## 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
auxiliary switch	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
type of calculation of power loss depending on pole	quadratic
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<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 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
Weight	0.29 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %

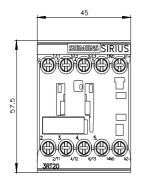
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	153 kg
global warming potential [CO2 eq] during manufacturing	1.42 kg
global warming potential [CO2 eq] during operation	152 kg
global warming potential [CO2 eq] after end of life	-0.305 kg
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> <li>at AC-1</li> </ul>	22 A
up to 690 V at ambient temperature 40 °C rated value	22 A
— up to 690 V at ambient temperature 60 °C rated value	20 A
• at AC-3	
— at 400 V rated value	16 A
— at 500 V rated value	12.4 A
— at 690 V rated value	8.9 A
• at AC-3e	
— at 400 V rated value	16 A
— at 500 V rated value	12.4 A
- at 690 V rated value	8.9 A
at AC-4 at 400 V rated value	11.5 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>	13.2 A
• at AC-6a	13.2 A
- up to 230 V for current peak value n=20 rated value	9.6 A
— up to 400 V for current peak value n=20 rated value	9.6 A
— up to 500 V for current peak value n=20 rated value	9.6 A
	8.9 A
● at AC-6a	
— up to 230 V for current peak value n=30 rated value	6.6 A
— up to 400 V for current peak value n=30 rated value	6.4 A
— up to 500 V for current peak value n=30 rated value	6.4 A
— up to 690 V for current peak value n=30 rated value	6.4 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	5.5 A
• at 690 V rated value     operational current	4.4 A
• 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
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— 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

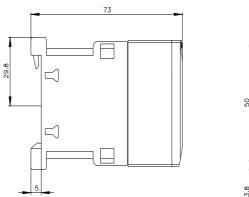
• with 2 during paths in Series at U-1		
	with 3 current paths in series at DC-1	
- at 40 V mice value13.A- at 40 V mice value1A- at 30 V ratic value20.A- at 30 V ratic value0.5 A- at 10 V ratic value0.15 A- at 10 V ratic value20.A- at 20 V ratic value75 KW- at 20 V ratic value25 KW- at 20 V ratic value25 KW- at 20 V ratic value25 KW- at 20 V ratic value38 KW- at 20 V ratic value38 KW- at 20 V ratic value38 KW- at 20 V ratic value25 KW- at 20 V ratic value38 KW <trr>- at 20 V ratic value38 KW<td></td><td></td></trr>		
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		1 A
- af 60 Y taidet value0.5 A- af 11 V Y taidet value0.15 A- af 24 Y taidet value20 A- af 24 Y taidet value20 A- af 30 V taidet value0.35 A- aft 30 V taidet value20 A- aft 40 V tradet value20 A- aft 400 V tradet value20 A- aft 400 V tradet value7.5 kW- aft 400 V tradet value2.5 kW- aft 400 V tradet value2.5 kW- aft 400 V tradet value3.6 kVA- aft 400 V tradet value3.6 kVA- aft 400 V fradet value3.6 kVA- aft 400 V fradet value ne-20 rated value3.6 kVA- aft 400 V fradet value ne-20 rated value3.6 kVA- aft 400 V fradet value ne-20 rated value3.6 kVA- aft 400 V fradet value ne-20 rated value4.6 kVA- aft 400 V fradet value ne-20 rated value4.6 kVA- aft 400 V fradet value ne-20 rated value	-	
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with 3 current paths in series at DC-3 at DC-3		
		0.35 A
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• up to 400 V for current peak value n=30 rated value4.4 kVA• up to 500 V for current peak value n=30 rated value5.5 kVA• up to 690 V for current peak value n=30 rated value7.6 kVAshort-time withstand current in cold operating state up to do C300 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum300 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum169 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum92 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum92 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum92 A; Use minimum cross-section acc. to AC-1 rated value• at DC10000 1/h• at DC10000 1/h• at AC-1 maximum1000 1/h• at AC-1 maximum750 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h		2.5 kVA
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short-time withstand current in cold operating state up to 40 °C300 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum300 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum169 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum128 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum92 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum74 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching frequency10 000 1/h• at DC10 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h		
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• limited to 10 s switching at zero current maximum128 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum92 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum74 A; Use minimum cross-section acc. to AC-1 rated value• no-load switching frequency10 000 1/h• at DC10 000 1/h• at AC-1 maximum1000 1/h• at AC-2 maximum1000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h	<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	300 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 30 s switching at zero current maximum92 A; Use minimum cross-section acc. to AC-1 rated valueImited to 60 s switching at zero current maximum74 A; Use minimum cross-section acc. to AC-1 rated valueImited to 60 s switching frequency10 000 1/hImited to 2010 000 1/hImited to 201000 1/hImi	<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	169 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 60 s switching at zero current maximum       74 A; Use minimum cross-section acc. to AC-1 rated value <b>no-load switching frequency</b> -         • at DC       10 000 1/h <b>operating frequency</b> -         • at AC-1 maximum       1000 1/h         • at AC-2 maximum       1000 1/h         • at AC-2 maximum       750 1/h         • at AC-3 maximum       750 1/h	<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	128 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency         I0 000 1/h           • 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	<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	92 A; Use minimum cross-section acc. to AC-1 rated 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	<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	74 A; Use minimum cross-section acc. to AC-1 rated value
operating frequency         1 000 1/h           • at AC-1 maximum         1 000 1/h           • at AC-2 maximum         750 1/h           • at AC-3 maximum         750 1/h	no-load switching frequency	
• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h	• at DC	10 000 1/h
• at AC-2 maximum         750 1/h           • at AC-3 maximum         750 1/h	operating frequency	
• at AC-3 maximum 750 1/h	● at AC-1 maximum	1 000 1/h
	● at AC-2 maximum	750 1/h
• at AC-3e maximum 750 1/h	• at AC-3 maximum	750 1/h
	• at AC-3e maximum	750 1/h

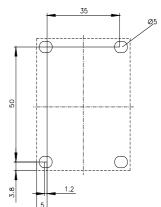
● at AC-4 maximum	250 1/h
• at AC-4 maximum Control circuit/ Control	
	20
type of voltage of the control supply voltage	DC
control supply voltage at DC rated value	24 V
operating range factor control supply voltage rated value of magnet coil at DC	
<ul> <li>initial value</li> </ul>	0.8
• full-scale value	1.1
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
• 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	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
<ul> <li>for 3-phase AC motor</li> </ul>	
— 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 miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V	C characteristic: 10 A; 0.4 kA
design of the fuse link	
• for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)

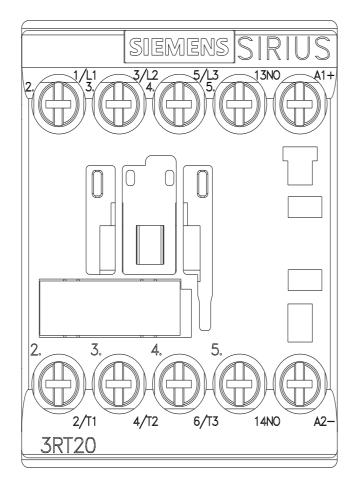
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method side-by-side mounting	Yes
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	58 mm
width	45 mm
depth	73 mm
required spacing	
<ul> <li>with side-by-side mounting</li> </ul>	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	
— forwards	10 mm
— lof wards	10 mm
— upwards — downwards	10 mm
— downwards — at the side	
	6 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals
of magnet coil	Screw-type terminals
type of connectable conductor cross-sections	
<ul> <li>for main contacts</li> </ul>	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>for AWG cables for main contacts</li> </ul>	2x (20 16), 2x (18 14), 2x 12
connectable conductor cross-section for main contacts	
• solid	0.5 4 mm <sup>2</sup>
• stranded	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14), 2x 12
AWG number as coded connectable conductor cross section	
for main contacts	20 12
<ul> <li>for auxiliary contacts</li> </ul>	20 12
Safety related data	
product function	
mirror contact according to IEC 60947-4-1	Yes; with 3RH29
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No
	Yes
suitable for safety function	
suitability for use safety-related switching OFF	Yes
service life maximum	20 a
test wear-related service life necessary	Yes
proportion of dangerous failures	

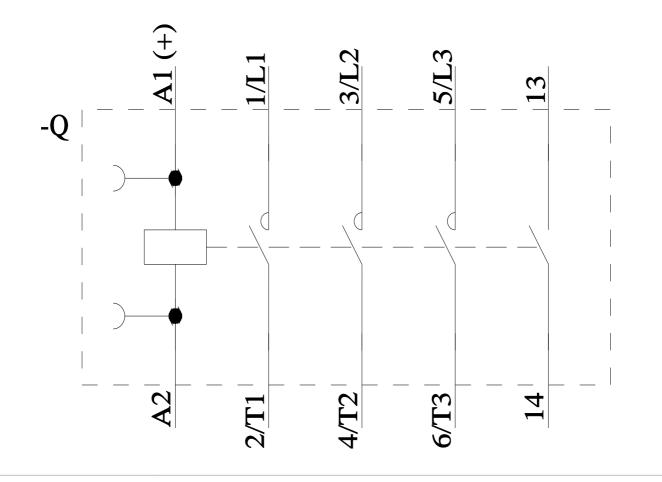
<ul><li>with low demand ra</li><li>with high demand r</li></ul>	ate according to SN 31	920 40	%		
<ul> <li>with high demand r</li> </ul>					
	rate according to SN 3	1920 73	%		
B10 value with high den	nand rate according t	to SN 31920 1 0	00 000		
failure rate [FIT] with low 31920	w demand rate accord	ding to SN 100	) FIT		
ISO 13849					
device type according to	o ISO 13849-1	3			
overdimensioning acco	rding to ISO 13849-2	necessary Yes	3		
IEC 61508					
safety device type acco	rding to IEC 61508-2	Тур	e A		
Electrical Safety					
protection class IP on th	he front according to	IEC 60529 IP2	0		
touch protection on the	front according to IE	C 60529 fing	er-safe, for vertical contact	from the front	
pprovals Certificates					
General Product Appro	val				
	CE EG-Konf.	UK CA	cUUus		<u>KC</u>
General Product Approval	EMV	Test Certificates			Maritime application
EHC	RCM	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	<u>Miscellaneous</u>	ABS
Maritime application			-	~	-
	<u>ĴÅ</u>	Lloyd's Register	٢		RMRS
BUREAU VERITAS	DNV	LRS	PRS	RINA	
BUREAU VERITAS	DNV	Railway	PK5 Dangerous goods	RINA	
other Miscellaneous	Confirmation		Dangerous goods	Environment	Environmental Con- firmations
Miscellaneous		Railway Special Test Certific-		Environment	
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