

ABB BALDOR RELIANCE III

Customer information packet

CHC3525A

.5 AIR OVERHP, 1130RPM, 1PH, 60HZ, 56Z, 3528C

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
Frame	56Z
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Oil Capacitor Start and Run
Output @ Frequency	.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CURUS C UR US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Resilient
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.400 A @ 230.0 V 4.800 A @ 115.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	66.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.4 a
Insulation Class	F

Part Detail

Revision	D
Type	AC
Mech. spec.	35H317
Base	
Status	PRD/A
Elec. spec.	35WGZ930
Layout	35LYH317
Eff. date	12-02-2024
CD Diagram	CD0381
Poles	06
Leads	7#18
Proprietary	False
Created date	02-23-2023

Inverter Code	Not Inverter
KVA Code	C
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	7 @ 18 AWG
Motor Lead Termination	None
Motor Standards	NEMA
Motor Type	3528C
Mounting Arrangement	F1
Number of Poles	6
Overall Length	13.53 IN
Power Factor	95
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible: Connected Standard
Shaft Slinger Indicator	No Slinger
Speed	1130 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	Automatic Thermal Overload
Winding Thermal 1 Location	SB
Winding Thermal 2	None

Nameplate

NP1280L									
CAT.NO.	CHC3525A								
SPEC.	35H317Z930G1								
HP	.5 AIR OVER								
VOLTS	115/230								
AMP	4.8/2.4								
RPM	1130								
FRAME	56Z		HZ	60		PH	1		
SER.F.	1.00		CODE	C		DES	-		CL F
NEMA-NOM-EFF	66		PF	95					
RATING	40C AMB-CONT								
CC									
DE	6203		ODE	6203					
ENCL	TEAO		SN						

AC Induction Motor Performance Data

Record # 109515

Typical performance - not guaranteed values

Winding: 35WGZ930-R002			Type: 3528C		Enclosure: TEAO	
Nameplate Data				230 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		.5 AIR OVER		Full Load Torque		2.337 LB-FT
Volts		115/230		Start Configuration		direct on line
Full Load Amps		4.8/2.4		Breakdown Torque		4.79 LB-FT
R.P.M.		1130		Pull-up Torque		1.5 LB-FT
Hz	60	Phase	1	Locked-rotor Torque		1.88 LB-FT
NEMA Design Code		- KVA Code		Starting Current		7.73 A
Service Factor (S.F.)		1		No-load Current		1.08 A
NEMA Nom. Eff.		66	Power Factor	95	Line-line Res. @ 25°C	
						11.494 Ω A Ph 4.1333 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		48°C

Load Characteristics 230 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	97	98	98	100	99	99
Efficiency	30.4	48.7	60.2	67.6	68.3	68.3
Speed	1183.7	1171.4	1156.5	1132	1095.1	1095.1
Line amperes	1.4	1.73	2.06	2.43	3	3

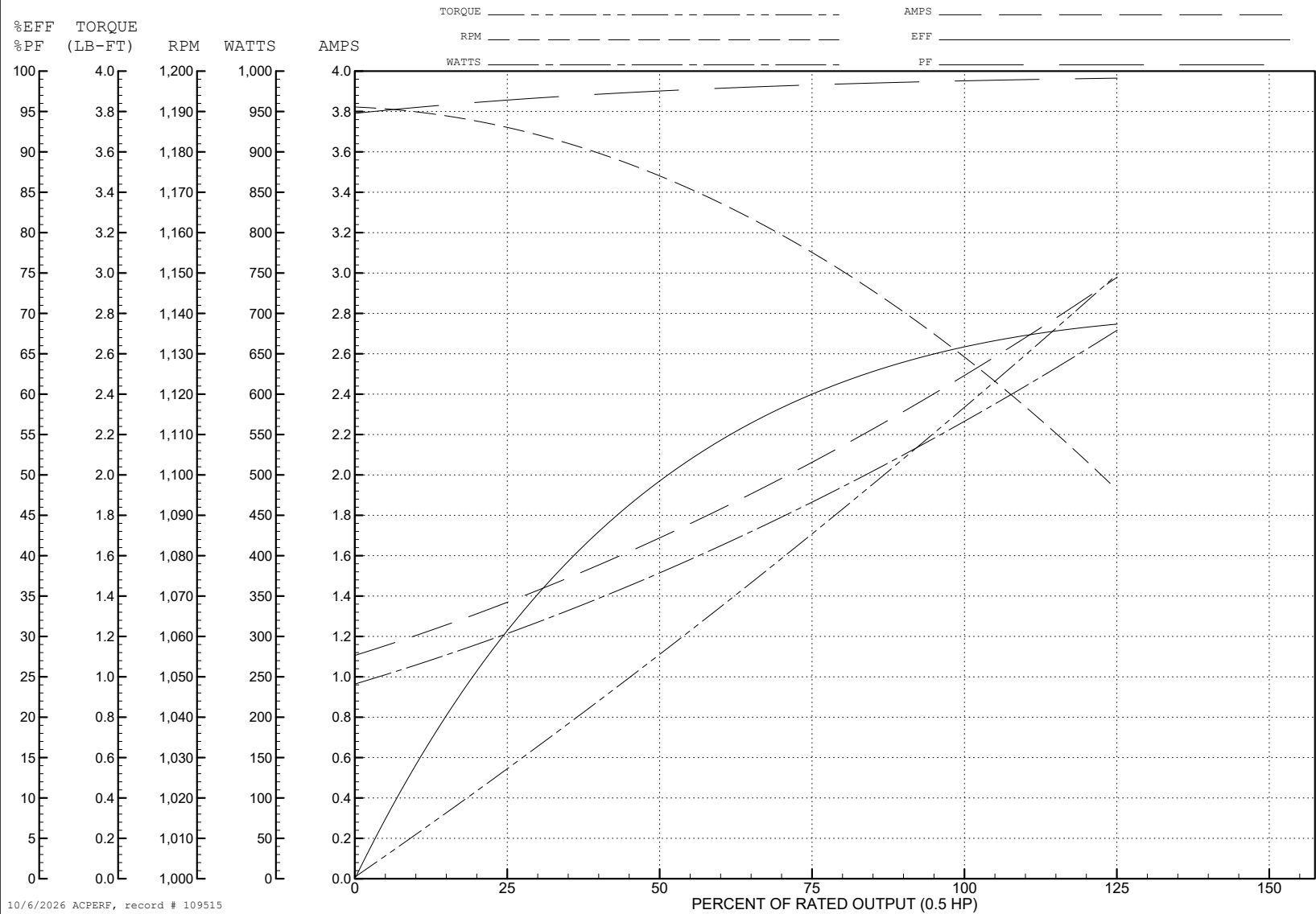
ABB Motors and Mechanical Inc.

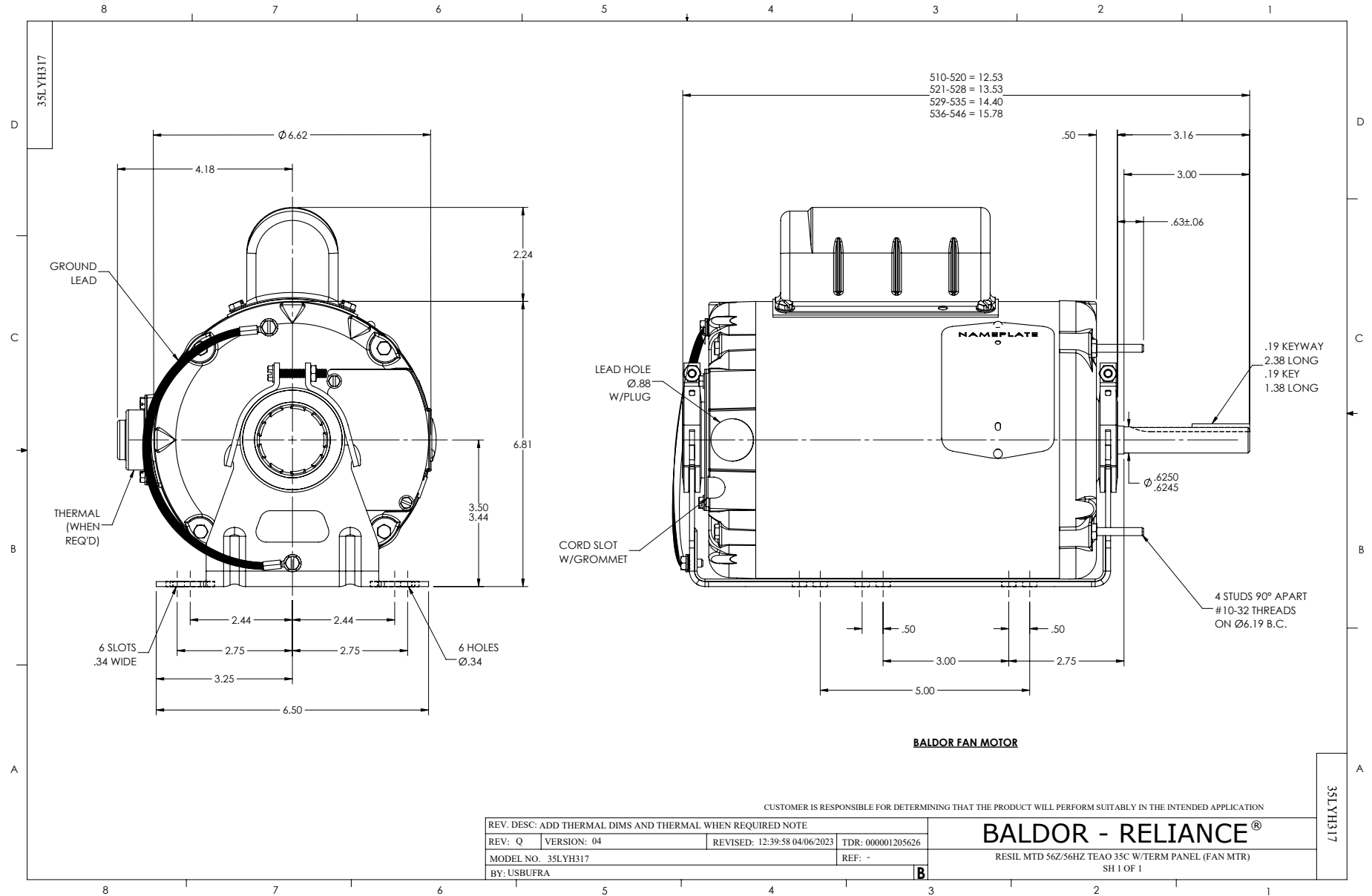
WINDING # 35WGZ930

Typical performance - not guaranteed values.

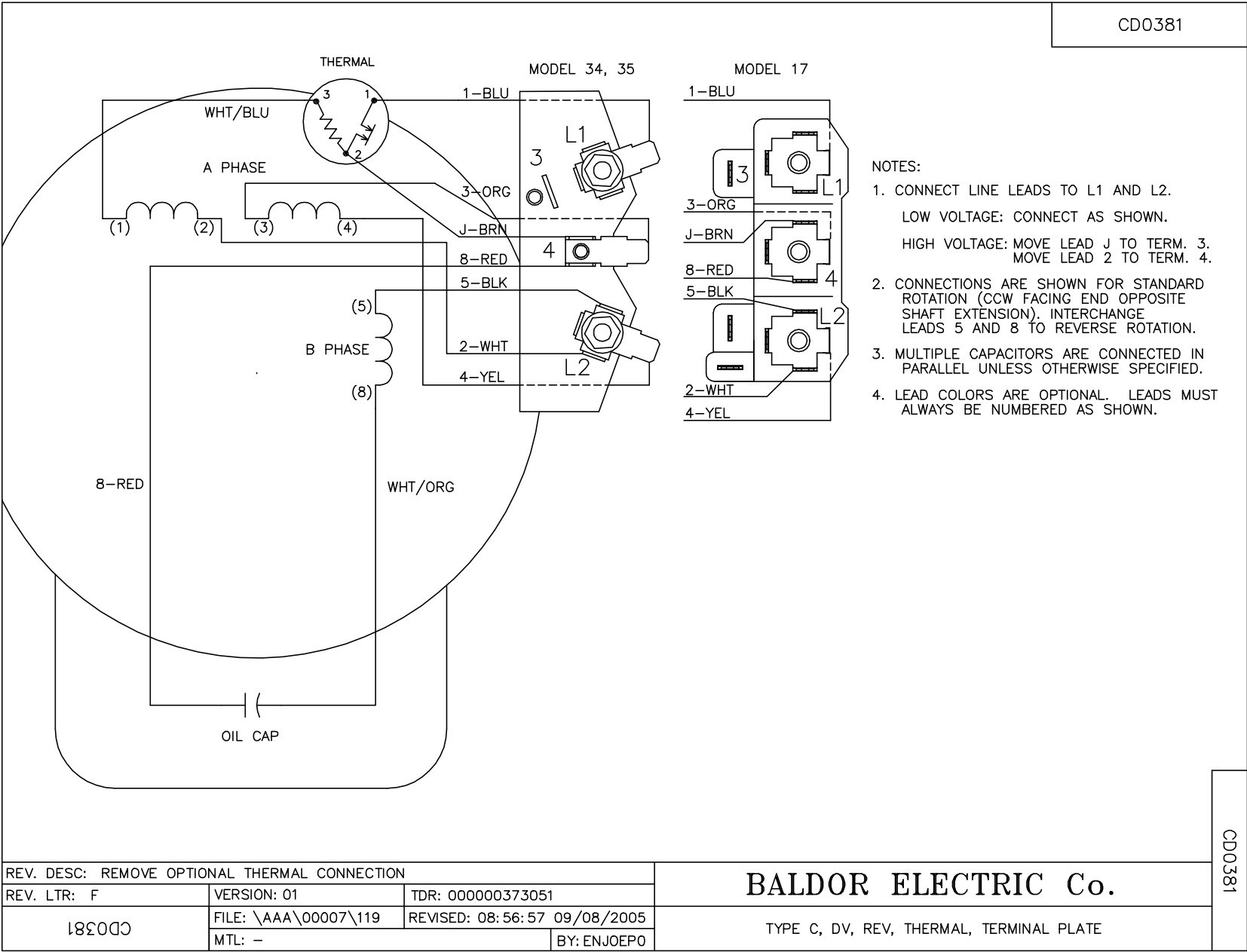
0.5 HP 1 PH 60 HZ 1130 RPM 230 V 3528C

TORQUES (LB-FT): PO=4.79 PU=1.5 LR=1.88 LRA=7.73





CD0381



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