## SIEMENS

## Data sheet

## 3RT1066-6AF36-3PA0



power contactor, AC-3e/AC-3 300 A, 160 kW / 400 V, AC (50-60 Hz) / DC Uc: 110-127 V 3-pole, auxiliary contacts 2 NO + 2 NC permanently mounted drive: conventional 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	S10
product extension	
<ul> <li>function module for communication</li> </ul>	No
<ul> <li>auxiliary switch</li> </ul>	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	66 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	22 W
<ul> <li>without load current share typical</li> </ul>	7.4 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 (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-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 %

Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	1 000 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	1 000 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C</li> </ul>	330 A
rated value ● at AC-1	
up to 690 V at ambient temperature 40 °C	330 A
rated value	000 A
— up to 690 V at ambient temperature 60 °C	300 A
rated value	
— up to 1000 V at ambient temperature 40 °C	150 A
rated value	450 A
— up to 1000 V at ambient temperature 60 °C rated value	150 A
• at AC-3	
— at 400 V rated value	300 A
— at 500 V rated value	300 A
— at 690 V rated value	280 A
— at 1000 V rated value	95 A
• at AC-3e	
— at 400 V rated value	300 A
— at 500 V rated value	300 A
— at 1000 V rated value	95 A
• at AC-4 at 400 V rated value	280 A
• at AC-5a up to 690 V rated value	290 A
<ul> <li>at AC-5b up to 400 V rated value</li> <li>at AC-6a</li> </ul>	249 A
	292 A
<ul> <li>— up to 230 V for current peak value n=20 rated value</li> </ul>	292 A
— up to 400 V for current peak value n=20 rated	292 A
value	
<ul> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>	292 A
— up to 690 V for current peak value n=20 rated	280 A
value	2007
<ul> <li>— up to 1000 V for current peak value n=20 rated</li> </ul>	95 A
value	
• at AC-6a	405 A
<ul> <li>— up to 230 V for current peak value n=30 rated value</li> </ul>	195 A
— up to 400 V for current peak value n=30 rated	195 A
value	
<ul> <li>— up to 500 V for current peak value n=30 rated value</li> </ul>	195 A
— up to 690 V for current peak value n=30 rated	195 A
value	
<ul> <li>up to 1000 V for current peak value n=30 rated</li> </ul>	95 A
value minimum cross-section in main circuit at maximum AC-1	185 mm²
rated value	105 1111
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	125 A
• at 690 V rated value	115 A
operational current	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	33 A
- at 220 V rated value	3.8 A
— at 440 V rated value — at 600 V rated value	0.9 A 0.6 A
• with 2 current paths in series at DC-1	0.077

Ι

— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	4 A
— at 600 V rated value	2 A
• with 3 current paths in series at DC-1	21
-	200 4
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	11 A
— at 600 V rated value	5.2 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	300 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
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.03 A 0.37 A
	0.37 A
with 3 current paths in series at DC-3 at DC-5	200 4
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
<ul> <li>at AC-2 at 400 V rated value</li> </ul>	160 kW
• at AC-3	
— at 230 V rated value	90 kW
— at 400 V rated value	160 kW
— at 500 V rated value	200 kW
— at 690 V rated value	250 kW
— at 1000 V rated value	132 kW
• at AC-3e	
— at 230 V rated value	90 kW
— at 400 V rated value	160 kW
— at 500 V rated value	200 kW
— at 1000 V rated value	132 kW
operating power for approx. 200000 operating cycles	
at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	71 kW
<ul> <li>at 690 V rated value</li> </ul>	112 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	110 000 kVA
• up to 400 V for current peak value n=20 rated value	200 000 VA
• up to 500 V for current peak value n=20 rated value	250 000 VA
• up to 690 V for current peak value n=20 rated value	330 000 VA
• up to 1000 V for current peak value n=20 rated	160 000 VA
value	100 000 VA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	70 000 VA
• up to 400 V for current peak value n=30 rated value	130 000 VA
• up to 500 V for current peak value n=30 rated value	160 000 VA
• up to 690 V for current peak value n=30 rated value	230 000 VA
• up to 1000 V for current peak value n=30 rated	160 000 VA
value	100 000 VA

up to 40 °C	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	5 524 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	4 579 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	3 153 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	1 883 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	1 445 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	2 000 1/h
● at DC	2 000 1/h
operating frequency	
<ul> <li>at AC-1 maximum</li> </ul>	750 1/h
<ul> <li>at AC-2 maximum</li> </ul>	250 1/h
<ul> <li>at AC-3 maximum</li> </ul>	500 1/h
<ul> <li>at AC-3e maximum</li> </ul>	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	
<ul> <li>at 50 Hz rated value</li> </ul>	110 127 V
• at 60 Hz rated value	110 127 V
control supply voltage at DC	
• rated value	110 127 V
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	500.1/4
• at 50 Hz	590 VA
• at 60 Hz	590 VA
inductive power factor with closing power of the coil	0.0
● at 50 Hz ● at 60 Hz	0.9 0.9
	0.9
apparent holding power of magnet coil at AC • at 50 Hz	6.7 VA
• at 60 Hz	6.7 VA
inductive power factor with the holding power of the	
coil	
• at 50 Hz	0.9
• at 60 Hz	0.9
closing power of magnet coil at DC	650 W
holding power of magnet coil at DC	7.4 W
closing delay	
• at AC	30 95 ms
• at DC	30 95 ms
opening delay	40
• at AC	40 80 ms
• at DC	40 80 ms
arcing time control version of the switch operating mechanism	10 15 ms Standard A1 - A2
Auxiliary circuit	Stanuaru AT - Az
number of NC contacts for auxiliary contacts	2
instantaneous contact number of NO contacts for auxiliary contacts	2
instantaneous contact	2 10 A
operational current at AC-12 maximum	IU 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

<ul> <li>at 690 V rated value</li> </ul>	1 A
operational current at DC-12	
<ul> <li>at 24 V rated value</li> </ul>	10 A
<ul> <li>at 48 V rated value</li> </ul>	6 A
<ul> <li>at 60 V rated value</li> </ul>	6 A
<ul> <li>at 110 V rated value</li> </ul>	3 A
at 125 V rated value	2 A
at 220 V rated value	1A
at 600 V rated value	0.15 A
operational current at DC-13	0.13 A
at 24 V rated value	10 A
at 48 V rated value	
	2 A 2 A
at 60 V rated value	2 A
at 110 V rated value	1 A
• at 125 V rated value	0.9 A
<ul> <li>at 220 V rated value</li> </ul>	0.3 A
<ul> <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	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	302 A
at 600 V rated value	289 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	
- at 200/208 V rated value	100 hp
— at 220/200 V rated value	
	125 hp
- at 460/480 V rated value	250 hp
— at 575/600 V rated value	300 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
<ul> <li>for short-circuit protection of the main circuit</li> <li>— with type of coordination 1 required</li> </ul>	gG: 500 A (690 V, 100 kA)
	gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415
- with type of coordination 1 required	
- with type of coordination 1 required	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415
<ul> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)
<ul> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch</li> </ul>	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)
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<ul> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch required</li> <li>Installation/ mounting/ dimensions</li> </ul>	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)
<ul> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch required</li> <li>Installation/ mounting/ dimensions</li> </ul>	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting
<ul> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch required</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> </ul>	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
<ul> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch required</li> <li>Installation/mounting/dimensions</li> <li>mounting position</li> <li>fastening method</li> <li>side-by-side mounting</li> </ul>	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing
<ul> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch required</li> </ul> Installation/ mounting/ dimensions mounting position fastening method	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes
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<ul> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch required</li> </ul> Installation/ mounting/ dimensions mounting position fastening method <ul> <li>side-by-side mounting</li> <li>height</li> <li>width</li> <li>depth</li> </ul>	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm
<ul> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch required</li> </ul> Installation/ mounting/ dimensions mounting position fastening method <ul> <li>side-by-side mounting</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing</li> </ul>	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm
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Miscellaneous	-		(APPA)		-#7760 .		
Test Certificates	Marine / Shipping						
RCM	<u>Type Examination</u> <u>Certificate</u>	UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>		
EMC	Functional Safety/Safety of Machinery	Declaration o	of Conformity	Test Certificates			
() E	<u>Confirmation</u>			<u>KC</u>	EHC		
General Product App	roval						
safety-related sw Certificates/ approvals			Yes				
touch protection on th suitability for use	-		finger-safe, for vertical con				
protection class IP on 60529 touch protection on th	-		IP00; IP20 with box termin		oox terminal/cover		
B10 value with high der T1 value for proof test i IEC 61508	B10 value with high demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508		1 000 000 20 a				
	cording to IEC 60947- operation according to		Yes No				
Safety related data							
• for auxiliary conta			18 14				
at AWG cables for AWG number as code	or auxiliary contacts	-	2x (20 16), 2x (18 14)	· · ·			
— solid or strar	nded ed with core end proc	essina	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0. 2x (0.5 1,5 mm <sup>2</sup> ), 2x (0, 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.	75 2,5 mm²), max. 2x			
<ul> <li>for auxiliary conta — solid</li> </ul>	acts		2x (0.5 1.5 mm²), 2x (0. <sup>-</sup>	75 2.5 mm²) may 2v	$(0.75 - 4 \text{ mm}^2)$		
type of connectable c		-	0.5 2.5 mm²				
connectable conducto contacts • solid or stranded		-	0.5 4 mm²				
connectable conducto contacts • stranded connectable conducto			70 240 mm²				
number of holes			1				
thickness of connecti diameter of holes	on bar		6 mm 11 mm				
width of connection b	ar		25 mm				
<ul> <li>at contactor for a</li> <li>of magnet coil</li> </ul>	uxiliary contacts		Screw-type terminals Screw-type terminals				
<ul> <li>for main current of</li> <li>for auxiliary and of</li> </ul>	control circuit		Connection bar screw-type terminals				

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other				Railway
Confirmation	<u>Miscellaneous</u>	Confirmation	<u>Miscellaneous</u>	<u>Special Test Certific-</u> ate

Furt	her	inf	orm	nati	on

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RT1066-6AF36-3PA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1066-6AF36-3PA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6AF36-3PA0

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

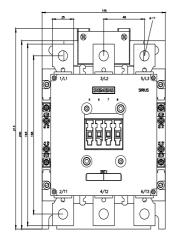
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1066-6AF36-3PA0&lang=en

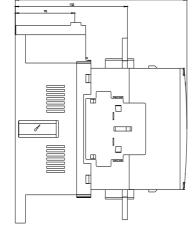
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

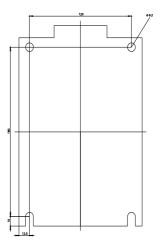
https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6AF36-3PA0/char

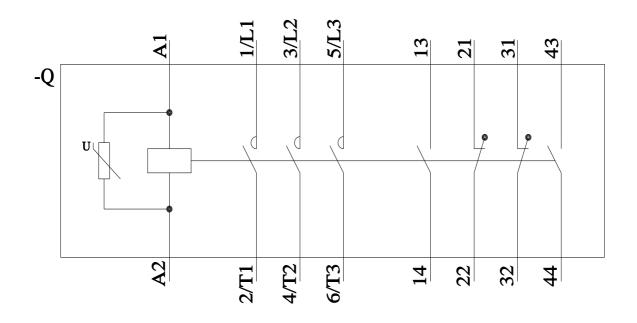
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1066-6AF36-3PA0&objecttype=14&gridview=view1









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2/10/2023 🖸