SIEMENS

Data sheet

3RT1066-6PP35



power contactor, AC-3e/AC-3 300 A, 160 kW / 400 V, AC (50-60 Hz) / DC Uc: 200-277 V PLC input 24 V DC 3-pole, auxiliary contacts 1 NO + 1 NC drive: electronic main circuit: busbar control and auxiliary circuit: screw terminal with remaining lifetime indicator

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S10
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	66 W
• at AC in hot operating state per pole	22 W
 without load current share typical 	3.4 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 (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	220.4
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	330 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C	330 A
rated value	
— 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	
— up to 1000 V at ambient temperature 60 °C	150 A
rated value	
• 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 at AC-3e 	95 A
• at AC-Se — at 400 V rated value	300 A
— at 500 V rated value	300 A
— at 690 V rated value	225 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
• at AC-5b up to 400 V rated value	249 A
● at AC-6a	
 up to 230 V for current peak value n=20 rated 	292 A
value	292 A
 — up to 400 V for current peak value n=20 rated value 	232 N
— up to 500 V for current peak value n=20 rated	292 A
value	
— up to 690 V for current peak value n=20 rated	280 A
value — up to 1000 V for current peak value n=20 rated	95 A
value	
● at AC-6a	
 up to 230 V for current peak value n=30 rated 	195 A
value	
 — up to 400 V for current peak value n=30 rated value 	195 A
— up to 500 V for current peak value n=30 rated	195 A
value	
— up to 690 V for current peak value n=30 rated	195 A
value up to 1000 V for current peak value n=30 rated	95 A
 — up to 1000 V for current peak value n=30 rated value 	30 A
minimum cross-section in main circuit at maximum AC-1	185 mm ²
rated value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	125 A
• at 690 V rated value	123 A 115 A
operational current	
• at 1 current path at DC-1	
— 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	0.9 A
— at 600 V rated value	0.6 A

Ι

 with 2 current paths in series at DC-1 	
— 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 	
— 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
at 1 current path at DC-3 at DC-5	200 4
— at 24 V rated value	300 A
— at 60 V rated value	11 A
— at 220 V rated value — at 440 V rated value	0.6 A 0.18 A
— at 600 V rated value	0.18 A 0.125 A
 with 2 current paths in series at DC-3 at DC-5 	0.125 A
- at 24 V rated value	300 A
— at 60 V rated value	300 A 300 A
— at 110 V rated value	300 A 300 A
— at 220 V rated value	2.5 A
— at 440 V rated value	2.5 A
— at 600 V rated value	0.37 A
• with 3 current paths in series at DC-3 at DC-5	0.01 / (
— 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	
• 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 690 V rated value	200 kW
— at 1000 V rated value	132 kW
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	71 kW
at 400 V rated value at 690 V rated value	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	
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

short-time withstand current in cold operating state			
up to 40 °C	5.524 A: Lise minimum cross spatian aga to AC 4 rated value		
 limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum 	5 524 A; Use minimum cross-section acc. to AC-1 rated value		
 Imited to 5's switching at zero current maximum Iimited to 10's switching at zero current maximum 	4 579 A; Use minimum cross-section acc. to AC-1 rated value		
5	3 153 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 30 s switching at zero current maximum 	1 883 A; Use minimum cross-section acc. to AC-1 rated value		
limited to 60 s switching at zero current maximum	1 445 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 	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	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	20 mA		
IEC 60947-1 maximum	201111		
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	8.5 VA		
• at 60 Hz	8.5 VA		
inductive power factor with the holding power of the			
coil	0.4		
• at 50 Hz	0.4		
• at 60 Hz	0.4		
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		
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	1		
instantaneous contact			
number of NO contacts for auxiliary contacts	1		

INSTALLADEOUS COLLACY					
instantaneous contact	10.4				
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 	1 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	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 220/230 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					
design of the fuse link					
 for short-circuit protection of the main circuit 	aC: 500 A (600 V/ 100 kA)				
 for short-circuit protection of the main circuit — with type of coordination 1 required 	gG: 500 A (690 V, 100 kA)				
 for short-circuit protection of the main circuit 	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415				
 for short-circuit protection of the main circuit — with type of coordination 1 required — 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)				
 for short-circuit protection of the main circuit — with type of coordination 1 required 	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415				
 for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch 	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)				
 for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required 	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)				
 for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the RLT relay output 	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)				
 for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the RLT relay output required 	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) miniature fuse: 4 A FF (230 V, Ik= 400 A)				
 for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the RLT relay output required Installation/ mounting/ dimensions 	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) miniature fuse: 4 A FF (230 V, Ik= 400 A)				
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 for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the RLT relay output required Installation/ mounting/ dimensions mounting position	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) miniature fuse: 4 A FF (230 V, Ik= 400 A) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes				
 for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the RLT relay output required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height 	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) miniature fuse: 4 A FF (230 V, Ik= 400 A) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing				
 for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the RLT relay output required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting 	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) miniature fuse: 4 A FF (230 V, Ik= 400 A) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes				
 for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the RLT relay output required Installation/mounting/ dimensions mounting position fastening method side-by-side mounting height width depth 	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) miniature fuse: 4 A FF (230 V, Ik= 400 A) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm				
 for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the RLT relay output required Installation/mounting/ dimensions mounting position side-by-side mounting height width depth required spacing 	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) miniature fuse: 4 A FF (230 V, Ik= 400 A) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 165 mm				
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 for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the RLT relay output required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting 	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) miniature fuse: 4 A FF (230 V, Ik= 400 A) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 165 mm 202 mm				
 for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the RLT relay output required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting forwards forwards forwards with side-by-side mounting forwards forwards forwards forwards forwards forwards forwards forwards	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) miniature fuse: 4 A FF (230 V, Ik= 400 A) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 165 mm 202 mm 20 mm				
 for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the RLT relay output required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height with side-by-side mounting equired spacing with side-by-side mounting forwards upwards 	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) miniature fuse: 4 A FF (230 V, Ik= 400 A) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 165 mm 202 mm 20 mm 10 mm				
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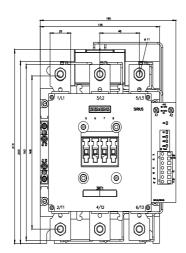
e for live porto						
 for live parts forwards 			20 mm			
— upwards			20 mm 10 mm			
— downward	c		10 mm 10 mm			
— at the side			10 mm			
Connections/ Termina						
type of electrical co		<u> </u>				
 for main current 			Connection bar			
			screw-type terminals			
-	 for auxiliary and control circuit at contactor for auxiliary contacts 		Screw-type terminals			
 of magnet coil 	advinary contacto		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 conduc contacts	ctor cross-section for	main				
 stranded 			70 240 mm²			
connectable conduc contacts	ctor cross-section for	auxiliary				
 solid or strande 	ed		0.5 4 mm²			
 finely stranded 	with core end processir	ng	0.5 2.5 mm ²			
	conductor cross-sect	tions				
 for auxiliary cor 	ntacts					
— solid			2x (0.5 1.5 mm²), 2x (0.			
— solid or str			2x (0,5 1,5 mm²), 2x (0,		0,75 4 mm²)	
	nded with core end proc	essing	2x (0.5 1.5 mm ²), 2x (0.			
	for auxiliary contacts		2x (20 16), 2x (18 14), 1x 12			
section	ded connectable cond	uctor cross				
 for auxiliary cor 	Itacts		18 14			
Safety related data						
product function	1. 1. 150 000 17		N/			
				Yes		
 positively driver 5-1 	n operation according to	DIEC 00947-	No			
	lemand rate according t	o SN 31920	1 000 000			
•	t interval or service life		20 a			
			IP00; IP20 with box terminal/cover			
60529						
	touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front with box terminal/cover		ox terminal/cover	
-	 suitability for use safety-related switching OFF 					
	-		Yes			
Certificates/ approval	S					
General Product Ap	oproval					
(1)	Confirmation	(m)	ŝ	<u>KC</u>	гпг	
V		<u>m</u>	W		FHI	
CSA		ccc	UL		P11P	
	Functional					
EMC	Safety/Safety of Machinery	Declaration o	f Conformity	Test Certificates		
^	Type Examination			Special Test Certific-	Type Test Certific-	
<i>κ</i> λ	Certificate	CE		ate	ates/Test Report	
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KG M		EG-KONT.				
Marine / Shipping					other	

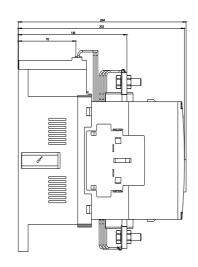
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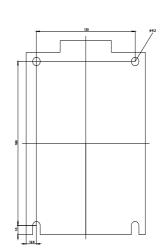


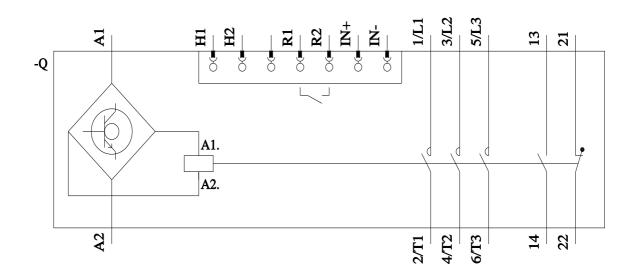
Further information
Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business
Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).
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=3RT1066-6PP35
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1066-6PP35
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6PP35
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1066-6PP35⟨=en
Characteristic: Tripping characteristics, I ² t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6PP35/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1066-6PP35&objecttype=14&gridview=view1









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