SIEMENS

Data sheet

3RT2038-3AG20



power contactor, AC-3e/AC-3, 80 A, 37 kW / 400 V, 3-pole, 110 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal, size: S2

6/13	
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
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 	17.1 W
 at AC in hot operating state per pole 	5.7 W
 without load current share typical 	6.5 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	11.8g / 5 ms, 7.4g / 10 ms
shock resistance with sine pulse	
• at AC	18.5g / 5 ms, 11.6g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2014
Weight	0.987 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	236 kg
global warming potential [CO2 eq] during manufacturing	4.11 kg
global warming potential [CO2 eq] during operation	233 kg
global warming potential [CO2 eq] after end of life	-0.635 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	90 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	90 A
— up to 690 V at ambient temperature 60 °C rated value	80 A
• at AC-3	
— at 400 V rated value	80 A
— at 500 V rated value	80 A
- at 690 V rated value	58 A
• at AC-3e	20 A
— at 400 V rated value	80 A 80 A
— at 500 V rated value — at 690 V rated value	58 A
 at 690 v rated value at AC-4 at 400 V rated value 	55 A
at AC-5a up to 690 V rated value	79.2 A
 at AC-5b up to 400 V rated value 	66.4 A
• at AC-6a	00.171
— up to 230 V for current peak value n=20 rated value	70 A
— up to 400 V for current peak value n=20 rated value	70 A
	70 A
— up to 690 V for current peak value n=20 rated value	58 A
● at AC-6a	
— up to 230 V for current peak value n=30 rated value	46.7 A
— up to 400 V for current peak value n=30 rated value	46.7 A
 — up to 500 V for current peak value n=30 rated value 	46.7 A
— up to 690 V for current peak value n=30 rated value	46.7 A
minimum cross-section in main circuit at maximum AC-1 rated value	35 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	30 A
• at 690 V rated value	24 A
operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	55 A
— at 60 V rated value	23 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
• with 2 current paths in series at DC-1	55 A
- at 24 V rated value	55 A
- at 60 V rated value	45 A
— at 110 V rated value	45 A
- at 220 V rated value	5 A
- at 440 V rated value	1A
— at 600 V rated value	0.8 A

• with 3 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
at 1 current path at DC-3 at DC-5	
— at 24 V rated value	35 A
— at 60 V rated value	6 A
— at 220 V rated value	1 A
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
• with 2 current paths in series at DC-3 at DC-5	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	25 A
— at 220 V rated value	5 A 0.27 A
— at 440 V rated value — at 600 V rated value	0.27 A 0.16 A
	V. IV A
 with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 	55 A
at 24 V rated value at 60 V rated value	55 A
— at 100 V rated value — at 110 V rated value	55 A
— at 220 V rated value	25 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.35 A
operating power	
at AC-2 at 400 V rated value	37 kW
• at AC-3	
— at 230 V rated value	22 kW
— at 400 V rated value	37 kW
— at 500 V rated value	37 kW
— at 690 V rated value	45 kW
• at AC-3e	
— at 230 V rated value	22 kW
— at 400 V rated value	37 kW
— at 500 V rated value	37 kW
— at 690 V rated value	45 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	15.8 kW
• at 690 V rated value	21.8 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	27.8 kVA
 up to 400 V for current peak value n=20 rated value 	48.4 kVA
 up to 500 V for current peak value n=20 rated value 	60.6 kVA
 up to 690 V for current peak value n=20 rated value 	69.3 kVA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	18.6 kVA
 up to 400 V for current peak value n=30 rated value 	32.3 kVA
• up to 500 V for current peak value n=30 rated value	40.4 kVA
• up to 690 V for current peak value n=30 rated value	55.8 kVA
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	1 298 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	898 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	640 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	414 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	333 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	

• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	700 1/h
• at AC-2 maximum	350 1/h
• at AC-3 maximum	500 1/h
• at AC-3e maximum	500 1/h
• at AC-4 maximum	150 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	110 V
• at 60 Hz rated value	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
apparent pick-up power of magnet coil at AC	
• at 50 Hz	210 VA
• at 60 Hz	188 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.69
• at 60 Hz	0.65
apparent holding power of magnet coil at AC	
• at 50 Hz	17.2 VA
• at 60 Hz	16.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.36
• at 60 Hz	0.39
closing delay	
	10 80 ms
• at AC	10 00 1115
opening delay	
• at AC	10 18 ms
opening delay • at AC arcing time	10 18 ms 10 20 ms
opening delay • at AC arcing time control version of the switch operating mechanism	10 18 ms
opening delay • at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous	10 18 ms 10 20 ms
opening delay • at AC arcing time control version of the switch operating mechanism Auxiliary circuit	10 18 ms 10 20 ms Standard A1 - A2
opening delay at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous number of NO contacts for auxiliary contacts instantaneous number of NO contacts for auxiliary contacts instantaneous	10 18 ms 10 20 ms Standard A1 - A2 1
opening delay at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact	10 18 ms 10 20 ms Standard A1 - A2 1 1
opening delay at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-12 maximum	10 18 ms 10 20 ms Standard A1 - A2 1 1
opening delay at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 	10 18 ms 10 20 ms Standard A1 - A2 1 1 1 10 A
opening delay at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value	10 18 ms 10 20 ms Standard A1 - A2 1 1 10 A 10 A
opening delay at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO 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 18 ms 10 20 ms Standard A1 - A2 1 1 1 10 A 10 A 3 A
opening delay at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO 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 18 ms 10 20 ms Standard A1 - A2 1 1 1 10 A 10 A 10 A 3 A 2 A
opening delay at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO 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	10 18 ms 10 20 ms Standard A1 - A2 1 1 1 10 A 10 A 10 A 3 A 2 A
opening delay at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO 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 	10 18 ms 10 20 ms Standard A1 - A2 1 1 1 10 A 10 A 3 A 2 A 1 A
opening delay at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO 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 690 V rated value at 24 V rated value 	10 18 ms 10 20 ms Standard A1 - A2 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A
opening delay at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO 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 18 ms 10 20 ms Standard A1 - A2 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A
opening delay at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 e at 230 V rated value e at 400 V rated value e at 500 V rated value e at 690 V rated value e at 48 V rated value e at 48 V rated value e at 60 V rated value	10 18 ms 10 20 ms Standard A1 - A2 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A
opening delay at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO 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 44 V rated value at 48 V rated value at 48 V rated value at 60 V rated value at 410 V rated value at 410 V rated value	10 18 ms 10 20 ms Standard A1 - A2 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A
opening delay at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 e at 230 V rated value at 400 V rated value e at 500 V rated value e at 690 V rated value e at 48 V rated value e at 110 V rated value e at 125 V rated value	10 18 ms 10 20 ms Standard A1 - A2 1 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A
opening delay at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO 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 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 24 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 18 ms 10 20 ms Standard A1 - A2 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A
opening delay at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO 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 48 V rated value at 48 V rated value at 400 V rated value at 400 V rated value at 20 V rated value at 20 V rated value at 20 V rated value at 48 V rated value at 10 V rated value at 110 V rated value at 220 V rated value at 220 V rated value at 600 V rated value	10 18 ms 10 20 ms Standard A1 - A2 1 1 1 10 A 10 A 10 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 1
opening delay at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 690 V rated value at 690 V rated value at 48 V rated value at 48 V rated value at 10 V rated value at 10 V rated value at 220 V rated value at 24 V rated value at 60 V rated value at 60 V rated value at 220 V rated value at 24 V rated value at 24 V rated value	10 18 ms 10 20 ms Standard A1 - A2 1 1 1 10 A 10 A 10 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10
opening delay • at ACarcing timecontrol version of the switch operating mechanismAuxiliary circuitnumber of NC contacts for auxiliary contacts instantaneous contactnumber of NO contacts for auxiliary contacts instantaneous contactoperational current at AC-12 maximumoperational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated valueat 690 V rated value • at 690 V rated valueat 24 V rated value • at 48 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 24 V rated value • at 48 V rated value	10 18 ms 10 20 ms Standard A1 - A2 1 1 1 1 10 A 10 A 10 A 2 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10
opening delay at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO 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 400 V rated value • at 690 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 24 V rated value • at 24 V rated value • at 100 V rated value • at 125 V rated value • at 220 V rated value • at 48 V rated value </td <td>10 18 ms 10 20 ms Standard A1 - A2 1 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 1</td>	10 18 ms 10 20 ms Standard A1 - A2 1 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 1
opening delay at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO 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 690 V rated value at 48 V rated value at 410 V rated value at 42 V rated value at 42 V rated value at 42 V rated value at 430 V rated value at 44 V rated value at 450 V rated value at 42 V rated value at 42 V rated value at 43 V rated value at 10 V rated value at 220 V rated value at 600 V rated value at 220 V rated value at 48 V rated value at 48 V rated value at 600 V rated value at 48 V rated value <td>10 18 ms 10 20 ms Standard A1 - A2 1 1 1 1 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A</td>	10 18 ms 10 20 ms Standard A1 - A2 1 1 1 1 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A
opening delay at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO 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 400 V rated value • at 690 V rated value • at 210 V rated value • at 220 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 48 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 48 V rated value • at 48 V rated value • at 400 V rated value • at 220 V rated value • at 48 V rated value • at 48 V rated value • at 400 V rated value	10 18 ms 10 20 ms Standard A1 - A2 1 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A
opening delay at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO 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 690 V rated value • at 48 V rated value • at 40 V rated value • at 40 V rated value • at 24 V rated value • at 25 V rated value • at 10 V rated value • at 220 V rated value • at 48 V rated value • at 48 V rated value • at 600 V rated value • at 48 V rated value • at 24 V rated value • at 600 V rated value • at 48 V rated value <td>10 18 ms 10 20 ms Standard A1 - A2 1 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A</td>	10 18 ms 10 20 ms Standard A1 - A2 1 1 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A

contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	65 A
at 600 V rated value	62 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	5 hp
— at 230 V rated value	15 hp
• for 3-phase AC motor	
– at 200/208 V rated value	20 hp
— at 220/230 V rated value	25 hp
— at 460/480 V rated value	50 hp
— at 575/600 V rated value	60 hp
contact rating of auxiliary contacts according to UL	A600 / P600
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	
 for short-circuit protection of the main circuit 	
- with type of coordination 1 required	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)
 — with type of assignment 2 required for short-circuit protection of the auxiliary switch required 	gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA) 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	114 mm
width	55 mm
depth	130 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	10
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
for live parts forwards	10 mm
— forwards	10 mm 10 mm
— upwards	
— downwards	10 mm
— at the side Connections/ Terminals	6 mm
type of electrical connection for main current circuit 	screw-type terminals
for auxiliary and control circuit	screw-type terminals
-	spring-loaded terminals
 at contactor for auxiliary contacts of magnet coil 	Spring-type terminals Spring-type terminals
type of connectable conductor cross-sections	
for main contacts	
— solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)
 — finely stranded with core end processing 	2x (1 35 mm²), 1x (1 35 mm²)
for AWG cables for main contacts	2x (18 2), 1x (18 1)
connectable conductor cross-section for main contacts	
finely stranded with core end processing	1 35 mm²

solid or stranded	ection for auxiliary conta				
	-		. 2.5 mm²		
 finally strandad with care on 	d processing		. 1.5 mm²		
 finely stranded with core en finely stranded without core 			. 1.5 mm²		
finely stranded without core		0.5	. 2.5 ጠጠ-		
type of connectable conductor	cross-sections				
for auxiliary contacts					
— solid or stranded			.5 2.5 mm²)		
 finely stranded with co 			.5 1.5 mm²)		
 finely stranded withou 			.5 2.5 mm²)		
 for AWG cables for auxiliary 	-	2x (20	0 14)		
AWG number as coded connect section	table conductor cross				
for main contacts		18	1		
for auxiliary contacts		20			
•		20	14		
afety related data		_	_	_	_
product function					
mirror contact according to		Yes			
 positively driven operation a 	according to IEC 60947-5-				
 suitable for safety function 		Yes			
suitability for use safety-related sv	vitching OFF	Yes			
service life maximum		20 a			
test wear-related service life ne	cessary	Yes			
proportion of dangerous failure	s				
 with low demand rate accor 	rding to SN 31920	40 %			
 with high demand rate according 	ording to SN 31920	73 %			
B10 value with high demand rat	e according to SN 31920	1 000	000		
failure rate [FIT] with low demar 31920	nd rate according to SN	100 F	ΊΤ		
ISO 13849					
	849-1	3			
device type according to ISO 13					
device type according to ISO 13 overdimensioning according to		Yes			
		Yes			
overdimensioning according to IEC 61508 safety device type according to	ISO 13849-2 necessary	Yes	A		
overdimensioning according to IEC 61508 safety device type according to Electrical Safety	ISO 13849-2 necessary IEC 61508-2	Туре	A		
overdimensioning according to IEC 61508 safety device type according to Electrical Safety protection class IP on the front	ISO 13849-2 necessary IEC 61508-2 according to IEC 60529	Type IP20		form the feed	
overdimensioning according to IEC 61508 safety device type according to Electrical Safety protection class IP on the front touch protection on the front ac	ISO 13849-2 necessary IEC 61508-2 according to IEC 60529	Type IP20	A -safe, for vertical contact	from the front	
overdimensioning according to IEC 61508 safety device type according to Electrical Safety protection class IP on the front touch protection on the front ac approvals Certificates	ISO 13849-2 necessary IEC 61508-2 according to IEC 60529	Type IP20		from the front	
overdimensioning according to IEC 61508 safety device type according to Electrical Safety protection class IP on the front touch protection on the front ac	ISO 13849-2 necessary IEC 61508-2 according to IEC 60529	Type IP20		from the front	
overdimensioning according to IEC 61508 safety device type according to Electrical Safety protection class IP on the front touch protection on the front ac approvals Certificates	ISO 13849-2 necessary IEC 61508-2 according to IEC 60529 coording to IEC 60529	Type IP20 finger	-safe, for vertical contact	from the front	KC
overdimensioning according to IEC 61508 safety device type according to Electrical Safety protection class IP on the front touch protection on the front ac approvals Certificates	ISO 13849-2 necessary IEC 61508-2 according to IEC 60529 coording to IEC 60529	Type IP20 finger		from the front	KC
overdimensioning according to IEC 61508 safety device type according to Electrical Safety protection class IP on the front touch protection on the front ac approvals Certificates	ISO 13849-2 necessary IEC 61508-2 according to IEC 60529 coording to IEC 60529	Type IP20 finger	-safe, for vertical contact	from the front	KC
overdimensioning according to IEC 61508 safety device type according to Electrical Safety protection class IP on the front touch protection on the front ac pprovals Certificates General Product Approval	ISO 13849-2 necessary IEC 61508-2 according to IEC 60529 coording to IEC 60529	Type IP20	-safe, for vertical contact	from the front	KC
overdimensioning according to IEC 61508 safety device type according to Electrical Safety protection class IP on the front touch protection on the front ac pprovals Certificates General Product Approval	ISO 13849-2 necessary IEC 61508-2 according to IEC 60529 coording to IEC 60529	Type IP20 finger	-safe, for vertical contact	from the front	KC
overdimensioning according to IEC 61508 safety device type according to Electrical Safety protection class IP on the front touch protection on the front ac pprovals Certificates General Product Approval	ISO 13849-2 necessary IEC 61508-2 according to IEC 60529 coording to IEC 60529	Type IP20 finger	-safe, for vertical contact	from the front	KC
overdimensioning according to IEC 61508 safety device type according to Electrical Safety protection class IP on the front touch protection on the front ac pprovals Certificates General Product Approval	ISO 13849-2 necessary IEC 61508-2 according to IEC 60529 ccording to IEC 60529	Type IP20 finger	-safe, for vertical contact	U L	KC
overdimensioning according to IEC 61508 safety device type according to Electrical Safety protection class IP on the front touch protection on the front ac opprovals Certificates General Product Approval	ISO 13849-2 necessary IEC 61508-2 according to IEC 60529 ccording to IEC 60529	Type IP20 finger	-safe, for vertical contact	from the front	KC
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overdimensioning according to IEC 61508 safety device type according to Electrical Safety protection class IP on the front touch protection on the front ac opprovals Certificates General Product Approval General Product Ap- proval EMV	ISO 13849-2 necessary IEC 61508-2 according to IEC 60529 cording to IEC 60529	Type IP20 finger	-safe, for vertical contact Confirmation	U L	KC
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Environmental Confirmations

Further information

Information on the packaging

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

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2038-3AG20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2038-3AG20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2038-3AG20

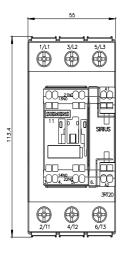
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

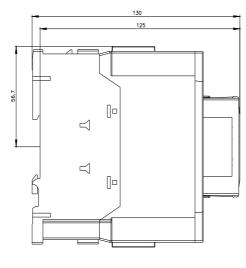
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2038-3AG20&lang=en

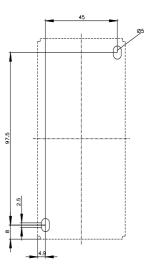
Characteristic: Tripping characteristics, I²t, Let-through current

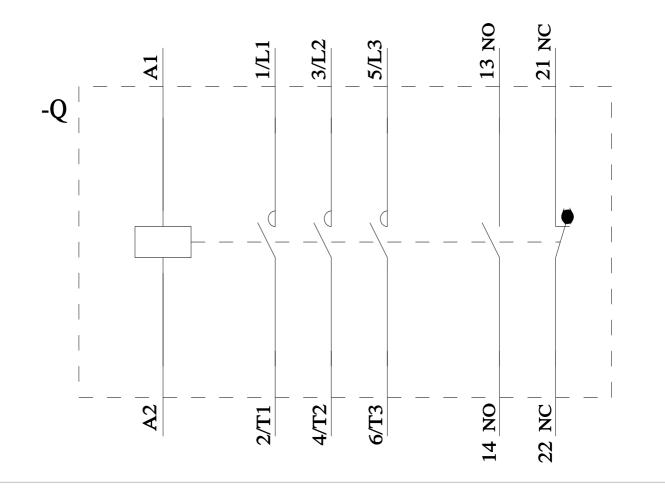
https://support.industry.siemens.com/cs/ww/en/ps/3RT2038-3AG20/char Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2038-3AG20&objecttype=14&gridview=view1









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