## SIEMENS

## Data sheet

## 3RT2017-1AV02



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 400 V AC, 50/60 Hz, auxiliary contacts: 1 NC, screw terminal, size: S00

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
product extension	
<ul> <li>function module for communication</li> </ul>	No
<ul> <li>auxiliary switch</li> </ul>	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	1.5 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.5 W
<ul> <li>without load current share typical</li> </ul>	1.5 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 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)	
<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	0.24 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	
<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	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
- at 690 V rated value	6.7 A
at AC-4 at 400 V rated value	8.5 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>	9.9 A
• at AC-6a	5.5 A
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	7.2 A
— up to 400 V for current peak value n=20 rated value	7.2 A
— up to 500 V for current peak value n=20 rated value	7.2 A
— up to 690 V for current peak value n=20 rated value	6.7 A
● at AC-6a	
<ul> <li>— up to 230 V for current peak value n=30 rated value</li> </ul>	4.8 A
— up to 400 V for current peak value n=30 rated value	4.8 A
<ul> <li>— up to 500 V for current peak value n=30 rated value</li> </ul>	4.8 A
— up to 690 V for current peak value n=30 rated value	4.8 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	4.1 A
at 690 V rated value	3.3 A
operational current	
at 1 current path at DC-1     — at 24 V rated value	20 A
— at 60 V rated value	20 A 20 A
— at 100 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

a with 2 autrent notion in partice at DC 1	
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
— at 110 V rated value	20 A 20 A
— at 220 V rated value	20 A 20 A
— at 440 V rated value	1.3 A
	1.5 A
— at 600 V rated value	TA
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 10 V rated value	0.15 A
	0.15 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> <li>— at 24 V rated value</li> </ul>	20 A
— at 60 V rated value	5 A
	0.35 A
<ul> <li>— at 110 V rated value</li> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	0.55 A
- at 24 V rated value	20 A
— at 60 V rated value	20 A 20 A
— at 10 V rated value	20 A 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	V.2 A
at AC-2 at 400 V rated value	5.5 kW
• at AC-3	0.0 KW
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
• at AC-3e	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	2 kW
● at 690 V rated value	2.5 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	2.8 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	4.9 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	6.2 kVA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	8 kVA
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	1.9 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	3.3 kVA
• up to 500 V for current peak value n=30 rated value	4.1 kVA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	5.7 kVA
short-time withstand current in cold operating state up to 40 °C	
Imited to 1 s switching at zero current maximum	200 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 5 s switching at zero current maximum	123 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 10 s switching at zero current maximum	96 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 30 s switching at zero current maximum	74 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 60 s switching at zero current maximum	61 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	40,000 4/h
• at AC	10 000 1/h
operating frequency	1,000,1/b
• at AC-1 maximum	1 000 1/h
at AC-2 maximum     at AC-3 maximum	750 1/h 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	AC
control supply voltage at AC	
• at 50 Hz rated value	400 V
• at 60 Hz rated value	400 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	37 VA
• at 60 Hz	33 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	5.7 VA
• at 50 Hz	4.4 VA
inductive power factor with the holding power of the coil	0.05
• at 50 Hz	0.25
• at 60 Hz	0.25
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 NC contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
	10 A
operational current at AC-12 maximum	10 A 10 A
operational current at AC-12 maximum operational current at AC-15	
operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value	10 A
operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value	10 A 3 A
operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value	10 A 3 A 2 A
operational current at AC-12 maximum 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	10 A 3 A 2 A
operational current at AC-12 maximum 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	10 A 3 A 2 A 1 A
operational current at AC-12 maximum 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	10 A 3 A 2 A 1 A 10 A
operational current at AC-12 maximum 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	10 A 3 A 2 A 1 A 10 A 6 A 6 A
operational current at AC-12 maximum 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	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A
operational current at AC-12 maximum 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	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A
operational current at AC-12 maximum 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 10 V rated value • at 125 V rated value • at 220 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A
operational current at AC-12 maximum 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 40 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A
operational current at AC-12 maximum 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	10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A
operational current at AC-12 maximum 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 • at 600 V rated value • at 220 V rated value	10 A 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
operational current at AC-12 maximum 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 • at 600 V rated value	10 A 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-12 maximum 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 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 • at 24 V rated value • at 24 V rated value • at 600 V rated value • at 48 V rated value • at 24 V rated value • at 20 V rated value • at 600 V rated value • at 600 V rated value	10 A 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-12 maximum 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 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 • at 24 V rated value • at 24 V rated value • at 600 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 40 V rated value • at 40 V rated value • at 410 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 2 A 1 A 10 A 2 A 1 A 10 A 2 A 1 A 1 A
operational current at AC-12 maximum 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 600 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value	10 A 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 1 A 0.15 A
operational current at AC-12 maximum 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 600 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 20 V rated value	10 A 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 1 A 0.15 A
operational current at AC-12 maximum 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 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 24 V rated value • at 25 V rated value • at 220 V rated value • at 125 V rated value	10 A 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 1 A 0.15 A
operational current at AC-12 maximum 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 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 24 V rated value • at 25 V rated value • at 25 V rated value • at 600 V rated value • at 20 V rated value • at 600 V rated value • at 110 V rated value • at 600 V rated value	10 A 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 1 A 0.15 A
operational current at AC-12 maximum 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 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 24 V rated value • at 25 V rated value • at 220 V rated value • at 125 V rated value	10 A 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 1 A 0.15 A
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operational current at AC-12 maximum 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 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 24 V rated value • at 25 V rated value • at 20 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value	10 A 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 1 A 0.15 A
operational current at AC-12 maximum 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 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 24 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 125 V rated value • at 125 V rated value • at 120 V rated value • at 125 V rated	10 A 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 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 1 A 0.15 A 1 A 0.15 A 1 A 0.15 A
operational current at AC-12 maximum 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 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 220 V rated value • at 220 V rated value • at 220 V rated value • at 48 V rated value • at 60 V rated value • at 125 V rated value • at 60 V rated value • at 48 V rated value • at 60 V rated value • at 48 V rated value • at 480 V rated value • at 480 V rated value	10 A 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 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 11 A 1 faulty switching per 100 million (17 V, 1 mA)
operational current at AC-12 maximum 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 125 V rated value • at 220 V rated value • at 600 V rated value • at 125 V rated value • at 600 V rated value • at 125 V rated value • at 600 V rated value • at 480 V rated value • at 480 V rated value • at 480 V rated value • at 600 V rated value	10 A 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 1 A 0.15 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A 11 A 1 faulty switching per 100 million (17 V, 1 mA)

at 110/120 V rated value	0.5 km
— at 110/120 V rated value	0.5 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	3 hp
— at 460/480 V rated value	7.5 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	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	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
<ul> <li>for live parts</li> </ul>	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— 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
at contactor for auxiliary contacts	Screw-type terminals
• of magnet coil	Screw-type terminals
type of connectable conductor cross-sections	
for main contacts	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
— solid or stranded	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 mm²
• stranded	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
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 mm <sup>2</sup>
type of connectable conductor cross-sections	
for auxiliary contacts	

<ul> <li>e. e. AWG called so for auxiliary contacts</li> <li>2. (20 – 10, 2x (16 – 14), 2x 12</li> <li>WG multer a coorded connectable conductor cross</li> <li>e. auxiliary contacts</li> <li>20 – 12</li> <li>e. auxiliary contacts</li> <li>e</li></ul>		ded with core end process	sing	2x (0.5	5 1.5 mm²), 2x (0.75 . 5 1.5 mm²), 2x (0.75 . 9 16), 2x (18 14), 2x	2.5 mm²)	
<ul> <li>e for mais contracts</li> <li>box mais contracts</li> <li>contract function</li> <li>e subject functi</li></ul>	AWG number as code	-	or cross	2X (20	10 <i>), 2</i> X (10 14 <i>),</i> 2X	. 12	
error contact discuss     2012       Staty related dists     Product function       initial contact discussing to IEC 00947-61     No       isculated for safely function     Yes       issue ware related sortical for necessary     Yes       issue ware related according to SN 31920     73 %       100 1000     1000 100       failer rate [TTW the were demand that according to SN 31920     1000 100       100 1000     1000 100       100 1000     1000 100       100 1000     1000 100       100 1000     1000 100       100 1000     1000 100       100 1000     1000 100       100 1000     1000 100       100 1000     1000 100       100 1000     1000 100       100 1000 1000     1000 100       100 1000 1000 100     1000 100       100 1000 1000 1000 100     1000 100       100 1000 1000 1000 1000 100     1000 100       100 1000 1000 1000 1000 100		;		20 1	12		
Settley related data         product function         • entroc contral according to EC 60947-4-1       Yes         • satisfiely driven operation according to EC 60947-5-1       No         • satisfiely driven operation according to EC 60947-5-1       Yes         • satisfiely driven operation according to EC 60947-5-1       Yes         • satisfiely driven operation according to EC 60947-5-1       Yes         • satisfiely driven operation according to SN 19500       49 %         • with how demand rate according to SN 19500       49 %         • with how demand rate according to SN 19500       1000 000         failure rate [FT] with low demand rate according to SN 19500       1000 000         failure rate [FT] with low demand rate according to SN 19500       100 000         failure rate [FT] with low demand rate according to SN 19500       100 000         failure rate [FT] with low demand rate according to SN 19500       100 000         failure rate [FT] with low demand rate according to EC 60529       If per A         Benchal Staffy       general Product Approval       Trace Certificates         Approval Certificates       If per A       Entrol Staffy         Benchal Certificates       If the Certificates       Marine / Shipping         Marine / Shipping       If the Certificates       Special Test Certificates							
product function  • minor contact function  • utable for safety function  2 0 a  1 est war-related service life necessary  2 0 a  2 est war-related service life necessary  2 0 a  2 est war-related service life necessary  2 0 a  2 est war-related service life necessary  2 0 a  2 est war-related service life necessary  2 es  2 estity device type according to IEC 6150-2  2 Es of 530  2 estity device type according to IEC 6150-2  2 Es of 530  2 estity device type according to IEC 6150-2  2							
entrore constat according to EC 60947-5-1     Yes       subality for use safely-related witching OFF     Yes       subality for use safely-related witching OFF     Yes       encrice He magnetized service He macroscript to SN 31920     40 %       entrol Mill box demard rate according to SN 31920     73 %       B10 value with high demand rate according to SN 31920     1000 000       failure for High product Approximation according to SN 31920     1000 000       failure for High product Approximation according to SN 31920     1000 000       failure for High product Approximation according to EC 6188-2     Type A       Experimentation according to EC 6188-2     Type A							
e		cording to IEC 60947-4-1		Yes			
subscription     Service life maximum     20 a       service life maximum     20 a       rest war-related service life necessary     Yes       proprior of dangerous failures     0 9 %       • with high demand rate according to SN 31920     73 %       SD 3380     73 %       device type according to SD 31920     100 DOD       proprior rate FFTI with low demand rate according to SN 31920     100 DOD       solution with high demand rate according to SN 31920     100 DOD       general Rescuencing to ISO 13849-1     3       coverdimensioning according to ISO 13849-2 necessary     Yes       EEC 61000     safety device type according to ISC 6198-2     Type A       Eeneral Safety     rescuencing to ISC 6198-2     Type A       Eeneral Safety     rescuencing to ISC 60829     Inger-safe, for vertical contact from the front       Zordinations Cording to ISC 6198-2     Inger-safe, for vertical contact from the front       Restrict Reprose     Inger-safe, for vertical contact from the front       Zordinations     Eenire     Inger-safe, for vertical contact from the front       Confirmation     Eenire     Inger-safe, for vertical contact from the front       Confirmation     Eenire     Inger-safe, for vertical contact from the front       Confirmation     Eenire     Inger-safe, for vertical contact       Forever     Eenire		0	C 60947-5-1	No			
subscription     Service life maximum     20 a       service life maximum     20 a       rest war-related service life necessary     Yes       proprior of dangerous failures     0 9 %       • with high demand rate according to SN 31920     73 %       SD 3380     73 %       device type according to SD 31920     100 DOD       proprior rate FFTI with low demand rate according to SN 31920     100 DOD       solution with high demand rate according to SN 31920     100 DOD       general Rescuencing to ISO 13849-1     3       coverdimensioning according to ISO 13849-2 necessary     Yes       EEC 61000     safety device type according to ISC 6198-2     Type A       Eeneral Safety     rescuencing to ISC 6198-2     Type A       Eeneral Safety     rescuencing to ISC 60829     Inger-safe, for vertical contact from the front       Zordinations Cording to ISC 6198-2     Inger-safe, for vertical contact from the front       Restrict Reprose     Inger-safe, for vertical contact from the front       Zordinations     Eenire     Inger-safe, for vertical contact from the front       Confirmation     Eenire     Inger-safe, for vertical contact from the front       Confirmation     Eenire     Inger-safe, for vertical contact from the front       Confirmation     Eenire     Inger-safe, for vertical contact       Forever     Eenire				Yes			
service life machamin       20 a         test wear-related service life necessary       Yes         proportion of dangerous failures       40 %         • with high demand rate according to SN 31920       73 %         Bit Value with high demand rate according to SN 31920       1000 D00         SO 13940				Yes			
proportion of dangerous failures     40 %       • with high demand rate according to SN 31920     73 %       B10 value with high demand rate according to SN 31920     1000 000       B10 value with high demand rate according to SN 31920     1000 FTT       B10 value with high demand rate according to SN 31920     1000 FTT       B10 value with high demand rate according to SN 31920     1000 FTT       B10 value with high demand rate according to SN 31920     1000 FTT       B10 value with high demand rate according to SN 31920     1000 FTT       B10 value with high demand rate according to SN 31920     1000 FTT       B10 value with high demand rate according to IEC 61092     1000 FTT       B10 value with high demand rate according to IEC 61092     179 M       B10 value with high demand rate according to IEC 60529     179 M       S0 13849     feer type according to IEC 61092     179 M       B10 value for the fort according to IEC 60529     179 M       Fordertion class IP on the fort according to IEC 60529     179 M       Fordertion class IP on the fort according to IEC 60529     1700       General Product Approval     Env     Scontrastion       Env     Test Certificates     Marine / Shipping       Morine / Shipping     other     Scontrastion       Image: Size Size Size Size Size Size Size Size				20 a			
proportion of dangerous failures     40 %       • with high demand rate according to SN 31920     73 %       BI value with high demand rate according to SN 31920     1000 000       Failure rate FTTT with low demand rate according to SN 31920     1000 FTT       SO 13840     3       device type according to ISO 13849-1     3       overdimensioning according to ISO 13849-2 necessary     Yes       EC 61508     rescue with high demand rate according to IEC 61509-2       rescue according to IEC 61509-2     IP20       rescue according to IEC 61509-2     IP20       rescue according to IEC 61509-2     IP20       rescue als Saley     rescue according to IEC 60529       protection class IP on the front according to IEC 60529     IP20       touch protection class IP on the front according to IEC 60529     IP20       touch protection aclass IP on the front according to IEC 60529     IP20       touch protection aclass IP on the front according to IEC 60529     IP20       touch protection aclass IP on the front according to IEC 60529     Integer-sale, for vertical contact from the front       Approvals Cordination     EC 60529     Integer-sale, for vertical contact from the front       Confirmation     Envir     Test Certificates     Marine / Shipping       Marine / Shipping     Integer-sale     Integer-sale     Integer-sale       totter     Eavine	test wear-related servi	ice life necessary		Yes			
<ul> <li>e. with low demand rate according to SN 31920</li> <li>73 %</li> <li>Bf to value with high demand rate according to SN 31920</li> <li>1000 000</li> <li>failure rate [FT] with low demand rate according to SN 31920</li> <li>100 FT</li> <li>3320</li> <li>100 FT</li> <li>100</li></ul>							
• with high demand rate according to SN 31920       73 %         B10 value with high demand rate according to SN 31920       1000 000         SN 13849       0000         device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         EC6 1600       Type A         Bettra tal EF[The The Forth according to IEC 60529       Type A         Protection class IP on the front according to IEC 60529       IP20         Touch protection on the front according to IEC 60529       Inger-safe, for vertical contact from the front         Approvals Certificates       Toes Continuation         General Product Approval       Ent/         Entre Size Forther       Inger-safe, for vertical contact from the front         For Certificates       Test Certificates         Marino / Shipping       Ent/         Marino / Shipping       Inger-Test Certificates         Marino / Shipping       Special Test Certificate         Size       Special Test Certificates         Size			20	40 %			
B1 0 value with high demand rate according to SN 31920       1 000 000         failur rate [FT] with low demand rate according to SN       100 FT         ISO 13849       3         device type according to ISO 13849-2 necessary       Yes         IEC 6 1500       astryt device type according to ISO 13849-2 necessary       Yes         IEC 6 1500       astryt device type according to IEC 61508-2       Type A         IEEd claid Safety       protection class Pon the front according to IEC 60529       IP20         protection class Pon the front according to IEC 60529       IP20         couch protection on the front according to IEC 60529       IP20         couch protection on the front according to IEC 60529       IP20         formeral Product Approval       Iffer Cartificates         General Product Approval       Iffer Cartificates         Iffer Cartificates		-		73 %			
Filture rate (FT) with low demand rate according to SN     100 FTT       1820     13849       device type according to ISO 13849-1     3       overdinensioning according to ISO 13849-2 necessary     Yes       EG 61508     safety dovice type according to IEC 61508-2     Type A       Electrical Stafety     moderside (Soccording to IEC 60529     IP20       protection cases IP on the front according to IEC 60529     IP20       Tocch protection on the front according to IEC 60529     IP20       Tocch protection on the front according to IEC 60529     IP20       Confirmation     EMV     Confirmation       Approvals     Confirmation     KC       Confirmation     EMV     Test Cortificates       Marine / Shipping     Confirmation       Marine / Shipping     other       Marine / Shipping     other       Confirmation     Special Test Contificates       Marine / Shipping     other       List     Special Test Contificates       Marine / Shipping     other       <				1 000	000		
device type according to ISO 13849-1       3         overdimensioning according to ISO 13849-2 necessary       Yes         EC 61500       For example of the form according to ISO 13849-2 necessary       Propertion of the form according to ISO 60529         Electrical Safety       IP20       Touch protection of the form according to IEC 60529       IP20         Touch protection on the front according to IEC 60529       Inger-safe, for vertical contact from the front       Marine / Shipping         Approvala Certificates       EMV       Test Certificates       Marine / Shipping         General Product Ap- proval       EMV       Test Certificates       Marine / Shipping         Image: Second Test Certification of the form according to IEC 60529       Special Test Certificates       Special Test Certificates         Marine / Shipping       Image: Second Test Certificates       Special Test Certificates       Special Test Certificates         Marine / Shipping       Image: Special Test Certificates       Special Test Certificates       Special Test Certificates         Image: Special Test Second	failure rate [FIT] with I	•					
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       IP20         Confirmation       General Product Approval       EC         Effect       Env       Env         General Product Approval       Env       Env         Effect       Env       Test Certificates         General Product Approval       Env       Test Certificates         Marine / Shipping       Env       Test Certificates according to EC 60529         Marine / Shipping       Env       Test Certificates according to EC 60529         Marine / Shipping       Env       Test Certificates according to EC 60529         Env       Env       Test Certificates according to EC 60529         Marine / Shipping       Env       Env         Env	ISO 13849						
IEC 61508       Safety device type according to IEC 61508-2       Type A         Protection class IP on the front according to IEC 60529       IP20         totich protection on the front according to IEC 60529       Inger-safe, for vertical contact from the front         Approval       Confirmation       Confirmation         General Product Approval       Confirmation       Confirmation         EWV       Test Cortificates       Marine / Shipping         Marine / Shipping       Ifyoe Test Cortificates       Social Test Cortificates         Marine / Shipping       Ifyoe Test Cortificates       Ifyoe Test Cortificates         Marine / Shipping       Ifyoe Test Cortificates       Ifyoe Test Cortificates         Marine / Shipping       Ifyoe Test Cortificates       Ifyoe Test Cortificates         Marine / Shipping       Ifyoe Test Cortificates       Ifyoe Test Cortificates         Ifyoe Test Cortificates       Ifyoe Test Cortificates       Ifyoe Test Cortificates         Ifyoe Test Cortificates       Ifyoe Test Cortificates       Ifyoe Test Cortificates       Ifyoe Test Cortificates         Ifyoe Test Cortificates       Ifyoe Test Cortificates       Ifyoe Test Cortificates       Ifyoe Test Cortificates       Ifyoe Test Cortificates         Ifyoe Test Cortificates       Ifyoe Test Cortificates       Ifyoe Test Cortificates       Ifyoe Test Cortifi	device type according	to ISO 13849-1		3			
Electrical Safety       IP20         protection class IP on the front according to IEC 60523       Ingersafe, for vertical contact from the front         Approvals Certificates       General Product Approval       EC         General Product Approval       EMV       Test Certificates       Marine / Shipping         General Product Approval       EMV       Test Certificates       Marine / Shipping         General Product Approval       EMV       Test Certificates       Marine / Shipping         Marine / Shipping       EMV       Test Certificates       Special Test Certificates       Special Test Certificates         Marine / Shipping       Emproval       Emproval       Emproval       Special Test Certificates       Special Test Certificates         Marine / Shipping       Emproval       Emproval       Emproval       Special Test Certificates       Special Test Certificates         Marine / Shipping       Emproval       Emproval       Emproval       Emproval       Miscellaneous         Marine / Shipping       Emproval       Emproval       Emproval       Emproval       Miscellaneous         Marine / Shipping       Emproval       Emproval       Emproval       Emproval       Miscellaneous         Emproval       Emproval       Emproval       Emproval       Emproval		cording to ISO 13849-2 n	ecessary	Yes			
Inger-safe, for vertical contact from the front         Approvals Certificates         General Product Approval         Confirmation         Special Test Certific: ate         Open: Colspan="4">Confirmation         Marine / Shipping         Open: Colspan="4">Confirmation         Open: Colspan="4">Colspan= 4         Open: Colspan= 4         Confirmation         Special Test Certific: ate		cording to IEC 61508-2		Туре А	Ą		
Approvals Certificates         General Product Apporal       Confirmation       Effect       Image: Confirmation       KC         General Product Apporal       EMV       Test Certificates       Marine / Shipping       KC         General Product Apporal       EMV       Test Certificates       Marine / Shipping       Image: Certificates       Marine / Shipping       Image: Certificates       <	protection class IP on	the front according to I	EC 60529	IP20			
General Product Approval       Confirmation       Confirmation       KC         General Product Approval       EMV       Test Certificates       Marine / Shipping       KC         General Product Approval       EMV       Test Certificates       Marine / Shipping       Image: Confirmation of the state of	touch protection on th	e front according to IEC	C 60529	finger-	-safe, for vertical contact	t from the front	
Image: Confirmation of the second of the	Approvals Certificates						
Image: Constraint of the sector of the se	General Product App	roval					
proval       Env       rest Certificates       Special Test Certificate       Special Test Certific							
Image: Height with the second secon	CCC	UK CA	<u>Confirmatio</u>	<u>חנ</u>	CE EG-Konf.		<u>KC</u>
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ate firmations Further information	proval ERIC Marine / Shipping	EMV EMV RCM	Test Certificate	es tific-	Special Test Certific-		<b>VERITAS</b>
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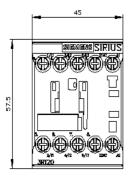
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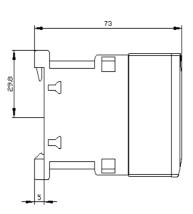
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2017-1AV02&lang=en

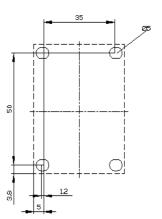
Characteristic: Tripping characteristics, I2t, Let-through current

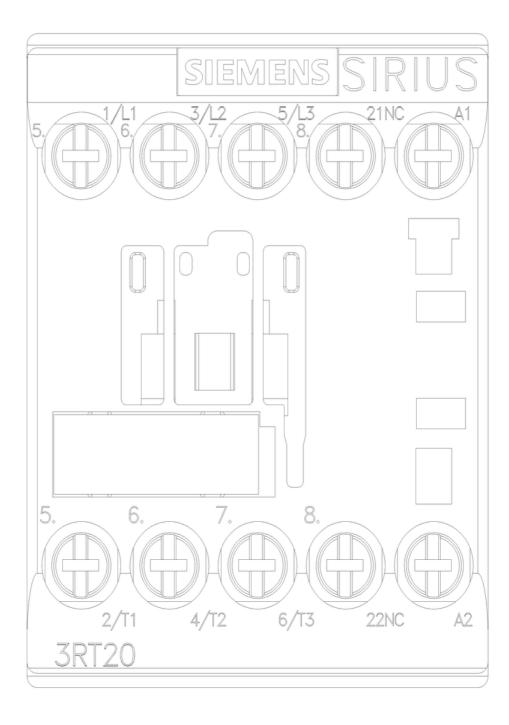
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-1AV02/char Further characteristics (e.g. electrical endurance, switching frequency)

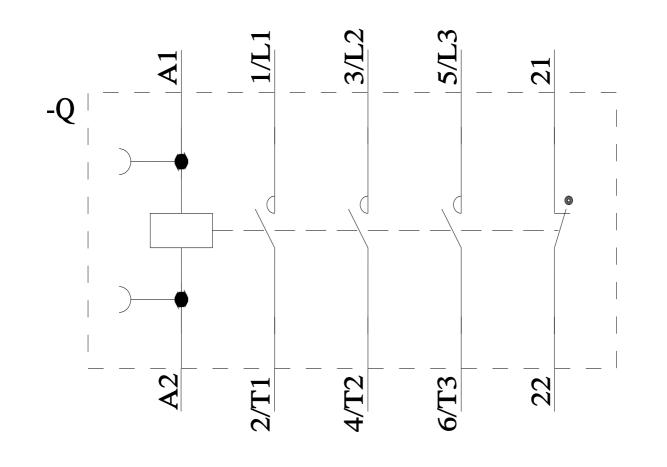
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