## SIEMENS

## Data sheet

## 3RW5073-6TB05



SIRIUS soft starter 200-600 V 250 A, 24 V AC/DC Screw terminals Thermistor input

product brand name	SIRIUS		
product category	Hybrid switching devices		
product designation	Soft starter		
product type designation	3RW50		
manufacturer's article number			
<ul> <li>of standard HMI module usable</li> </ul>	<u>3RW5980-0HS01</u>		
<ul> <li>of high feature HMI module usable</li> </ul>	<u>3RW5980-0HF00</u>		
<ul> <li>of communication module PROFINET standard usable</li> </ul>	<u>3RW5980-0CS00</u>		
<ul> <li>of communication module PROFIBUS usable</li> </ul>	<u>3RW5980-0CP00</u>		
<ul> <li>of communication module Modbus TCP usable</li> </ul>	<u>3RW5980-0CT00</u>		
<ul> <li>of communication module Modbus RTU usable</li> </ul>	<u>3RW5980-0CR00</u>		
<ul> <li>of communication module Ethernet/IP</li> </ul>	<u>3RW5980-0CE00</u>		
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3VA2440-7MN32-0AA0; Type of assignment 1, Iq = 65 kA		
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2440-7MN32-0AA0; Type of assignment 1, lq = 65 kA		
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	2x3NA3354-6; Type of coordination 1, Iq = 65 kA		
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE1 331-0; Type of coordination 2, Iq = 65 kA</u>		
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE3 335; Type of coordination 2, Iq = 65 kA</u>		
<ul> <li>of line contactor usable up to 480 V</li> </ul>	<u>3RT1065</u>		
<ul> <li>of line contactor usable up to 690 V</li> </ul>	<u>3RT1065</u>		
General technical data			
starting voltage [%]	30 100 %		
stopping voltage [%]	50 %; non-adjustable		
start-up ramp time of soft starter	0 20 s		
ramp-down time of soft starter	0 20 s		
current limiting value [%] adjustable	130 700 %		
accuracy class according to IEC 61557-12	5 %		
certificate of suitability			
CE marking	Yes		
<ul> <li>UL approval</li> </ul>	Yes		
CSA approval	Yes		
product component			
HMI-High Feature	No		
<ul> <li>is supported HMI-Standard</li> </ul>	Yes		
<ul> <li>is supported HMI-High Feature</li> </ul>	Yes		
product feature integrated bypass contact system	Yes		
number of controlled phases	2		
trip class	CLASS 10A / 10E (preset) / 20E; acc. to IEC 60947-4-2		

buffering time in the event of power failure			
for main current circuit	100 ms		
for control circuit	100 ms		
insulation voltage rated value	600 V		
degree of pollution	3, acc. to IEC 60947-4-2		
impulse voltage rated value	6 kV		
blocking voltage of the thyristor maximum	_ 1 600 V		
service factor	1		
surge voltage resistance rated value	6 kV		
maximum permissible voltage for safe isolation			
between main and auxiliary circuit	600 V		
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting		
vibration resistance	15 mm to 6 Hz; 2g to 500 Hz		
utilization category according to IEC 60947-4-2	AC-53a		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	09/23/2019		
product function			
<ul> <li>ramp-up (soft starting)</li> </ul>	Yes		
• ramp-down (soft stop)	Yes		
Soft Torque	Yes		
adjustable current limitation	Yes		
pump ramp down	Yes		
intrinsic device protection	Yes		
<ul> <li>motor overload protection</li> </ul>	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)		
<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick		
auto-RESET	Yes		
manual RESET	Yes		
remote reset	Yes; By turning off the control supply voltage		
<ul> <li>communication function</li> </ul>	Yes		
<ul> <li>operating measured value display</li> </ul>	Yes; Only in conjunction with special accessories		
• error logbook	Yes; Only in conjunction with special accessories		
<ul> <li>via software parameterizable</li> </ul>	No		
<ul> <li>via software configurable</li> </ul>	Yes		
PROFlenergy	Yes; in connection with the PROFINET Standard communication		
e voltago romo	module		
voltage ramp     terrue control	Yes		
<ul> <li>torque control</li> <li>analog output</li> </ul>	No		
Power Electronics	INU		
operational current			
at 40 °C rated value	250 A		
• at 50 °C rated value	220 A		
at 60 °C rated value	200 A		
operating voltage			
rated value	200 600 V		
relative negative tolerance of the operating voltage	-15 %		
relative positive tolerance of the operating voltage	10 %		
operating power for 3-phase motors			
<ul> <li>at 230 V at 40 °C rated value</li> </ul>	75 kW		
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	132 kW		
• at 500 V at 40 °C rated value	160 kW		
Operating frequency 1 rated value	50 Hz		
Operating frequency 2 rated value	60 Hz		
relative negative tolerance of the operating frequency	-10 %		
relative positive tolerance of the operating frequency	10 %		
adjustable motor current			
at rotary coding switch on switch position 1	100 A		
at rotary coding switch on switch position 2	110 A		
• at rotary coding switch on switch position 3	120 A		

<ul> <li>at rotary coding switch on switch position 4</li> </ul>	130 A			
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	140 A			
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	150 A			
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	160 A			
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	170 A			
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	180 A			
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	190 A			
	200 A			
<ul> <li>at rotary coding switch on switch position 11</li> </ul>				
at rotary coding switch on switch position 12	210 A			
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	220 A			
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	230 A			
<ul> <li>at rotary coding switch on switch position 15</li> </ul>	240 A			
<ul> <li>at rotary coding switch on switch position 16</li> </ul>	250 A			
• minimum	100 A			
minimum load [%]	15 %; Relative to smallest settable le			
power loss [W] for rated value of the current at AC				
<ul> <li>at 40 °C after startup</li> </ul>	23 W			
• at 50 °C after startup	18 W			
• at 60 °C after startup	15 W			
power loss [W] at AC at current limitation 350 %				
• at 40 °C during startup	2 454 W			
• at 50 °C during startup	2 043 W			
<b>o</b>				
at 60 °C during startup	1 786 W			
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor			
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>	24 V			
• at 60 Hz rated value	24 V			
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %			
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %			
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %			
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %			
control supply voltage frequency	50 60 Hz			
relative negative tolerance of the control supply voltage frequency	-10 %			
relative positive tolerance of the control supply voltage frequency	10 %			
control supply voltage				
at DC rated value	24 V			
relative negative tolerance of the control supply voltage at DC	-20 %			
relative positive tolerance of the control supply voltage at DC	20 %			
control supply current in standby mode rated value	160 mA			
holding current in bypass operation rated value	490 mA			
locked-rotor current at close of bypass contact maximum	7.6 A			
inrush current peak at application of control supply voltage maximum	3.3 A			
duration of inrush current peak at application of control supply voltage	12.1 ms			
design of the overvoltage protection	Varistor			
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply			
Inputs/ Outputs				
number of digital inputs	1			
number of digital outputs	3			

not parameterizable	2 2 permetty energy contacts (NO) / 1 changeouver contact (CO)		
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)		
number of analog outputs	0		
switching capacity current of the relay outputs			
<ul> <li>at AC-15 at 250 V rated value</li> </ul>	3 A		
at DC-13 at 24 V rated value	1 A		
Installation/ mounting/ dimensions			
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting		
	surface +/- 22.5° tiltable to the front and back		
fastening method	screw fixing		
height	230 mm		
width	160 mm		
depth	282 mm		
required spacing with side-by-side mounting			
<ul> <li>forwards</li> </ul>	10 mm		
backwards	0 mm		
upwards	100 mm		
downwards	75 mm		
• at the side	5 mm		
weight without packaging	7.3 kg		
Connections/ Terminals			
type of electrical connection			
for main current circuit	busbar connection		
for control circuit	screw-type terminals		
width of connection bar maximum	35 mm; with connection cover 3RT1966-4EA1 maximum length 45 mm		
wire length for thermistor connection			
• with conductor cross-section = 0.5 mm <sup>2</sup> maximum	50 m		
• with conductor cross-section = 1.5 mm <sup>2</sup> maximum	150 m		
• with conductor cross-section = 2.5 mm <sup>2</sup> maximum	250 m		
type of connectable conductor cross-sections	230 11		
for main contacts for box terminal using the front	95 300 mm²		
clamping point solid	35 500 mm		
<ul> <li>for main contacts for box terminal using the front clamping point finely stranded with core end processing</li> </ul>	70 240 mm²		
<ul> <li>for main contacts for box terminal using the front clamping point finely stranded without core end processing</li> </ul>	70 240 mm²		
<ul> <li>for main contacts for box terminal using the front clamping point stranded</li> </ul>	95 300 mm²		
<ul> <li>at AWG cables for main contacts for box terminal using the front clamping point</li> </ul>	3/0 600 kcmil		
<ul> <li>for main contacts for box terminal using the back clamping point solid</li> </ul>	120 240 mm²		
<ul> <li>at AWG cables for main contacts for box terminal using the back clamping point</li> </ul>	250 500 kcmil		
<ul> <li>for main contacts for box terminal using both clamping points solid</li> </ul>	min. 2x 70 mm², max. 2x 240 mm²		
<ul> <li>for main contacts for box terminal using both clamping points finely stranded with core end processing</li> </ul>	min. 2x 50 mm², max. 2x 185 mm²		
<ul> <li>for main contacts for box terminal using both clamping points finely stranded without core end processing</li> </ul>	min. 2x 50 mm², max. 2x 185 mm²		
<ul> <li>for main contacts for box terminal using both clamping points stranded</li> </ul>	min. 2x 70 mm², max. 2x 240 mm²		
<ul> <li>for main contacts for box terminal using the back clamping point finely stranded with core end processing</li> </ul>	120 185 mm²		
<ul> <li>for main contacts for box terminal using the back clamping point finely stranded without core end processing</li> </ul>	120 185 mm²		
<ul> <li>for main contacts for box terminal using the back clamping point stranded</li> </ul>	120 240 mm²		
type of connectable conductor cross-sections			

- of AMC coblec for main surrent size if colid			
at AWG cables for main current circuit solid	2/0 500 kcmil		
for DIN cable lug for main contacts stranded			
for DIN cable lug for main contacts finely stranded	70 240 mm²		
type of connectable conductor cross-sections	$1 \times (0.5 \pm 4.0 \text{ mm}^2) \times (0.5 \pm 2.5 \text{ mm}^2)$		
<ul> <li>for control circuit solid</li> </ul>	$1x (0.5 \dots 4.0 \text{ mm}^2), 2x (0.5 \dots 2.5 \text{ mm}^2)$ $1x (0.5 \dots 2.5 \text{ mm}^2), 2x (0.5 \dots 1.5 \text{ mm}^2)$		
<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)		
<ul> <li>at AWG cables for control circuit solid</li> </ul>	1x (20 12), 2x (20 14)		
wire length			
<ul> <li>between soft starter and motor maximum</li> </ul>	800 m		
<ul> <li>at the digital inputs at AC maximum</li> </ul>	1 000 m		
tightening torque			
<ul> <li>for main contacts with screw-type terminals</li> </ul>	14 24 N·m		
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m		
tightening torque [lbf·in]			
<ul> <li>for main contacts with screw-type terminals</li> </ul>	124 210 lbf·in		
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	7 10.3 lbf in		
terminals			
Ambient conditions			
installation altitude at height above sea level maximum	5 000 m; derating as of 1000 m, see Manual		
ambient temperature			
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above		
<ul> <li>during storage and transport</li> </ul>	-40 +80 °C		
environmental category			
during operation according to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6		
• during storage according to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4		
<ul> <li>during transport according to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
EMC emitted interference	acc. to IEC 60947-4-2: Class A		
Communication/ Protocol			
Communication/ Protocol	Yes		
Communication/ Protocol communication module is supported	Yes Yes		
Communication/ Protocol communication module is supported • PROFINET standard			
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP	Yes		
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU	Yes Yes		
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP	Yes Yes Yes		
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS	Yes Yes Yes		
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings	Yes Yes Yes		
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V according	Yes Yes Yes		
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V according to UL	Yes Yes Yes		
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V according to UL • of the fuse — usable for Standard Faults up to 575/600 V	Yes Yes Yes		
Communication/ Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings Manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V according to UL • of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V	Yes Yes Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA		
Communication / Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings Manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V according to UL • of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL	Yes Yes Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA Type: Class L, max. 800 A; lq = 18 kA		
Communication / Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V according to UL • of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL	Yes Yes Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA Type: Class L, max. 800 A; lq = 18 kA Type: Class L, max. 800 A; lq = 100 kA		
Communication / Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V according to UL • of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL • at 200/208 V at 50 °C rated value	Yes Yes Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA Type: Class L, max. 800 A; lq = 18 kA Type: Class L, max. 800 A; lq = 100 kA 60 hp		
Communication / Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V according to UL • of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for Japhase motors • at 200/208 V at 50 °C rated value • at 220/230 V at 50 °C rated value	Yes Yes Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA Type: Class L, max. 800 A; lq = 18 kA Type: Class L, max. 800 A; lq = 100 kA 60 hp 75 hp		
Communication / Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V according to UL • of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for J for 3-phase motors • at 200/208 V at 50 °C rated value • at 460/480 V at 50 °C rated value	Yes Yes Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA Type: Class L, max. 800 A; lq = 18 kA Type: Class L, max. 800 A; lq = 100 kA 60 hp 75 hp 150 hp		
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Communication / Protocol communication module is supported • PROFINET standard • EtherNet/IP • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for High Faults at 460/480 V according to UL • of the fuse — usable for Standard Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for High Faults up to 575/600 V according to UL — usable for Japhase motors • at 200/208 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 575/600 V at 50 °C rated value	Yes Yes Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA Type: Class L, max. 800 A; lq = 18 kA Type: Class L, max. 800 A; lq = 100 kA 60 hp 75 hp 150 hp 200 hp		
Communication Protocol communication module is supported PROFINET standard EtherNet/IP Modbus RTU Modbus TCP PROFIBUS UL/CSA ratings manufacturer's article number of circuit breaker - usable for High Faults at 460/480 V according to UL of the fuse - usable for Standard Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL 0perating power [hp] for 3-phase motors at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value at 575/600 V at 50 °C rated value Totection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 ATEX certificate of suitability	Yes Yes Yes Yes Siemens type: 3VA54, max. 600 A; lq max = 65 kA Type: Class L, max. 800 A; lq = 18 kA Type: Class L, max. 800 A; lq = 100 kA 60 hp 75 hp 150 hp 200 hp IP00; IP20 with cover finger-safe, for vertical contact from the front with cover		

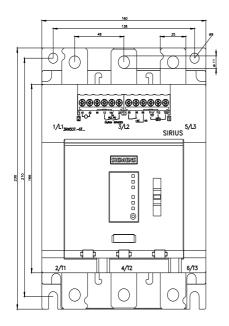
hardware fault toler relating to ATEX	ance according to IEC	61508	0		
PFDavg with low de relating to ATEX	mand rate according	to IEC 61508	0.09		
PFHD with high den relating to ATEX	nand rate according to	D EN 62061	9E-6 1/h		
Safety Integrity Lever relating to ATEX	el (SIL) according to I	EC 61508	SIL1		
	est interval or service 508 relating to ATEX	life	3 у		
Certificates/ approval	ls				
General Product Ap	oproval				For use in hazard- ous locations
	O a sefirma a tila se		-		
(SP)	<u>Confirmation</u>			EHC	IECEx
For use in hazard- ous locations	Declaration of Conformity	CCC Test Certifica	ttes Marine / Shipping	<b>ERC</b>	IECEx

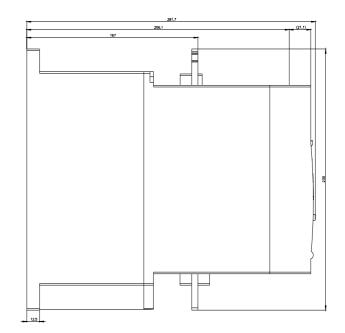
other

**Confirmation** 

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=3RW5073-6TB05
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5073-6TB05
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW5073-6TB05
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5073-6TB05⟨=en
Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5073-6TB05/char
Characteristic: Installation altitude
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5073-6TB05&objecttype=14&gridview=view1
Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917





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