## SIEMENS

## Data sheet

## 3RT2047-1AP00-1AA0



power contactor, AC-3e/AC-3, 110 A, 55 kW / 400 V, 3-pole, 230 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S3, upright mounting position

20				
product brand name	SIRIUS			
product designation	Power contactor			
product type designation	3RT2			
General technical data				
size of contactor	\$3			
product extension				
<ul> <li>function module for communication</li> </ul>	No			
auxiliary switch	Yes			
power loss [W] for rated value of the current				
<ul> <li>at AC in hot operating state</li> </ul>	23.7 W			
<ul> <li>at AC in hot operating state per pole</li> </ul>	7.9 W			
<ul> <li>without load current share typical</li> </ul>	7.3 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>	1 000 V			
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V			
surge voltage resistance				
of main circuit rated value	8 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	690 V			
shock resistance at rectangular impulse				
• at AC	10.3g / 5 ms, 6,.g / 10 ms			
shock resistance with sine pulse				
• at AC	16.3g / 5 ms, 10.g / 10 ms			
mechanical service life (operating cycles)				
<ul> <li>of contactor typical</li> </ul>	10 000 000			
<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)	03/01/2017			
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	405 kg
Global Warming Potential [CO2 eq] total Global Warming Potential [CO2 eq] during manufacturing	405 kg 7.66 kg
Global Warming Potential [CO2 eq] during operation Global Warming Potential [CO2 eq] after end of life	399 kg
Main circuit	-1.19 kg
	3
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	1 000 \/
at AC-3 rated value maximum	1 000 V
at AC-3e rated value maximum	1 000 V
<ul> <li>operational current</li> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	130 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	130 A
— up to 690 V at ambient temperature 60 °C rated value	110 A
• at AC-3	
— at 400 V rated value	110 A
— at 500 V rated value	110 A
— at 690 V rated value	98 A
— at 1000 V rated value	30 A
• at AC-3e	
- at 400 V rated value	110 A
— at 500 V rated value	110 A
— at 690 V rated value	98 A
— at 1000 V rated value	30 A
• at AC-4 at 400 V rated value	97 A
• at AC-5a up to 690 V rated value	120 A
• at AC-5b up to 400 V rated value	110 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	98 A
— up to 400 V for current peak value n=20 rated value	98 A
<ul> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>	98 A
— up to 690 V for current peak value n=20 rated value	98 A
● at AC-6a	
<ul> <li>— up to 230 V for current peak value n=30 rated value</li> </ul>	65.3 A
<ul> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>	65.3 A
<ul> <li>— up to 500 V for current peak value n=30 rated value</li> </ul>	65.3 A
— up to 690 V for current peak value n=30 rated value	65.3 A
minimum cross-section in main circuit at maximum AC-1 rated value	50 mm²
operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value	
	46 A
• at 690 V rated value     operational current	36 A
• at 1 current path at DC-1	
• at 1 current path at DC-1 — at 24 V rated value	100 A
— at 24 V rated value — at 60 V rated value	60 A
— at 110 V rated value	9 A
— at 220 V rated value	2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A 0.4 A
with 2 current paths in series at DC-1	V.T.A.
with 2 current paths in series at DC-1     — at 24 V rated value	100 A
	100 A
- at 60 V rated value	
- at 110 V rated value	100 A
- at 220 V rated value	10 A
— at 440 V rated value	1.8 A

— at 600 V rated value	1 A				
• with 3 current paths in series at DC-1	400 A				
— at 24 V rated value	100 A				
- at 60 V rated value	100 A				
— at 110 V rated value	100 A 80 A				
— at 220 V rated value — at 440 V rated value	80 A 4 5 A				
— at 600 V rated value	4.5 A 2.6 A				
• at 1 current path at DC-3 at DC-5	2.0 A				
- at 24 V rated value	40 A				
— at 60 V rated value	6 A				
— at 110 V rated value	2.5 A				
— at 220 V rated value	1A				
— at 440 V rated value	0.15 A				
— at 600 V rated value	0.06 A				
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>					
— at 24 V rated value	100 A				
— at 60 V rated value	100 A				
— at 110 V rated value	100 A				
— at 220 V rated value	7 A				
— at 440 V rated value	0.42 A				
— at 600 V rated value	0.16 A				
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>					
— at 24 V rated value	100 A				
— at 60 V rated value	100 A				
— at 110 V rated value	100 A				
— at 220 V rated value	35 A				
— at 440 V rated value	0.8 A				
— at 600 V rated value	0.35 A				
operating power					
• at AC-2 at 400 V rated value	55 kW				
• at AC-3					
— at 230 V rated value	30 kW				
— at 400 V rated value	55 kW				
— at 500 V rated value	75 kW				
— at 690 V rated value	90 kW				
<ul> <li>— at 1000 V rated value</li> <li>• at AC-3e</li> </ul>	37 kW				
- at 230 V rated value	30 kW				
— at 400 V rated value	55 kW				
— at 500 V rated value	75 kW				
— at 690 V rated value	90 kW				
— at 1000 V rated value	37 kW				
operating power for approx. 200000 operating cycles at AC-					
4					
• at 400 V rated value	24.3 kW				
• at 690 V rated value	32.9 kW				
operating apparent power at AC-6a					
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	39 kVA				
• up to 400 V for current peak value n=20 rated value	67 kVA				
• up to 500 V for current peak value n=20 rated value	84 kVA				
• up to 690 V for current peak value n=20 rated value	117 kVA				
operating apparent power at AC-6a					
• up to 230 V for current peak value n=30 rated value	26 kVA				
up to 400 V for current peak value n=30 rated value     up to 500 V for current peak value n=30 rated value	45.2 kVA				
<ul> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	56.5 kVA 78 kVA				
short-time withstand current in cold operating state up to					
40 °C					
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	1 960 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	1 502 A; Use minimum cross-section acc. to AC-1 rated value				

<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	1 095 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	707 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	562 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	900 1/h				
• at AC-2 maximum	350 1/h				
• at AC-3 maximum					
	850 1/h 850 1/h				
• at AC-3e maximum	850 1/h				
• at AC-4 maximum	200 1/h				
Control circuit/ Control					
type of voltage of the control supply voltage	AC				
control supply voltage at AC					
● at 50 Hz rated value	230 V				
operating range factor control supply voltage rated value of					
magnet coil at AC					
• at 50 Hz	0.8 1.1				
apparent pick-up power of magnet coil at AC					
● at 50 Hz	296 VA				
inductive power factor with closing power of the coil					
• at 50 Hz	0.61				
apparent holding power of magnet coil at AC					
• at 50 Hz	19 VA				
inductive power factor with the holding power of the coil					
• at 50 Hz	0.38				
closing delay					
• at AC	13 50 ms				
opening delay					
• at AC	10 21 ms				
	10 21 ms				
arcing time control version of the switch operating mechanism	Standard A1 - A2				
Auxiliary circuit					
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous	1				
Auxiliary circuit					
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous	1				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact	1				
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	1				
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	1 1 10 A				
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	1 1 10 A 6 A 3 A				
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	1 1 10 A 6 A 3 A 2 A				
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	1 1 10 A 6 A 3 A				
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	1 1 10 A 6 A 3 A 2 A 1 A				
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	1 1 10 A 6 A 3 A 2 A 1 A 10 A				
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	1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A				
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 424 V rated value         • at 48 V rated value         • at 48 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A				
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 60 V rated value         • at 24 V rated value         • at 48 V rated value         • at 60 V rated value         • at 48 V rated value         • at 60 V rated value         • at 110 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 3 A				
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 24 V rated value         • at 60 V rated value         • at 110 V rated value         • at 125 V rated value	1 1 10 A 6 A 3 A 2 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A				
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 640 V rated value         • at 60 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	1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 10 A 10 A 10 A 10 A 10 A				
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 24 V rated value         • at 24 V rated value         • at 48 V rated value         • at 400 V rated value         • at 24 V rated value         • at 25 V rated value         • at 20 V rated value         • at 24 V rated value         • at 25 V rated value         • at 125 V rated value         • at 220 V rated value         • at 600 V rated value	1 1 10 A 6 A 3 A 2 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A				
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 48 V rated value         • at 48 V rated value         • at 48 V rated value         • at 400 V rated value         • at 220 V rated value         • at 125 V rated value         • at 600 V rated value         • at 125 V rated value         • at 220 V rated value         • at 600 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A				
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 24 V rated value         • at 24 V rated value         • at 48 V rated value         • at 400 V rated value         • at 24 V rated value         • at 25 V rated value         • at 20 V rated value         • at 24 V rated value         • at 25 V rated value         • at 125 V rated value         • at 220 V rated value         • at 600 V rated value	1 1 10 A 6 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         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 48 V rated value         • at 48 V rated value         • at 48 V rated value         • at 400 V rated value         • at 220 V rated value         • at 125 V rated value         • at 600 V rated value         • at 125 V rated value         • at 220 V rated value         • at 600 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A				
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 400 V rated value         • at 48 V rated value         • at 400 V rated value         • at 500 V rated value         • at 24 V rated value         • at 25 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 24 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 1				
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 600 V rated value         • at 60 V rated value         • at 60 V rated value         • at 60 V rated value         • at 24 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 600 V rated value         • at 24 V rated value         • at 48 V rated value	1 1 10 A 6 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				
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 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 24 V rated value         • at 25 V rated value         • at 220 V rated value         • at 24 V rated value         • at 48 V rated value         • at 60 V rated value	1 1 10 A 6 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				
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 48 V rated value         • at 10 V rated value         • at 220 V rated value         • at 24 V rated value         • at 600 V rated value         • at 600 V rated value         • at 220 V rated value         • at 600 V rated value         • at 600 V rated value         • at 24 V rated value         • at 600 V rated value         • at 60 V rated value         • at 48 V rated value         • at 60 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A				
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 48 V rated value         • at 48 V rated value         • at 48 V rated value         • at 400 V rated value         • at 500 V rated value         • at 48 V rated value         • at 48 V rated value         • at 48 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 220 V rated value         • at 600 V rated value         • at 10 V rated value         • at 24 V rated value         • at 48 V rated value         • at 400 V rated value         • at 100 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 1				
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         at 110 V rated value         at 220 V rated value         at 24 V rated value         at 25 V rated value         at 24 V rated value         at 220 V rated value         at 24 V rated value         at 25 V rated value         at 24 V rated value         at 25 V rated value         at 125 V rated value         at 125 V rated value         at 125 V rated value         at 220 V rated value <tr< td=""><td>1         1         10 A         6 A         3 A         2 A         1 A         10 A         6 A         3 A         2 A         1 A         10 A         6 A         6 A         1 A         10 A         2 A         1 A         0.15 A</td></tr<>	1         1         10 A         6 A         3 A         2 A         1 A         10 A         6 A         3 A         2 A         1 A         10 A         6 A         6 A         1 A         10 A         2 A         1 A         0.15 A				
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 10 V rated value         at 220 V rated value         at 220 V rated value         at 24 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         at 24 V rated value         at 25 V rated value         at 212 V rated value         at 220 V rated value         at 24 V rated value         at 25 V rated value	1         1         10 A         6 A         3 A         2 A         1 A         10 A         6 A         3 A         2 A         1 A         10 A         6 A         6 A         1 A         10 A         6 A         6 A         1 A         10 A         2 A         1 A         0 15 A         10 A         2 A         1 A         0.9 A         0.3 A				

full land surrant (ELA) for 2 phase AC motor					
full-load current (FLA) for 3-phase AC motor	00 4				
at 480 V rated value	96 A				
at 600 V rated value	99 A				
yielded mechanical performance [hp]					
for single-phase AC motor					
— at 110/120 V rated value	10 hp				
— at 230 V rated value	20 hp				
• for 3-phase AC motor					
— at 200/208 V rated value	30 hp				
— at 220/230 V rated value	40 hp				
— at 460/480 V rated value	75 hp				
— at 575/600 V rated value	100 hp				
contact rating of auxiliary contacts according to UL	A600 / P600				
Short-circuit protection					
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: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)				
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (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	standing, on horizontal mounting surface				
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715				
height	140 mm				
width	70 mm				
depth	152 mm				
required spacing					
<ul> <li>with side-by-side mounting</li> </ul>					
— forwards	20 mm				
— upwards	10 mm				
— downwards	10 mm				
— at the side	0 mm				
<ul> <li>for grounded parts</li> </ul>					
— forwards	20 mm				
— upwards	10 mm				
— at the side	10 mm				
— downwards	10 mm				
• for live parts					
— forwards	20 mm				
— upwards	10 mm				
— downwards	10 mm				
— at the side	10 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				
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals				
of magnet coil	Screw-type terminals				
type of connectable conductor cross-sections					
for main contacts					
<ul> <li>— finely stranded with core end processing</li> </ul>	2x (2.5 35 mm²), 1x (2.5 50 mm²)				
for AWG cables for main contacts	2x (10 1/0), 1x (10 2)				
connectable conductor cross-section for main contacts					
• solid	2.5 16 mm²				
stranded	6 70 mm <sup>2</sup>				
<ul> <li>finely stranded with core end processing</li> </ul>	2.5 50 mm <sup>2</sup>				
connectable conductor cross-section for auxiliary contacts					
solid or stranded	0.5 2.5 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					

	nded led with core end proces or auxiliary contacts	ssing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14)			
	d connectable conduct	tor cross	27 (20	, 10), 2X (10 14)		
<ul> <li>for main contacts</li> </ul>	i		10 2			
<ul> <li>for auxiliary containing</li> </ul>	acts		20	14		
Safety related data						
product function						
<ul> <li>mirror contact ac</li> </ul>	cording to IEC 60947-4-	1	Yes			
<ul> <li>positively driven</li> </ul>	operation according to IE	EC 60947-5-1	No			
<ul> <li>suitable for safety</li> </ul>	/ function		Yes			
suitability for use safety	-related switching OFF		Yes			
service life maximum			20 a			
test wear-related servi	ice life necessary		Yes			
proportion of dangero	us failures					
<ul> <li>with low demand</li> </ul>	rate according to SN 31	920	40 %			
<ul> <li>with high demand</li> </ul>	d rate according to SN 3	1920	73 %			
B10 value with high de	emand rate according	to SN 31920	1 000	000		
failure rate [FIT] with I 31920	ow demand rate accord	ding to SN	100 F	IT		
ISO 13849						
device type according	to ISO 13849-1		3			
overdimensioning acc	ording to ISO 13849-2	necessary	Yes			
IEC 61508						
safety device type acc	ording to IEC 61508-2		Туре	A		
T1 value						
<ul> <li>for proof test inte 61508</li> </ul>	rval or service life accore	ding to IEC	20 a			
Electrical Safety						
protection class IP on	the front according to	IEC 60529	IP20			
touch protection on th	e front according to IE	C 60529	finger	-safe, for vertical contact	from the front	
Approvals Certificates						
General Product App	oval					
Confirmation		UK			<b></b>	KC
	EG-Konf.	ČÀ			( <sup>m</sup>	
General Product Ap-						
proval	EMV	Functional Saf	tey	Test Certificates		Marine / Shipping
EHC		<u>Type Examinatio</u> <u>tificate</u>	<u>n Cer-</u>	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS
Marine / Shipping					other	Railway
	PRS	RINA		RMRS	<u>Confirmation</u>	<u>Special Test Certific-</u> <u>ate</u>
Dangerous goods	Environment					
Transport Information	EPD	Environmental ( firmations	<u>Con-</u>			

## 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=3RT2047-1AP00-1AA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2047-1AP00-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2047-1AP00-1AA0

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

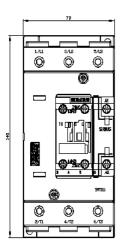
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2047-1AP00-1AA0&lang=en

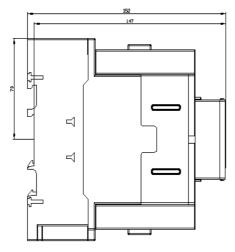
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

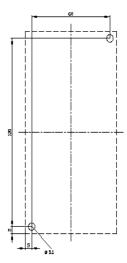
https://support.industry.siemens.com/cs/ww/en/ps/3RT2047-1AP00-1AA0/char

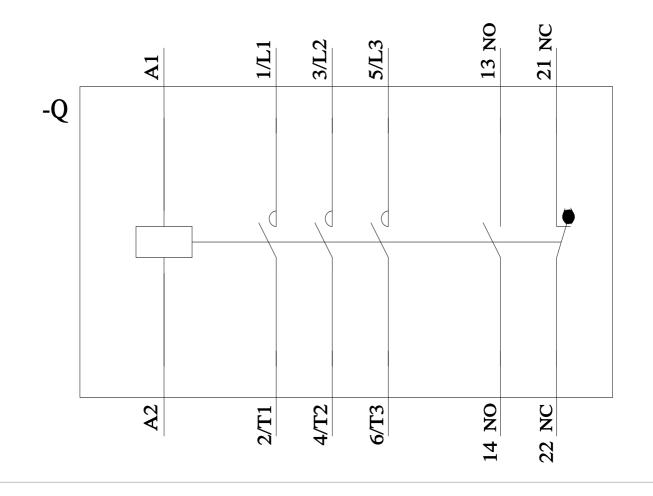
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2047-1AP00-1AA0&objecttype=14&gridview=view1









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