## SIEMENS

## Data sheet

## 3RT2047-1AL20



power contactor, AC-3e/AC-3, 110 A, 55 kW / 400 V, 3-pole, 230 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S3  $\,$ 

440 679	
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S3
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>	25 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	
<ul> <li>of main circuit rated value</li> </ul>	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
Weight	1.723 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	405 kg
Global Warming Potential [CO2 eq] during manufacturing	7.66 kg
Global Warming Potential [CO2 eq] during operation	399 kg
Global Warming Potential [CO2 eq] after end of life	-1.19 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	1 000 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	1 000 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated value	130 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	130 A
<ul> <li>— up to 690 V at ambient temperature 60 °C rated value</li> <li>at AC-3</li> </ul>	110 A
• at AC-3 — at 400 V rated value	110 A
— at 500 V rated value	110 A
— at 500 V rated value — 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	
<ul> <li>— up to 230 V for current peak value n=20 rated value</li> </ul>	98 A
— up to 400 V for current peak value n=20 rated value	98 A
— up to 500 V for current peak value n=20 rated value	98 A
— up to 690 V for current peak value n=20 rated value	98 A
● at AC-6a	
— up to 230 V for current peak value n=30 rated value	65.3 A
— up to 400 V for current peak value n=30 rated value	65.3 A
— up to 500 V for current peak value n=30 rated value	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	36 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	100 A
— 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	0.4 A
<ul> <li>with 2 current paths in series at DC-1</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	10 A

— at 440 V rated value	1.8 A
— at 600 V rated value	1.6 A
with 3 current paths in series at DC-1	
— 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	80 A
— at 440 V rated value	4.5 A
— at 600 V rated value	2.6 A
• at 1 current path at DC-3 at DC-5	
— 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	1 A
— 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
— at 1000 V rated value	37 kW
• at AC-3e	
— 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	
• up to 230 V for current peak value n=20 rated value	39 kVA
	00 10/1
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	67 kVA
up to 500 V for current peak value n=20 rated value     up to 500 V for current peak value n=20 rated value	
	67 kVA
• up to 500 V for current peak value n=20 rated value	67 kVA 84 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	67 kVA 84 kVA
up to 500 V for current peak value n=20 rated value     up to 690 V for current peak value n=20 rated value     operating apparent power at AC-6a	67 kVA 84 kVA 117 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	67 kVA 84 kVA 117 kVA 26 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	67 kVA 84 kVA 117 kVA 26 kVA 45.2 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	67 kVA 84 kVA 117 kVA 26 kVA 45.2 kVA 56.5 kVA

<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			
• 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			
at 60 Hz rated value	230 V			
operating range factor control supply voltage rated value of	200 V			
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	348 VA			
• at 60 Hz	296 VA			
inductive power factor with closing power of the coil	200 ///			
• at 50 Hz	0.62			
• at 60 Hz	0.55			
apparent holding power of magnet coil at AC				
apparent notating power of magnet con at Ao     at 50 Hz	25 VA			
• at 60 Hz	18 VA			
inductive power factor with the holding power of the coil				
• at 50 Hz	0.35			
• at 60 Hz	0.41			
closing delay	0.41			
	12 E0 mg			
• at AC	13 50 ms			
opening delay	10 21 ma			
• at AC	10 21 ms			
arcing time	10 20 ms			
control version of the switch operating mechanism	Standard A1 - A2			
Auxiliary circuit				
number of NC contacts for auxiliary contacts instantaneous contact	1			
number of NO contacts for auxiliary contacts instantaneous contact	1			
number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum	1 10 A			
number of NO contacts for auxiliary contacts instantaneous contact				
number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum				
number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	10 A			
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 A 6 A			
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 A 6 A 3 A			
number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum <b>operational current at AC-15</b> • at 230 V rated value • at 400 V rated value • at 500 V rated value	10 A 6 A 3 A 2 A			
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	10 A 6 A 3 A 2 A			
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 A 6 A 3 A 2 A 1 A			
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 690 V rated value • at 24 V rated value	10 A 6 A 3 A 2 A 1 A 10 A			
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 • at 24 V rated value • at 48 V rated value	10 A 6 A 3 A 2 A 1 A 10 A 6 A			
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 • at 24 V rated value • at 48 V rated value • at 60 V rated value	10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A			
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 • 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 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A			
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 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	10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A			
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 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value	10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A			
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 • 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 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A			
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 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value	10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A			

<ul> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 1125 V rated value</li> <li>0.9 A</li> <li>at 220 V rated value</li> <li>0.3 A</li> <li>at 600 V rated value</li> <li>0.1 A</li> </ul> contact reliability of auxiliary contacts <ul> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> </ul> UL/CSA ratings full-load current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> <li>96 A</li> <li>at 600 V rated value</li> <li>99 A</li> </ul> yielded mechanical performance [hp] <ul> <li>for single-phase AC motor</li> <li>- at 110/120 V rated value</li> <li>20 hp</li> <li>for 3-phase AC motor</li> <li>- at 230 V rated value</li> <li>20 hp</li> <li>for 3-phase AC motor</li> <li>- at 200/208 V rated value</li> <li>30 hp</li> <li>- at 220/230 V rated value</li> <li>40 hp</li> <li>- at 575/600 V rated value</li> <li>75 hp</li> <li>- at 575/600 V rated value</li> <li>000 V pe00</li> </ul>	
• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value96 A• at 600 V rated value99 Ayielded mechanical performance [hp]99 A• for single-phase AC motor10 hp- at 110/120 V rated value20 hp• for 3-phase AC motor at 230 V rated value30 hp- at 200/208 V rated value40 hp- at 460/480 V rated value75 hp- at 575/600 V rated value100 hp	
• at 220 V rated value0.3 A• at 600 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value96 A• at 600 V rated value99 A• at 600 V rated value99 Afor single-phase AC motor10 hp- at 110/120 V rated value20 hp• for 3-phase AC motor10 hp- at 230 V rated value30 hp- at 200/208 V rated value30 hp- at 220/230 V rated value40 hp- at 460/480 V rated value75 hp- at 575/600 V rated value100 hp	
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contact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsfull-load current (FLA) for 3-phase AC motor96 A• at 480 V rated value99 A• at 600 V rated value99 Ayielded mechanical performance [hp]10 hp• for single-phase AC motor10 hp- at 110/120 V rated value20 hp• for 3-phase AC motor30 hp- at 230 V rated value30 hp- at 200/208 V rated value30 hp- at 200/208 V rated value10 hp- at 220/230 V rated value10 hp- at 575/600 V rated value75 hp- at 575/600 V rated value100 hp	
UL/CSA ratings         full-load current (FLA) for 3-phase AC motor       96 A         • at 480 V rated value       99 A         • at 600 V rated value       99 A         yielded mechanical performance [hp]       99 A         • for single-phase AC motor       10 hp         - at 110/120 V rated value       20 hp         • for 3-phase AC motor       20 hp         • for 3-phase AC motor       30 hp         - at 200/208 V rated value       30 hp         - at 220/230 V rated value       75 hp         - at 575/600 V rated value       100 hp	
full-load current (FLA) for 3-phase AC motor96 A• at 480 V rated value99 A• at 600 V rated value99 Ayielded mechanical performance [hp]99 A• for single-phase AC motor10 hp- at 110/120 V rated value20 hp• for 3-phase AC motor20 hp• for 3-phase AC motor30 hp- at 220/208 V rated value30 hp- at 220/208 V rated value40 hp- at 460/480 V rated value75 hp- at 575/600 V rated value100 hp	
• at 480 V rated value96 A• at 600 V rated value99 Ayielded mechanical performance [hp]99 A• for single-phase AC motor10 hp- at 110/120 V rated value10 hp- at 230 V rated value20 hp• for 3-phase AC motor at 200/208 V rated value30 hp- at 220/230 V rated value40 hp- at 460/480 V rated value75 hp- at 575/600 V rated value100 hp	
• at 600 V rated value99 Ayielded mechanical performance [hp]99 A• for single-phase AC motor10 hp- at 110/120 V rated value10 hp- at 230 V rated value20 hp• for 3-phase AC motor30 hp- at 200/208 V rated value30 hp- at 220/230 V rated value40 hp- at 460/480 V rated value75 hp- at 575/600 V rated value100 hp	
yielded mechanical performance [hp]• for single-phase AC motor at 110/120 V rated value10 hp at 230 V rated value20 hp• for 3-phase AC motor at 200/208 V rated value30 hp at 220/230 V rated value40 hp at 460/480 V rated value75 hp at 575/600 V rated value100 hpContact rating of auxiliary contacts according to ULA600 / P600	
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>bp</li> </ul> </li> <li>at 230 V rated value</li> <li>c for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>bp</li> <li>at 220/230 V rated value</li> <li>bp</li> <li>at 460/480 V rated value</li> <li>contact rating of auxiliary contacts according to UL</li> </ul> </li> </ul>	
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         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	
<ul> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>30 hp</li> <li>at 220/230 V rated value</li> <li>40 hp</li> <li>at 460/480 V rated value</li> <li>75 hp</li> <li>at 575/600 V rated value</li> <li>100 hp</li> <li>contact rating of auxiliary contacts according to UL</li> <li>A600 / P600</li> </ul>	
— at 575/600 V rated value     100 hp       contact rating of auxiliary contacts according to UL     A600 / P600	
contact rating of auxiliary contacts according to UL A600 / P600	
Short circuit protection	
Short-circuit protection	
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 (4 kA)	15 V, 80
	30kA)
• 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 for	ward 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	160715
height 140 mm	
width 70 mm	
depth 152 mm	
required spacing	
• with side-by-side mounting	
— forwards 20 mm	
— upwards 10 mm	
— downwards 10 mm	
— at the side 0 mm	
for grounded parts	
— 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	
for auxiliary and control circuit     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	
- finely stranded with core end processing 2x (2.5 35 mm <sup>2</sup> ), 1x (2.5 50 mm <sup>2</sup> )	
• 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	2.0 00 mm			
solid or stranded	0.5 2.5 mm²			
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²			
type of connectable conductor cross-sections				
for auxiliary contacts				
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75	. 2.5 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 auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)	,		
AWG number as coded connectable conductor cross				
section				
<ul> <li>for main contacts</li> </ul>	10 2			
<ul> <li>for auxiliary contacts</li> </ul>	20 14			
Safety related data				
product function				
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes			
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No			
suitable for safety function	Yes			
suitability for use safety-related switching OFF	Yes			
service life maximum	20 a			
test wear-related service life necessary	Yes			
proportion of dangerous failures				
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %			
<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %			
B10 value with high demand rate according to SN 31920	1 000 000			
failure rate [FIT] with low demand rate according to SN 31920	100 FIT			
ISO 13849				
device type according to ISO 13849-1	3			
overdimensioning according to ISO 13849-2 necessary	Yes			
IEC 61508				
safety device type according to IEC 61508-2	Туре А			
Electrical Safety				
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 Approval				
Confirmation				
		ŝ	KC	
	<b>***</b>	(ŲL)	<u>KC</u>	
		(UL)	KC	
			<u>KC</u>	
			KC	
General Product Ap-	ccc	Ű		
	ccc	<b>U</b>	KC Marine / Shipping	
General Product Ap- proval EMV Functional Sa	ftey Test Certificates	Special Tast Costifie		
General Product Approval EMV Functional Sa	ftey Test Certificates	Special Test Certific- ate		
General Product Approval EMV Functional Sa	ftey Test Certificates			
General Product Approval EMV Functional Sa	ftey Test Certificates			
General Product Approval EMV Functional Sa	ftey Test Certificates		Marine / Shipping	
General Product Approval       EMV       Functional Sa         Efficiency       Emv       Type Examination transference         Efficiency       RCM       Type Examination transference	ftey Test Certificates	ate	Marine / Shipping	
General Product Approval EMV Functional Sa	ftey Test Certificates		Marine / Shipping	
General Product Approval       EMV       Functional Sa         Efficiency       Emv       Type Examination transmission         Efficiency       RCM       Type Examination	ftey Test Certificates	<u>ate</u> other	Marine / Shipping	
General Product Approval       EMV       Functional Sa         Efficiency       Emv       Type Examination transmission         Efficiency       RCM       Type Examination	ftey Test Certificates	ate	Marine / Shipping	
General Product Approval       EMV       Functional Sa         Efficiency       Emv       Type Examination transmission         Efficiency       RCM       Type Examination	ftey Test Certificates	<u>ate</u> other	Marine / Shipping	
General Product Approval       EMV       Functional Sa         Efficiency       Emv       Type Examination transmission         Efficiency       RCM       Type Examination	ftey Test Certificates	<u>ate</u> other	Marine / Shipping	
General Product Approval       EMV       Functional Sa         Image: Constraint of the second	ftey Test Certificates	<u>ate</u> other	Marine / Shipping	
General Product Approval       EMV       Functional Sa         Image: Constraint of the second	ftey Test Certificates	<u>ate</u> other	Marine / Shipping	
General Product Approval       EMV       Functional Sa         Image: Constraint of the second	ftey Test Certificates	<u>ate</u> other	Marine / Shipping	



## Further information

Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2047-1AL20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2047-1AL20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2047-1AL20

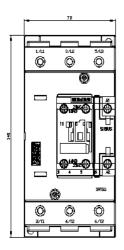
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

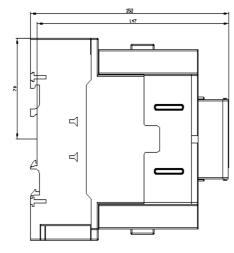
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2047-1AL20&lang=en

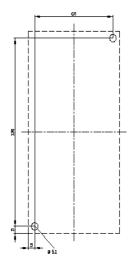
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

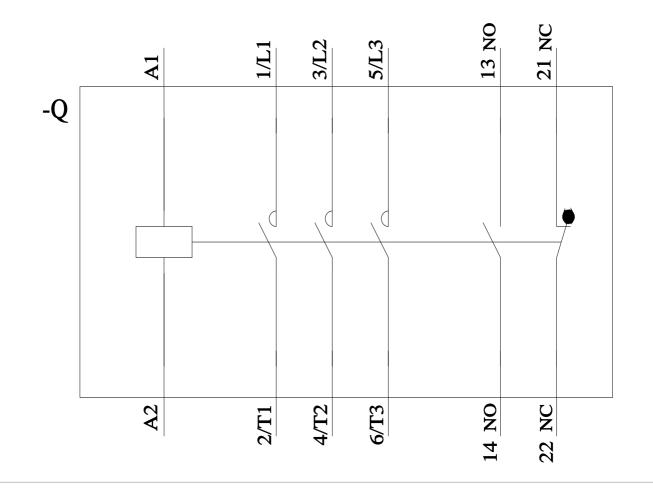
https://support.industry.siemens.com/cs/ww/en/ps/3RT2047-1AL20/char Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2047-1AL20&objecttype=14&gridview=view1









last modified:

7/19/2024 🖸