SIEMENS

Data sheet

3RT2016-2GG22



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 110 V AC, 50/60 Hz, with integrated full-wave rectifier, auxiliary contacts: 1 NC, spring-loaded terminal, size: S00

product brand name	SIRIUS				
product designation	Power contactor				
product type designation	3RT2				
General technical data	51112				
size of contactor	200				
	S00				
product extension					
function module for communication	No				
auxiliary switch	Yes				
power loss [W] for rated value of the current	0.014				
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	4.2 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)					
SVHC substance name	Lead - 7439-92-1				
Weight	0.33 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	95 %				

maximum				
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 a at AC 1	22 A			
 at AC-1 — up to 690 V at ambient temperature 40 °C rated 	22 A			
— up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated	22 A 20 A			
value				
• at AC-3				
— 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-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	534			
 — up to 230 V for current peak value n=20 rated value — up to 400 V for current peak value n=20 rated value 	5.3 A 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				
— 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 24 V rated value — at 60 V rated value	20 A 20 A			
— at 10 V rated value	20 A 12 A			
— at 220 V rated value	1.6 A			
— at 440 V rated value	0.8 A			
	0.0 A			

— at 600 V rated value	0.7 A				
• with 3 current paths in series at DC-1					
— at 24 V rated value	20 A				
— at 60 V rated value	20 A				
— at 110 V rated value	20 A				
— 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					
— 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					
— 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	4.194				
• at AC-2 at 400 V rated value	4 kW				
• at AC-3	0.0.1444				
— 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	2.2.144				
— at 230 V rated value — at 400 V rated value	2.2 kW				
— at 500 V rated value	4 kW				
— at 600 V rated value	4 kW 5.5 kW				
operating power for approx. 200000 operating cycles at AC-	5.5 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 1 s switching at zero current maximum	111 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 0 s switching at zero current maximum 	111 A; Use minimum cross-section acc. to AC-1 rated value 86 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 30 s switching at zero current maximum 	66 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 60 s switching at zero current maximum 	55 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-3e maximum	750 1/h				
• at AC-3e maximum	750 1/h 250 1/h				
Control circuit/ Control	200 1/11				
type of voltage of the control supply voltage	AC				
control supply voltage at AC					
	110.1/				
 at 50 Hz rated value at 60 Hz rated value 	110 V 110 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				
design of the surge suppressor	full-wave rectifier				
apparent pick-up power of magnet coil at AC					
• at 50 Hz	5.71 VA				
• at 60 Hz	5.71 VA				
inductive power factor with closing power of the coil					
• at 50 Hz	0.9				
• at 60 Hz	0.9				
apparent holding power of magnet coil at AC					
• at 50 Hz	5.71 VA				
• at 60 Hz	5.71 VA				
inductive power factor with the holding power of the coil					
• at 50 Hz	0.9				
• at 60 Hz	0.9				
closing delay					
• at AC	30 100 ms				
opening delay					
• at AC	38 65 ms				
arcing time	10 15 ms				
control version of the switch operating mechanism	Standard A1 - A2				
Auxiliary circuit					
	1				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous	1 10 A				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact					
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum					
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	10 A				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value	10 A 10 A				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value	10 A 10 A 3 A				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 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 10 A 3 A 2 A				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 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 10 A 3 A 2 A				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 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	10 A 10 A 3 A 2 A 1 A				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 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	10 A 10 A 3 A 2 A 1 A 10 A				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 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 24 V rated value • at 24 V rated value • at 48 V rated value	10 A 10 A 3 A 2 A 1 A 10 A 6 A				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 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 424 V rated value • at 48 V rated value • at 48 V rated value	10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 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 24 V rated value • at 48 V rated value • at 60 V rated value • at 410 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value	10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 500 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 40 V rated value • at 24 V rated value • at 250 V rated value • at 24 V rated value • at 25 V rated value • at 110 V rated value • at 125 V rated value	10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 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 24 V rated value • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value	10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 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 24 V rated value • at 48 V rated value • at 400 V rated value • at 24 V rated value • at 25 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value	10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 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 48 V rated value • at 48 V rated value • at 48 V rated value • at 10 V rated value • at 220 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 600 V rated value	10 A 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				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 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 24 V rated value • at 48 V rated value • at 60 V rated value • at 25 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value	10 A 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				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 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 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 24 V rated value • at 125 V rated value • at 24 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value	10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 60 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 220 V rated value • at 24 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 48 V rated value • at 60 V rated value	10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 10 A 6 A 10 1				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 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 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 24 V rated value at 24 V rated value at 60 V rated value at 110 V rated value at 600 V rated value at 24 V rated value at 24 V rated value at 600 V rated value at 600 V rated value at 100 V rated value at 24 V rated value at 48 V rated value at 100 V rated value at 110 V rated value at 125 V rated value	10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 2 A 1 A 10 A 2 A 1 A 0.15 A				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 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 60 V rated value at 110 V rated value at 220 V rated value at 220 V rated value at 24 V rated value at 24 V rated value at 10 V rated value at 24 V rated value at 24 V rated value at 400 V rated value at 110 V rated value at 600 V rated value at 24 V rated value at 25 V rated value at 125 V rated value	10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 2 A 1 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 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 600 V rated value • at 24 V rated value • at 10 V rated value • at 220 V rated value • at 110 V rated value • at 220 V rated value • at 24 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 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 25 V rated value • at 20 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value	10 A 10 A 3 A 2 A 1 A 10 A 6 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 0.15 A 10 A 0.15 A				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 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 60 V rated value • at 24 V rated value • at 24 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 110 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 220 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 26 V vated value • at 27 V rated value • at 28 V rated value • at 220 V rated value	10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 2 A 1 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 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 600 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 60 V rated value • at 600 V rated value	10 A 10 A 3 A 2 A 1 A 10 A 6 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 3 A 2 A 1 A 10 A 0.15 A 10 A 0.3 A 0.1 A				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 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 48 V rated value • at 690 V rated value • at 600 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 220 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 60 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value <td>10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 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 2 A 1 A 10 A</td>	10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 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 2 A 1 A 10 A				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 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 600 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 600 V rated value	10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 2 A 1 A 10 A 2 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A				

yielded mechanical performance [hp]					
for single-phase AC motor					
— at 110/120 V rated value	0.33 hp				
— at 230 V rated value	1 hp				
 for 3-phase AC motor 					
— 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	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: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)				
 — with type of assignment 2 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					
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 mm ²)				
 finely stranded with core end processing 	$2x (0.5 2.5 \text{ mm}^2)$ $2x (0.5 2.5 \text{ mm}^2)$				
 — finely stranded without core end processing 	2x (0.5 2.5 mm ²)				
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 mm ²				
 finely stranded with core end processing 	0.5 4 mm² 0.5 2.5 mm²				
 finely stranded with core end processing finely stranded without core end processing 	0.5 2.5 mm ²				
connectable conductor cross-section for auxiliary contacts					
solid or stranded	0.5 4 mm ²				
 finely stranded with core end processing 	0.5 4 mm ² 0.5 2.5 mm ²				
 finely stranded without core end processing 	0.5 2.5 mm ²				

type of connectable co	onductor cross-sections	5					
 for auxiliary contain 	icts						
— solid or stra	– solid or stranded			,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 (0.5 2.5 mm) / 2x (20 12)					
AWG number as code	d connectable conducto	or cross					
 for main contacts 			20	12			
 for auxiliary containing 	icts		20	12			
Safety related data							
product function							
mirror contact according to IEC 60947-4-1		Yes					
	operation according to IE(C 60947-5-1	No				
 suitable for safety 			Yes				
suitability for use safety-			Yes				
service life maximum			20 a				
test wear-related servi	co lifo nocossary		Yes				
proportion of dangero			165				
		20	40 %				
	rate according to SN 319						
	I rate according to SN 31		73 %				
	emand rate according to ow demand rate accord		1 000 100 F				
ISO 13849							
device type according	to ISO 13849-1		3				
	ording to ISO 13849-2 n	ecessary	Yes				
IEC 61508		ecessary	103				
safety device type acc	ording to IEC 61508-2		Type	Δ			
Electrical Safety			Туре А				
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 Appr	oval						
CE EG-Konf.	UK CA			<u>Confirmation</u>		<u>KC</u>	
General Product Ap- proval	EMV	Functional Saftey		Test Certificates		Marine / Shipping	
EHC	RCM	Type Examination Cer- tificate		Type Test Certific- ates/Test Report	Special Test Certific- ate	ABS	
Marine / Shipping						other	
BUREAU VERITAS		PRS		RINA	RMRS RMRS	<u>Miscellaneous</u>	
other	Railway	Dangerous goo	ods	Environment			
Confirmation	<u>Special Test Certific-</u> <u>ate</u>	Transport Inform	<u>nation</u>		Environmental Con- firmations		

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=3RT2016-2GG22

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2016-2GG22

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-2GG22

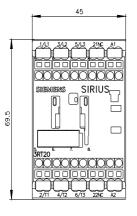
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

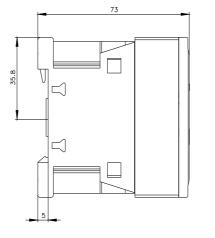
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2016-2GG22&lang=en

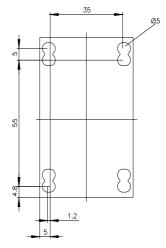
Characteristic: Tripping characteristics, I²t, Let-through current

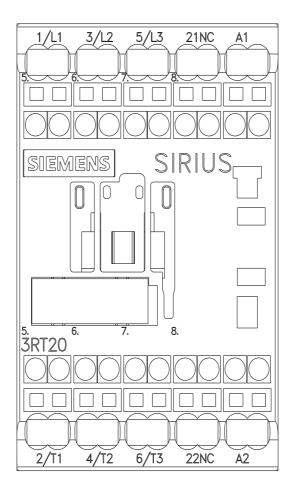
https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-2GG22/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2016-2GG22&objecttype=14&gridview=view1









last modified:

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