SIEMENS

Data sheet

3RT1075-6NP36



power contactor, AC-3e/AC-3 400 A, 200 kW / 400 V AC (50-60 Hz) / DC Uc: 200-277 V PLC input 24 V DC 3-pole, auxiliary contacts 2 NO + 2 NC drive: electronic main circuit: busbar control and auxiliary circuit: 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 	105 W
 at AC in hot operating state per pole 	35 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 protective separation 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 (operating 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 %

Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
 at AC-3 rated value maximum 	1 000 V
 at AC-3e rated value maximum 	1 000 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	430 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	430 A
— up to 690 V at ambient temperature 60 °C rated value	400 A
— up to 1000 V at ambient temperature 40 °C rated value	200 A
— up to 1000 V at ambient temperature 60 °C rated value	200 A
• at AC-3	
— at 400 V rated value	400 A
— at 500 V rated value	400 A
— at 690 V rated value	400 A
— at 1000 V rated value	180 A
• at AC-3e	
— at 400 V rated value	400 A
— at 500 V rated value	400 A
— at 690 V rated value	400 A
— at 1000 V rated value	180 A
• at AC-4 at 400 V rated value	350 A
 at AC-5a up to 690 V rated value 	378 A
 at AC-5b up to 400 V rated value 	332 A
● at AC-6a	
— up to 230 V for current peak value n=20 rated value	395 A
 — up to 400 V for current peak value n=20 rated value 	395 A
— up to 500 V for current peak value n=20 rated value	395 A
— up to 690 V for current peak value n=20 rated value	395 A
 — up to 1000 V for current peak value n=20 rated value 	180 A
● at AC-6a	
 — up to 230 V for current peak value n=30 rated value 	264 A
 — up to 400 V for current peak value n=30 rated value 	264 A
 — up to 500 V for current peak value n=30 rated value 	264 A
 — up to 690 V for current peak value n=30 rated value 	264 A
 — up to 1000 V for current peak value n=30 rated value 	180 A
minimum cross-section in main circuit at maximum AC-1 rated value	300 mm ²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	150 A
• at 690 V rated value	135 A
operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	400 A
— at 60 V rated value	330 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 60 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 60 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 60 V rated value	11 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 60 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	
— at 24 V rated value	400 A
— at 60 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	
— at 230 V rated value	132 kW
— at 400 V rated value	200 kW
— at 500 V rated value	250 kW
— at 690 V rated value	400 kW
— at 1000 V rated value	250 kW
• at AC-3e	
— at 230 V rated value	132 kW
— at 400 V rated value	200 kW
— at 500 V rated value	250 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	85 kW
• at 690 V rated value	133 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	150 000 kVA
 up to 400 V for current peak value n=20 rated value 	270 000 VA
 up to 500 V for current peak value n=20 rated value 	340 000 VA
 up to 690 V for current peak value n=20 rated value 	470 000 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 	100 000 VA
 up to 400 V for current peak value n=30 rated value 	180 000 VA
 up to 500 V for current peak value n=30 rated value 	220 000 VA
 up to 690 V for current peak value n=30 rated value 	310 000 VA
 up to 1000 V for current peak value n=30 rated value 	310 000 VA
short-time withstand current in cold operating state up to	
40 °C	

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• Individ to S0 is switching at zero current maximum2505 A: Use minimum cross-section act. to AC-1 rated valuerol-carl switching frequency1000 1/h• # AC1000 1/h• # AC200 1/h </td <td> limited to 5 s switching at zero current maximum </td> <td>5 761 A; Use minimum cross-section acc. to AC-1 rated value</td>	 limited to 5 s switching at zero current maximum 	5 761 A; Use minimum cross-section acc. to AC-1 rated value		
• Initial 10 81 subtring at zero current movimum 2 088 A: Use minimum cross-section acc. to AC-1 rated value • in AC 1 000 1/h • in AC-3 maximum 200 1/h • in AC-4 maximum 200 277 V • in BO It relied value 200 277 V • in BO It relied value 200 277 V • in BO It relied value 0.8 • in BO It relied value	 limited to 10 s switching at zero current maximum 	4 143 A; Use minimum cross-section acc. to AC-1 rated value		
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• at AC1000 th• at BC1000 thoperating frequency000 th• At AC-1 maximum200 th• At AC-3 maximum200 th• At AC-3 maximum500 th• At AC-3 maximum500 th• At AC-4 maximum6.8• At AC-4 maximum6.8• At AC-4 maximum6.8• At AC-4 maximum6.8• At AC-4 maximum700 th• At AC-4 maximum700 th• At AC-4 maximum6.8• At AC-4 maximum700 th• At AC-4 maximum800 th• At AC-4 m	 limited to 60 s switching at zero current maximum 			
• al DC1000 thoperating frequency700 th• al AC-1 maximum200 th• Al AC-2 maximum500 th• Al AC-2 maximum500 th• al AC-4 maximum130 th• AltAC-2 maximum130 th• AltAC-2 maximum130 th• Control supply voltage at ACControl supply voltage at AC• altAC-4 maximum200 277 V• altBO travel value200 277 V• altBO travel value200 277 V• altBO travel value200 277 V• altBO travel value0.8• altBO travel value20• altBO travel value<	no-load switching frequency			
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Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 2				
number of NC contacts for auxiliary contacts instantaneous 2				
	number of NC contacts for auxiliary contacts instantaneous	2		
contact	number of NO contacts for auxiliary contacts instantaneous	2		

operational current at AC-12 maximum	10 A		
operational current at AC-15			
• at 230 V rated value	6 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	1 A		
• at 600 V rated value	0.15 A		
operational current at DC-13			
• 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	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	361 A		
at 600 V rated value	382 A		
yielded mechanical performance [hp]	0027		
• for 3-phase AC motor			
— at 200/208 V rated value	125 hp		
— at 220/230 V rated value	150 hp		
— at 460/480 V rated value	300 hp		
— at 575/600 V rated value	400 hp		
contact rating of auxiliary contacts according to UL	A600 / Q600		
Short-circuit protection	A0007 Q000		
design of the fuse link			
• for short-circuit protection of the main circuit	0,000,0,000,0,000,00		
— with type of coordination 1 required	gG: 630 A (690 V, 100 kA)		
— with type of assignment 2 required	gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 A (415 V, 50 kA)		
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)		
Installation/ mounting/ dimensions	ge. 1077 (000 v, 1107)		
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface		
mounting position	+/- 22.5° tiltable to the front and back		
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			
— forwards	20 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	0 mm		
for grounded parts			
— forwards	20 mm		
— upwards	10 mm		
— at the side	10 mm		
— downwards	10 mm		
• for live parts			

— forwards	20 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	10 mm			
Connections/ Terminals				
type of electrical connection				
for main current circuit	Connection bar			
 for auxiliary and control circuit 	screw-type terminals			
 at contactor for auxiliary contacts 	Screw-type terminals			
 of magnet coil 	Screw-type terminals			
width of connection bar	25 mm			
thickness of connection bar	6 mm			
diameter of holes	11 mm			
number of holes	1			
connectable conductor cross-section for main contacts				
stranded	70 240 mm²			
connectable conductor cross-section for auxiliary contacts				
 solid or stranded 	0.5 4 mm²			
 finely stranded with core end processing 	0.5 2.5 mm²			
type of connectable conductor cross-sections				
 for auxiliary contacts 				
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)			
— solid or stranded	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), max. 2x (0,75 4 mm ²)			
— finely stranded with core end processing	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)			
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 1x 12			
AWG number as coded connectable conductor cross section				
for auxiliary contacts	18 14			
Safety related data				
product function				
 mirror contact according to IEC 60947-4-1 	Yes			
 positively driven operation according to IEC 60947-5-1 	No			
B10 value with high demand rate according to SN 31920	1 000 000			
T1 value for proof test interval or service life according to IEC 61508	20 a			
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover			
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				
General Product Approval	EMC			
Confirmation CSA				
Functional Safety/Safety of Ma- chinery	Test Certificates Marine / Shipping			
Type Examination Cer- tificate UK CA CE -Konf.	Type Test Certific- ates/Test Report Special Test Certific- ate ABS			
Marine / Shipping	other			







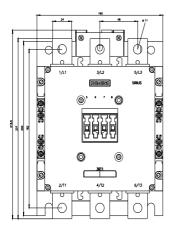


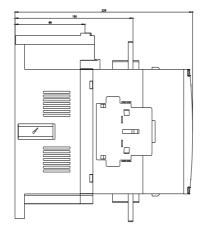
Confirmation

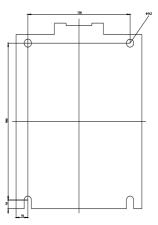
Miscellaneous

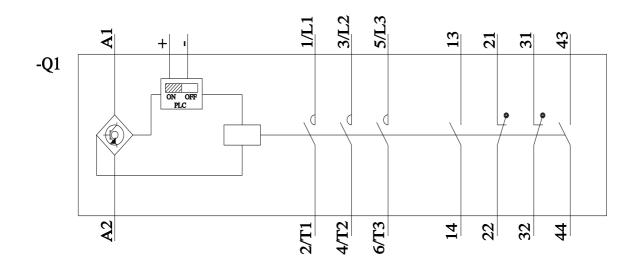
0.3	Ph3	KNIK3			
other		Railway			
Confirmation	<u>Miscellaneous</u>	Vibration and Shock	<u>Special Test Certific-</u> <u>ate</u>		
Further information					
	to exit the Russian mai	rket (see here). se/siemens-wind-down-rus	sian-business		
Please contact your loc				nd to import or offer to supply these products to an	
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		ion drawings, 3D models de.aspx?mlfb=3RT1075-6		ns, EPLAN macros,)	
	ng characteristics, I ² t, L siemens.com/cs/ww/en/r				
Further characteristic	Further characteristics (e.g. electrical endurance, switching frequency)				

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1075-6NP36&objecttype=14&gridview=view1









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2/10/2023 🖸