## **SIEMENS**

**Data sheet** 3RT2016-1BB41



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO, screw terminal

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
<ul><li>auxiliary switch</li></ul>	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	0.9 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.3 W
<ul> <li>without load current share typical</li> </ul>	4 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at DC	10,5g / 5 ms, 6,6g / 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
<ul> <li>during storage</li> </ul>	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	

number of poles for main current circuit number of NO contacts for main contacts	3 3
operating voltage	3
at AC-3 rated value maximum	690 V
at AC-3 rated value maximum     at AC-3e rated value maximum	690 V
operational current	030 V
at AC-1 at 400 V at ambient temperature 40 °C	22 A
rated value	
• at AC-1	
<ul> <li>up to 690 V at ambient temperature 40 °C</li> </ul>	22 A
rated value	
— up to 690 V at ambient temperature 60 °C	20 A
rated value	
• at AC-3	
— at 400 V rated value	9 A
— at 500 V rated value	7.7 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	9 A
— at 500 V rated value	7.7 A
— at 690 V rated value	6.7 A
at AC-4 at 400 V rated value     at AC-5 aug to 600 V rated value	8.5 A 19.4 A
<ul><li>at AC-5a up to 690 V rated value</li><li>at AC-5b up to 400 V rated value</li></ul>	19.4 A
at AC-5b up to 400 v rated value     at AC-6a	7.4 A
— up to 230 V for current peak value n=20 rated	5.3 A
value	5.5 A
— up to 400 V for current peak value n=20 rated	5.3 A
value	
— up to 500 V for current peak value n=20 rated	5.3 A
value	
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	5 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated	3.5 A
value	0.0 A
— up to 400 V for current peak value n=30 rated	3.5 A
value	
— up to 500 V for current peak value n=30 rated	3.6 A
value	0.0 4
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	3.3 A
minimum cross-section in main circuit at maximum AC-1	4 mm²
rated value	
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 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 V reted 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	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A
<ul> <li>with 3 current paths in series at DC-1</li> <li>at 24 V rated value</li> </ul>	20 A
— at 60 V rated value	20 A
— at ou viated value	LUT

at 110 V rated value	20 A
— at 110 V rated value	20 A 20 A
— at 220 V rated value — at 440 V rated value	1.3 A
— at 600 V rated value	1.3 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
• with 2 current paths in series at DC-3 at DC-5	
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 110 V rated value	0.35 A
<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	0.0111
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 kW
— at 690 V rated value ● at AC-3e	5.5 kW
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 kW
— at 690 V rated value	5 kW
operating power for approx. 200000 operating cycles	<b>V</b>
at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	2 kW
<ul> <li>at 690 V rated value</li> </ul>	2.5 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	2 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	3.6 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	4.6 kVA
• up to 690 V for current peak value n=20 rated value	5.9 kVA
operating apparent power at AC-6a	40.074
• up to 230 V for current peak value n=30 rated value	1.3 kVA
• up to 400 V for current peak value n=30 rated value	2.4 kVA
• up to 500 V for current peak value n=30 rated value	3.1 kVA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state</li> </ul>	4 kVA
up to 40 °C	
limited to 1 s switching at zero current maximum	155 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	111 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	86 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	66 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	55 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at DC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h
at AC-3e maximum     at AC-4 maximum	750 1/h 250 1/h
• at AC-4 maximum	230 1/11
Control circuit/ Control	P.O.
type of voltage of the control supply voltage	DC
control supply voltage at DC	24.V
rated value     operating range factor control supply voltage rated	24 V
operating range factor control supply voltage rated	

value of magnet sail of DC	
value of magnet coil at DC	0.0
initial value     full-scale value	0.8
	1.1 4 W
closing power of magnet coil at DC	
holding power of magnet coil at DC	4 W
closing delay	00 400
• at DC	30 100 ms
opening delay	7. 40
• at DC	7 13 ms
arcing time	10 15 ms
control version of the switch operating mechanism  Auxiliary circuit	Standard A1 - A2
	1
number of NO contacts for auxiliary contacts instantaneous contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	40.4
at 230 V rated value     at 400 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	40.4
• at 24 V rated value	10 A
at 48 V rated value     at 60 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	10.4
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  • at 480 V rated value	7.6 A
at 400 V rated value     at 600 V rated value	9 A
yielded mechanical performance [hp]	9 A
for single-phase AC motor	
5 1	0.33 hp
— at 110/120 V rated value — at 230 V rated value	0.33 hp
for 3-phase AC motor	1 hp
— at 200/208 V rated value	2 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	5 hp
— at 450/460 V rated value	7.5 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
— with type of coordination 1 required	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
with type of coordination is required  - with type of assignment 2 required	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,
wat type of assignment 2 required	80kA)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715

* side-by-side mounting height width depth width depth 73 mm 7	height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards	58 mm 45 mm 73 mm  10 mm 10 mm 10 mm 0 mm  10 mm 6 mm
with idepth 73 mm required spacing  • with side by side mounting  — forwards — upwards — downwards — of more prounded parts — forwards — upwards — upwards — upwards — upwards — of more prounded parts — forwards — upwards — of more prounded parts — forwards — upwards — of more prounded parts — forwards — of more parts — upwards — of more parts — upwards — of more parts — upwards — upwards — of more parts — upwards — of more parts • for auxiliary and control circuit • for auxiliary and control circuit • of auxiliary and control circuit • of auxiliary and control circuit • of magnet coil • year of connectable conductor cross-sections for main contacts • aloid of stranded with core end processing connectable conductor cross-section for main contacts • solid of stranded • ineley stranded with core end processing connectable conductor cross-section for auxiliary contacts — solid or stranded • ineley stranded with core end processing type of connectable conductor cross-section for main contacts — solid or stranded • ineley stranded with core end processing type of connectable conductor cross-sections — in first part and with core end processing  • or auxiliary contacts — solid or stranded • in early stranded with core end processing  • or auxiliary contacts — solid or stranded • in early stranded with core end processing  • or auxiliary contacts — solid or stranded • in early stranded with core end processing  • or auxiliary contacts — solid or stranded • in early stranded with core end processing • or auxiliary contacts — solid or stranded • in early stranded with core end processing • or auxiliary contacts — solid or stranded • in early stranded with core end processing • or auxiliary contacts — solid or stranded • in early stranded with core end processing • or auxiliary contacts  • or auxiliary contacts  • or auxiliary contacts  • or auxiliary contacts  • or auxiliary contacts • or auxiliary contacts • or auxiliary cont	width depth required spacing  • with side-by-side mounting  — forwards — upwards — downwards — at the side  • for grounded parts — forwards	45 mm 73 mm  10 mm 10 mm 10 mm 0 mm  10 mm 10 mm 6 mm
equilined spacing  - (orwards - Upwards - of the side - of	depth required spacing  • with side-by-side mounting  — forwards  — upwards  — downwards  — at the side  • for grounded parts  — forwards	10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 6 mm
required spacing  • with side-by-side mounting  — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — to have side — of man the side — downwards — at the side — downwards — to man — at the side — downwards — 10 mm — at the side — downwards — 10 mm — at the side — downwards — 10 mm — upwards — to man — upwards — downwards — to man — upwards — downwards — to man — upwards — downwards — to man — upwards — to man —	required spacing  with side-by-side mounting  forwards  upwards  downwards  at the side  for grounded parts  forwards	10 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm
• with side-by-side mounting — forwards — upwards — at the side • for grounded parts — forwards — at the side — at the side — downwards — at the side — downwards — 10 mm — at the side — downwards — 10 mm — of mm — downwards — forwards — forwards — forwards — forwards — forwards — forwards — upwards — forwards — forwards — forwards — forwards — upwards — forwards — forwards — forwards — forwards — upwards — forwards — forwards — upwards — forwards — forwards — upwards — forwards — upwards — forwards — upwards — forwards — upwards — forwards — forwards — upwards — forwards — upwards — forwards — forwards — upwards — forwards — forwards — upwards — forwards — upwards — forwards — upwards — forwards — forwards — upwards — forwards	<ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> </ul>	10 mm 10 mm 0 mm 10 mm 10 mm 6 mm
- Forwards - Upwards - Jownwards - Jownwards - Jownwards - In miles - Forwards - Upwards - Jownwards	<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>for grounded parts</li> <li>forwards</li> </ul>	10 mm 10 mm 0 mm 10 mm 10 mm 6 mm
upwards downwards at the side of orgrounded parts for grounded parts for grounded parts for grounded parts forwards upwards at the side downwards forwards forw	<ul> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> <li>• for grounded parts</li> <li>— forwards</li> </ul>	10 mm 10 mm 0 mm 10 mm 10 mm 6 mm
- downwards - at the side - at the side - forwards - forwards - upwards - at the side - downwards - at the side - downwards - downwards - for live parts - forwards - upwards - forwards - upwards - downwards - upwards - upwar	<ul><li>— downwards</li><li>— at the side</li><li>• for grounded parts</li><li>— forwards</li></ul>	10 mm 0 mm 10 mm 10 mm 6 mm
- at the side	<ul><li>— at the side</li><li>for grounded parts</li><li>— forwards</li></ul>	0 mm  10 mm 10 mm 6 mm
• for grounded parts  — forwards  — upwards — downwards  • for live parts  — forwards  • for live parts  — towards  — upwards — low mards — upwards — ownwards — upwards — ownwards — upwards — ownwards — ownwa	<ul><li>for grounded parts</li><li>forwards</li></ul>	10 mm 10 mm 6 mm
forwards at the side downwards at the side downwards forwards forwards forwards forwards payards forwards downwards downwards at the side downwards downwards downwards at the side for main current circuit for auxillary contacts for auxillary contacts solid solid or 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 auxillary contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxillary contacts solid or stranded finely stranded with core end processing solid or stranded finely stranded with core end processing for auxillary contacts solid or stranded finely stranded with core end processing for auxillary contacts solid or stranded finely stranded with core end processing for auxillary contacts solid or stranded finely stranded with core end processing for auxillary contacts solid or stranded finely stranded with core end processing for auxillary contacts solid or stranded finely stranded with core end processing for auxillary contacts solid or stranded finely stranded with core end processing for auxillary contacts solid or stranded finely stranded with core end processing for auxillary contacts solid or stranded finely stranded with core end processing for auxillary contacts solid or stranded finely stranded with core end processing for auxillary contacts 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 co	— forwards	10 mm 6 mm
upwards at the side downwards 10 mm 10		10 mm 6 mm
- at the side    - downwards    - for live parts    - forwards    - upwards    - upwards    - downwards    - screw-type terminals    - downwards    - downwards    - downwards    - downwards    - screw-type terminals    - downwards    - downwards	— Howards	6 mm
• for live parts - forwards - upwards - upwards - downwards - downwards - downwards - downwards - downwards - at the side  Connections/ Terminals  **Ype of electrical connection • for main current circuit • at contactor for auxiliary contacts • of magnet coil † ype of connectable conductor cross-sections for main contacts • solid • solid or stranded • sinely stranded with core end processing connectable conductor cross-section for main contacts • solid • 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 connectable conductor cross-sections • for auxiliary contacts • solid or stranded — finely stranded with core end processing • at AVMC acbles for auxiliary contacts AWG number as coded connectable conductor cross-sections • for main contacts • for main contacts • for main contacts • for auxiliary contacts  AWG number as coded connectable conductor cross-sections • for main contacts • for main contacts • for main contacts • for auxiliary contacts  AWG number as coded connectable conductor cross-sections • for main contacts • for auxiliary contacts  AWG number as coded connectable conductor cross-sections • for auxiliary contacts  20 12 20 12 212 212 212 212 213 214 214 215 216 217 217 218 217 218 218 219 219 219 219 219 210 210 210 210 210 210 210 210 210 210	·	
for live parts         — lorwards         — upwards         — downwards         — at the side  Connections/Torminals  Type of electrical connection         • for auxiliary and control circuit         • solid         • of magnet coil		10 111111
forwards upwards upwards 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 coll type of connectable conductor cross-sections for main contacts • solid • solid or 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 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  • 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 • at AWG cables for auxiliary contacts  - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts  - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts  - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts  - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts  - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts  - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts  - solid or stranded - fi		
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- downwards — at the side  Connections/ Terminals  type of electrical connection  • for main current circuit screw-type terminals  • at contactor for auxiliary contacts  • of magnet coil type of connectable conductor cross-section for main contacts  • solid or stranded • finely stranded with core end processing connectable conductor cross-section for main contacts  • solid • solid or stranded • finely stranded with core end processing connectable conductor cross-section for main 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 connectable conductor cross-section for auxiliary contacts  • solid or stranded • finely stranded with core end processing connectable conductor cross-sections • for auxiliary contacts  — solid or stranded • finely stranded with core end processing connectable conductor cross-sections • for fornely stranded with core end processing conducts  • solid or stranded • finely stranded with core end processing conducts  • solid or stranded • finely stranded with core end processing conducts  • solid or stranded • finely stranded with core end processing conducts  • for auxiliary contacts  • solid or stranded • finely stranded with core end processing conductor cross-sections • for auxiliary contacts  • solid or stranded • finely stranded with core end processing conductor cross-sections • for auxiliary contacts  • solid or stranded • finely stranded with core end processing conductor cross-section conducts • solid or stranded • finely stranded with core end processing conductor cross-section conducts • solid or stranded • finely stranded with core end processing conductor cross-section con		
The side 6 mm  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 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 connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing 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 • to auxiliary contacts  - solid or stranded - finely stranded with core end processing • for auxiliary contacts  - solid or stranded - finely stranded with core end processing • to auxiliary contacts  - solid or stranded - finely stranded with core end processing • to auxiliary contacts  - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts  - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts  - solid or stranded - finely stranded with core end processing • at AWG auther as coded connectable conductor cross section • for main contacts - for auxiliary contacts  - for auxiliary contacts  - for auxiliary contacts  - for auxiliary contacts  - for auxiliary contacts  - for auxiliary contacts  - for auxiliary contacts  - for auxiliary contacts  - for auxiliary contacts  - for auxiliary contacts  - for auxiliary contacts  - for auxiliary contacts  - for auxiliary contacts  - for auxiliary contacts  - for auxiliary contacts  - for auxiliary contacts  - for auxiliary contacts  - for auxiliary contac	•	
type of electrical connection  • for main current circuit  • at contactor for auxiliary and control circuit  • at contactor for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  connectable conductor cross-sections for main contacts  • solid or stranded  • finely stranded with core end processing  connectable conductor cross-section for main contacts  • solid  • sinely stranded with core end processing  connectable conductor cross-section for main 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  connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded  • finely stranded with core end processing  • at AWC cables for auxiliary contacts  AWC number as coded connectable conductor cross-section  • for main contacts  • for main contacts  • for auxiliary contacts  AWC number as coded connectable conductor cross-section  • for main contacts  • for auxiliary contacts  20		
type of electrical connection  • for main current circuit  • at contactor for auxiliary contacts  • at contactor for auxiliary contacts  • of magnet coil  type of connectable conductor cross-sections for main contacts  • solid  • solid or stranded  • finely stranded with core end processing  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  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  • at AWG cables for auxiliary contacts  • at AWG cables for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts  • at Window for a contact according to SN 31920  • with low demand rate ac		
• 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 connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • solid • 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-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 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 main contacts - 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 - sol		
of rauxillary and control circuit     at contactor for auxillary contacts     of magnet coil  type of connectable conductor cross-sections for main contacts     osolid     osolid	· ·	screw-type terminals
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 connectable conductor cross-section for main contacts  solid stranded sinely stranded with core end processing connectable conductor cross-section for main contacts solid stranded sinely stranded with core end processing connectable conductor cross-section for auxiliary connectable conductor cross-section for auxiliary connectable conductor cross-section for auxiliary connectable conductor cross-sections of nelly stranded with core end processing connectable conductor cross-sections of auxiliary contacts - solid or stranded - finely stranded with core end processing of auxiliary contacts - solid or stranded - finely stranded with core end processing of auxiliary contacts - solid or stranded - finely stranded with core end processing of auxiliary contacts - solid or stranded - finely stranded with core end processing of auxiliary contacts - solid or stranded - finely stranded with core end processing of auxiliary contacts - solid or stranded - finely stranded with core end processing of auxiliary contacts - solid or stranded - finely stranded with core end processing of auxiliary contacts - 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 - sol		• •
of magnet coil type of connectable conductor cross-sections for main contacts	-	
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solid     solid or stranded     solid or stranded     solid or stranded     solid or stranded with core end processing     connectable conductor cross-section for main contacts     solid     stranded     solid or stranded with core end processing     connectable conductor cross-section for main contacts     solid     stranded     solid or stranded with core end processing     connectable conductor cross-section for auxiliary contacts     solid or stranded     solid or stranded     solid or stranded     solid or stranded with core end processing     type of connectable conductor cross-sections     solid or stranded     solid or stranded     solid or stranded with core end processing     solid or stranded     solid or stranded with core end processing     solid or stranded     solid or strander     solid	type of connectable conductor cross-sections for main	cocw type terminals
• solid or stranded     • finely stranded with core end processing connectable conductor cross-section for main contacts     • solid     • stranded     • finely stranded with core end processing     • 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     • at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross-section     • for main contacts     • for or auxiliary contacts     • for auxiliary contacts     20 12     • for auxiliary contacts     •		2x (0.5
• 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 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     • at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross-section     • for main contacts     • for main contacts     • for auxiliary contacts  Safety related data  product function     • mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920     • with high demand rate according to SN 31920     • with high demand rate according to SN 31920     • with high demand rate according to SN 31920     • with high demand rate according to SN 31920     • with ligh demand rate according to SN 31920     • with ligh demand rate according to SN 31920     • with ligh demand rate according to SN 31920     • with ligh demand rate according to SN 31920     • with ligh demand rate according to SN 31920     • with ligh demand rate according to SN 31920     • with ligh demand rate according to SN 31920     • with ligh demand rate according to SN 31920     • with ligh demand rate according to SN 31920     • with ligh demand rate according to SN 31920     • with ligh demand rate according to SN 31920     • with ligh demand rate according to SN 31920     • with ligh demand rate according to SN 31920     • with ligh demand rate according to SN 31920     • with light demand rate according to SN 31920     • with light demand rate according to SN 31920     • with light demand rate according to SN 31920     • with light demand rate according to SN 31920     • with light demand rate according to SN 31920     • with lig		
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 • of auxiliary contacts — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts  • for main contacts • for numitary contacts  20 12 • for numitary contacts  Safety related data  product function • mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure for proof test interval or service life according to IEC 61508		
• 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 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 • taked cables for auxiliary contacts  AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts  20 12  Safety related data  product function • mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure for proof test interval or service life according to IEC 61508		(,,,,
<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>type of connectable conductor cross-sections</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>— finely stranded with core end processing</li> <li>at AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section</li> <li>for main contacts</li> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>20 12</li> <li>for auxiliary contacts</li> <li>20 12</li> <li>sfety related data</li> <li>product function</li> <li>mirror contact according to IEC 60947-4-1</li> <li>B10 value with high demand rate according to SN 31920</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>with low for proof test interval or service life according to IEC 61508</li> </ul>	contacts	
• 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 • at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts 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 (20 16), 2x (18 14), 2x 12   AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts 20 12  Safety related data  product function • mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 IT value for proof test interval or service life according to IEC 61508	• solid	0.5 4 mm²
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 • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (20 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12  AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 • for auxiliary contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508	• stranded	0.5 4 mm²
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 • at AWG cables for auxiliary contacts  AWG number as coded connectable conductor crosssection  • for main contacts • for auxiliary contacts  20 12 • for auxiliary contacts  20 12 • for auxiliary contacts  20 12  Safety related data  product function • mirror contact according to IEC 60947-4-1  B10 value with high demand rate according to SN 31920 • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 10 FIT 31920  T1 value for proof test interval or service life according to IEC 61508	<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
<ul> <li>• finely stranded with core end processing 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>• at AWG cables for auxiliary contacts</li> <li>— with low demand rate according to SN 31920 proportion of dangerous failures</li> <li>• with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to IEC 61508</li> <li>2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²</li> <li>2x (20 16), 2x (18 14), 2x 12</li> <li>2x (20 16), 2x (18 14), 2x 12</li> </ul>		
type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts  20 12 • for auxiliary contacts  20 12  Safety related data  product function • mirror contact according to IEC 60947-4-1  B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 pright demand rate according to SN 31920 • with high demand rate according to SN 31920 1000 FIT  1000 FIT  1000 FIT  1001 FIT  1005 FIT  1007 FIT	<ul> <li>solid or stranded</li> </ul>	0.5 4 mm²
• for auxiliary contacts     — solid or stranded     — finely stranded with core end processing     • at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     • for main contacts     • for auxiliary contacts  Product function     • mirror contact according to IEC 60947-4-1  B10 value with high demand rate according to SN 31920  proportion of dangerous failures     • with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12  2x (20 16), 2x (18 14), 2x 12  4x (0.5 1.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.5 1.5 mm²) 2x (0.5 1.5 mm²),	<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
- solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts  20 12  Safety related data  product function • mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 60547-4-1 In the condition of t	type of connectable conductor cross-sections	
<ul> <li>— finely stranded with core end processing <ul> <li>at AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section</li> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> </ul> </li> <li>Safety related data  <ul> <li>product function</li> <li>mirror contact according to IEC 60947-4-1</li> <li>B10 value with high demand rate according to SN 31920</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>at 20 12</li> </ul> </li> <li>Yes; with 3RH29</li> <li>1 000 000</li> <li>1 000 000</li> <li>73 %</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to IEC 61508</li> </ul>	<ul> <li>for auxiliary contacts</li> </ul>	
at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section  after for main contacts  after for auxiliary contacts  after related data  product function  after mirror contact according to IEC 60947-4-1  B10 value with high demand rate according to SN 31920  proportion of dangerous failures  after with low demand rate according to SN 31920  with high demand rate according to SN 31920  after with low demand rate according to SN 31920  after with low demand rate according to SN 31920  T1 value for proof test interval or service life according to IEC 61508  at X(20 16), 2x (18 14), 2x 12  20 12  20 12  Yes; with 3RH29  1 000 000  7 3%  1 000 000  1 000 000  1 000 000  1 000 000		
AWG number as coded connectable conductor cross section  • for main contacts • for auxiliary contacts  20 12  • for auxiliary contacts  20 12  Safety related data  product function • mirror contact according to IEC 60947-4-1  B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 100 FIT 31920  T1 value for proof test interval or service life according to IEC 61508		
e for main contacts	•	2x (20 16), 2x (18 14), 2x 12
<ul> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>20 12</li> <li>Safety related data</li> <li>product function</li> <li>mirror contact according to IEC 60947-4-1</li> <li>B10 value with high demand rate according to SN 31920</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to IEC 61508</li> </ul>		
<ul> <li>for auxiliary contacts</li> <li>Safety related data</li> <li>product function <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>B10 value with high demand rate according to SN 31920</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> </ul> </li> <li>T1 value for proof test interval or service life according to IEC 61508</li> </ul>		20 12
product function		
product function         • mirror contact according to IEC 60947-4-1 Yes; with 3RH29 B10 value with high demand rate according to SN 31920 1 000 000 proportion of dangerous failures             • with low demand rate according to SN 31920 40 %             • with high demand rate according to SN 31920 73 % failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508		20 12
<ul> <li>mirror contact according to IEC 60947-4-1</li> <li>B10 value with high demand rate according to SN 31920</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to IEC 61508</li> </ul>		
B10 value with high demand rate according to SN 31920  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  T1 value for proof test interval or service life according to IEC 61508  1 000 000  40 %  73 %  100 FIT  20 a	•	Voc. with 2DLI20
proportion of dangerous failures  ● with low demand rate according to SN 31920  • with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  T1 value for proof test interval or service life according to IEC 61508  40 %  73 %  100 FIT	_	
<ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to IEC 61508</li> <li>40 %</li> <li>73 %</li> <li>100 FIT</li> <li>20 a</li> </ul>		1 000 000
<ul> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to IEC 61508</li> <li>73 %</li> <li>100 FIT</li> <li>20 a</li> </ul>		40 %
failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508		
T1 value for proof test interval or service life according to IEC 61508	failure rate [FIT] with low demand rate according to SN	
	T1 value for proof test interval or service life according to	20 a
	protection class IP on the front according to IEC	IP20
60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front	touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
suitability for use	-	
safety-related switching OFF     Yes	safety-related switching OFF	Yes

## **General Product Approval**



Confirmation





**KC** 



**EMC** 

**Functional** Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 



**Type Examination** Certificate





Type Test Certificates/Test Report

Special Test Certificate

**Test Certificates** 

Marine / Shipping

**Miscellaneous** 











Marine / Shipping

other

Railway

**Dangerous Good** 





Confirmation



Vibration and Shock

**Transport Informa-**<u>tion</u>

## **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=3RT2016-1BB41

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2016-1BB41

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-1BB41

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

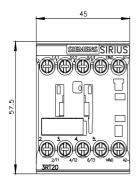
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2016-1BB41&lang=en

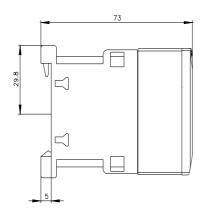
Characteristic: Tripping characteristics, I2t, Let-through current

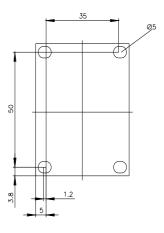
https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-1BB41/char

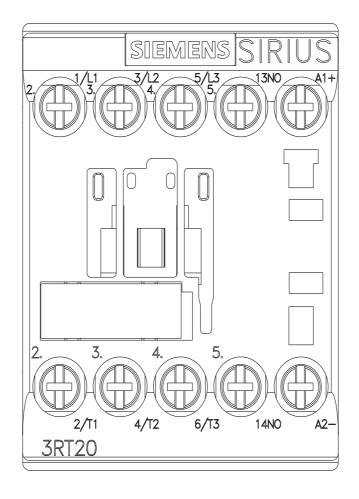
Further characteristics (e.g. electrical endurance, switching frequency)

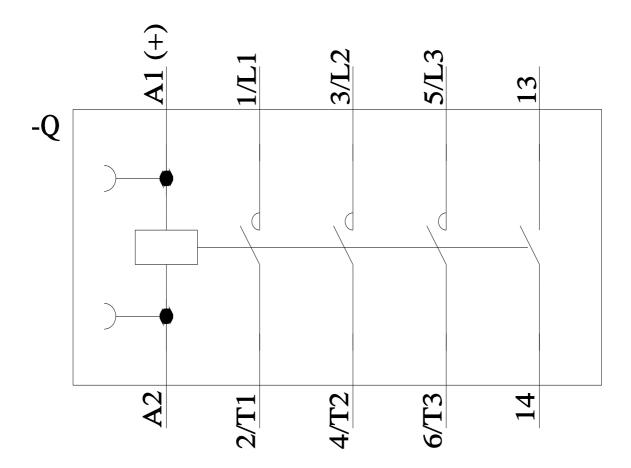
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2016-1BB41&objecttype=14&gridview=view1











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