HNC Electric

GM6

SPINDLE SERVO MOTOR

Version:V2.1

Contents

BY INDUSTRY

- CNC lathe, lathe-milling machine tool, vertical lathe, heavy horizontal lathe
- CNC milling machine, vertical machining center, horizontal machining center
- CNC boring machine, gantry planer, gantry milling machine
- CNC grinder, vertical grinder, floor boring and milling machine
- Drilling and tapping center, engraving and milling machine, gear hobbing machine, gear shaping machine, gear milling machine
- Electric vehicle field

FEATURE

- Brand new electromagnetic design scheme, tailor-made for the machine tool industry
- Equipped with high-precision encoder, higher positioning accuracy
- Brand new structure design, using closed heat dissipation channel, lower temperature rise
- High efficiency and energy saving
- The constant power range is wider and the low speed torque is greater
- Using a new manufacturing process, the performance is more stable

GM6 SERIES SPINDLE MOTOR MODEL NAMING RULES

GM6	204-235	C	G	D	I2-00B	0	00
1,2	3,4,5	6,7,8	9	10	11	12,13	14 15 16	17	18,19

Bit 1,2

Symbol	Specification
GM6	Medium speed asynchronous spindle series

Bit 6,7,8

Symbol	Specification
126	12.6N.m
150	15N.m
A00	100N.m
A18	118N.m
B00	200N.m
C00	300N.m

Bit 9

Symbol	Specification
A	500r/min
B	1000r/min
C	1500r/min
D	2000r/min
E	2500r/min
F	3000r/min

Bit 10

Symbol	Specification
F	220V
G	380V

Bit 12,13

Symbol	Specification
I2	2500ppr incremental
I4	2500ppr incremental (saving wires)
I5	1024ppr incremental

Bit 3,4,5

Symbol	Specification
165	165Flange
180	180Flange
204	204Flange
265	265Flange

Bit 11

Symbol	Specification
D	Tamagawa
N	NEMICON
C	YUHENG

Bit 16

Symbol	Specification
A	Smooth shaft
B	Shaft with key
C	Flat shaft
D	Conical shaft

Bit 14

Symbol	Specification
0	No brake
1	With brake

Bit 15

Symbol	Specification
0	Flange(B5)
1	Foot(B3)
2	Foot+Flange(B35)

Bit 17

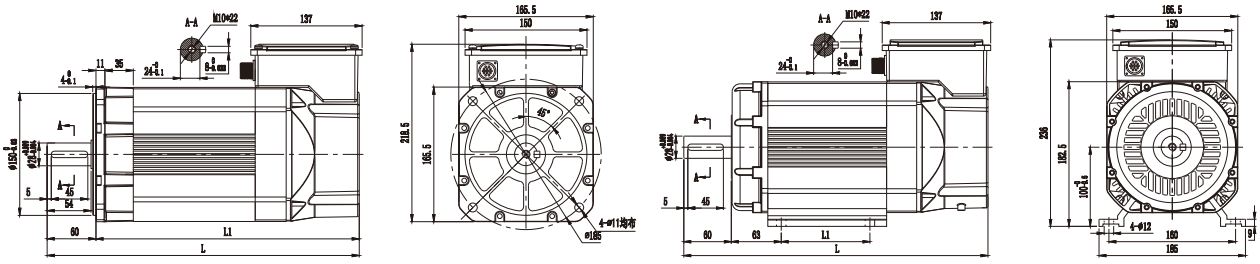
Symbol	Specification
0	No oil seal
1	With oil seal

Bit 18,19

Symbol	Specification
00	None
01	Design No. 01
02	Design No. 02
...	...

GM6165 SPINDLE SERVO MOTOR

DIMENSION:UNIT=MM



LENGTH	1.1kW	1.5kW	2.2kW	3.7kW
L1	274	294	324	379
L	334	354	384	439

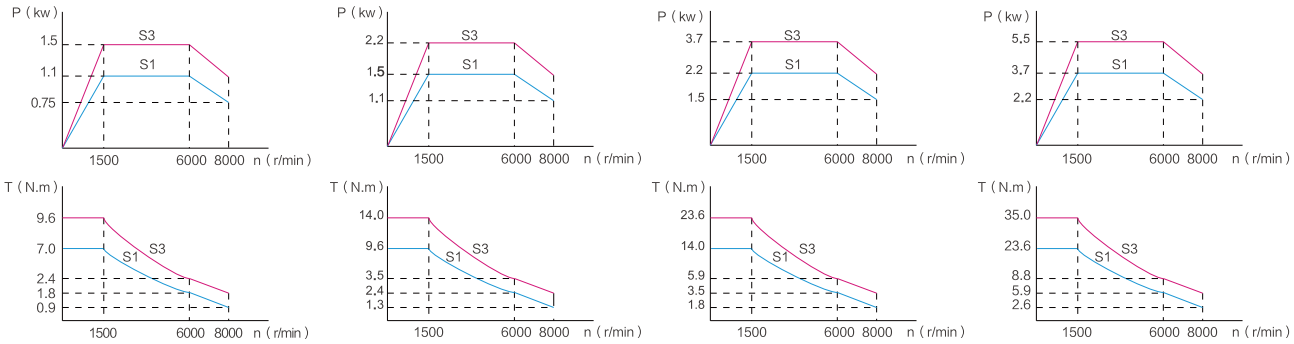
LENGTH	1.1kW	1.5kW	2.2kW	3.7kW
L1	45	70	112	159
L	334	354	384	439

SPECIFICATIONS

MOTOR TYPE	RATED POWER (KW)	RATED CURRENT (A)	RATED TORQUE (N.m)	POLES (P)	RATED FREQUENCY (HZ)	RATED SPEED (R/MIN)	CONSTANT POWER MAXIMUM SPEED (R/MIN)	MAXIMUM SPEED (R/MIN)	MOMENT OF INERTIA (KG.M²)	WEIGHT (KG)
GM6165-070CGDI4-01B000	1.1	2.6	7.0	4	52.5	1500	6000	8000	0.0058	14
GM6165-096CGDI4-01B000	1.5	3.4	9.6	4	52.5	1500	6000	8000	0.0066	16
GM6165-140CGDI4-01B000	2.2	4.9	14.0	4	52.5	1500	6000	8000	0.0078	22
GM6165-235CGDI4-01B000	3.7	7.8	23.5	4	52.5	1500	6000	8000	0.0108	30

CHARACTERISTIC CURVE

GM6165-070CGDI4-01B000 | GM6165-096CGDI4-01B000 | GM6165-140CGDI4-01B000 | GM6165-235CGDI4-01B000

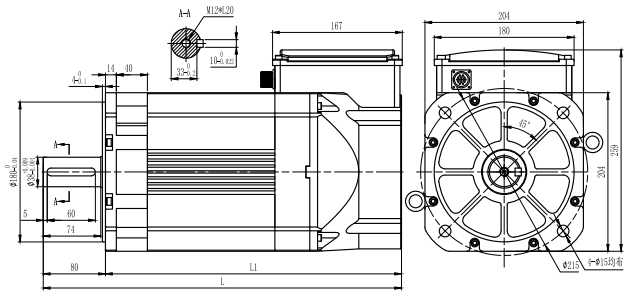


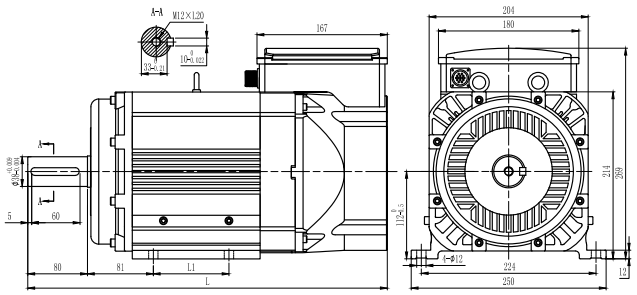
PERFORMANCE

NAME	ENCODER (OPTIONAL)	SHAFT EXTENSION STRUCTURE	MOUNTING	PROTECTION CLASS	INSULATION CLASS	VIBRATION CLASS	NOISE	AMBIENT TEMPERATURE	ENVIRONMENT HUMIDITY
INDEX	I2 2500ppr incremental	A: Smooth shaft	B3、B35、B5	IP55	F class	S	≤70dB	-15~45℃	≤95%RH
	I4 2500ppr incremental (saving wires)	B: Shaft with key							
	I5 1024ppr incremental								

GM6204 SPINDLE SERVO MOTOR

DIMENSION:UNIT=MM





LENGTH	3.7kW	5.5kW	7.5kW	9.5kW
L1	381	427	482	519
L	461	507	562	597

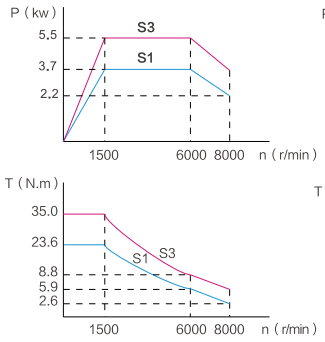
LENGTH	3.7kW	5.5kW	7.5kW	9.5kW
L1	73/97	128/153	178/208	208
L	465	511	566	601

SPECIFICATIONS

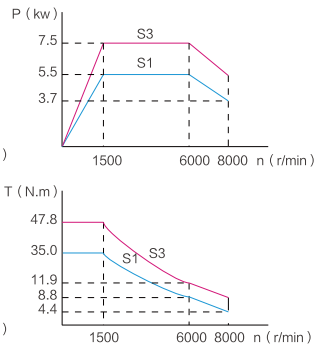
MOTOR TYPE	RATED POWER (KW)	RATED CURRENT (A)	RATED TORQUE (N.m)	POLES (P)	RATED FREQUENCY (HZ)	RATED SPEED (R/MIN)	CONSTANT POWER MAXIMUM SPEED (R/MIN)	MAXIMUM SPEED (R/MIN)	MOMENT OF INERTIA (KG.M²)	WEIGHT (KG)
GM6204-235CGDI4-00B000	3.7	9.1	23.5	4	51.5	1500	6000	8000	0.0162	34.6
GM6204-350CGDI4-00B000	5.5	13.0	35.0	4	51.5	1500	6000	8000	0.0210	43.6
GM6204-478CGDI4-00B000	7.5	17.8	47.8	4	51.5	1500	6000	8000	0.0267	54.4
GM6204-605CGDI4-00B000	9.5	23.8	60.5	4	51.5	1500	6000	8000	0.0304	61.2

CHARACTERISTIC CURVE

GM6204-235CGDI4-00B000



GM6204-350CGDI4-00B000



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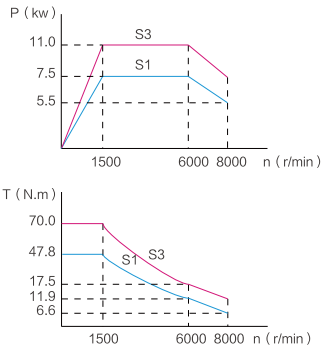
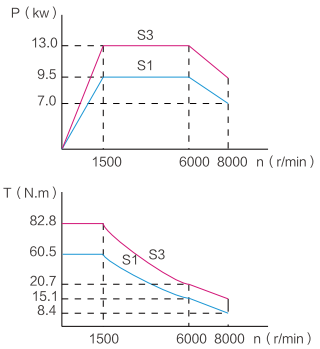


GM6204-605CGDI4-00B000

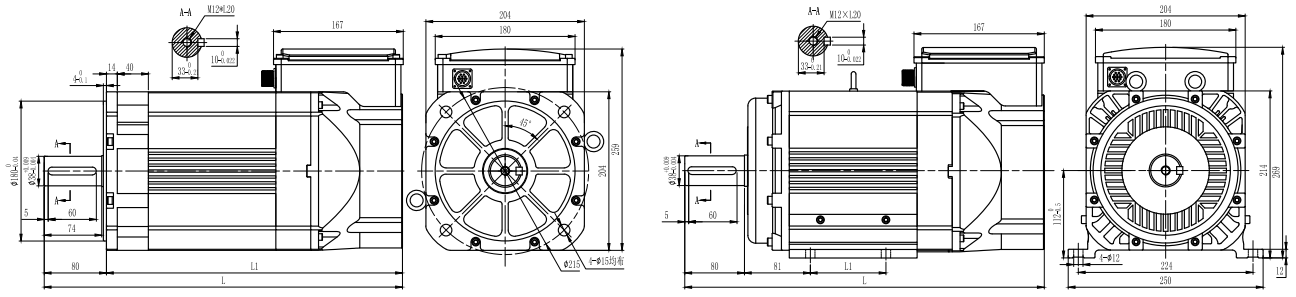


PERFORMANCE

NAME	ENCODER (OPTIONAL)	SHAFT EXTENSION STRUCTURE	MOUNTING	PROTECTION CLASS	INSULATION CLASS	VIBRATION CLASS	NOISE	AMBIENT TEMPERATURE	ENVIRONMENT HUMIDITY
INDEX	I2 2500ppr incremental	A: Smooth shaft	B3、B35、B5	IP55	F class	S	≤70dB	-15~45℃	≤95%RH
	I4 2500ppr incremental (saving wires)	B: Shaft with key							
	I5 1024ppr incremental								

GM6204 SPINDLE SERVO MOTOR(COMPACT TYPE)

DIMENSION:UNIT=MM



LENGTH	3.7kW	5.5kW	7.5kW
L1	357	402	452
L	437	482	532

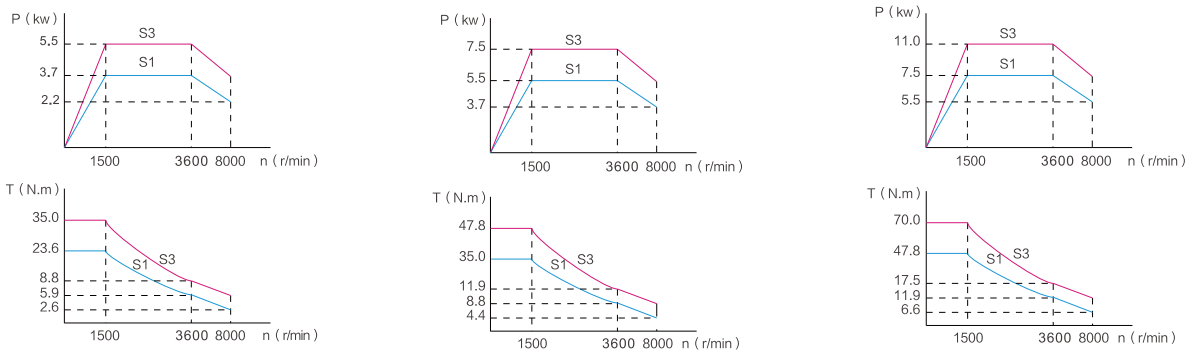
LENGTH	3.7kW	5.5kW	7.5kW
L1	73	128	178
L	441	486	536

SPECIFICATIONS

MOTOR TYPE	RATED POWER (KW)	RATED CURRENT (A)	RATED TORQUE (N.m)	POLES (P)	RATED FREQUENCY (HZ)	RATED SPEED (R/MIN)	CONSTANT POWER MAXIMUM SPEED (R/MIN)	MAXIMUM SPEED (R/MIN)	MOMENT OF INERTIA (KG.M²)	WEIGHT (KG)
GM6204-235CGDI4-00B001	3.7	8.9	23.5	4	51.5	1500	3600	8000	0.0134	29.7
GM6204-350CGDI4-00B001	5.5	13.5	35.0	4	51.5	1500	3600	8000	0.0186	38.7
GM6204-478CGDI4-00B001	7.5	17.1	47.8	4	51.5	1500	3600	8000	0.0233	49.5

CHARACTERISTIC CURVE

GM6204-235CGDI4-00B001 | GM6204-350CGDI4-00B001 | GM6204-478CGDI4-00B001

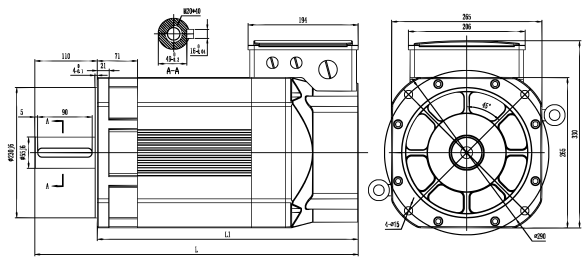


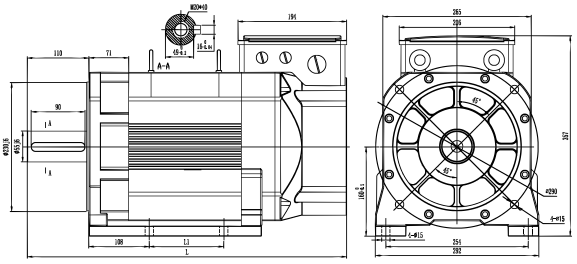
PERFORMANCE

NAME	ENCODER (OPTIONAL)	SHAFT EXTENSION STRUCTURE	MOUNTING	PROTECTION CLASS	INSULATION CLASS	VIBRATION CLASS	NOISE	AMBIENT TEMPERATURE	ENVIRONMENT HUMIDITY
INDEX	I2 2500ppr incremental I4 2500ppr incremental (saving wires) I5 1024ppr incremental	A: Smooth shaft B: Shaft with key	B3、B35、B5	IP55	F class	S	≤70dB	-15~45℃	≤95%RH

GM6265 SPINDLE SERVO MOTOR

DIMENSION:UNIT=MM





LENGTH	11kW	15kW	18.5kW	22kW	30kW
L1	460	510	565	610	680
L	570	620	675	720	790

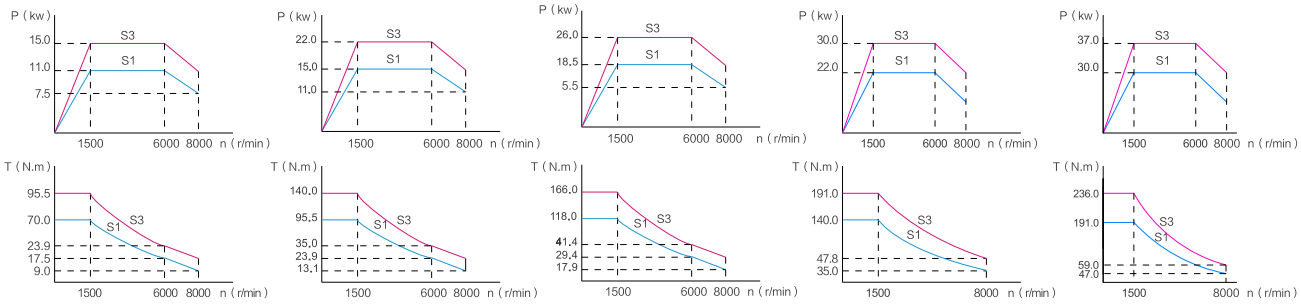
LENGTH	11kW	15kW	18.5kW	22kW	30kW
L1	133	173	218	243	243
L	570	620	675	720	790

SPECIFICATIONS

MOTOR TYPE	RATED POWER (KW)	RATED CURRENT (A)	RATED TORQUE (N.m)	POLES (P)	RATED FREQUENCY (HZ)	RATED SPEED (R/MIN)	CONSTANT POWER MAXIMUM SPEED (R/MIN)	MAXIMUM SPEED (R/MIN)	MOMENT OF INERTIA ($KG.M^2$)	WEIGHT (KG)
GM6265-700CGDI4-02B000	11	21.5	70	4	51.5	1500	6000	8000	0.0491	87
GM6265-960CGDI4-02B000	15	29.0	96	4	51.5	1500	6000	8000	0.0603	101
GM6265-A18CGDI4-02B000	18.5	35.2	118	4	51.5	1500	6000	8000	0.0715	137
GM6265-A40CGDI4-02B000	22	42.3	140	4	51.5	1500	6000	8000	0.0824	150
GM6265-A91CGDI4-02B000	30	51.0	191	4	51.5	1500	6000	8000	0.0930	163

CHARACTERISTIC CURVE

GM6265-700CGDI4-02B000	GM6265-960CGDI4-02B000	GM6265-A18CGDI4-02B000	GM6265-A40CGDI4-02B000	GM6265-A91CGDI4-02B000

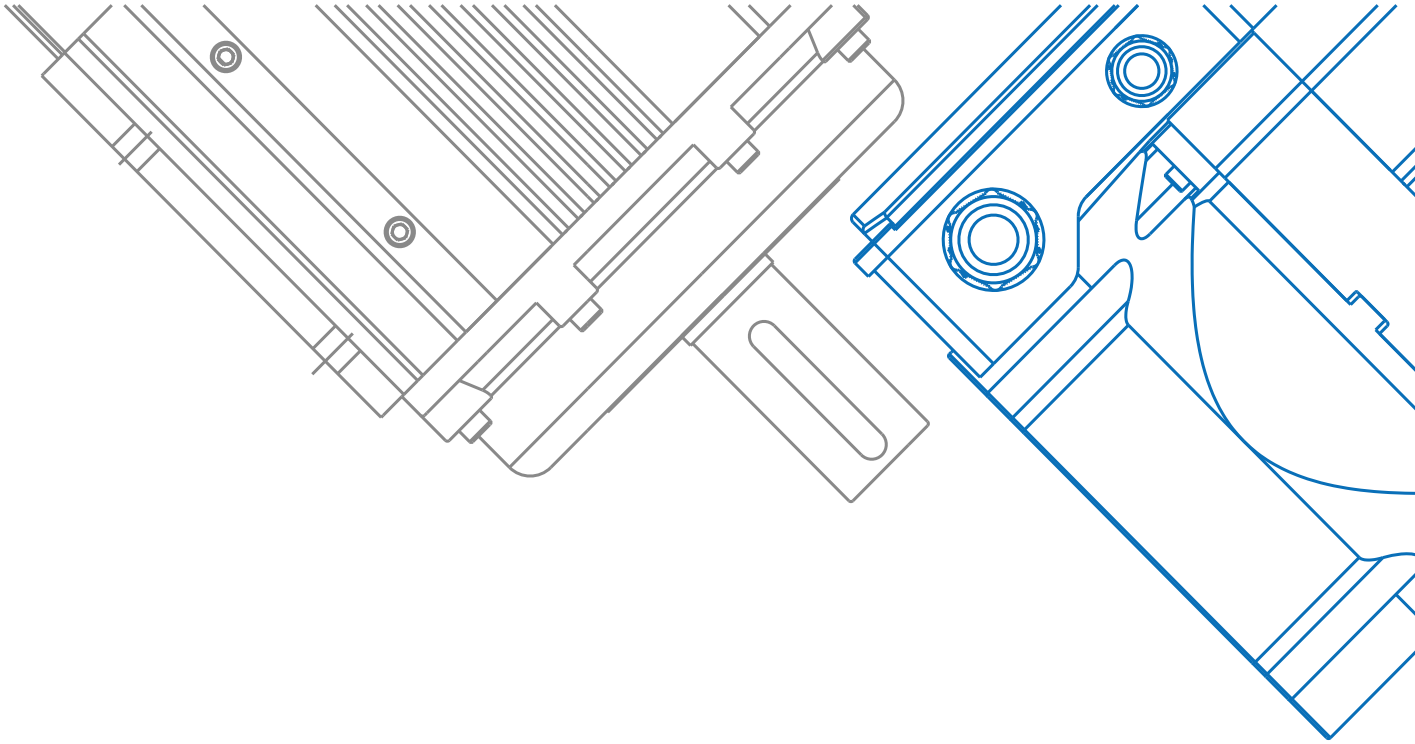


PERFORMANCE

NAME	ENCODER (OPTIONAL)	SHAFT EXTENSION STRUCTURE	MOUNTING	PROTECTION CLASS	INSULATION CLASS	VIBRATION CLASS	NOISE	AMBIENT TEMPERATURE	ENVIRONMENT HUMIDITY
INDEX	I2 2500ppr incremental	A: Smooth shaft	B3、B35、B5	IP55	F class	S	≤70dB	-15~45℃	≤95%RH
	I4 2500ppr incremental (saving wires)	B: Shaft with key							
	I5 1024ppr incremental								

HNC Electric

HNC ELECTRIC LIMITED is a company dedicated to the development and production of intelligent industrial automation solutions based on national strategic needs.
Supported by its outstanding electrical and electronic technology and strong control technology, it provides control, display, drive and system solutions and other related products and services to customers worldwide.
With 25 years of hard work, we have developed and produced professional CNC systems, industrial robots, servo drives, servo motors, reducers, inverters, PLCs, HMIs, etc.
In more than 50 countries and regions around the world, we have established a comprehensive agent system and after-sales service system. In the future, we will, as always, provide more professional services for global industrial automation.



HNC Electric

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Any technique support,please feel to contact our support team

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