## **SIEMENS**

Data sheet 3RT2018-1BB41



power contactor, AC-3e/AC-3, 16 A, 7.5 kW / 400 V, 3-pole, 24 V DC, 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
<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>	3 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	1 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	
of main circuit rated value	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	7.3g / 5 ms, 4.7g / 10 ms
shock resistance with sine pulse	
• at DC	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	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3

3
690 V
690 V
22 A
22 A
20 A
16 A
12.4 A
8.9 A
16 A
12.4 A
8.9 A
11.5 A
19.4 A
13.2 A
9.6 A
9.6 A
9.6 A
8.9 A
6.6 A
6.4 A
6.4 A
6.4 A
4 mm²
5.5 A
4.4 A
7.7 //
20 A
20 A
2.1 A
2.1 A 0.8 A
2.1 A 0.8 A 0.6 A
2.1 A 0.8 A
2.1 A 0.8 A 0.6 A 0.6 A
2.1 A 0.8 A 0.6 A 0.6 A
2.1 A 0.8 A 0.6 A 0.6 A 20 A
2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 12 A
2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 12 A 1.6 A
2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 12 A 1.6 A 0.8 A
2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 12 A 1.6 A
2.1 A 0.8 A 0.6 A 0.6 A  20 A 20 A 12 A 1.6 A 0.8 A 0.7 A
2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A 12 A 1.6 A 0.8 A 0.7 A
2.1 A 0.8 A 0.6 A 0.6 A  20 A 20 A 12 A 1.6 A 0.8 A 0.7 A
2.1 A 0.8 A 0.6 A 0.6 A  20 A 20 A 12 A 1.6 A 0.8 A 0.7 A
2.1 A 0.8 A 0.6 A 0.6 A  20 A 20 A 12 A 1.6 A 0.8 A 0.7 A  20 A 20 A 20 A 20 A
2.1 A 0.8 A 0.6 A 0.6 A  20 A 20 A 12 A 1.6 A 0.8 A 0.7 A

— at 24 V rated value	20 A
— at 60 V rated value	0.5 A
— at 110 V rated value	0.15 A
<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	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	7.5 kW
operating power for approx. 200000 operating cycles at AC-	
4	
at 400 V rated value	2.5 kW
at 690 V rated value	3.5 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	3.8 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	6.6 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	8.3 kVA
up to 690 V for current peak value n=20 rated value	10.6 kVA
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	2.5 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	4.4 kVA
• up to 500 V for current peak value n=30 rated value	5.5 kVA
up to 690 V for current peak value n=30 rated value	7.6 kVA
short-time withstand current in cold operating state up to 40 °C	
limited to 1 s switching at zero current maximum	300 A; Use minimum cross-section acc. to AC-1 rated value
Ilmitted to 1's switching at zero current maximum     Ilmitted to 5's switching at zero current maximum	169 A; Use minimum cross-section acc. to AC-1 rated value
Ilmitted to 3 s switching at zero current maximum     Imitted to 10 s switching at zero current maximum	128 A; Use minimum cross-section acc. to AC-1 rated value
Ilmitted to 10 s switching at zero current maximum     Ilmitted to 30 s switching at zero current maximum	92 A; Use minimum cross-section acc. to AC-1 rated value
Ilmitted to 50 s switching at zero current maximum     Ilmitted to 60 s switching at zero current maximum	74 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	, 550 minimum oroso costion doc. to No Trated value
• 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	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC	
• rated value	24 V
operating range factor control supply voltage rated value of magnet coil at DC	27 7
initial value	0.8
Initial value     full-scale value	0.8
₹ IUII-SCAIC VAIUC	I.I

closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
closing delay	
• at DC	30 100 ms
opening delay	
• at DC	7 13 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	2 A
at 220 V rated value	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	10 A
at 48 V rated value	2 A
at 60 V rated value	2 A
	1 A
at 110 V rated value     at 135 V rated value	
at 125 V rated value     at 230 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	14 A
at 600 V rated value	11 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	1 hp
— at 230 V rated value	2 hp
• for 3-phase AC motor	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	5 hp
— at 460/480 V rated value	10 hp
— at 575/600 V rated value	10 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	
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80kA)
— with type of assignment 2 required	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)
for short-circuit protection of the auxiliary switch required	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
fastening method	
• side-by-side mounting	Yes
height	58 mm
width	45 mm

with adic-by-eide mounting	depth	73 mm
with side-ty-eitle mounting	·	
- upwards	with side-by-side mounting	
- downwards	— forwards	10 mm
■ for grounded parts  — forwards — upwards — at the side — at the side — at the side — at the side — for live parts — forwards — in wards — in wards — for live parts — forwards — upwards — forwards — upwards — in wards — forwards — upwards — to man — at the side — downwards — downwards — to man — at the side — downwards — to man — at the side — downwards — downwards — to man — to man — the side — some detertical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • for auxiliary and control circuit • sorew-type terminals  * type of connectable conductor cross-sections for main contacts • solid • solid or stranded • finely stranded with core end processing • for AWC acute for auxiliary contacts • for	— upwards	10 mm
- for grounded parts  - forwards  - upwards  - at the side  - downwards  - for live parts  - forwards  - upwards  - forwards  - upwards  - upw	— downwards	10 mm
- forwards	— at the side	0 mm
- upwards	for grounded parts	
- at the side	— forwards	10 mm
- downwards - for live parts - chowards - chowards - downwards - downwards - at the side - downwards - at the side - one chourse of the side - one chourse of the side - one chourse of the side - of mm  - at the side - one chourse of the side - of main current circuit - for auxiliary and control circuit - of auxiliary and control circuit - of auxiliary and control circuit - of magnet coil - yee of central for auxiliary contacts - of magnet coil - yee of connectable conductor cross-sections for main contacts - solid - solid or stranded - sinely stranded with core end processing - of main contacts - solid - solid or stranded - if nely stranded with core end processing - one contact or conductor cross-section for main contacts - solid or stranded - if nely stranded with core end processing - one conductor cross-section for auxiliary contacts - solid or stranded - if nely stranded with core end processing - solid or stranded - if nely stranded with core end processing - solid or stranded - if nely stranded with core end processing - solid or stranded - if nely 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 proce	— upwards	10 mm
• for live parts  — forwards — upwards — at the side  - downwards — at the side  - dominations of terminals  Type of electrical connection  • for main current circuit • at contactor for auxiliary contacts • of main contents • solid • solid or stranded • firely stranded with core end processing • stranded • firely stranded with core end processing • of majent contacts • solid • stranded • firely stranded with core end processing • of single stranded • firely stranded with core end processing • of single stranded • firely stranded with core end processing • of main contacts • solid or stranded • firely stranded with core end processing • of main contacts • solid or stranded • firely stranded with core end processing • of main contacts • solid or stranded • firely stranded with core end processing • for auxiliary contacts • solid or stranded — firely stranded with core end processing • for auxiliary contacts • solid or stranded — firely stranded with core end processing • for auxiliary contacts • solid or stranded — firely stranded with core end processing • for AWC auxiliary contacts • for auxilia	— at the side	6 mm
- forwards - upwards - upwards - downwards - downwards - downwards - at the side - at the side - at the side - at the side - own manual second to the side of the	— downwards	10 mm
- upwards - downwards - at the side - at the side - onnections/ Terminals  type of electrical connection - for main current circuit - for auxiliary and control circuit - at contactor for auxiliary contacts - at contactor for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing - solid or stranded - sinely s	• for live parts	
downwards at the side 6 mm  Some  Connections/ Terminals  Type of electrical connection  • for main current circuit screw-type terminals • at contactor for auxiliary contacts • at contactor for auxiliary contacts • of magnet coil  yep of connectable conductor cross-sections for main contacts • solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² • solid or stranded • shelp stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² • solid • stranded • finely stranded with core end processing 0.5 4 mm² • solid • stranded • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 4 mm² • for auxiliary contacts • solid or stranded 0.5 4 mm² • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for main co	— forwards	10 mm
at the side  connections/ Forminals  very por 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  • finely stranded with core end processing  • finely stranded with core end processing  • solid or stranded  • finely stranded with core end processing  • for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  • for auxiliary contacts	— upwards	10 mm
type of electrical connection  • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil  type of connectable conductor cross-sections for main contacts • solid • solid or stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • 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 • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • for proporties fallures • with low 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 EC 60529 • with high demand rate according to EC 60529  filture rate [FIT] with tow demand rate according to EC 60529  filture rate [FIT] with the work and a caccording to EC 60529  filture rate [FIT] with the work and a caccording to EC 60529  filtur	— downwards	10 mm
type of electrical connection   • for main current circuit   screw-type terminals     • for main grant cornect circuit   screw-type terminals     • at contactor for auxiliary contacts     • of many auxiliary contacts     • solid     • finely stranded with core end processing     • finely stranded with core end processing     • stranded     • finely stranded with core end processing     • for auxiliary contacts     • for auxili	— at the side	6 mm
• for main current circuit     • for auxiliary and control circuit     • for auxiliary and control circuit     • act contactor for auxiliary contacts     • of magnet coil     type of connectable conductor cross-section for main contacts     • solid     • solid or stranded     • finely stranded with core end processing     • 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     • finely stranded with core end processing     • for auxiliary contacts     • for auxiliary contact	Connections/ Terminals	
• 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  • 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  • or auxiliary contacts  • or auxiliary contacts  • for auxiliary contacts  • wi	type of electrical connection	
• 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  • 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 solid or stranded  • finely stranded with core end processing  • for solid or stranded  • finely stranded with core end processing  • for avxiliary contacts  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts  • for main contacts  • for auxiliary cont		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 • sitranded • finely stranded with core end processing connectable conductor cross-section for main contacts • solid • sitranded • 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 • for main contacts		
type of connectable conductor cross-sections for main contacts  solid solid or stranded solid or stranded 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 (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 4 mm² 3x (0.5	•	· · · · · · · · · · · · · · · · · · ·
solid or stranded enductor cross-sections for main contacts	•	
• solid     • solid or stranded     • solid or stranded of finely stranded with core end processing     connectable conductor cross-section for main contacts     • solid     • stranded with core end processing     connectable conductor cross-section for main contacts     • solid     • stranded with core end processing     of finely stranded with core end processing     of finely stranded with core end processing     of finely stranded with core end processing     of stranded     • finely stranded with core end processing     of connectable conductor cross-section for auxiliary contacts     • solid or stranded     • finely stranded with core end processing     of auxiliary contacts     — solid or stranded     of finely stranded with core end processing     of ro AWG cables for auxiliary contacts     — solid or stranded     — finely stranded with core end processing     of rot AWG cables for auxiliary contacts     of or auxiliary contacts     of rot		, ,
solid or stranded     inely stranded with core end processing     connectable conductor cross-section for main contacts     solid     stranded     inely stranded with core end processing     of or auxiliary contacts     of or aux		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
• 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  0.5 4 mm²  • 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  • for faw in a contact second processing  • for faw in a contact second processing  • for faw in a contact second processing  • for auxiliary contacts  •	solid or stranded	
eonnectable 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  • for AWG cables 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 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 with low demand rate according to SN 31920  • with ligh demand rate according to SN 31920  • with low demand	<ul> <li>finely stranded with core end processing</li> </ul>	
stranded     finely stranded with core end processing     connectable conductor cross-section for auxiliary contacts     solid or stranded     ifnely stranded with core end processing     connectable conductor cross-sections     ifnely stranded with core end processing     connectable conductor cross-sections     if or auxiliary contacts	· · · · · · · · · · · · · · · · · · ·	
of finely stranded with core end processing     connectable conductor cross-section for auxiliary contacts     oslid or stranded     of finely stranded with core end processing     type of connectable conductor cross-sections     of or auxiliary contacts	• 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 • 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 section • for auxiliary contacts • fo		
e solid or stranded in finely stranded with core end processing  type of connectable conductor cross-sections in finely stranded with core end processing  type of connectable conductor cross-sections in for auxiliary contacts  solid or stranded finely stranded with core end processing solid or stranded finely stranded with core end processing for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section  if or auxiliary contacts for auxiliary contacts fo		
solid or stranded     finely stranded with core end processing     type of connectable conductor cross-sections		
type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts  2x (0.5 1.5 mm²), 2x (0.75 2.5 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 • for auxiliary contacts 20 12  Safety related data  product function • mirror contact according to IEC 60947-4-1 Yes; with 3RH29  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  11 value for proof test interval or service life according to IEC 60529 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 suitability for use • safety-related switching OFF Yes  Partificates/approvals	-	0.5 4 mm²
• for auxiliary contacts     — solid or stranded     — finely stranded with core end processing     • for AWG cables for auxiliary contacts     — for AWG cables for auxiliary contacts 2    2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2    2x (20 16), 2x (18 14), 2x 12  AWG number as coded connectable conductor cross section     • for main contacts     • for auxiliary contacts 2    0 12     • for auxiliary contacts 2    0 12  Independent of the formation of the foot according to IEC 60947-4-1  Yes; with 3RH29  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 high demand rate according to SN 31920  with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to IEC 60529  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  suitability for use     • safety-related switching OFF  Yes  Portectificates/ approvals	<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 • for AWG cables for auxiliary contacts  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 • 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 • 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 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 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 high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with own demand rate according to SN 31920 • with own demand rate according to SN 31920 • with own demand rate according to SN 31920 • with own demand rate according to SN 31920 • with own demand rate according to SN 31920 • with own demand rate according to SN 31920 • with own demand rate according to SN 31920 • with own demand rate according to SN 31920 • with own demand rate according to SN 31920 • with own demand rate according to SN 31920 • with own demand rate according to SN 31920 • with own demand rate according to SN 31920 • with own demand rate according to SN 31920 • with own demand rate according to S	· · ·	
- solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts  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 • 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 • 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 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 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 high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with own demand rate according to SN 31920 • with own demand rate according to SN 31920 • with own demand rate according to SN 31920 • with own demand rate according to SN 31920 • with own demand rate according to SN 31920 • with own demand rate according to SN 31920 • with own demand rate according to SN 31920 • with own demand rate according to SN 31920 • with own demand rate according to SN 31920 • with own demand rate according to SN 31920 • with own demand rate according to SN 31920 • with own demand rate according to SN 31920 • with own demand rate according to SN 31920 • with own demand rate according to S		
- finely stranded with core end processing	•	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
• for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section      • for main contacts     • for auxiliary contacts     • mirror contacts     • mirror contact according to IEC 60947-4-1     • Pes; with 3RH29  B10 value with high demand rate according to SN 31920     • with low demand rate according to SN 31920     • 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  T1 value for proof test interval or service life according to IEC 61508  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  touch protection on the front according to IEC 60529  suitability for use     • safety-related switching OFF     Yes  Sertificates/ approvals	<ul> <li>finely stranded with core end processing</li> </ul>	
AWG number as coded connectable conductor cross section  • for main contacts • for auxiliary contacts 20 12 20 12 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 • with high demand rate according to SN 31920 100 FIT  T1 value for proof test interval or service life according to IEC 61508  protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 suitability for use • safety-related switching OFF  Yes  Protectificates/ approvals		
• for main contacts     • for auxiliary 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     • with high demand rate according to SN 31920     • with high demand rate according to SN 31920     73 %  failure rate [FIT] with low demand rate according to IEC 61508  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  touch protection on the front according to IEC 60529  suitability for use     • safety-related switching OFF     Yes  Certificates/ approvals	AWG number as coded connectable conductor cross	, , , , , , , , , , , , , , , , , , , ,
for auxiliary contacts     active related data  product function     mirror contact according to IEC 60947-4-1     Safety related with high demand rate according to SN 31920     mirror contact according to SN 31920     mirror of dangerous failures     mirror		
product function		
product function	•	20 12
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  failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to IEC 61508  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  suitability for use     safety-related switching OFF  Yes  Certificates/ approvals		
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  T1 value for proof test interval or service life according to IEC 61508  protection class IP on the front according to IEC 60529  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  Certificates/ approvals		V W 00100
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  100 FIT  T1 value for proof test interval or service life according to IEC 61508  protection class IP on the front according to IEC 60529  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  Certificates/ approvals		
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     100 FIT  T1 value for proof test interval or service life according to IEC 61508  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  suitability for use     safety-related switching OFF  Yes  Certificates/ approvals		1 000 000
with high demand rate according to SN 31920     failure rate [FIT] with low demand rate according to SN 31920     100 FIT  T1 value for proof test interval or service life according to IEC 61508  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  suitability for use     safety-related switching OFF  Yes  Certificates/ approvals	· · ·	40.04
failure rate [FIT] with low demand rate according to SN 31920  T1 value for proof test interval or service life according to IEC 61508  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  suitability for use  • safety-related switching OFF  Yes  Certificates/ approvals	-	
T1 value for proof test interval or service life according to IEC 61508  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  suitability for use  • safety-related switching OFF  Yes  Certificates/ approvals		
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 suitability for use • safety-related switching OFF  Yes  Certificates/ approvals		
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  Certificates/ approvals		20 a
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  Certificates/ approvals		IP20
suitability for use	· · · · · · · · · · · · · · · · · · ·	
safety-related switching OFF     Yes  Certificates/ approvals	·	
Certificates/ approvals	•	Yes
General Product Approval	General Product Approval	





Confirmation







**Functional EMC** Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 



Type Examination Cer**tificate** 





Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>

**Test Certificates** 

Marine / Shipping

**Miscellaneous** 











Marine / Shipping

other

Railway

**Dangerous Good** 





Confirmation



Vibration and Shock

**Transport Information** 

**Environment** 

**Environmental Confirmations** 

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

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

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

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

Information on the packaging

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

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2018-1BB41

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2018-1BB41

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-1BB41

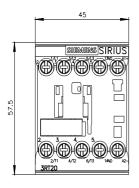
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

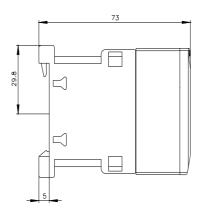
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2018-1BB41&lang=en

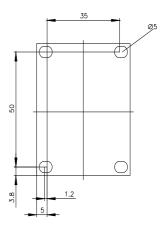
Characteristic: Tripping characteristics, I2t, Let-through current

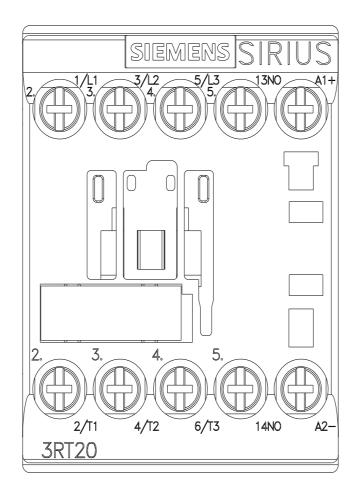
https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-1BB41/char

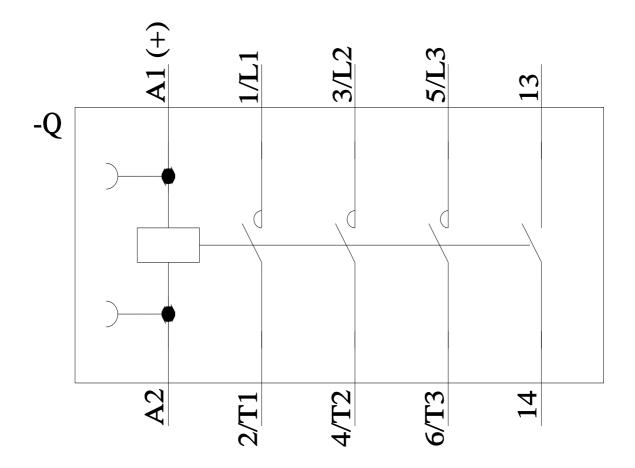
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2018-1BB41&objecttype=14&gridview=view1











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