

ABB BALDOR RELIANCE III

Customer information packet

AEM2333-4

15HP, 1760RPM, 3PH, 60HZ, 284U, 0944M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	284U
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UR CSA
Ambient Temperature	65 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	17.600 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	17.6 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	J
Type	AC
Mech. spec.	09F947
Base	
Status	PRD/A
Elec. spec.	09WZ997
Layout	09LYF947
Eff. date	11-14-2023
CD Diagram	CD0006
Poles	04
Leads	3#12
Proprietary	False
Created date	11-08-2016

KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 12 AWG
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	0944M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	26.33 IN
Power Factor	85
Product Family	Automotive (Not For DC)
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1760 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1404									
CAT.NO.	AEM2333-4								
SPEC.	09F947Z997G1								
VOLTS	460								
AMP	17.6								
RPM	1760		HP	15					
FRAME	284U	HZ	60		PH	3			
SER.F.	1.00	CODE	G	DES	B	CL	F		
NEMA-NOM-EFF	92.4	PF	85						
G.MIN.EFF	91	CC	010A						
RATING	65C AMB-CONT								
LUBRICATION	POLYREX EM								
DE	6311	ODE	6208						
ENCL	TEFC	SER. #							

Parts List

Part number	Description	Quantity
SA329837	SA 09F947Z997G1	1.000 ea
RA317787	RA 09F947Z997G1	1.000 ea
HW1002A63	WASHER, 5/8 HI-COLLAR SPRLCKWASHER	1.000 ea
WD1000B07	T&B C71, RING TERM 10-12 AWG, .25" STUD	3.000 ea
10CB1000A09P	KOBX, MACH W/1.50 NPT & PRIMER	1.000 ea
09GS1010	GASKET, DWG, LEADWIRE SEPERATOR	1.000 ea
10XN3118K16	5/16-18 X 1' GRADE #5, STL, ZINC PLATE	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 ea
10XN2520K06	1/4-20 X 3/8" HX HD SCREWGRADE 5, ZINC P	1.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	1.000 ea
HW4600B40	V-RING SLINGER 2.000 X 2.680 X .28 VITON	1.000 ea
09EP1100A14P	ENDPLATE, MACH W/EPOXY PRIMER	1.000 ea
HA3400A33	STUD- 3/8-16 X 4.96 HEX	4.000 ea
XY3816A12	3/8-16 FINISHED NUT W/SERRATIONS	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
HA1005A12	SLINGER, OD 2.50, ID 1.433, 208 BRG	1.000 ea
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 ea
10XN2520K28	1/4-20 X 1.75" HX HD SCRWGRADE 5, ZINC P	2.000 ea
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 ea
09EP1116A01P	PU ENDPLATE, MACH	1.000 ea
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 ea
09FH4000P	FAN COVER, STAMPED W/EPOXY PRIMER	1.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
10CB1503A01P	CONDUIT BOX LIPPED LID, MACH W/EPXY PRMR	1.000 ea
14GS1003	GASKET CONDUIT BOX LID, NEOP	1.000 ea
10XN2520K16	1/4-20 X 1" HX HD SCRW GRADE 5, ZINC P	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
HW2501G32	KEY, 3/8 SQ X 3.750	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.031 qt

MJ5002A01	SILICON RUBBER SEALANT, 732CL 10.3 OZ TU	0.050 ea
MJ5004A04	ADHESIVE LOCTITE 609	0.005 ea
MJ5001A14	DYNAPRO SEALANT, CP MTR VC#2508050 (603	0.001 ea
WD1000B07	T&B C71, RING TERM 10-12 AWG, .25" STUD	3.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	2.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.080 lb
HW4500A20	1/8NPT SL PIPE PLUG	3.000 ea
37FN3002B02	EXFN, PLASTIC, 7.50 OD, 1.503 ID	1.000 ea
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 ea
MG1025G02	WILKOFAS, 782.02, LIGHT GRAY	0.050 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0006	CONNECTION LABEL	1.000 ea
NP1404	SS UL CSA CC "AUTOMOTIVE"	1.000 ea
40PA1005	PACKAGING GROUP, 09 STD	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LD7020D03	LEAD SET, 12AWG, 3 LEAD, 20" LONG LEADS	1.000 ea

Accessories

Part number	Description	Multiplier
09-1310	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 60281

Typical performance - not guaranteed values

Winding: 09WGZ997-R044			Type: 0944M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		15	Full Load Torque		44.6 LB-FT	
Volts		460	Start Configuration		direct on line	
Full Load Amps		17.6	Breakdown Torque		163 LB-FT	
R.P.M.		1760	Pull-up Torque		53.3 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		73.2 LB-FT
NEMA Design Code		B	KVA Code		G	
Service Factor (S.F.)		1	Starting Current		108 A	
NEMA Nom. Eff.		92.4	Power Factor		85	
Rating - Duty		65C AMB-CONT		Temp. Rise @ Rated Load		50°C
				Locked-rotor Power Factor		32.6
				Rotor inertia		1.92 LB-FT2

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	52	73	84	86	87	88
Efficiency	89.4	92.6	93	92.5	91.4	90.3
Speed	1792	1783	1773	1763	1752	1739
Line amperes	7.44	10.3	13.5	17.6	22	26.6

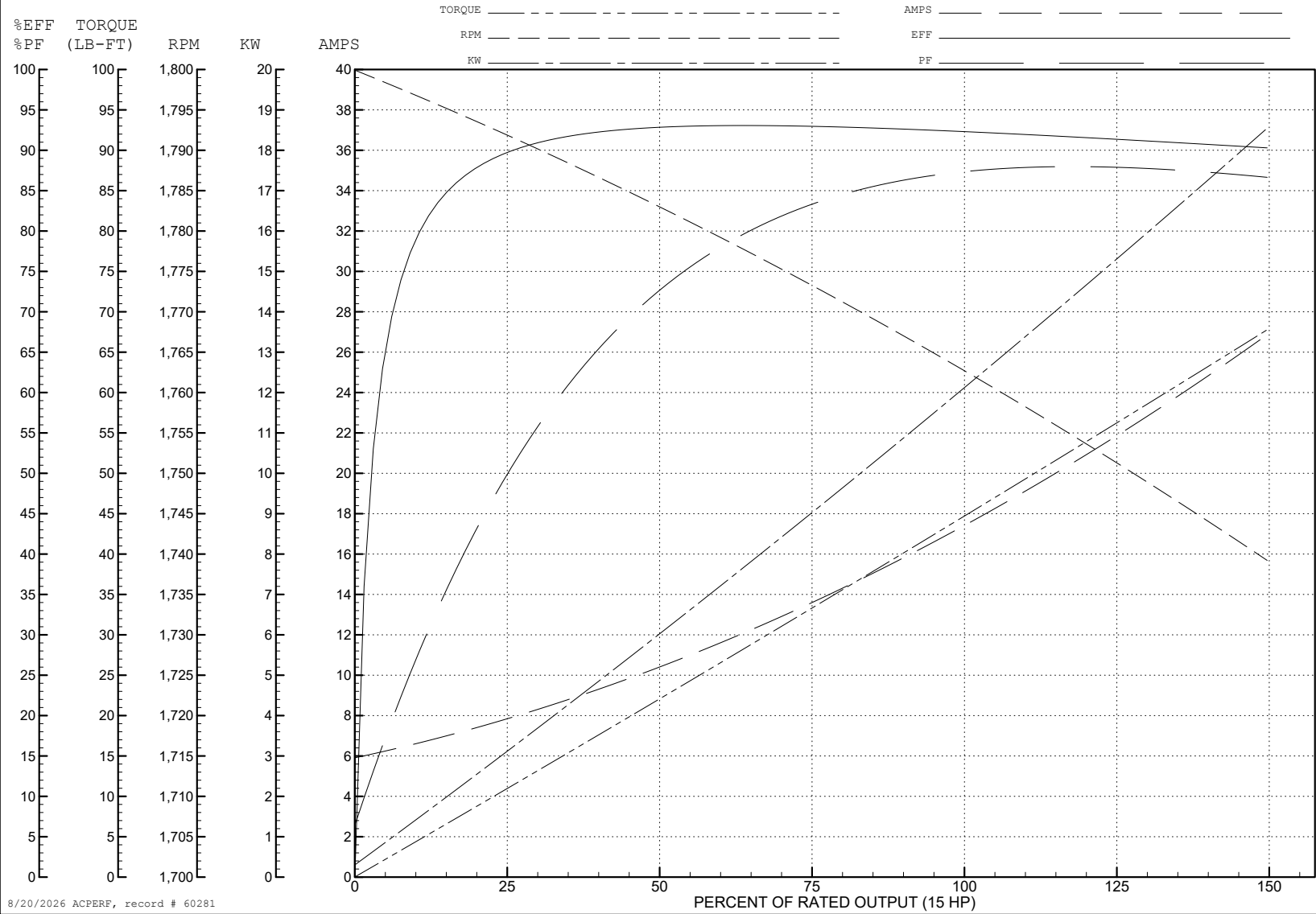
ABB Motors and Mechanical Inc.

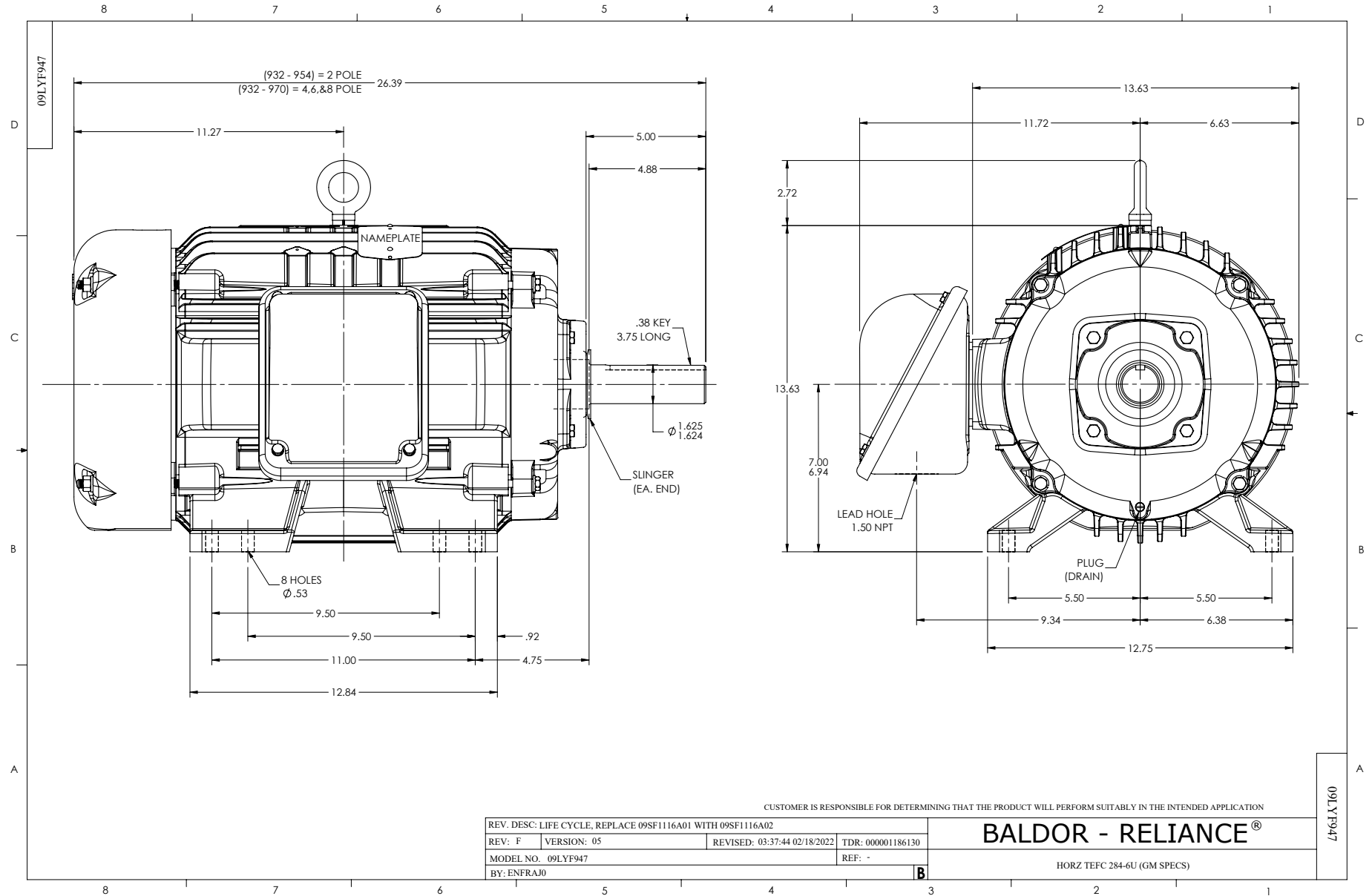
WINDING # 09WZ997

Typical performance - not guaranteed values.

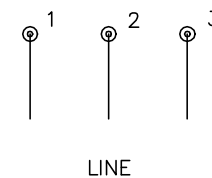
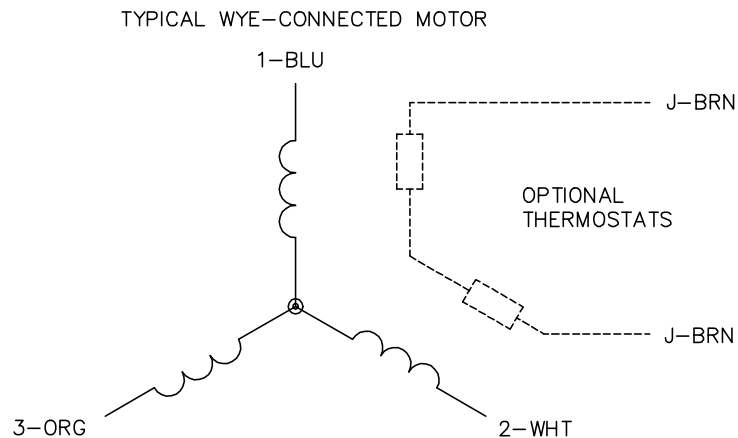
15 HP 3 PH 60 HZ 1760 RPM 460 V 0944M

TORQUES (LB-FT): PO=163 PU=53.3 LR=73.2 LRA=108





CD0006


NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10:24:49 02/19/2019

BY: ENBRIRO

MTL: -


BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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