SIEMENS

Data sheet 3RT2018-1BG41



power contactor, AC-3e/AC-3, 16 A, 7.5 kW / 400 V, 3-pole, 125 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	
 function module for communication 	No
 auxiliary switch 	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	3 W
 at AC in hot operating state per pole 	1 W
 without load current share typical 	4 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at 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)	
 of contactor typical 	30 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	
Weight	0.29 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %

Environmental Footprint Environmental Footprint Environmental Footprint Environmental Footprint Environmental Footprint Global Warming Potential (CO2 eq) duting manufacturing Global Warming Potential (CO2 eq) duting 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 • at AC-3 a rated value maximum 690 V • at AC-3e rated value maximum 690 V operational current • at AC-1 at 400 V at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value • at AC-3 — at 400 V at ambient temperature 60 °C rated value • at AC-3 — at 400 V rated value • at AC-3 — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3e — at 500 V rated value • at AC-5e up to 600 V rated value • at AC-5e up to 600 V rated value • at AC-5e up to 600 V for current peak value n=20 rated value • at AC-6a — up to 500 V for current peak value n=20 rated value • at AC-6a — up to 500 V for current peak value n=20 rated value • at AC-6a — up to 500 V for current peak value n=30 rated value • at AC-6a — up to 500 V for current peak value n=30 rated value • at AC-6a — up to 500 V for current peak value n=30 rated value • at AC-6a — up to 500 V for current peak value n=30 rated value • at AC-6a — up to 500 V for current peak value n=30 rated value • at AC-6a — up to 500 V for current peak value n=30 rated value • at AC-6a — up to 500 V for current peak value n=30 rated value • at AC-6a — up to 500 V for current peak value n=30 rated value • at AC-6a — up to 500 V for current peak value n=30 rated va
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Global Warming Potential (CO2 eq) during manufacturing
Global Warming Potential (CO2 eq) during operation 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 operating voltage • at AC-3 rated value maximum operational current • at AC-1 at 400 V at ambient temperature 40 °C rated value • at AC-1 — up to 690 V at ambient temperature 40 °C rated value • at AC-3 — at 400 V at ambient temperature 60 °C rated value • at AC-3 — at 400 V rated value • at AC-3 — at 400 V rated value • at AC-3 — at 400 V rated value • at AC-3 — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3e — at 400 V rated value • at AC-3 at yo to 960 V rated value • at AC-3 at yo to 960 V rated value • at AC-3 at yo to 960 V rated value • at AC-3 at yo to 960 V rated value • at AC-5a up to 690 V rated value • at AC-6a — up to 230 V for current peak value n=20 rated value — up to 690 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value
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at AC-6a — up to 230 V for current peak value n=30 rated value — up to 400 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — 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 4 mm²
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— 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 4 mm²
minimum cross-section in main circuit at maximum AC-1 rated 4 mm²
value
operational current for approx. 200000 operating cycles at AC-4
• at 400 V rated value 5.5 A
at 690 V rated value 4.4 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 20 A
— at 24 V rated value— at 60 V rated value20 A20 A
— at 10 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 3 current paths in series at DC-1 - at 24 V rated value 20 A - at 60 V rated value 20 A - at 1110 V rated value 20 A - at 220 V rated value 13 A - at 600 V rated value 13 A - at 600 V rated value 13 A - at 600 V rated value 13 A - at 1 current path at DC-3 at DC-5 - at 24 V rated value 0,5 A - at 110 V rated value 0,5 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 * with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value 0,35 A * with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value 20 A - at 110 V rated value 20 A - at 100 V rated value 20 A - at 60 V rated value 20 A - at 60 V rated value 20 A - at 60 V rated value 20 A - at 440 V rated value 20 A - at 440 V rated value 0,2 A - at 440 V rated value 0,2 A - at 400 V rated value 7.5 kW * at AC-3 1 A C-3 1
at 60 V rated value 20 A at 1110 V rated value 20 A at 220 V rated value 1.3 A at 600 V rated value 1.3 A at 600 V rated value 1.4 A at 600 V rated value 20 A at 60 V rated value 20 A at 110 V rated value 20 A at 110 V rated value 20 A at 60 V rated value 30 V ra
at 110 V rated value 20 A at 220 V rated value 13 A at 600 V rated value 15 A at 600 V rated value 15 A at 600 V rated value 15 A at 600 V rated value 20 A at 60 V rated value 0.5 A at 60 V rated value 0.5 A at 110 V rated value 0.35 A at 60 V rated value 0.35 A at 110 V rated value 0.35 A at 110 V rated value 0.35 A at 60 V rated value 20 A at 60 V rated value 20 A at 120 V rated value 1.5 A at 440 V rated value 0.2 A at 240 V rated value 0.2 A at 600 V rated value 7.5 kW
at 220 V rated value 1.3 A 1.4 A 1.4 A 1.4 A 1.5 A
- at 440 V rated value
• at 1 current path at DC-3 at DC-5 — at 24 V rated value
at 24 V rated value
- at 60 V rated value
- at 110 V rated value • with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value - at 60 V rated value - at 110 V rated value • with 3 current paths in series at DC-3 at DC-5 - at 110 V rated value - at 60 V rated value - at 60 V rated value - at 60 V rated value - at 110 V rated value - at 220 V rated value - at 24 V rated value - at 25 V rated value - at 260 V rated value - at 260 V rated value - at 27 V rated value - at 28 V rated value - at 28 V rated value - at 400 V rated value - at 400 V rated value - at 500 V rated value - at 320 V rated value - at 400 V rated value - at 500 V rated value - at 500 V rated value - at 500 V rated value - at 690 V rated value - at 400 V rated value - at 500 V rated value - at 500 V rated value - at 690 V rated value - at 400 V rated value - at 400 V rated value - at 400 V rated value - at 500 V rated value - at 500 V rated value - at 690 V rated value - at 500 V rated value - 3.5 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value - at 690 V rated value - 3.5 kW operating apparent power at AC-6a
• with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value 5 A — at 110 V rated value 0.35 A • with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 20 A — at 110 V rated value 20 A — at 110 V rated value 20 A — at 20 V rated value 20 A — at 220 V rated value 20 A — at 220 V rated value 0.2 A — at 440 V rated value 0.2 A — at 400 V rated value 0.2 A operating power • at AC-3 400 V rated value 4 kW — at 400 V rated value 7.5 kW • at AC-3 — at 500 V rated value 7.5 kW • at 40-3e — at 230 V rated value 7.5 kW • at 40-3e — at 230 V rated value 7.5 kW • at AC-3e — at 230 V rated value 7.5 kW • at AC-3e — at 250 V rated value 7.5 kW • at AC-3e — at 250 V rated value 7.5 kW • at AC-3e — at 250 V rated value 7.5 kW • at AC-3e — at 250 V rated value 7.5 kW • at AC-3e — at 250 V rated value 7.5 kW • at 400 V rated value 7.5 kW • at 690 V rated value 9.5 kW
at 24 V rated value
 at 110 V rated value with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 110 V rated value — at 220 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at AC-2 at 400 V rated value • at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at 400 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at
• with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 20 A — at 60 V rated value 20 A — at 110 V rated value 1.5 A — at 220 V rated value 0.2 A — at 440 V rated value 0.2 A — at 600 V rated value 0.2 A operating power • at AC-2 at 400 V rated value 7.5 kW • at AC-3 — at 230 V rated value 7.5 kW — at 690 V rated value 7.5 kW • at AC-3e — at 230 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
- 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 240 V rated value 0.2 A - at 600 V rated value 0.2 A - at 600 V rated value 0.2 A operating power • at AC-2 at 400 V rated value 7.5 kW • at AC-3 - at 230 V rated value 7.5 kW - at 500 V rated value 7.5 kW - at 690 V rated value 9.5 kW
at 60 V rated value 20 A at 110 V rated value 20 A at 220 V rated value 1.5 A at 440 V rated value 0.2 A at 600 V rated value 0.2 A operating power • at AC-2 at 400 V rated value 7.5 kW • at AC-3 at 230 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 7.5 kW at 690 V rated value 7.5 kW • at AC-3e at 230 V rated value 7.5 kW • at AC-3e at 230 V rated value 7.5 kW • at AC-3e at 230 V rated value 7.5 kW at 690 V rated value 7.5 kW
- 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-2a t 400 V rated value 7.5 kW • at AC-3 - at 230 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 7.5 kW - at 690 V rated value 7.5 kW • at AC-3e - at 230 V rated value 7.5 kW • at AC-3e - at 230 V rated value 7.5 kW • at AC-3e - at 230 V rated value 7.5 kW • at 400 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
- at 220 V rated value - at 440 V rated value - at 600 V rated value - at AC-2 at 400 V rated value - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 500 V rated value - at 690 V rated value - at 230 V rated value - at 690 V rated value
at 440 V rated value 0.2 A at 600 V rated value 0.2 A operating power • at AC-2 at 400 V rated value 7.5 kW • 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 7.5 kW • at AC-3e at 230 V rated value 7.5 kW • at AC-3e at 230 V rated value 7.5 kW at 500 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
operating power
 at AC-2 at 400 V rated value at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 230 V rated value — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 690 V rated value — at 400 V rated value — at 690 V rated value
• at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value • at AC-3e — at 230 V rated value — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 690 V rated value • at 400 V rated value • at 690 V rated value
- at 230 V rated value
- at 400 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 500 V rated value 7.5 kW - at 690 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
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
- at 690 V rated value • at AC-3e - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value 7.5 kW - at 690 V rated value operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operating apparent power at AC-6a
■ at AC-3e — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value Operating power for approx. 200000 operating cycles at AC-4 ■ at 400 V rated value ■ at 690 V rated value ● at 690 V rated value 3.5 kW Operating apparent power at AC-6a
— 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 4 • at 400 V rated value 2.5 kW • at 690 V rated value 3.5 kW operating apparent power at AC-6a
— 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 4 • at 400 V rated value 2.5 kW • at 690 V rated value 3.5 kW operating apparent power at AC-6a
- at 500 V rated value - at 690 V rated value 7.5 kW operating power for approx. 200000 operating cycles at AC- 4 • at 400 V rated value • at 690 V rated value 3.5 kW operating apparent power at AC-6a
- at 690 V rated value operating power for approx. 200000 operating cycles at AC- at 400 V rated value at 690 V rated value at 690 V rated value operating apparent power at AC-6a
operating power for approx. 200000 operating cycles at AC- • at 400 V rated value 2.5 kW • at 690 V rated value 3.5 kW operating apparent power at AC-6a
• at 690 V rated value 3.5 kW operating apparent power at AC-6a
operating apparent power at AC-6a
a up to 220 V for ourront peak value n=20 rated value
 up to 230 V for current peak value n=20 rated value 3.8 kVA
• up to 400 V for current peak value n=20 rated value 6.6 kVA
• up to 500 V for current peak value n=20 rated value 8.3 kVA
• up to 690 V for current peak value n=20 rated value 10.6 kVA
operating apparent power at AC-6a
• up to 230 V for current peak value n=30 rated value 2.5 kVA
• up to 400 V for current peak value n=30 rated value 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
• limited to 5 s switching at zero current maximum 169 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 10 s switching at zero current maximum 128 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 30 s switching at zero current maximum 92 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
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	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	125 V
operating range factor control supply voltage rated value of	
magnet coil at DC	
• initial value	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	00 400
• at DC	30 100 ms
opening delay • at DC	7 13 ms
arcing time	7 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	Otandard AT - AZ
number of NO contacts for auxiliary contacts instantaneous	1
contact	
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 valueat 110 V rated value	6 A 3 A
at 110 V rated value at 125 V rated value	2 A
at 220 V rated value	1A
at 600 V rated value	0.15 A
operational current at DC-13	6.1671
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]	
• for single-phase AC motor	Alm
— 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 — 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	
 — with type of coordination 1 required 	gG: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80kA)
<u> </u>	,

— 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
factoning mothed	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
height	58 mm
width	45 mm 73 mm
depth required spacing	73 111111
with side-by-side mounting— forwards	10 mm
— upwards	10 mm
— dpwards	10 mm
— at the side	0 mm
for grounded parts	O IIIIII
for grounded parts	10 mm
— lorwards — upwards	10 mm
— upwards — at the side	6 mm
— at the side — downwards	10 mm
	IV IIIIII
for live parts— forwards	10 mm
	10 mm
— upwards — downwards	10 mm
— downwards — at the side	10 mm 6 mm
Connections/ Terminals	0 111111
type of electrical connection	across have a harminal a
• for main current circuit	screw-type terminals
for auxiliary and control circuit	screw-type terminals
at contactor for auxiliary contacts	Screw-type terminals
of magnet coil	Screw-type terminals
type of connectable conductor cross-sections	
for main contacts	Ov. (0.5
— 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
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for AWG cables for main contacts	2x (20 16), 2x (18 14), 2x 12
connectable conductor cross-section for main contacts	0.5 42
• solid	0.5 4 mm ²
• stranded	0.5 4 mm ²
finely stranded with core end processing	0.5 2.5 mm²
connectable conductor cross-section for auxiliary contacts	0.5 4 mm²
solid or stranded finely stranded with case and processing.	0.5 4 mm ²
finely stranded with core end processing	0.5 2.5 mm ²
type of connectable conductor cross-sections	
for auxiliary contacts	0. (0.5. 4.5
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 2x 12
AWG number as coded connectable conductor cross section	
• for main contacts	20 12
for auxiliary contacts	20 12
Safety related data	
product function	
 mirror contact according to IEC 60947-4-1 	Yes; with 3RH29
 positively driven operation according to IEC 60947-5-1 	No
suitable for safety function	Yes
suitability for use safety-related switching OFF	Yes
service life maximum	20 a
test wear-related service life necessary	Yes

proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
 with high demand rate according to SN 31920 	73 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Approvals Certificates	

General Product Approval







Confirmation



<u>KC</u>

General Product Approval

EMV

Functional Saftey

Test Certificates

Marine / Shipping





Type Examination Cer**tificate**

Type Test Certificates/Test Report

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



Marine / Shipping











Miscellaneous

other

other

Dangerous goods

Environment

Confirmation

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

Railway

Transport Information



Environmental Confirmations

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=3RT2018-1BG41

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2018-1BG41

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-1BG41

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

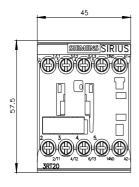
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2018-1BG41&lang=en

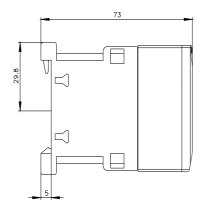
Characteristic: Tripping characteristics, I2t, Let-through current

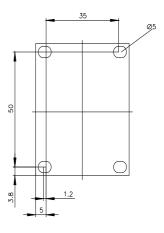
https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-1BG41/char

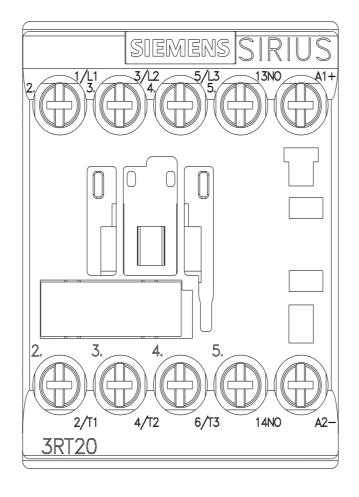
Further characteristics (e.g. electrical endurance, switching frequency)

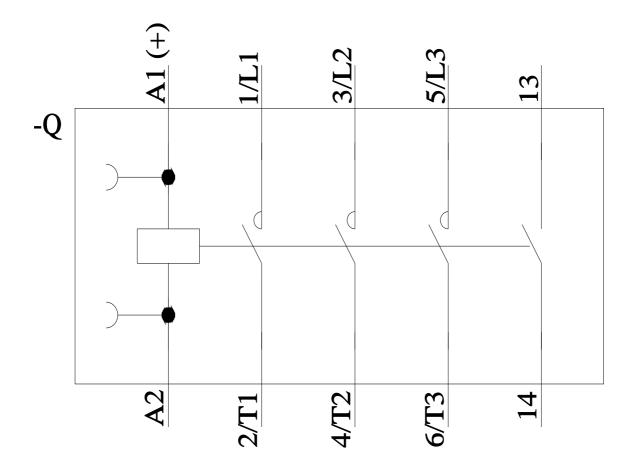
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2018-1BG41&objecttype=14&gridview=view1











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