SIEMENS

Data sheet 3RT2018-2AP61



power contactor, AC-3e/AC-3, 16 A, 7.5 kW / 400 V, 3-pole, 220 V AC, 50 Hz / 240 V, 60 Hz, auxiliary contacts: 1 NO, spring-loaded terminal, size: S00

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
eneral 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 	1.7 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 AC	7,3g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (operating cycles)	
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)	10/01/2009
Weight	0.261 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 Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] total	39.6 kg
Global Warming Potential [CO2 eq] during manufacturing	1.18 kg
Global Warming Potential [CO2 eq] during operation	38.5 kg
Global Warming Potential [CO2 eq] after end of life	-0.155 kg
Main circuit	,
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
 at AC-3 rated value maximum 	690 V
at AC-3e rated value maximum	690 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value at AC-1 	22 A
— up to 690 V at ambient temperature 40 °C rated value	22 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ 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	40.0
— at 400 V rated value	16 A
— at 500 V rated value	12.4 A
at 690 V rated valueat AC-4 at 400 V rated value	8.9 A 11.5 A
at AC-5a up to 690 V rated value	19.4 A
at AC-5b up to 400 V rated value	13.2 A
• at AC-6a	10.27
— 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
— up to 690 V for current peak value n=20 rated value	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 mm²
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	
— 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 3 current paths in series at DC-1	
— at 24 V rated value	20 A
— at 60 V rated value — at 60 V rated value	20 A
	20 A
— at 110 V rated value	
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1A
• 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	00.4
— 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	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-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	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-	
at 400 V rated value	2.5 kW
at 690 V rated value	3.5 kW
operating apparent power at AC-6a	
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 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 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 up to 400 V for current peak value n=30 rated value	4.4 kVA
up to 500 V for current peak value in=30 rated value 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 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 AC	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-3 maximum	750 1/h

* at AC-3e maximum / 50 th * at AC-3e maximum / 20 th * Control Centrol Centrol Centrol Supply voltage	a at AC 2a mayimum	750 4/h
	at AC-3e maximum	750 1/h
Upper of voltage of the centrel supply voltage AC		250 1/N
Control supply voltage at AC		
* a 16 Dit rated value		AC
### ### ### ### ### ### ### ### ### ##	,	
Operating range factor control supply voltage rated value of appared coil at 160 Hz	at 50 Hz rated value	220 V
magnet coll at AC	at 60 Hz rated value	240 V
apparent pick-up power of magnet coil at AC	● at 50 Hz	0.8 1.1
■ e160 Hz 36 VA 3	• at 60 Hz	0.8 1.1
• at 60 Hz	apparent pick-up power of magnet coil at AC	
Inductive power factor with closing power of the coil	• at 50 Hz	36 VA
• at 60 Hz	● at 60 Hz	36 VA
	inductive power factor with closing power of the coil	
apparent holding power of magnet coil at AC at 50 Hz 5.9 VA	• at 50 Hz	0.8
• at 50 Hz	• at 60 Hz	0.8
• at 50 Hz	apparent holding power of magnet coil at AC	
• at 80 Hz		5.9 VA
inductive power factor with the holding power of the coil at 50 Hz 0.24 at 50 Hz 0.24 closing delay 9 35 ms at AC 9 35 ms opening delay 1 15 ms arcing time 10 15 ms control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit 1 number of NO contacts for auxiliary contacts instantaneous contacts or auxiliary contacts instantaneous on a contact or auxiliary contact contact o		
• at 50 Hz 0.24 • at 60 Hz 0.24 closing delay • at AC 935 ms opening delay • at AC 415 ms arcing time 1015 ms control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit number of NO contacts for auxiliary contacts instantaneous contact contact number of NO contacts for auxiliary contacts instantaneous operational current at AC-12 maximum 10 A operational current at AC-15 • at 230 V rated value 10 A • at 500 V rated value 2A • at 500 V rated value 1A • at 80 V rated value 1A • at 84 V rated value 6A • at 110 V rated value 6A • at 110 V rated value 1A • at 110 V rated value 1A • at 122 V rated value 1A • at 122 V rated value 1A • at 122 V rated value 1A • at 124 V rated value 1A • at 125 V rated value 1A • at 125 V rated value 1A • at 127 V rated value 1A • at 128 V rated value 1A • at 127 V rated value 1A • at 128 V rated value 1A • at 129 V rated value 1A • at 129 V rated value 1A • at 120 V rated value 1A • at 127 V rated value 1A • at 128 V rated value 1A • at 129 V rated val		
• at 60 Hz closing delay • at AC opening delay • at AC 4 15 ms arcing time 10 15 ms control version of the switch operating mechanism Auxiliary circuit unumber of NO contacts for auxiliary contacts instantaneous contact contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 600 V rated value • at 600 V rated value • at 48 V rated value • at 48 V rated value • at 100 V rated value • at 600 V rated valu		0.24
e at AC 935 ms opening delay opening delay		
e at AC opening delay e at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact contact operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-15 e at 230 V rated value at 400 V rated value at 600 V rated value 1 A operational current at DC-12 e at 24 V rated value 1 A operational current at BC-12 e at 24 V rated value 1 A operational current at BC-12 e at 250 V rated value 1 A operational current at BC-12 e at 24 V rated value 1 A operational current at DC-12 e at 24 V rated value 1 A operational current at DC-12 e at 24 V rated value 1 A ot 100 V rated value 1 A ot 125 V rated value 1 A e at 110 V rated value 1 A e at 220 V rated value 1 A e at 220 V rated value 1 A e at 220 V rated value 1 A e at 48 V rated value 1 A e at 48 V rated value 1 A e at 24 V rated value 1 A e at 25 V rated value 1 A e at 25 V rated value 1 A e at 34 V rated value 1 A e at 48 V rated value 1 A e at 50 V rated value 1 A e a		
e at AC 415 ms arcing time 1015 ms Control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum 10 A operational current at DC-12 operational current at DC-12 ot 12 4 V rated value 1 A operational current at DC-12 ot 12 4 V rated value 6 A ot 125 V rated value 6 A ot 125 V rated value 1 A ot 125 V rated value 1 A ot 125 V rated value 1 A ot 126 V rated value 1 A ot 126 V rated value 1 A ot 127 V rated value 1 A ot 128 V rated value 1 A ot 127 V rated value 1 A ot 128 V rated value 1 A ot 127 V rated value 1 A ot 128 V rated value 1 A ot 127 V rated value 1 A ot 127 V rated value 1 A ot 128 V rated value 2 A ot 127 V rated value 2 A ot 127 V rated value 1 A ot 127 V rated value 2 A ot 127 V rated value 2 A ot 127 V rated value 2 A ot 128 V rated value 2 A ot 110 V rated value 2 A ot 110 V rated value 3 A ot 110 V rated value 3 A ot 110 V rated value 4 A ot 120 V rated value 5 A ot 120 V rated value 6 A ot 120 V rated value 9 A ot		9 35 ms
• at AC 4 15 ms control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit 15 ms number of NO contacts for auxiliary contacts instantaneous contact 1 operational current at AC-15 maximum 10 A • at 230 V rated value 3 A • at 400 V rated value 3 A • at 500 V rated value 1 A • at 690 V rated value 1 A • at 48 V rated value 6 A • at 48 V rated value 6 A • at 110 V rated value 3 A • at 125 V rated value 6 A • at 125 V rated value 2 A • at 120 V rated value 1 A • at 120 V rated value 2 A • at 220 V rated value 2 A • at 24 V rated value 0.15 A • operational current at DC-13 10 A • at 48 V rated value 2 A • at 48 V rated value 2 A • at 48 V rated value 2 A • at 10 V rated value 1 A • at 220 V rated value 0.3 A • at		
arcing time		4 15 ms
Control version of the switch operating mechanism Standard A1 - A2		
Auxiliary circuit number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum 10 A		
number of NO contacts for auxiliary contacts instantaneous contact		Control of the
Operational current at AC-12 maximum	number of NO contacts for auxiliary contacts instantaneous	1
operational current at AC-15		10 Δ
• at 230 V rated value	•	
	•	10 Δ
• 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 3 A • at 110 V rated value 2 A • at 25 V rated value 3 A • at 25 V rated value 1 A • at 80 V rated value 2 A • at 220 V rated value 1 A • at 600 V rated value 1 A • at 600 V rated value 1 A • at 600 V rated value 2 A • at 22 V rated value 10 A • at 48 V rated value 2 A • at 24 V rated value 2 A • at 25 V rated value 10 A • at 48 V rated value 2 A • at 26 V rated value 2 A • at 110 V rated value 2 A • at 110 V rated value 2 A • at 110 V rated value 3 A • at 600 V rated value 1 A • at 125 V rated value 1 A • at 125 V rated value 1 A • at 110 V rated value 1 A • at 120 V rated value 1 A • at 120 V rated value 1 A • at 480 V rated value 1 A • at 600 V rated value 1 A		
• at 690 V rated value 1 A operational current at DC-12 • at 24 V rated value 6 A • at 48 V rated value 6 A • at 60 V rated value 6 A • at 110 V rated value 2 A • at 125 V rated value 2 A • at 220 V rated value 1 A • at 600 V rated value 1 A • at 600 V rated value 2 A • at 220 V rated value 1 A • at 600 V rated value 1 A • at 600 V rated value 1 A • at 600 V rated value 1 A • at 25 V rated value 2 A • at 25 V rated value 10 A • at 26 V rated value 2 A • at 27 V rated value 2 A • at 48 V rated value 2 A • at 110 V rated value 1 A • at 125 V rated value 1 A • at 480 V rated value 1 A • at 480 V rated value 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		
operational current at DC-12 • at 24 V rated value		
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value ot 5 A Operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 60 V rated value at 10 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 200 V rated value at 3 A at 600 V rated value at 600 V rated value at 480 V rated value 		
 at 48 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 48 V rated value at 60 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 120 V rated value at 1600 V rated value at 600 V rated value at 480 V rated value 	·	10.0
 at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 80 V rated value at 60 V rated value at 60 V rated value at 60 V rated value at 10 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 7 I 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 at 600 V rated value 		
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value onts A 0.15 A operational current at DC-13 0.15 A at 24 V rated value 10 A at 80 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 14 A		
 at 125 V rated value 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 at 8 V rated value at 60 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 480 V rated value at 600 V rated value at 74 A at 600 V rated value at 600 V rated value at 600 V rated value at 74 A at 600 V rated value at 75 A at 75 A<!--</td--><td></td><td></td>		
• 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 11 A yielded mechanical performance [hp]		
operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value Contact reliability of auxiliary contacts 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 • at 600 V rated value 14 A yielded mechanical performance [hp]		
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 480 V rated value at 480 V rated value at 600 V rated value 		V.10 A
 at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 600 V rated value t 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 at 600 V rated value 14 A at 600 V rated value 11 A yielded mechanical performance [hp]	·	10 Λ
 at 60 V rated value at 110 V rated value 1 A at 125 V rated value 0.9 A at 220 V rated value 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 at 600 V rated value 14 A yielded mechanical performance [hp] 		
 at 110 V rated value 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 at 600 V rated value 14 A yielded mechanical performance [hp] 		
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at 220 V rated value 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 at 600 V rated value 14 A yielded mechanical performance [hp]		
at 600 V rated value 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 at 600 V rated value 11 A yielded mechanical performance [hp]		
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 • at 600 V rated value 11 A yielded mechanical performance [hp]		
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]		
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 11 A yielded mechanical performance [hp]		1 rauity switching per 100 million (17 V, 1 mA)
at 480 V rated value at 600 V rated value 11 A yielded mechanical performance [hp]		
• at 600 V rated value yielded mechanical performance [hp]		
yielded mechanical performance [hp]		
		11 A
• for single-phase AC motor		
	• for single-phase AC motor	

— 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 	
 — with type of coordination 1 required 	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
height	70 mm
width	45 mm
depth	73 mm
required spacing	
with side-by-side mounting	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
 for grounded parts 	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	spring-loaded terminals
 for auxiliary and control circuit 	spring-loaded terminals
 at contactor for auxiliary contacts 	Spring-type terminals
of magnet coil	Spring-type terminals
type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (0.5 4 mm²)
— solid or stranded	2x (0,5 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
• for AWG cables for main contacts	2x (20 12)
connectable conductor cross-section for main contacts	
• solid	0.5 4 mm²
• stranded	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm²
finely stranded without core end processing	0.5 2.5 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 4 mm²
finely stranded with core end processing	0.5 2.5 mm²
finely stranded without core end processing	0.5 2.5 mm ²
type of connectable conductor cross-sections	
for auxiliary contacts	

— solid or stranded	2x (0,5 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
for AWG cables for auxiliary contacts	2x (20 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	

General Product Approval







Confirmation



<u>KC</u>

General Product Approval

EMV

Functional Saftey

Test Certificates

Marine / Shipping





Type Examination Certificate Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping



Confirmation



Confirmation







Miscellaneous

other

other

Special Test Certificate

Railway



Environment

Environmental Confirmations

Further information

Information on the packaging

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

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2018-2AP61

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2018-2AP61

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-2

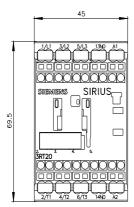
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2018-2AP61&lang=en

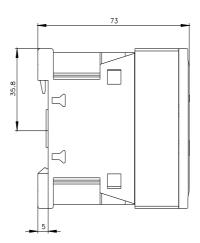
Characteristic: Tripping characteristics, I2t, Let-through current

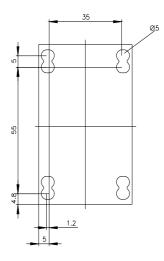
https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-2AP61/char

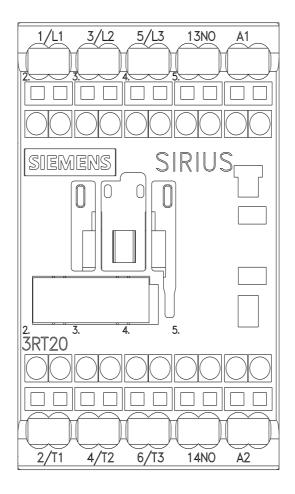
Further characteristics (e.g. electrical endurance, switching frequency)

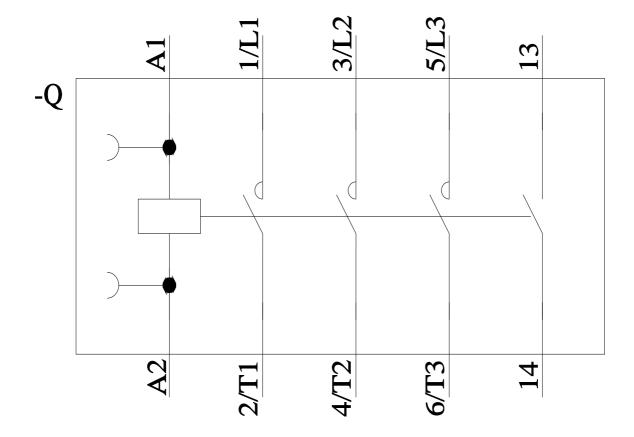
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2018-2AP61&objecttype=14&gridview=view1











last modified: 7/19/2024 🖸