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	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	165 W
 at AC in hot operating state per pole 	55 W
 without load current share typical 	3.6 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
 of auxiliary circuit with degree of pollution 3 rated value 	500 V
surge voltage resistance	
 of main circuit rated value 	8 kV
 of auxiliary circuit rated value 	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
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	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	
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	
 — up to 1000 V at ambient temperature 40 °C 	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
 at AC-4 at 400 V rated value 	430 A
 at AC-5a up to 690 V rated value 	536 A
 at AC-5b up to 400 V rated value 	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
 — up to 230 V for current peak value n=30 rated value 	276 A
	276 A
 — up to 400 V for current peak value n=30 rated value 	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
 at 690 V rated value 	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
 with 2 current paths in series at DC-1 	
— 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
 with 3 current paths in series at DC-1 	
— 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
 with 2 current paths in series at DC-3 at DC-5 	
- 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	
 up to 230 V for current peak value n=20 rated value 	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
 up to 1000 V for current peak value n=20 rated value 	310 000 VA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	110 000 VA

 up to 400 V for current peak value n=30 rated value 	190 000 VA
 up to 500 V for current peak value n=30 rated value 	230 000 VA
 up to 690 V for current peak value n=30 rated value 	330 000 VA
 up to 1000 V for current peak value n=30 rated 	310 000 VA
value	
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	7 484 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	7 484 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	5 978 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	3 765 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	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 rated value 	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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 at 60 V rated value at 110 V rated value at 125 V rated value 0.9 A 	
 at 110 V rated value at 125 V rated value 0.9 A 	
• 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	 positively driven operation according to IEC 60947- 					
		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 mm²</td></t<>		0.5 4 mm ²				
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		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, I²t, 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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