SIEMENS

Data sheet

3RT2016-2AP61



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 220 V AC, 50 Hz / 240 V, 60 Hz, auxiliary contacts: 1 NO, spring-loaded terminal, size: S00

WYS TAKE AS	
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 	0.9 W
 at AC in hot operating state per pole 	0.3 W
 without load current share typical 	1.2 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	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	10,5g / 5 ms, 6,6g / 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	0.253 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	22 A
• at AC-1	60 A
— up to 690 V at ambient temperature 40 °C rated value	22 A 20 A
— up to 690 V at ambient temperature 60 °C rated value	20 A
• at AC-3 — at 400 V rated value	9 A
— at 500 V rated value — at 500 V rated value	9 A 7.7 A
— at 690 V rated value	6.7 A
• at AC-3e	
- at 400 V rated value	9 A
— at 500 V rated value	7.7 A
— at 690 V rated value	6.7 A
• at AC-4 at 400 V rated value	8.5 A
• at AC-5a up to 690 V rated value	19.4 A
• at AC-5b up to 400 V rated value	7.4 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	5.3 A
— up to 400 V for current peak value n=20 rated value	5.3 A
— up to 500 V for current peak value n=20 rated value	5.3 A
— up to 690 V for current peak value n=20 rated value	5 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	3.5 A
— up to 400 V for current peak value n=30 rated value	3.5 A
— up to 500 V for current peak value n=30 rated value	3.6 A
— up to 690 V for current peak value n=30 rated value	3.3 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm ²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	4.1 A
at 690 V rated value	3.3 A
operational current	
at 1 current path at DC-1	20.4
— at 24 V rated value — at 60 V rated value	20 A 20 A
— at 100 V rated value — at 110 V rated value	20 A 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	12 A 1.6 A
— at 220 V rated value — at 440 V rated value	

with 2 surrant action in carias at DC 4	
with 3 current paths in series at DC-1 — at 24 V rated value	20 A
— at 60 V rated value	20 A
	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	1 A
at 1 current path at DC-3 at DC-5	20 A
— at 24 V rated value	20 A
— at 60 V rated value — at 110 V rated value	0.5 A
	0.15 A
with 2 current paths in series at DC-3 at DC-5 at 24 V reted value	20 A
— at 24 V rated value	5 A
— at 60 V rated value	
— at 110 V rated value	0.35 A
with 3 current paths in series at DC-3 at DC-5 at 24 V reted value	20 A
— at 24 V rated value	20 A 20 A
— at 60 V rated value	
— at 110 V rated value	20 A 1.5 A
— at 220 V rated value	1.5 A 0.2 A
— at 440 V rated value	
- at 600 V rated value	0.2 A
• at AC-2 at 400 V rated value	4 kW
• at AC-3	4 KVV
 at AC-3 — at 230 V rated value 	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 KW
— at 690 V rated value	5.5 kW
• at AC-3e	5.5 KVV
- at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 kW
— at 600 V rated value	5.5 kW
operating power for approx. 200000 operating cycles at AC-	0.0 KW
4	
• at 400 V rated value	2 kW
• at 690 V rated value	2.5 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	2 kVA
 up to 400 V for current peak value n=20 rated value 	3.6 kVA
 up to 500 V for current peak value n=20 rated value 	4.6 kVA
 up to 690 V for current peak value n=20 rated value 	5.9 kVA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	1.3 kVA
 up to 400 V for current peak value n=30 rated value 	2.4 kVA
 up to 500 V for current peak value n=30 rated value 	3.1 kVA
 up to 690 V for current peak value n=30 rated value 	4 kVA
short-time withstand current in cold operating state up to 40 °C	
Imited to 1 s switching at zero current maximum	155 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 5 s switching at zero current maximum	111 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 10 s switching at zero current maximum	86 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 30 s switching at zero current maximum	66 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 60 s switching at zero current maximum	55 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	40.000 4/5
• at AC	10 000 1/h
operating frequency	1,000,1/b
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h 750 1/h
• at AC-3 maximum	750 1/h

a at AC 2a mavimum	750.4/b
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	AC
control supply voltage at AC	
• at 50 Hz rated value	220 V
at 60 Hz rated value	240 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	26.4 VA
• at 60 Hz	26.4 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.81
• at 60 Hz	0.81
apparent holding power of magnet coil at AC	
• at 50 Hz	4.4 VA
• at 60 Hz	4.4 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.24
• at 60 Hz	0.24
closing delay	
• at AC	9 35 ms
opening delay	
• at AC	4 15 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	1
contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	
operational current at AC-15 • at 230 V rated value	10 A
operational current at AC-15	3 A
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value	3 A 2 A
 operational current at AC-15 at 230 V rated value at 400 V rated value 	3 A
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12	3 A 2 A 1 A
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value	3 A 2 A
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value	3 A 2 A 1 A
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value	3 A 2 A 1 A 10 A
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value	3 A 2 A 1 A 10 A 6 A
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value	3 A 2 A 1 A 10 A 6 A 6 A
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value	3 A 2 A 1 A 10 A 6 A 6 A 3 A
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • 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	3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • 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	3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • 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	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A
operational current at AC-15 • 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 24 V rated value • at 48 V rated value • at 60 V rated value • at 24 V rated value • at 25 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A
operational current at AC-15 • 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 24 V rated value • at 48 V rated value • at 60 V rated value • at 24 V rated value • at 25 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 48 V rated value • at 48 V rated value • at 420 V rated value • at 420 V rated value • at 420 V rated value • at 48 V rated value • at 48 V rated value • at 24 V rated value • at 24 V rated value	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A
operational current at AC-15 • 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 24 V rated value • at 24 V rated value • at 60 V rated value • at 24 V rated value • at 250 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 26 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 2 A
operational current at AC-15 • 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 64 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 10 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 • at 24 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 600 V rated value • at 24 V rated value • at 24 V rated value • at 210 V rated value	3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A
operational current at AC-15 • 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 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 400 V rated value • at 24 V rated value • at 10 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 600 V rated value • at 24 V rated value • at 48 V rated value • at 410 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A
operational current at AC-15 • 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 24 V rated value • at 48 V rated value • at 60 V rated value • at 24 V rated value • at 48 V rated value • at 10 V rated value • at 125 V rated value • at 600 V rated value • at 210 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A
operational current at AC-15• 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 24 V rated value• at 24 V rated value• at 48 V rated value• at 60 V rated value• at 10 V rated value• at 125 V rated value• at 600 V rated value• at 220 V rated value• at 600 V rated value• at 24 V rated value• at 25 V rated value• at 200 V rated value• at 200 V rated value• at 210 V rated value• at 220 V rated value• at 24 V rated value• at 25 V rated value• at 260 V rated value• at 270 V rated value• at 280 V rated value• at 290 V rated value• at 48 V rated value• at 48 V rated value• at 48 V rated value• at 600 V rated value• at 100 V rated value• at 220 V rated value• at 220 V rated value• at 220 V rated value• at 600 V rated value• at 600 V rated value	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
operational current at AC-15• 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 690 V rated value• at 24 V rated value• at 24 V rated value• at 60 V rated value• at 10 V rated value• at 125 V rated value• at 220 V rated value• at 600 V rated value• at 24 V rated value• at 600 V rated value• at 24 V rated value• at 25 V rated value• at 24 V rated value• at 25 V rated value• at 260 V rated value• at 270 V rated value• at 28 V rated value• at 29 V rated value• at 20 V rated value• at 20 V rated value• at 20 V rated value• at 600 V rated value• at 600 V rated value• at 600 V rated value• at 110 V rated value• at 220 V rated value• at 600 V rated value <td>3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A</td>	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
operational current at AC-15 • 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 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 10 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 600 V rated value • at 24 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 25 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 220 V rated value • at 600 V rated value <td>3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A</td>	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
operational current at AC-15 • 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 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 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 25 V rated value • at 600 V rated value • at 20 V rated value • at 20 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 60 V rated value • at 125 V rated value • at 600 V rated value • at 125 V rated value • at 600 V rated value	3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
operational current at AC-15 • 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 24 V rated value • at 24 V rated value • at 48 V rated value • at 48 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 • at 24 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 60 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 • at 600 V rated value • at 600 V rated value • at 480 V rated value • at 480 V rated value • at 600 V rated value <td>3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.15 A 10 A 1 A 0.15 A 10 A 1 A 0.15 A 1.1 A 1.1 A 0.15 A 1.1 A 1.1</td>	3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.15 A 10 A 1 A 0.15 A 10 A 1 A 0.15 A 1.1 A 1.1 A 0.15 A 1.1
operational current at AC-15 • 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 24 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 10 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 48 V rated value • at 20 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 48 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 20 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value	3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.15 A 10 A 1 A 0.15 A 10 A 1 A 0.15 A 1.1 A 1.1 A 0.15 A 1.1

at 110/120 V/ rated value	0.22 hz
— at 110/120 V rated value — at 230 V rated value	0.33 hp 1 hp
	r np
for 3-phase AC motor at 200/208 V rated value	2 hz
- at 200/208 V rated value	2 hp
- at 220/230 V rated value	3 hp
- at 460/480 V rated value	5 hp
at 575/600 V rated value	7.5 hp
contact rating of auxiliary contacts according to UL Short-circuit protection	A600 / Q600
design of the fuse link	
5	
 for short-circuit protection of the main circuit with type of coordination 1 required 	C: 254 (600)/ 100(4) aM: 204 (600)/ 100(4) DS89: 254 (415)/ 80(4)
 with type of coordination 1 required with type of coordination 2 required 	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
— with type of assignment 2 required for short singuit protection of the quiviliant quitab required	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	1/ 400° relation negative on vertical mounting surfaces can be tilted forward and
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-toget 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 mm ²)
 — finely stranded with core end processing 	2x (0.5 2.5 mm ²)
 — finely stranded with core end processing — finely stranded without core end processing 	2x (0.5 2.5 mm ²)
for AWG cables for main contacts	2x (0.5 2.5 mm)) 2x (20 12)
connectable conductor cross-section for main contacts	
solid	0.5 4 mm²
stranded	0.5 4 mm ²
 finely stranded with core end processing 	0.5 4 mm 0.5 2.5 mm ²
	0.5 2.5 mm ²
finely stranded without core end processing connectable conductor cross-section for auxiliary contacts	0.0 2.0 mm
connectable conductor cross-section for auxiliary contacts	$0.5 4 \text{ mm}^2$
solid or stranded finally stranded with core and processing	0.5 4 mm ²
 finely stranded with core end processing finally stranded without core and processing 	0.5 2.5 mm ²
finely stranded without core end processing	0.5 2.5 mm ²
type of connectable conductor cross-sections	
 for auxiliary contacts 	

— solid or stra	nded		2x (0,5	4 mm²)		
- finely strand	— finely stranded with core end processing		2x (0.5 2.5 mm ²)			
-	led without core end proc	÷	2x (0.5 2.5 mm ²)			
-	or auxiliary contacts	5	2x (20			
	d connectable conduct	or cross				
 for main contacts 	i		20 12	2		
 for auxiliary containing 	acts		20 12			
Safety related data						
product function						
 mirror contact ac 	cording to IEC 60947-4-1		Yes; wi	ith 3RH29		
 positively driven 	operation according to IE	C 60947-5-1	No			
 suitable for safety 			Yes			
suitability for use safety			Yes			
service life maximum	rolatoù orritorinig orri		20 a			
test wear-related servi	ice life necessary		Yes			
proportion of dangero			100			
	rate according to SN 319	220	40 %			
	-					
•	d rate according to SN 31		73 %	200		
	emand rate according to		1 000 0			
failure rate [FIT] with I 31920	ow demand rate accord	ling to SN	100 FI1	1		
ISO 13849						
device type according	to ISO 13849-1		3			
overdimensioning acc	ording to ISO 13849-2 r	necessary	Yes			
IEC 61508						
safety device type acc	ording to IEC 61508-2		Туре А	1		
Electrical Safety						
protection class IP on	the front according to	IEC 60529	IP20			
touch protection on th	e front according to IE	C 60529	finger-s	safe, for vertical contac	t from the front	
Approvals Certificates						
General Product App	oval					
General Product App	roval					
General Product Appr	oval			ЦΚ	Ē	KC
General Product Appr		CE		UK	(Ψ	KC
General Product Appr		C E EG-Konf.		UK	ų,	KC
General Product Appr		CE EG-Konf.		UK CA	۹	KC
		CE EG-Konf.		UK CA	UL UL	KC
CCC		EG-Konf. Functional Saf	ftey	UK CA	۹	<u>KC</u> Marine / Shipping
	Confirmation	Functional Saf		CA Test Certificates	U.	
General Product Approval	Confirmation	Functional Saf		CA Test Certificates	UL UL Special Test Certific-	
General Product Approval	Confirmation	Functional Saf		CA Test Certificates	UL UL Special Test Certific- ate	
CCC	Confirmation	Functional Saf		CA Test Certificates		
General Product Approval	Confirmation	Functional Saf		CA Test Certificates		
General Product Approval	Confirmation	Functional Saf		CA Test Certificates		
General Product Approval	Confirmation	Functional Saf		CA Test Certificates		
General Product Approval	Confirmation	Functional Saf		CA Test Certificates		Marine / Shipping
General Product Approval	Confirmation	Functional Saf		CA Test Certificates		Marine / Shipping
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General Product Approval	Confirmation EMV EMV	Functional Saf		CA Test Certificates Type Test Certific- ates/Test Report		Marine / Shipping
General Product Approval	Confirmation EMV EMV EMV EMV Railway Special Test Certific-	Functional Saf		CA Test Certificates Type Test Certific- ates/Test Report		Marine / Shipping
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CCC General Product Approval CEREC Marine / Shipping Marine / Shipping	Confirmation EMV EMV EMV EMV Railway Special Test Certific-	Functional Saf		CA Test Certificates Type Test Certific- ates/Test Report		Marine / Shipping

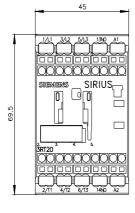
Further information

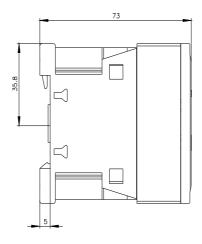
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/Catalog/product?mlfb=3RT2016-2AP61 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2016-2AP61 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-2AP61 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2016-2AP61&lang=en Characteristic: Tripping characteristics, I²t, Let-through current

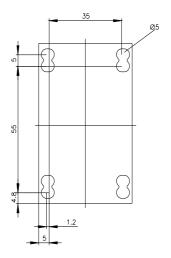
https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-2AP61/char

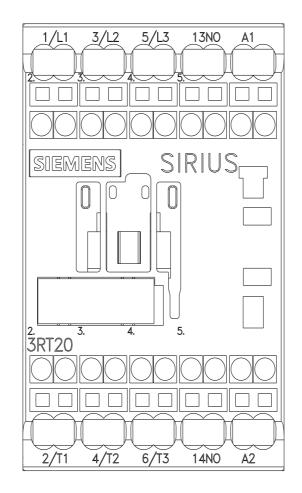
Further characteristics (e.g. electrical endurance, switching frequency)

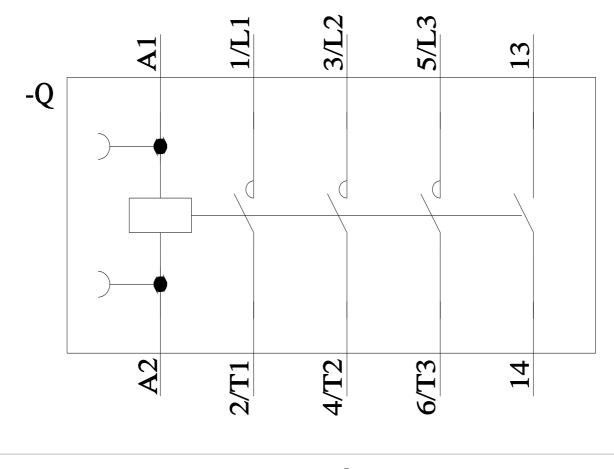
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2016-2AP61&objecttype=14&gridview=view1











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