## SIEMENS

## Data sheet

## 3RT1076-6NP36



power contactor, AC-3 500 A, 250 kW / 400 V AC (50-60 Hz) / DC 200-277 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S12 busbar connections drive: electronic with PLC interface 24 V DC screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S12
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>	165 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	55 W
<ul> <li>without load current share typical</li> </ul>	3.6 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)	
<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)	05/01/2012
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

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	
at AC-3 rated value maximum	1 000 V
at AC-3e rated value maximum	1 000 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C	610 A
rated value	
● at AC-1	
— up to 690 V at ambient temperature 40 °C	610 A
rated value	
— up to 690 V at ambient temperature 60 °C	550 A
rated value	
<ul> <li>— up to 1000 V at ambient temperature 40 °C</li> </ul>	200 A
rated value	
— up to 1000 V at ambient temperature 60 °C	200 A
rated value	
• at AC-3	
— at 400 V rated value	500 A
— at 500 V rated value	500 A
— at 690 V rated value	450 A
— at 1000 V rated value	180 A
• at AC-3e	
— at 400 V rated value	500 A
— at 500 V rated value	500 A
— at 690 V rated value	450 A
— at 1000 V rated value	180 A
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	430 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	536 A
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	415 A
● at AC-6a	
— up to 230 V for current peak value n=20 rated	414 A
value	
— up to 400 V for current peak value n=20 rated	414 A
value	
— up to 500 V for current peak value n=20 rated	414 A
value	
— up to 690 V for current peak value n=20 rated	414 A
value	
— up to 1000 V for current peak value n=20 rated	180 A
value	
• at AC-6a	070 4
<ul> <li>— up to 230 V for current peak value n=30 rated value</li> </ul>	276 A
	276 A
<ul> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>	210 A
— up to 500 V for current peak value n=30 rated	276 A
value	
— up to 690 V for current peak value n=30 rated	276 A
value	
— up to 1000 V for current peak value n=30 rated	180 A
value	
minimum cross-section in main circuit at maximum AC-1	370 mm²
rated value	
operational current for approx. 200000 operating	
cycles at AC-4	475 0
• at 400 V rated value	175 A
<ul> <li>at 690 V rated value</li> </ul>	150 A
operational current	

— at 24 V rated value	400 A
— at 110 V rated value	33 A
— at 220 V rated value	3.8 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.6 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	4 A
— at 600 V rated value	2 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	11 A
— at 600 V rated value	5.2 A
at 1 current path at DC-3 at DC-5	
— at 24 V rated value	400 A
— at 110 V rated value	3 A
- at 220 V rated value	0.6 A
— at 440 V rated value	0.18 A
— at 600 V rated value	0.125 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
- at 24 V rated value	400 A
— at 110 V rated value	400 A
— 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	400 A
— at 24 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
• at AC-3	400 1144
— at 230 V rated value	160 kW
— at 400 V rated value	250 kW
— at 500 V rated value	315 kW
— at 690 V rated value	400 kW
— at 1000 V rated value	250 kW
• at AC-3e	
— at 230 V rated value	160 kW
— at 400 V rated value	250 kW
— at 500 V rated value	315 kW
— at 690 V rated value	400 kW
— at 1000 V rated value	250 kW
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	98 kW
• at 690 V rated value	148 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	160 000 kVA
• up to 400 V for current peak value n=20 rated value	280 000 VA
• up to 500 V for current peak value n=20 rated value	350 000 VA
• up to 690 V for current peak value n=20 rated value	490 000 VA
<ul> <li>up to 1000 V for current peak value n=20 rated value</li> </ul>	310 000 VA
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	110 000 VA

<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	190 000 VA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	230 000 VA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	330 000 VA
<ul> <li>up to 1000 V for current peak value n=30 rated</li> </ul>	310 000 VA
value	
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>	7 484 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	7 484 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	5 978 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	3 765 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	2 887 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	1 000 1/h
• at DC	1 000 1/h
operating frequency	
• at AC-1 maximum	500 1/h
• at AC-2 maximum	170 1/h
• at AC-3 maximum	420 1/h
• at AC-3e maximum	420 1/h
• at AC-3e maximum	130 1/h
• at AC-4 maximum Control circuit/ Control	
type of voltage of the control supply voltage control supply voltage at AC	AC/DC
	200 277 \/
at 50 Hz rated value	200 277 V
at 60 Hz rated value	200 277 V
control supply voltage at DC <ul> <li>rated value</li> </ul>	200 277 V
type of PLC-control input according to IEC 60947-1	Type 2
consumed current at PLC-control input according to IEC 60947-1 maximum	20 mA
voltage at PLC-control input rated value	24 V
operating range factor of the voltage at PLC-control input	0.8 1.1
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	750 VA
• at 60 Hz	750 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	7 VA
• at 60 Hz	7 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.8
closing power of magnet coil at DC	800 W
holding power of magnet coil at DC	3.6 W
closing delay	
• at AC	60 90 ms
• at DC	60 90 ms
opening delay	

• at AC       80 100 ms         • at DC       80 100 ms         arcing time       10 15 ms         control version of the switch operating mechanism       PLC-IN or Standard A1 - A2 (adjustable)         Auxiliary circuit       Pumber of NC contacts for auxiliary contacts         number of NC contacts for auxiliary contacts       2         instantaneous contact       2         operational current at AC-12 maximum       10 A         operational current at AC-15       6 A         • at 230 V rated value       6 A         • at 300 V rated value       3 A         • at 690 V rated value       1 A         operational current at DC-12	
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<ul> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>0.9 A</li> </ul>	
• 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 1 faulty switching per 100 million (17 V, 1 mA)	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value 477 A	
at 600 V rated value     472 A	
yielded mechanical performance [hp]	
for 3-phase AC motor	
- at 200/208 V rated value 150 hp	
- at 220/230 V rated value 200 hp	
— at 575/600 V rated value 500 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: 630 A (690 V, 100 kA)	
	) A (415
for short-circuit protection of the auxiliary switch required     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	nting
fastening method screw fixing	
side-by-side mounting Yes	
height 214 mm	
width 160 mm	
depth 225 mm	
required spacing	
with side-by-side mounting	

- Upwards     10 mm       - downwards     10 mm       - downwards     00 mm       - for grounded parts     00 mm       - upwards     10 mm       - downwards     10 mm       - upwards     10 mm       - downwards     10 mm       - upwards     10 mm       - downwards     10 mm       - domectare/for mails     Screw-type terminals       - of auxiliary contacts     Screw-type terminals       - of mails     Screw-type terminals       - of auxiliary contacts     20	safety-related switching OFF Certificates/ approvals					
upwards     10 mm       downwards     00 mm       for grounded parts     00 mm       upwards     10 mm       upwards     10 mm       upwards     10 mm       downwards     25 mm       downwards     25 mm    <	safety-related switching OFF Certificates/ approvals					
	safety-related switching OFF	Yes				
- upwards     10 mm       - downwards     0 mm       - for grounded parts     0 mm       - for wards     20 mm       - upwards     10 mm       - upwards     10 mm       - upwards     10 mm       - downwards     10 mm       - downwards     10 mm       - downwards     10 mm       - downwards     10 mm       - upwards     10 mm       - upwards     10 mm       - upwards     10 mm       - downwards     20 mm       - downstor frauxillary	-	Ves				
upwards     10 mm       downwards     0 mm       for grounded parts     0 mm       for yourds     20 mm       upwards     10 mm       upwards     10 mm       upwards     10 mm       downwards     20 mm       downwards     5 mm <tr< td=""><td>touch protection on the front according to IEC 60529</td><td>finger-safe, for vertical contact from the front with box terminal/cover</td></tr<>	touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover				
upwards     10 mm       downwards     0 mm       for grounded parts     0 mm       for yourds     20 mm       upwards     10 mm       upwards     10 mm       upwards     10 mm       upwards     10 mm       downwards     20 mm       downwards     20 mm       downwards     20 mm	60529					
upwards     10 mm      downwards     0 mm      at the side     0 mm      forwards     20 mm      upwards     10 mm      at the side     10 mm      downwards     20 mm      downwards     50 mm      downwards     50 mm       diameter	B10 value with high demand rate according to SN 31920					
upwards     10 mm      downwards     0 mm	<ul> <li>positively driven operation according to IEC 60947-</li> </ul>					
		Vac				
- upwards     10 mm       - downwards     0 mm       - forwards     20 mm       - forwards     20 mm       - upwards     10 mm       - upwards     10 mm       - upwards     10 mm       - upwards     10 mm       - downwards     10 mm       - downwards     10 mm       - forwards     20 mm       - upwards     10 mm       - downwards     10 mm       - upwards     10 mm       - forwards     20 mm       - upwards     10 mm       - downwards     10 mm       - dor auxiliary contacts     Screw-	-	18 14				
- upwards       10 mm         - downwards       0 mm         - at the side       0 mm         • for grounded parts       0 mm         - forwards       20 mm         - upwards       10 mm         - downwards       10 mm         - downwards       10 mm         - downwards       10 mm         - forwards       20 mm         - downwards       10 mm         - forwards       20 mm         - upwards       10 mm         - downwards       Screw-type terminals         of magnet coil       Screw-type terminals         width of connection bar       28 mm         thickness of connection bar       20 500 kcmill <td< td=""><td></td><td></td></td<>						
- upwards     10 mm       - downwards     0 mm       - at the side     0 mm       - forwards     20 mm       - upwards     10 mm       - upwards     10 mm       - upwards     10 mm       - upwards     10 mm       - downwards     10 mm       - downwards     10 mm       - downwards     10 mm       - forwards     20 mm       - upwards     10 mm       - downwards     Screw-type terminals       with of connection bar     25 mm       e for auxiliary contacts     20 500 kcmil	· · · · · · · · · · · · · · · · · · ·	2x (20 16), 2x (18 14), 1x 12				
- upwards     10 mm       - downwards     0 mm       - at the side     0 mm       • for grounded parts     0 mm       - forwards     20 mm       - upwards     10 mm       - upwards     10 mm       - downwards     50 mm       • for auxiliary and control circuit     screw-type terminals       width of connection bar     25 mm       • for auxiliary and control circuit     Screw-type terminals						
- upwards     10 mm       - downwards     0 mm       - at the side     0 mm       • for grounded parts     0 mm       - forwards     20 mm       - upwards     10 mm       - upwards     10 mm       - at the side     10 mm       - downwards     10 mm       - downwards     10 mm       - downwards     10 mm       - forwards     20 mm       - downwards     10 mm       - forwards     20 mm       - downwards     10 mm       - downwards     Screw-type terminals       - of magnet coil     Screw-type terminals       - of magnet coil     Screw-type termi						
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-upwards       10 mm         - downwards       0 mm         - at the side       0 mm         • for grounded parts       0 mm         - forwards       20 mm         - upwards       10 mm         - at the side       10 mm         - at the side       10 mm         - downwards       10 mm         - downwards       10 mm         - downwards       10 mm         - forwards       10 mm         - forwards       10 mm         - downwards       10 mm         - downwards       10 mm         - downwards       10 mm         - downwards       10 mm         - at the side       10 mm         Connections/ Terminals       10 mm         connections/ Terminals       10 mm         et contactor for auxiliary contacts       Screw-type terminals         • of magnet coil       Screw-type terminals         width of connection bar       25 mm         thickness of connecton bar       6 mm         diameter of holes       1         type of connectable conductor cross-sections       20 500 kcmil         connectable conductor cross-section for main contacts       20 500 kcmil						
- 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         - at the side       10 mm         - downwards       10 mm         - at the side       10 mm         - downwards       10 mm         - forwards       20 mm         - forwards       20 mm         - downwards       10 mm         - forwards       20 mm         - upwards       10 mm         - at the side       50 mm         - for auxiliary and control circuit       screw-type terminals         - of magnet coil       Screw-type terminals						
- upwards       10 mm         - downwards       0 mm         - at the side       0 mm         - for grounded parts       0 mm         - forwards       20 mm         - upwards       10 mm         - at the side       10 mm         - downwards       10 mm         - forwards       20 mm         - forwards       20 mm         - downwards       10 mm         - forwards       20 mm         - forwards       20 mm         - downwards       10 mm         - downwards       10 mm         - downwards       10 mm         - at the side       10 mm         - downwards       10 mm         - at the side       10 mm         - downwards       10 mm         - at the side       10 mm         - at the side       10 mm         - ot the side       10 mm         - ot nauxiliary and control circuit <t< td=""><td></td><td>0.5 4 mm<sup>2</sup></td></t<>		0.5 4 mm <sup>2</sup>				
upwards10 mmdownwards10 mm						
- upwards       10 mm         - downwards       10 mm         - at the side       0 mm         • for grounded parts       0         - forwards       20 mm         - upwards       10 mm         - at the side       10 mm         - at the side       10 mm         - downwards       10 mm         - downwards       10 mm         - forwards       20 mm         - downwards       10 mm         - forwards       20 mm         - downwards       10 mm         - downwards       10 mm         - at the side       5 connection bar         • for auxiliary and control ci		70 240 mm²				
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- upwards       10 mm         - downwards       10 mm         - at the side       0 mm         • for grounded parts       0 mm         - forwards       20 mm         - upwards       10 mm         - at the side       10 mm         - at the side       10 mm         - downwards       10 mm         - downwards       10 mm         - for live parts       -         - forwards       20 mm         - upwards       10 mm         - downwards       10 mm         - of reauxiliary and control circuit       screw-type terminals         • of magnet coil       Screw-type terminals         • of m						
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- upwards10 mm- downwards0 mm- at the side0 mm• for grounded parts20 mm- forwards20 mm- upwards10 mm- at the side10 mm- at the side10 mm- downwards20 mm- forwards10 mm- at the side10 mm- downwards10 mm- forwards20 mm- forwards10 mm- downwards10 mm- forwards10 mm- upwards10 mm- upwards10 mm- at the side10 mm- at the side10 mm- downwards10 mm- formains10 mm	-					
- upwards10 mm- downwards10 mm- at the side0 mm- at the side0 mm• for grounded parts20 mm- forwards20 mm- upwards10 mm- at the side10 mm- at the side10 mm- downwards10 mm- for live parts forwards20 mm- upwards10 mm- at the side10 mm- forwards10 mm- forwards10 mm- upwards10 mm- at the side10 mm- at the side10 mm						
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upwards10 mm downwards10 mm at the side0 mm• for grounded parts forwards20 mm upwards10 mm at the side10 mm	<ul> <li>for live parts</li> </ul>					
	— downwards					
upwards     10 mm       downwards     10 mm       at the side     0 mm       • for grounded parts     20 mm	•					
— upwards     10 mm       — downwards     10 mm       — at the side     0 mm		20 mm				
— upwards     10 mm       — downwards     10 mm		0 mm				
— upwards 10 mm						
— forwards 20 mm		20 mm				

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Functional Safety/Safety of Machinery	Declaration of Con	formity	Test Certificates		Marine / Shipping
<u>Type Examination</u> <u>Certificate</u>	UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	ABS
Marine / Shipping				other	
Lloyd's Register us	PRS	KMRS	DNV-GL	<u>Confirmation</u>	<u>Miscellaneous</u>
other		Railway			
<u>Miscellaneous</u>	<u>Confirmation</u>	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=3RT1076-6NP36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1076-6NP36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-6NP36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1076-6NP36&lang=en

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-6NP36/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1076-6NP36&objecttype=14&gridview=view1

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