranded with core end processing • for auxiliary contacts  AWG cables for auxiliary contacts  • solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts  • solid or stranded AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross	·	
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  • stranded • stranded • stranded • finely stranded with core end processing • for third 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 • 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  type of connectable conductor cross-sections • for auxiliary contacts • solid or stranded • finely stranded with core end processing  type of connectable conductor cross-sections • for auxiliary contacts  - solid or stranded - finely stranded with core end processing  type of connectable conductor cross-sections • for auxiliary contacts  - solid or stranded - finely stranded with core end processing  type of connectable conductor cross-sections • for auxiliary contacts  - solid or stranded - finely stranded with core end processing  4x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²		
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 contacts  — solid  — solid or stranded  — finely stranded with core end processing  • stranded  • stranded  • finely stranded with core end processing  • for stranded  • finely stranded with core end processing  • finely stranded with core end processing  • for auxiliary contacts  • solid or stranded  • finely stranded with 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  • 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 with 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 auxiliary contacts  Awg number as coded connectable conductor cross   • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross		
• for main current circuit     • for auxiliary and control circuit     • at contactor for auxiliary contacts     • of magnet coil		
<ul> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>Screw-type terminals</li> <li>2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²</li> <li>The property of terminals</li> <li>Screw-type terminals</li> <li>Screw-type terminals</li> <li>Screw-type terminals</li> <li>Screw-type terminals</li> <li>2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²</li> <li>The property of terminals</li> <li>Screw-type terminals</li> <li>Screw-type terminals</li> <li>Screw-type terminals</li> <li>Screw-type terminals</li> <li>2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²</li> <li>The property of terminals</li> <li>Screw-type terminals</li> <li>Screw-type terminals</li> <li>Screw-type terminals</li> <li>2x (0.5 1.5 mm²), 2x (0.75 2.5 mm</li></ul>		screw-type terminals
<ul> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>Screw-type terminals</li> <li>Screw-type terminals</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts</li> <li>— solid</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>of or AWG cables for main contacts</li> <li>e stranded</li> <li>of finely stranded with core end processing</li> <li>of stranded</li> <li>of successing</li> <li>of succession</li> <li>of su</li></ul>		
• of magnet coil  type of connectable conductor cross-sections  • for main contacts  — solid — solid or stranded — finely stranded with core end processing • stranded • stranded • stranded • stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts • solid • stranded • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing  type of connectable conductor cross-sections • for auxiliary contacts  — solid or stranded — finely stranded with core end processing  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²	•	
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  • stranded  • finely stranded with core end processing  • stranded  • finely stranded with core end processing  • solid  • stranded  • finely stranded with core end processing  connectable conductor cross-section for main contacts  • solid  • stranded  • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded  — finely stranded with core end processing  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  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 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	•	**
• for main contacts         — solid         — solid or stranded         — solid or stranded         — finely stranded with core end processing         • for AWG cables for main contacts         • solid         • stranded         • stranded         • solid or stranded         • stranded         • solid         • stranded         • finely stranded with core end processing         • solid         • stranded         • 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         • for auxiliary contacts         • solid or stranded         • for auxiliary contacts         • for auxiliary contacts         • solid or stranded         • solid or stranded         • for auxiliary contacts         • solid or stranded         • for auxiliary contacts         • solid or stranded         • solid or stranded         • for auxiliary contacts         • solid or stranded         • for auxiliary contacts         • solid or stranded         • solid or stranded         • for auxiliary contacts         • solid or stranded         • solid or stranded         • solid or stranded         • for auxiliary contacts          • solid or stranded         • soli		
- solid - solid - 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² - solid or stranded - finely stranded with core end processing - 2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²), 2x 4 mm² - finely stranded with core end processing - 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  • for AWG cables for main contacts - 2x (20 16), 2x (18 14), 2x 12  connectable conductor cross-section for main contacts  • solid - 0.5 4 mm²  • stranded - 0.5 4 mm²  • finely stranded with core end processing - 0.5 2.5 mm²  connectable conductor cross-section for auxiliary contacts  • solid or stranded - 0.5 4 mm²  • finely stranded with core end processing - 0.5 2.5 mm²  type of connectable conductor cross-sections  • for auxiliary contacts  - solid or stranded - 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  - finely stranded with core end processing - 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  • for AWG cables for auxiliary contacts - 2x (20 16), 2x (18 14), 2x 12  AWG number as coded connectable conductor cross	· ·	
- solid or stranded - finely stranded with core end processing - for AWG cables for main contacts  • solid • stranded • stranded • stranded • finely stranded with core end processing • for AWG cables for main contacts  • solid • stranded • stranded • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts • 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  type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  • for AWG cables for auxiliary contacts  2x (20 16), 2x (18 14), 2x 12		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²). 2x 4 mm²
<ul> <li>— finely stranded with core end processing</li> <li>● for AWG cables for main contacts</li> <li>Exercise (20 1.5 mm²), 2x (0.75 2.5 mm²)</li> <li>Exercise (20 16), 2x (18 14), 2x 12</li> <li>Exercise (20 18), 2x (0.75 2.5 mm²)</li> <li>Exercise (20 16), 2x (18 14), 2x 12</li> </ul>		
<ul> <li>for AWG cables for main contacts</li> <li>connectable conductor cross-section for main contacts</li> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>finely stranded with core end processing</li> <li>2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)</li> <li>for AWG cables for auxiliary contacts</li> <li>for AWG cables for auxiliary contacts</li> <li>2x (20 16), 2x (18 14), 2x 12</li> </ul> AWG number as coded connectable conductor cross		
connectable conductor cross-section for main contacts  • solid  • 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 with 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  - solid or stranded  - finely stranded with core end processing  • for AWG cables for auxiliary contacts  - solid or stranded		
<ul> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>finely stranded with core end processing</li> <li>2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)</li> <li>for AWG cables for auxiliary contacts</li> <li>2x (20 16), 2x (18 14), 2x 12</li> </ul> AWG number as coded connectable conductor cross		, , , , , , , , , , , , , , , , , , ,
<ul> <li>stranded</li> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²</li> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>for AWG number as coded connectable conductor cross</li> </ul>		0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²</li> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>for AWG number as coded connectable conductor cross</li> </ul>		
connectable conductor cross-section for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded  — solid or stranded  — finely stranded with core end processing  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  — finely stranded with core end processing  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  • for AWG cables for auxiliary contacts  2x (20 16), 2x (18 14), 2x 12		
<ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>for AWG number as coded connectable conductor cross</li> </ul>	<u> </u>	
<ul> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul> </li> <li>to for AWG number as coded connectable conductor cross</li> <li>0.5 2.5 mm²</li> <li>2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)</li> <li>2x (0.75 2.5 mm²)</li> <li>2x (20 16), 2x (18 14), 2x 12</li> </ul>	-	0.5 4 mm²
type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded — finely stranded with core end processing  • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross		
<ul> <li>for auxiliary contacts         <ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul> </li> <li>AWG number as coded connectable conductor cross</li> <li>2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)</li> <li>2x (20 16), 2x (18 14), 2x 12</li> </ul>	<u> </u>	
<ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— for AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross</li> <li>2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)</li> <li>2x (20 16), 2x (18 14), 2x 12</li> </ul>		
— finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  • for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 2x 12  AWG number as coded connectable conductor cross	•	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
• for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 2x 12  AWG number as coded connectable conductor cross		
AWG number as coded connectable conductor cross		
	·	( · · · · · · · · · · · · · · · ·

<ul> <li>for main contacts</li> </ul>	20 12
<ul> <li>for auxiliary contacts</li> </ul>	20 12
Safety related data	
product function	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes; with 3RH29
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	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	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	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
T1 value	
<ul> <li>for proof test interval or service life according to IEC 61508</li> </ul>	20 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

Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping









Miscellaneous

other

Confirmation

other

Railway

**Environment** 

Confirmation

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=3RT2017-1AN61

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-1AN61

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-1AN61

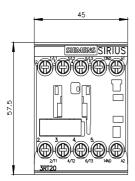
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

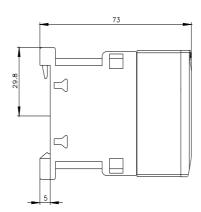
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2017-1AN61&lang=en

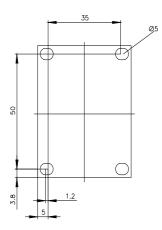
Characteristic: Tripping characteristics, I2t, Let-through current

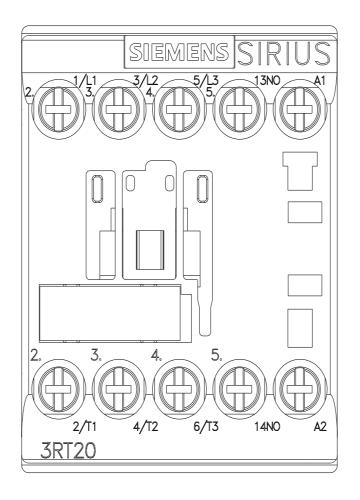
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-1AN61/char

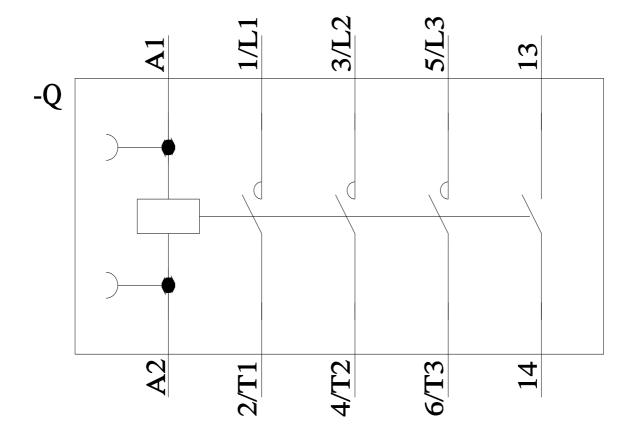
Further characteristics (e.g. electrical endurance, switching frequency)
<a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2017-1AN61&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2017-1AN61&objecttype=14&gridview=view1</a>











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