## **SIEMENS**

Data sheet 3RT1064-2NF36



power contactor, AC-3 225 A, 110 kW / 400 V AC (50-60 Hz) / DC operation 96-127 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S10 busbar connections drive: electronic with PLC interface 24 V DC spring-loaded terminal

product brand name	SIRIUS	
product designation	Power contactor	
product type designation	3RT1	
General technical data		
size of contactor	S10	
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>	51 W	
<ul> <li>at AC in hot operating state per pole</li> </ul>	17 W	
<ul> <li>without load current share typical</li> </ul>	3.4 W	
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>	500 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 safe isolation between coil and main contacts according to EN 60947-1	690 V	
shock resistance at rectangular impulse		
• at AC	8,5g / 5 ms, 4,2g / 10 ms	
• at DC	8,5g / 5 ms, 4,2g / 10 ms	
shock resistance with sine pulse		
• at AC	13,4g / 5 ms, 6,5g / 10 ms	
• at DC	13,4g / 5 ms, 6,5g / 10 ms	
mechanical service life (switching cycles)		
of contactor typical	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)	05/01/2012	
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 %
lain circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	3
at AC-3 rated value maximum	1 000 V
at AC-3 rated value maximum     at AC-3e rated value maximum	1 000 V
operational current	1 000 V
at AC-1 at 400 V at ambient temperature 40 °C	275 A
rated value	2107
• at AC-1	
— up to 690 V at ambient temperature 40 °C	275 A
rated value	
— up to 690 V at ambient temperature 60 °C	250 A
rated value	
— up to 1000 V at ambient temperature 40 °C	100 A
rated value — up to 1000 V at ambient temperature 60 °C	100 A
rated value	100 A
• at AC-3	
— at 400 V rated value	225 A
— at 500 V rated value	225 A
— at 690 V rated value	225 A
— at 1000 V rated value	68 A
• at AC-3e	
— at 400 V rated value	225 A
— at 500 V rated value	225 A
— at 1000 V rated value	68 A
at AC-4 at 400 V rated value	195 A
at AC-5a up to 690 V rated value	242 A
at AC-5b up to 400 V rated value	186 A
• at AC-6a	100 A
— up to 230 V for current peak value n=20 rated	225 A
value	
— up to 400 V for current peak value n=20 rated	225 A
value	
— up to 500 V for current peak value n=20 rated	225 A
value	225 A
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	225 A
— up to 1000 V for current peak value n=20 rated	68 A
value	
• at AC-6a	
— up to 230 V for current peak value n=30 rated	172 A
value	
— up to 400 V for current peak value n=30 rated	172 A
value	470 A
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	172 A
— up to 690 V for current peak value n=30 rated	172 A
value	
— up to 1000 V for current peak value n=30 rated	68 A
value	
minimum cross-section in main circuit at maximum AC-1	150 mm <sup>2</sup>
rated value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	96 A
at 690 V rated value	85 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	200 A

at 110 V rated value
- at 440 V rated value 0.8 A - at 600 V rated value 0.5 A  • with 2 current paths in series at DC-1 - at 24 V rated value 200 A - at 110 V rated value 200 A - at 440 V rated value 3.2 A - at 600 V rated value 1.6 A  • with 3 current paths in series at DC-1 - at 24 V rated value 200 A - at 110 V rated value 200 A - at 110 V rated value 200 A - at 110 V rated value 200 A - at 220 V rated value 200 A - at 220 V rated value 200 A - at 220 V rated value 400 A - at 440 V rated value 400 A - at 440 V rated value 400 A - at 42 V v rated value 40 A  • at 1 current path at DC-3 at DC-5 - at 24 V rated value 2.5 A - at 220 V rated value 0.6 A - at 440 V rated value 0.17 A - at 600 V rated value 0.12 A  • with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value 0.12 A  • with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value 200 A
<ul> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-1</li> <li>at 24 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> <li>with 3 current paths in series at DC-1</li> <li>at 22 V rated value</li> <li>at 110 V rated value</li> <li>at 20 A</li> <li>with 3 current paths in series at DC-1</li> <li>at 24 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 440 V rated value</li> <li>at 600 V rated value</li> <li>at 11 A</li> <li>at 600 V rated value</li> <li>at 1 current path at DC-3 at DC-5</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 110 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 440 V rated value</li> <li>at 600 V rated value</li></ul>
with 2 current paths in series at DC-1     — at 24 V rated value
- at 24 V rated value 200 A - at 110 V rated value 200 A - at 220 V rated value 20 A - at 440 V rated value 3.2 A - at 600 V rated value 1.6 A  • with 3 current paths in series at DC-1 - at 24 V rated value 200 A - at 110 V rated value 200 A - at 110 V rated value 200 A - at 220 V rated value 200 A - at 440 V rated value 11 A - at 600 V rated value 4 A  • at 1 current path at DC-3 at DC-5 - at 24 V rated value 2.5 A - at 220 V rated value 2.5 A - at 440 V rated value 2.5 A - at 440 V rated value 0.6 A - at 440 V rated value 0.17 A - at 600 V rated value 0.17 A - at 600 V rated value 0.12 A  • with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value 2.00 A
- at 110 V rated value 200 A - at 220 V rated value 20 A - at 440 V rated value 3.2 A - at 600 V rated value 1.6 A  • with 3 current paths in series at DC-1 - at 24 V rated value 200 A - at 110 V rated value 200 A - at 220 V rated value 200 A - at 440 V rated value 11 A - at 600 V rated value 4 A  • at 1 current path at DC-3 at DC-5 - at 24 V rated value 2.5 A - at 220 V rated value 2.5 A - at 220 V rated value 3.6 A - at 440 V rated value 3.7 A - at 600 V rated value 3.8 A - at 10 V rated value 3.9 A - at 20 V rated value 3.9 A - at 440 V rated value 3.1 A - at 600 V rated value 3.1 A - at 24 V rated value 3.2 A - at 25 V rated value 3.2 A - at 26 V rated value 3.2 A - at 26 V rated value 3.2 A - at 27 V rated value 3.2 A - at 28 V rated value 3.2 A - at 28 V rated value 3.2 A - at 28 V rated va
- at 220 V rated value 20 A - at 440 V rated value 3.2 A - at 600 V rated value 1.6 A  • with 3 current paths in series at DC-1 - at 24 V rated value 200 A - at 110 V rated value 200 A - at 220 V rated value 200 A - at 440 V rated value 11 A - at 600 V rated value 4 A  • at 1 current path at DC-3 at DC-5 - at 24 V rated value 200 A - at 110 V rated value 4 A  • at 1 current path at DC-3 at DC-5 - at 24 V rated value 2.5 A - at 220 V rated value 0.6 A - at 440 V rated value 0.17 A - at 600 V rated value 0.17 A - at 600 V rated value 0.12 A  • with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value 200 A
<ul> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> <li>• with 3 current paths in series at DC-1</li> <li>— at 24 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> <li>• at 1 current path at DC-3 at DC-5</li> <li>— at 24 V rated value</li> <li>— at 110 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 10 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 600 V rated value</li> <li>— at 24 V rated value</li> </ul>
<ul> <li>— at 600 V rated value</li> <li>■ with 3 current paths in series at DC-1</li> <li>— at 24 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> <li>— at 600 V rated value</li> <li>— at 1 current path at DC-3 at DC-5</li> <li>— at 24 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 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 24 V rated value</li> </ul>
<ul> <li>with 3 current paths in series at DC-1         <ul> <li>at 24 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> <li>at 1 current path at DC-3 at DC-5</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 240 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> <li>with 2 current paths in series at DC-3 at DC-5</li> <li>at 24 V rated value</li> <li>200 A</li> </ul>
- at 24 V rated value 200 A - at 110 V rated value 200 A - at 220 V rated value 200 A - at 440 V rated value 11 A - at 600 V rated value 4 A  • at 1 current path at DC-3 at DC-5 - at 24 V rated value 200 A - at 110 V rated value 200 A - at 120 V rated value 2.5 A - at 220 V rated value 0.6 A - at 440 V rated value 0.17 A - at 600 V rated value 0.12 A  • with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value 200 A
- at 110 V rated value 200 A - at 220 V rated value 11 A - at 600 V rated value 4 A  • at 1 current path at DC-3 at DC-5 - at 24 V rated value 2.5 A - at 110 V rated value 2.5 A - at 220 V rated value 0.6 A - at 440 V rated value 0.17 A - at 600 V rated value 0.12 A  • with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value 200 A
- at 220 V rated value 200 A - at 440 V rated value 11 A - at 600 V rated value 4 A  • at 1 current path at DC-3 at DC-5 - at 24 V rated value 200 A - at 110 V rated value 2.5 A - at 220 V rated value 0.6 A - at 440 V rated value 0.17 A - at 600 V rated value 0.12 A  • with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value 200 A
- at 440 V rated value - at 600 V rated value 4 A  • at 1 current path at DC-3 at DC-5 - at 24 V rated value 200 A - at 110 V rated value 2.5 A - at 220 V rated value 0.6 A - at 440 V rated value 0.17 A - at 600 V rated value 0.12 A  • with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value 200 A
- at 600 V rated value 4 A  • at 1 current path at DC-3 at DC-5  - at 24 V rated value 200 A  - at 110 V rated value 2.5 A  - at 220 V rated value 0.6 A  - at 440 V rated value 0.17 A  - at 600 V rated value 0.12 A  • with 2 current paths in series at DC-3 at DC-5  - at 24 V rated value 200 A
• at 1 current path at DC-3 at DC-5  — at 24 V rated value 200 A  — at 110 V rated value 2.5 A  — at 220 V rated value 0.6 A  — at 440 V rated value 0.17 A  — at 600 V rated value 0.12 A  • with 2 current paths in series at DC-3 at DC-5  — at 24 V rated value 200 A
- at 24 V rated value 200 A - at 110 V rated value 2.5 A - at 220 V rated value 0.6 A - at 440 V rated value 0.17 A - at 600 V rated value 0.12 A  • with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value 200 A
<ul> <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> <li>• with 2 current paths in series at DC-3 at DC-5</li> <li>— at 24 V rated value</li> <li>2.5 A</li> <li>0.6 A</li> <li>0.17 A</li> <li>0.12 A</li> <li>200 A</li> </ul>
<ul> <li>— at 220 V rated value 0.6 A</li> <li>— at 440 V rated value 0.17 A</li> <li>— at 600 V rated value 0.12 A</li> <li>• with 2 current paths in series at DC-3 at DC-5</li> <li>— at 24 V rated value 200 A</li> </ul>
<ul> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-3 at DC-5</li> <li>at 24 V rated value</li> <li>200 A</li> </ul>
<ul> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-3 at DC-5</li> <li>at 24 V rated value</li> <li>200 A</li> </ul>
• with 2 current paths in series at DC-3 at DC-5  — at 24 V rated value 200 A
— at 24 V rated value 200 A
— at 110 V rated value 200 A
24 000 V sets d velve
— at 220 V rated value 2.5 A
— at 440 V rated value 0.65 A
— at 600 V rated value 0.37 A
with 3 current paths in series at DC-3 at DC-5  — at 24 V rated value  200 A
— at 110 V rated value 200 A  — at 110 V rated value 200 A
<ul><li>— at 220 V rated value</li><li>— at 440 V rated value</li><li>1.4 A</li></ul>
— at 600 V rated value 0.75 A
operating power
• at AC-3
— at 230 V rated value 55 kW
— at 400 V rated value 110 kW
— at 500 V rated value 160 kW
— at 690 V rated value 200 kW
— at 1000 V rated value 90 kW
• at AC-3e
— at 230 V rated value 55 kW
— at 400 V rated value 110 kW
— at 500 V rated value 160 kW
— at 1000 V rated value 90 kW
operating power for approx. 200000 operating cycles
at AC-4
• at 400 V rated value 54 kW
at 690 V rated value      82 kW
operating apparent power at AC-6a
up to 230 V for current peak value n=20 rated value     90 000 kVA      100 V/A      100 V/A
• up to 400 V for current peak value n=20 rated value 150 000 VA
• up to 500 V for current peak value n=20 rated value 190 000 VA
• up to 690 V for current peak value n=20 rated value 260 000 VA
up to 1000 V for current peak value n=20 rated     value  110 000 VA
operating apparent power at AC-6a
• up to 230 V for current peak value n=30 rated value 60 000 VA
• up to 400 V for current peak value n=30 rated value 110 000 VA
• up to 500 V for current peak value n=30 rated value 140 000 VA

<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	200 000 VA
up to 1000 V for current peak value n=30 rated	110 000 VA
value	
short-time withstand current in cold operating state up to 40 °C	
Iimited to 1 s switching at zero current maximum	4 000 A; Use minimum cross-section acc. to AC-1 rated value
limited to 5 s switching at zero current maximum	2 807 A; Use minimum cross-section acc. to AC-1 rated value
limited to 3 switching at zero current maximum     limited to 10 s switching at zero current maximum	2 082 A; Use minimum cross-section acc. to AC-1 rated value
	1 397 A; Use minimum cross-section acc. to AC-1 rated value
limited to 30 s switching at zero current maximum	
Iimited to 60 s switching at zero current maximum	1 144 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	4 000 4/1-
• at AC	1 000 1/h
• at DC	1 000 1/h
operating frequency	750.4//
• at AC-1 maximum	750 1/h
• at AC-2 maximum	250 1/h
• at AC-3 maximum	500 1/h
• at AC-3e maximum	500 1/h
at AC-4 maximum	130 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	96 127 V
at 60 Hz rated value	96 127 V
control supply voltage at DC	
rated value	96 127 V
type of PLC-control input according to IEC 60947-1	Type 2
consumed current at PLC-control input according to	20 mA
IEC 60947-1 maximum	
voltage at PLC-control input rated value	24 V
operating range factor of the voltage at PLC-control	0.8 1.1
input	
operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.8
full-scale value	1.1
operating range factor control supply voltage rated	
value of magnet coil at AC	
• at 50 Hz	0.8 1.1
● at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC	
• at 50 Hz	530 VA
• at 60 Hz	530 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.8
apparent holding power of magnet coil at AC	
• at 50 Hz	5 VA
• at 60 Hz	5 VA
inductive power factor with the holding power of the	·
coil	
● at 50 Hz	0.5
• at 60 Hz	0.5
closing power of magnet coil at DC	580 W
holding power of magnet coil at DC	3.4 W
closing delay	
• at AC	45 80 ms
• at DC	45 80 ms
opening delay	
• at AC	80 100 ms
• at DC	80 100 ms
- 0.00	· · · · · · · · · · · · · · · · · · ·

arcing time	10 15 ms
control version of the switch operating mechanism	PLC-IN or Standard A1 - A2 (adjustable)
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	2
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
<ul> <li>at 230 V rated value</li> </ul>	6 A
<ul> <li>at 400 V rated value</li> </ul>	3 A
<ul> <li>at 500 V rated value</li> </ul>	2 A
at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
<ul> <li>at 48 V rated value</li> </ul>	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	1 A
• at 600 V rated value	0.15 A
operational current at DC-13	40.4
at 24 V rated value     at 48 V rated value	10 A
at 48 V rated value     at 60 V rated value	2 A 2 A
• at 60 V rated value	
at 110 V rated value     at 135 V rated value	1 A 0.9 A
at 125 V rated value     at 220 V rated value	0.3 A
<ul><li>at 220 V rated value</li><li>at 600 V rated value</li></ul>	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	Tradity Switching per 100 million (17 V, 1 mz)
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value	180 A
at 480 V rated value     at 600 V rated value	192 A
yielded mechanical performance [hp]	192 A
for 3-phase AC motor	
— at 200/208 V rated value	60 hp
— at 220/230 V rated value	75 hp
— at 460/480 V rated value	150 hp
— at 575/600 V rated value	200 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
— with type of coordination 1 required	gG: 500 A (690 V, 100 kA)
— with type of assignment 2 required	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)
<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	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
side-by-side mounting	Yes
height	210 mm
width	145 mm
depth	202 mm
required spacing	
<ul><li>with side-by-side mounting</li></ul>	
— forwards	20 mm
— upwards	10 mm

downwards at the side forgrounded parts forwards upwards downwards downwards downwards downwards forwards downwards forwards upwards forwards upwards forwards forwards forwards forwards downwards forwards downwards forwards downwards forwards downwards for man current circuit for audiality and control circuit for audiality and control circuit for audiality and control circuit for audiality contacts for forman current circuit for audiality contacts for audiality contacts for audiality contacts for audiality for audialit		
• for grounded parts  — forwards  — upwards  — at the side  — downwards  • for live parts  — forwards  • for live parts  — forwards  — to worwards  — upwards  — to worwards  — upwards  — to worwards  — to mm  — downwards  — to mm  — the side  — to main current circuit  • for auxiliary and control circuit  • for auxiliary on the side  — thickness of connection bar  diameter of holes  — thickness of connection bar  diameter of holes  — thickness of connectable conductor cross-sections  • at AVMC achies for main contacts  — side or stranded  • finely stranded with core end processing  — finely stranded with core end processing — solid or stranded  — finely stranded without core and processing — finely stranded without core and processing — finely stranded without core end processing — finely stranded without core — finely stranded without	— downwards	10 mm
forwards	— at the side	0 mm
- upwards	<ul> <li>for grounded parts</li> </ul>	
- at the side	— forwards	20 mm
- downwards - for live parts - forwards - upwards - upwards - downwards - at the side - downwards - at the side - to mm  Connections/ Terminals  type of electrical connection - for auxiliary and control circuit - of rauxiliary and control circuit - of magnet coil - of connectable conductor cross-sections - of a AWG acables for main contacts - oslid or stranded - onnectable conductor cross-section for main contacts - oslid or stranded - onnectable conductor cross-section for auxiliary contacts - oslid or stranded without core and processing - of newly stranded without core and processing - of newly stranded with core end processing - of newly stranded with core end processing - finely stranded with core end processing - of newly	— upwards	10 mm
• for live parts     — forwards     — upwards     — downwards     — at the side  Connections/ Terminals  type of electrical connection     • for main current circuit     • for auxiliary and control dircuit     • for auxiliary and control dircuit     • for auxiliary and control dircuit     • for main current circuit     • of magnet coil     width of connection bar     diameter of holes	— at the side	10 mm
- forwards - upwards - 10 mm -	— downwards	10 mm
- upwards - downwards - downwa	<ul><li>for live parts</li></ul>	
- downwards - at the side 10 mm 10 mm  Connections/ Terminals  type of electrical connection • for main current circuit • at contactor for auxiliary contacts • of magnet coil width of connection bar thickness of connection bar thickness of connection bar diameter of holes 11 mm  number of holes 11 type of connectable conductor cross-sections • at AVMC cables for main contacts  • stranded • finely stranded without orce end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • at AWG cables for auxiliary contacts  - solid or stranded - solid or	— forwards	20 mm
Connections/ Terminals  type of electrical connection  • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • for auxiliary contacts • of magnet coil • defended terminals • spring-type terminals • spring-type terminals • defended terminals • spring-type terminals • defended terminals • of magnet coil • defended terminals • spring-type terminals • defended terminals • defended terminals • spring-type terminals • defended terminals • defended terminals • defended terminals • spring-type terminals • defended terminale terminals • defended terminals • defended terminals • defended	— upwards	10 mm
type of electrical connection  of for main current circuit  of rauxiliary and control circuit  of rauxiliary contacts  of mm  diameter of holes  11 mm  number of holes  11 mm  number of holes  11 type of connectable conductor cross-sections  of at AWG cables for main contacts  of and connectable conductor cross-section for main contacts  of auxiliary contacts	— downwards	10 mm
type of electrical connection  • for main current circuit  • at contactor for auxiliary and control circuit  • at contactor for auxiliary contacts  • of magnet coil  width of connection bar  thickness of connection bar  diameter of holes  1 thickness of connection bar  diameter of holes  1 the mumber of holes  1 type of connectable conductor cross-sections  • at AWG cables for main contacts  • solid or stranded  • finely stranded with core end processing  • finely stranded with core end processing  • finely stranded with core end processing  • finely stranded without core end processing  • finely stranded without core end processing  • finely stranded without core end processing  • for auxiliary contacts  • solid  AWG number as coded connectable conductor cross-section  • for auxiliary contacts  • solid or stranded  • finely stranded without core end processing  • for auxiliary contacts  • solid  2x (0.25 2.5 mm²  2x (0.25 2.5 mm²)  2x (0.25 2.5 m	— at the side	10 mm
of or main current circuit     of or auxiliary and control circuit     of or auxiliary and control circuit     of magnet coil     of magnet coil     width of connection bar     diameter of holes     number of holes     number of holes     onnectable conductor cross-sections     of at AWG cables for main contacts     ostranded     connectable conductor cross-section for main contacts     ostranded     connectable conductor cross-section for auxiliary contacts     ostranded     connectable conductor cross-section for auxiliary contacts     ostranded     on    connectable conductor cross-section for auxiliary contacts     ostranded     on    connectable conductor cross-sections     of inely stranded with out core end processing     of inely stranded without core end processing     of inely stranded with core conductor cross-sections     of or auxiliary contacts	Connections/ Terminals	
of rauxiliary and control circuit     of magnet coil     of magnet coil     width of connection bar     thickness of connection bar     thickness of connection bar     diameter of holes     number of holes     number of holes     variance of connectable conductor cross-sections     at AWG cables for main contacts     osolid or stranded     finely stranded with core end processing     of nauxiliary contacts     osolid or stranded     onnectable conductor cross-sections     osolid or stranded     finely stranded with core end processing     of nauxiliary contacts     osolid or stranded     osolid or stranded without core end processing     osolid or stranded     osolid or strander     osolid or strander     osolid or strander     osolid or stran	type of electrical connection	
at contactor for auxiliary contacts of magnet coil width of connection bar thickness of connection bar diameter of holes 11 mm number of holes 12 type of connectable conductor cross-sections at AWC cables for main contacts oscinated stranded connectable conductor cross-section for main contacts stranded connectable conductor cross-section for main contacts stranded connectable conductor cross-section for auxiliary contacts stranded stranded with core end processing finely stranded without core end processing stranded without core end processing finely stranded with core end processing stranded with core end processing stranded with core end processing stranded without core end processing stranded with core end proces	for main current circuit	Connection bar
of magnet coil     width of connection bar     thickness of connection bar     diameter of holes     number of holes     11 mm     number of holes     11 mm     number of holes     12 type of connectable conductor cross-sections     • at AWG cables for main contacts     • stranded     connectable conductor cross-section for main contacts     • stranded     connectable conductor cross-section for auxililary contacts     • solid or stranded     • finely stranded with core end processing     • finely stranded without core end processing     • for auxiliary contacts     — solid     — solid or stranded     — finely stranded with core end processing     • at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     • for auxiliary contacts  AWG number as coded connectable conductor cross section     • for auxiliary contacts  AWG number as coded connectable conductor cross section     • for auxiliary contacts  AWG number as coded connectable conductor cross section     • for auxiliary contacts  AWG number as coded connectable conductor cross section     • for auxiliary contacts  AWG number as coded connectable conductor cross section     • for auxiliary contacts  24 14  Safety related data  product function     • mirror contact according to IEC 60947-4-1     • positively driven operation according to IEC 60947-5-1  B10 value with high demand rate according to IEC 60947-5-1  B10 value with high demand rate according to IEC 60947-5-1  B10 value with high demand rate according to IEC 60947-5-1  B10 value with high demand rate according to IEC 60947-5-1  B10 value with high demand rate according to IEC 60947-60529  suitability for use     • safety-related switching OFF  Yes  Certificates/approvals	<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals
width of connection bar thickness of connection bar diameter of holes number of holes 11 mm  number of holes 2/0 500 kcmil	<ul> <li>at contactor for auxiliary contacts</li> </ul>	Spring-type terminals
thickness of connection bar diameter of holes 11 mm 11 mm 11 mm 120	of magnet coil	Spring-type terminals
diameter of holes  number of holes  type of connectable conductor cross-sections  • at AWG cables for main contacts  • stranded  connectable conductor cross-section for auxiliary contacts  • stranded  connectable conductor cross-section for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  • finely stranded without core end processing  • for auxiliary contacts  - solid  - solid or stranded  - solid or stranded  - finely stranded without core end processing  • for auxiliary contacts  - solid  - solid or stranded  - finely stranded without core end processing  - finely stranded stranded  - finely stranded without core end processing  - x (0.25 2.5 mm²)  2x (0.25 2.5 mm	width of connection bar	25 mm
number of holes  type of connectable conductor cross-sections  at AWG cables for main contacts  stranded  connectable conductor cross-section for main contacts  stranded  connectable conductor cross-section for auxiliary contacts  solid or stranded  connectable conductor cross-section for auxiliary contacts  solid or stranded definely stranded with core end processing finely stranded without core end processing  finely stranded without core end processing  for auxiliary contacts  solid  solid or stranded  finely stranded with core end processing  finely stranded with core end processing  finely stranded with core end processing  finely stranded without core end processing  finely strande	thickness of connection bar	6 mm
type of connectable conductor cross-sections	diameter of holes	11 mm
• at AWG cables for main contacts  connectable conductor cross-section for main contacts  • stranded  70 240 mm²  connectable conductor cross-section for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  • finely stranded without core end processing  • for auxiliary contacts  - solid  - solid or stranded  - finely stranded without core end processing  • for auxiliary contacts  - solid or stranded  - finely stranded with core end processing  - solid or stranded  - finely stranded with core end processing  - finely stranded with core end processing  - finely stranded without core end processing  - finely stranded with core end processing  - finely stranded with core end processing  - finely stranded with core end processing  - solid or stranded  - finely stranded with core end processing  - solid or strande  - soli	number of holes	1
connectable conductor cross-section for main contacts  • stranded  connectable conductor cross-section for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  • finely stranded without core end processing  • finely stranded without core end processing  • for auxiliary contacts  — solid  — solid or stranded — finely stranded with core end processing — solid or stranded — finely stranded with core end processing — at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section  • for auxiliary contacts  AWG number as coded connectable conductor cross section • for auxiliary contacts  24 14  Safety related data  product function • mirror contact according to IEC 60947-5-1  B10 value with high demand rate according to IEC 60947-5-1  B10 value with high demand rate according to IEC 60529  suitability for use • safety-related switching OFF  Yes  Certificates/ approvals	type of connectable conductor cross-sections	
contacts		2/0 500 kcmil
stranded     connectable conductor cross-section for auxiliary contacts     solid or stranded     finely stranded with core end processing     inely stranded without core end processing     inely stranded with core end processing     inely stranded with core end processing     inely stranded with core end processing     inely stranded without processing     inely stranded without core end processing     inely stranded without		
connectable conductor cross-section for auxiliary contacts  • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts  - solid - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section • for auxiliary contacts  AWG number as coded connectable conductor cross section • for auxiliary contacts  24 14  Safety related data  product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1  B10 value with high demand rate according to IEC 60947-5-1  B10 value with high demand rate according to IEC 60529  suitability for use • safety-related switching OFF  Yes  Certificates/ approvals		70 240 mm²
contacts  • solid or stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts  - solid - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - finely stranded without core end processing - at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section • for auxiliary contacts  24 14  Safety related data  product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1  B10 value with high demand rate according to IEC 60529  touch protection on the front according to IEC 60529  suitability for use • safety-related switching OFF  Yes  Certificates/ approvals		70 240 111111
• finely stranded with core end processing     • finely stranded without core end processing     • finely stranded without core end processing  type of connectable conductor cross-sections     • for auxiliary contacts     — solid     — solid or stranded     — solid or stranded     — finely stranded with core end processing     — finely stranded without core end processing     — finely stranded without core end processing     — finely stranded without core end processing     — at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     • for auxiliary contacts      **Sefety related data**  product function     • mirror contact according to IEC 60947-4-1     • positively driven operation according to IEC 60947-5-1  B10 value with high demand rate according to IEC 60529  touch protection on the front according to IEC 60529  touch protection on the front according to IEC 60529  suitability for use     • safety-related switching OFF  Yes  Certificates/ approvals	=	
• finely stranded without core end processing     type of connectable conductor cross-sections     • for auxiliary contacts	<ul> <li>solid or stranded</li> </ul>	0.25 2.5 mm²
type of connectable conductor cross-sections  • for auxiliary contacts  — solid — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing — of finely stranded without core end processing — finely stranded without core end processing — of finely stranded	<ul> <li>finely stranded with core end processing</li> </ul>	0.25 1.5 mm²
• for auxiliary contacts     — solid     — solid or stranded     — finely stranded with core end processing     — finely stranded without core end processing     — finely stranded without core end processing     — at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     • for auxiliary contacts  24 14  Safety related data  product function     • mirror contact according to IEC 60947-4-1     • positively driven operation according to IEC 60947-5-1  B10 value with high demand rate according to IEC 60947-5-1  B10 value with high demand rate according to IEC 60529  touch protection on the front according to IEC 60529  touch protection on the front according to IEC 60529  suitability for use     • safety-related switching OFF  Yes  Certificates/ approvals	<ul> <li>finely stranded without core end processing</li> </ul>	0.25 2.5 mm <sup>2</sup>
- solid - solid or stranded - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - finely stranded without core end processing - at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section - for auxiliary contacts  - for	type of connectable conductor cross-sections	
- solid or stranded - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section - for auxiliary contacts  24 14  Safety related data  product function - mirror contact according to IEC 60947-4-1 - positively driven operation according to IEC 60947-5-1  B10 value with high demand rate according to IEC 60947- 60529  touch protection on the front according to IEC 60529  touch protection on the front according to IEC 60529  touch protection on the front according to IEC 60529  suitability for use - safety-related switching OFF  Yes  Certificates/ approvals	<ul> <li>for auxiliary contacts</li> </ul>	
finely stranded with core end processing finely stranded without core end processing at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section for auxiliary contacts  Safety related data  product function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1  B10 value with high demand rate according to IEC 60529  touch protection on the front according to IEC 60529  safety-related switching OFF  Yes  1 000 000  IP00; IP20 with box terminal/cover  finger-safe, for vertical contact from the front with box terminal/cover  Yes  Yes  Certificates/ approvals	— solid	2x (0.25 2.5 mm²)
- finely stranded without core end processing  • at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section  • for auxiliary contacts  24 14  Safety related data  product function  • mirror contact according to IEC 60947-4-1  • positively driven operation according to IEC 60947-5-1  B10 value with high demand rate according to IEC 60529  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  safety-related switching OFF  Yes  Certificates/ approvals	<ul><li>— solid or stranded</li></ul>	2x (0,25 2,5 mm²)
at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     • for auxiliary contacts  24 14  Safety related data  product function     • mirror contact according to IEC 60947-4-1     • positively driven operation according to IEC 60947-5-1  B10 value with high demand rate according to SN 31920  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  touch protection on the front according to IEC 60529  suitability for use     • safety-related switching OFF  Yes  Certificates/ approvals	<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.25 1.5 mm²)
AWG number as coded connectable conductor cross section  • for auxiliary contacts  24 14  Safety related data  product function  • mirror contact according to IEC 60947-4-1  • positively driven operation according to IEC 60947-5-1  B10 value with high demand rate according to SN 31920  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  touch protection on the front according to IEC 60529  safety-related switching OFF  Yes  Certificates/ approvals	<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.25 2.5 mm²)
section	at AWG cables for auxiliary contacts	2x (24 14)
product function		
product function	for auxiliary contacts	24 14
product function	Safety related data	
positively driven operation according to IEC 60947- 5-1  B10 value with high demand rate according to SN 31920  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  touch protection on the front according to IEC 60529  suitability for use     safety-related switching OFF  Yes  Certificates/ approvals	product function	
5-1  B10 value with high demand rate according to SN 31920  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  suitability for use • safety-related switching OFF  Yes  Certificates/ approvals	<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes
protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529 suitability for use • safety-related switching OFF  Certificates/ approvals  IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover  Yes		No
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover suitability for use  • safety-related switching OFF  Yes  Certificates/ approvals	B10 value with high demand rate according to SN 31920	1 000 000
suitability for use  • safety-related switching OFF  Yes  Certificates/ approvals		IP00; IP20 with box terminal/cover
safety-related switching OFF     Yes  Certificates/ approvals	touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover
Certificates/ approvals		
	safety-related switching OFF	Yes
General Product Approval	Certificates/ approvals	
	General Product Approval	



Confirmation





<u>KC</u>



EMC

Functional Safety/Safety of Machinery

## **Declaration of Conformity**

**Test Certificates** 



Type Examination
Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping

other











**Miscellaneous** 

other

Railway

Confirmation

Confirmation

**Miscellaneous** 

**Special Test Certific-**

ate

## **Further information**

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=3RT1064-2NF36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1064-2NF36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1064-2NF36

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

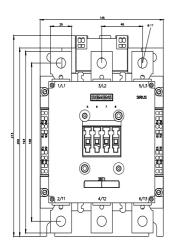
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1064-2NF36&lang=en

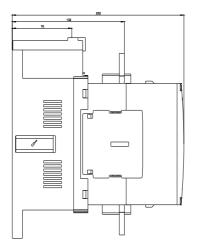
Characteristic: Tripping characteristics, I2t, Let-through current

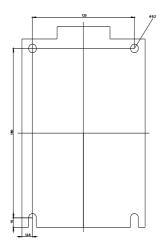
https://support.industry.siemens.com/cs/ww/en/ps/3RT1064-2NF36/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1064-2NF36&objecttype=14&gridview=view1







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