## SIEMENS

## Data sheet

## 3RT2027-1AT60-0UA0



contactor, NEMA version, 10 hp, 460 / 575 V, 3-pole, 600 V AC, 60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0

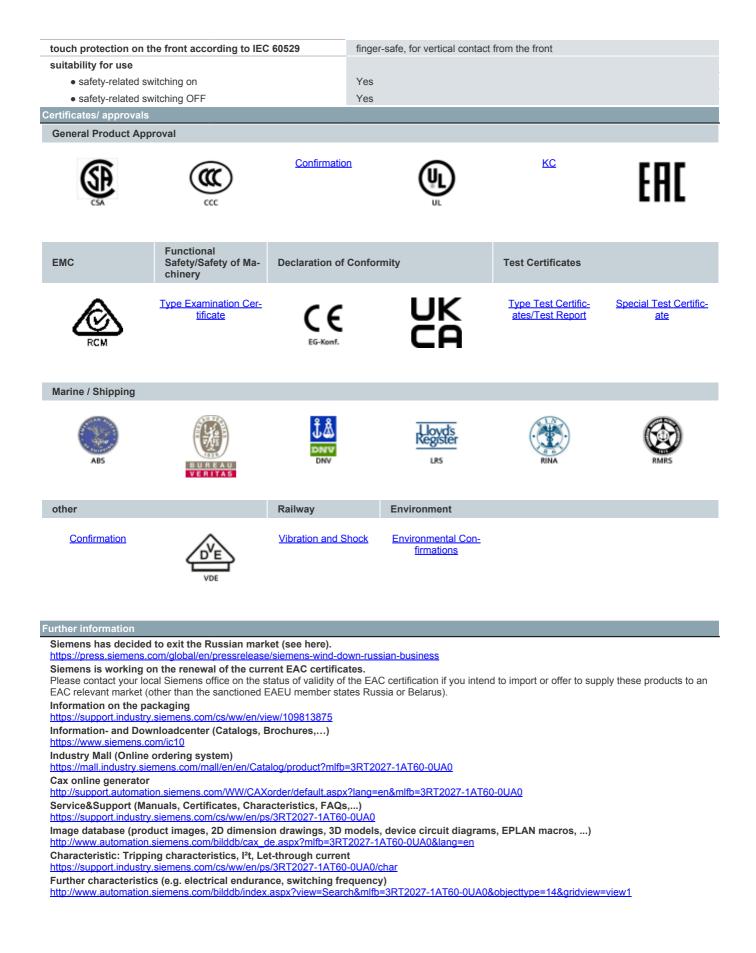
General technical data	
size of contactor	S0
product extension	
function module for communication	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
at AC in hot operating state	6.3 W
at AC in hot operating state per pole	2.3 W
without load current share typical	9.4 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
of main circuit rated value	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	8,3g / 5 ms, 5,3g / 10 ms
shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 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)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
<ul> <li>during storage</li> </ul>	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated</li> </ul>	50 A

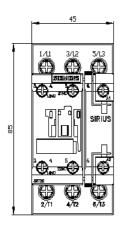
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	50 A
value	
— up to 690 V at ambient temperature 60 °C rated value	42 A
• at AC-3	
— at 400 V rated value	32 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-3e	
— at 400 V rated value	32 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-4 at 400 V rated value	22 A
at AC-5a up to 690 V rated value	44 A
• at AC-5b up to 400 V rated value	26.5 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	30.8 A
— up to 400 V for current peak value n=20 rated value	30.8 A
— up to 500 V for current peak value n=20 rated value	27 A
— up to 690 V for current peak value n=20 rated value	21 A
• at AC-6a	
<ul> <li>— up to 230 V for current peak value n=30 rated value</li> </ul>	20.5 A
— up to 400 V for current peak value n=30 rated value	20.5 A
— up to 500 V for current peak value n=30 rated value	18 A
— up to 690 V for current peak value n=30 rated value	18 A
minimum cross-section in main circuit at maximum AC-1 rated	10 mm <sup>2</sup>
value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	12 A
• at 690 V rated value	12 A
at 690 V rated value operational current	
at 690 V rated value operational current     at 1 current path at DC-1	12 A
at 690 V rated value  operational current     at 1 current path at DC-1     — at 24 V rated value	12 A 35 A
at 690 V rated value  operational current     at 1 current path at DC-1     — at 24 V rated value     — at 60 V rated value	12 A 35 A 20 A
at 690 V rated value  operational current     at 1 current path at DC-1     — at 24 V rated value     — at 60 V rated value     — at 110 V rated value	12 A 35 A 20 A 4.5 A
at 690 V rated value  operational current     at 1 current path at DC-1     - at 24 V rated value     - at 60 V rated value     - at 110 V rated value     - at 220 V rated value	12 A 35 A 20 A 4.5 A 1 A
at 690 V rated value  operational current     at 1 current path at DC-1     — at 24 V rated value     — at 60 V rated value     — at 110 V rated value     — at 220 V rated value     — at 440 V rated value	12 A 35 A 20 A 4.5 A 1 A 0.4 A
at 690 V rated value  operational current     at 1 current path at DC-1     — at 24 V rated value     — at 60 V rated value     — at 110 V rated value     — at 220 V rated value     — at 440 V rated value     — at 600 V rated value     — at 600 V rated value	12 A 35 A 20 A 4.5 A 1 A
at 690 V rated value  operational current     at 1 current path at DC-1     — at 24 V rated value     — at 60 V rated value     — at 110 V rated value     — at 220 V rated value     — at 440 V rated value	12 A 35 A 20 A 4.5 A 1 A 0.4 A
at 690 V rated value  operational current     at 1 current path at DC-1     - at 24 V rated value     - at 60 V rated value     - at 110 V rated value     - at 220 V rated value     - at 440 V rated value     - at 600 V rated value     - at 600 V rated value     - at 600 V rated value	12 A 35 A 20 A 4.5 A 1 A 0.4 A 0.25 A
at 690 V rated value  operational current     at 1 current path at DC-1     - at 24 V rated value     - at 60 V rated value     - at 110 V rated value     - at 220 V rated value     - at 440 V rated value     - at 600 V rated value     - at 600 V rated value     - at 600 V rated value     - at 22V V rated value     - at 22V V rated value     - at 600 V rated value     - at 24 V rated value	12 A 35 A 20 A 4.5 A 1 A 0.4 A 0.25 A 35 A
at 690 V rated value  operational current     at 1 current path at DC-1     - 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 440 V rated value     - at 600 V rated value     - at 24 V rated value     - at 24 V rated value     - at 60 V rated value	12 A 35 A 20 A 4.5 A 1 A 0.4 A 0.25 A 35 A 35 A
at 690 V rated value  operational current         • at 1 current path at DC-1         — 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 440 V rated value         — at 600 V rated value         — at 110 V rated value         — at 21 V rated value         — at 21 V rated value         — at 21 V rated value         — at 60 V rated value         — at 60 V rated value         — at 110 V rated value	12 A 35 A 20 A 4.5 A 1 A 0.4 A 0.25 A 35 A 35 A
at 690 V rated value  operational current     at 1 current path at DC-1     - at 24 V rated value     - at 60 V rated value     - at 110 V rated value     - at 220 V rated value     - at 440 V rated value     - at 600 V rated value     - at 600 V rated value     - at 600 V rated value     - at 220 V rated value	12 A 35 A 20 A 4.5 A 1 A 0.4 A 0.25 A 35 A 35 A 35 A 35 A
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• at 690 V rated value  operational current     • at 1 current path at DC-1         — at 24 V rated value         — at 60 V rated value         — at 60 V rated value         — at 110 V rated value         — at 220 V rated value         — at 440 V rated value         — at 600 V rated value         — at 220 V rated value         — at 600 V rated value         — at 220 V rated value         — at 240 V rated value         — at 440 V rated value         — at 600 V rated value         — at 600 V rated value         — at 600 V rated value         — at 24 V rated value	12 A 35 A 20 A 4.5 A 1 A 0.4 A 0.25 A 35 A 35 A 35 A 35 A 35 A 35 A 35 A
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<ul> <li>at 690 V rated value</li> <li>operational current</li> <li>at 1 current path at DC-1 <ul> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 60 V rated value</li> <li>at 220 V rated value</li> <li>at 24 V rated value</li> <li>at 20 V rated value</li> <li>at 20 V rated value</li> <li>at 440 V rated value</li> <li>at 20 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 20 V rated value</li> <li>at 20 V rated value</li> <li>at 440 V rated value</li> <li>at 20 V rated value</li> <li>at 20 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul>	12 A 35 A 20 A 4.5 A 1 A 0.4 A 0.25 A 35 A
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<ul> <li>at 690 V rated value</li> <li>operational current</li> <li>at 1 current path at DC-1 <ul> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 60 V rated value</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 20 V rated value</li> <li>at 210 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 60 V rated value</li> <li>at 600 V rated value</li> <li>at 110 V rated value</li> <li>at 100 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> </ul>	12 A 35 A 20 A 4.5 A 1 A 0.4 A 0.25 A 35
<ul> <li>at 690 V rated value</li> <li>operational current</li> <li>at 1 current path at DC-1 <ul> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>with 2 current paths in series at DC-1 <ul> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 20 V rated value</li> <li>at 440 V rated value</li> <li>at 20 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 110 V rated value</li> <li>at 10 V rated value</li> <li>at 10 V rated value</li> <li>at 21 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 24 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul> </li> </ul>	12 A 35 A 20 A 45 A 1 A 0.4 A 0.25 A 35 A 20 A 14 A 20 A 5 A
<ul> <li>at 690 V rated value</li> <li>operational current</li> <li>at 1 current path at DC-1 <ul> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>with 2 current paths in series at DC-1 <ul> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 60 V rated value</li> <li>at 220 V rated value</li> <li>at 60 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 60 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 220 V rated value</li> <li>at 60 V rated value</li> <li>at 220 V rated value</li> </ul> </li> </ul>	12 A 35 A 20 A 45 A 1 A 0.4 A 0.25 A 35 A 20 A 14 A 20 A 5 A 14 A

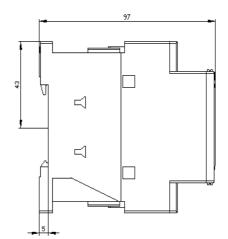
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
operating power	
at AC-2 at 400 V rated value	15 kW
• at AC-3	
— at 230 V rated value	7.5 kW
— at 400 V rated value	15 kW
— at 500 V rated value	15 kW
— at 690 V rated value	18.5 kW
• at AC-3e	
— at 230 V rated value	7.5 kW
— at 400 V rated value	15 kW
— at 500 V rated value	15 kW
— at 690 V rated value	18.5 kW
operating power for approx. 200000 operating cycles at AC-	10.0 KW
4	
• at 400 V rated value	6 kW
• at 690 V rated value	10.3 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	12.2 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	21.3 VA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	23.3 VA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	25 VA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	8.1 VA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	14.2 VA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	15.5 VA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	21.5 VA
short-time withstand current in cold operating state up to	
40 °C	
• limited to 1 s switching at zero current maximum	499 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 5 s switching at zero current maximum	341 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 10 s switching at zero current maximum	260 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 30 s switching at zero current maximum	199 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 60 s switching at zero current maximum	162 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	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-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 60 Hz rated value	600 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	

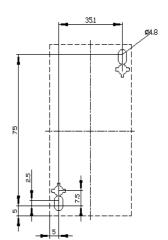
	07.1/4
• at 60 Hz	87 VA
inductive power factor with closing power of the coil • at 60 Hz	0.76
	0.76
apparent holding power of magnet coil at AC • at 60 Hz	9.4 VA
• at 60 m2 inductive power factor with the holding power of the coil	9.4 VA
at 60 Hz	0.28
closing delay	0.20
• at AC	8 40 ms
opening delay	
• at AC	4 16 ms
arcing time	10 10 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
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
● at 690 V rated value	1 A
operational current at DC-12	
• at 24 V rated value	10 A
at 48 V rated value	6 A
• at 60 V rated value	6 A
• at 110 V rated value	3 A
at 125 V rated value	2 A
• at 220 V rated value	1A
• at 600 V rated value	0.15 A
operational current at DC-13	10.1
• at 24 V rated value	10 A
• at 48 V rated value	2 A
at 60 V rated value	2 A
at 110 V rated value	1A
at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts UL/CSA ratings	1 faulty switching per 100 million (17 V, 1 mA)
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	27 A
at 600 V rated value	27 A
yielded mechanical performance [hp]	
for single-phase AC motor	
- at 110/120 V rated value	2 hp
— at 230 V rated value	5 hp
• for 3-phase AC motor	
— at 200/208 V rated value	10 hp
— at 220/230 V rated value	10 hp
— at 460/480 V rated value	20 hp
— at 575/600 V rated value	25 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>	
- with type of coordination 1 required	gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA)
— with type of assignment 2 required	gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA)
• for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)

<ul> <li>+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface</li> <li>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes</li> <li>85 mm</li> <li>45 mm</li> <li>97 mm</li> <li>10 mm</li> <li>10 mm</li> </ul>
Yes 85 mm 45 mm 97 mm 10 mm
85 mm 45 mm 97 mm 10 mm
45 mm 97 mm 10 mm
97 mm 10 mm
10 mm
10 mm
10 mm
0 mm
10 mm
10 mm
6 mm
10 mm
10 mm
10 mm
10 mm
6 mm
screw-type terminals
screw-type terminals
Screw-type terminals
Screw-type terminals
2x (1 2.5 mm²), 2x (2.5 10 mm²)
2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )
2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup>
ZA (1 2.5 mm ), ZA (2.5 0 mm ), 1A 10 mm
1 10 mm²
1 10 mm² 1 10 mm²
0.5 0.5 mm²
0.5 2.5 mm <sup>2</sup>
0.5 2.5 mm²
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)
16 8
20 14
Yes
450 000
40 %
73 % 100 FIT
100 FIT
20 a IP20













last modified:

2/10/2023 🖸