ABB BALDOR RELIANCE

Customer information packet

CHL3510A

1HP, 1750RPM, 1PH, 60HZ, 56H, 3528LC, TENV, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TENV
Frame	56H
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	1.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	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	4.400 A @ 230.0 V
	8.800 A @ 115.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	81.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.4 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	H
Type	AC
Mech. spec.	35E3764
Base	
Status	PRD/A
Elec. spec.	35WGG397
Layout	35LYE3764
Eff. date	12-30-2025
CD Diagram	CD0703
Poles	04
Leads	6#18,1#16 #1TH
Proprietary	False
Created date	11-03-2022

IP Rating	NONE
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Finish	CLEAR COAT
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads With QC
Motor Standards	NEMA
Motor Type	3528LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.42 IN
Power Factor	89
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.20
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1750 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

NP1257L											
CAT.NO.	CHL3510A										
SPEC.	35E3764G397G1										
HP	1										
VOLTS	115/230										
AMP	8.8/4.4										
RPM	1750										
FRAME	56H		**HZ**		60		**PH**	1			
SER.F.	1.20	**CODE**	K	**DES**	L	**CL**	F				
NEMA-NOM-EFF	81.5	**PF**	89								
RATING	40C AMB-CONT										
CC											
DE	6203	**ODE**	6203								
ENCL	TENV	**SN**									
	SFA 10.3/5.15										

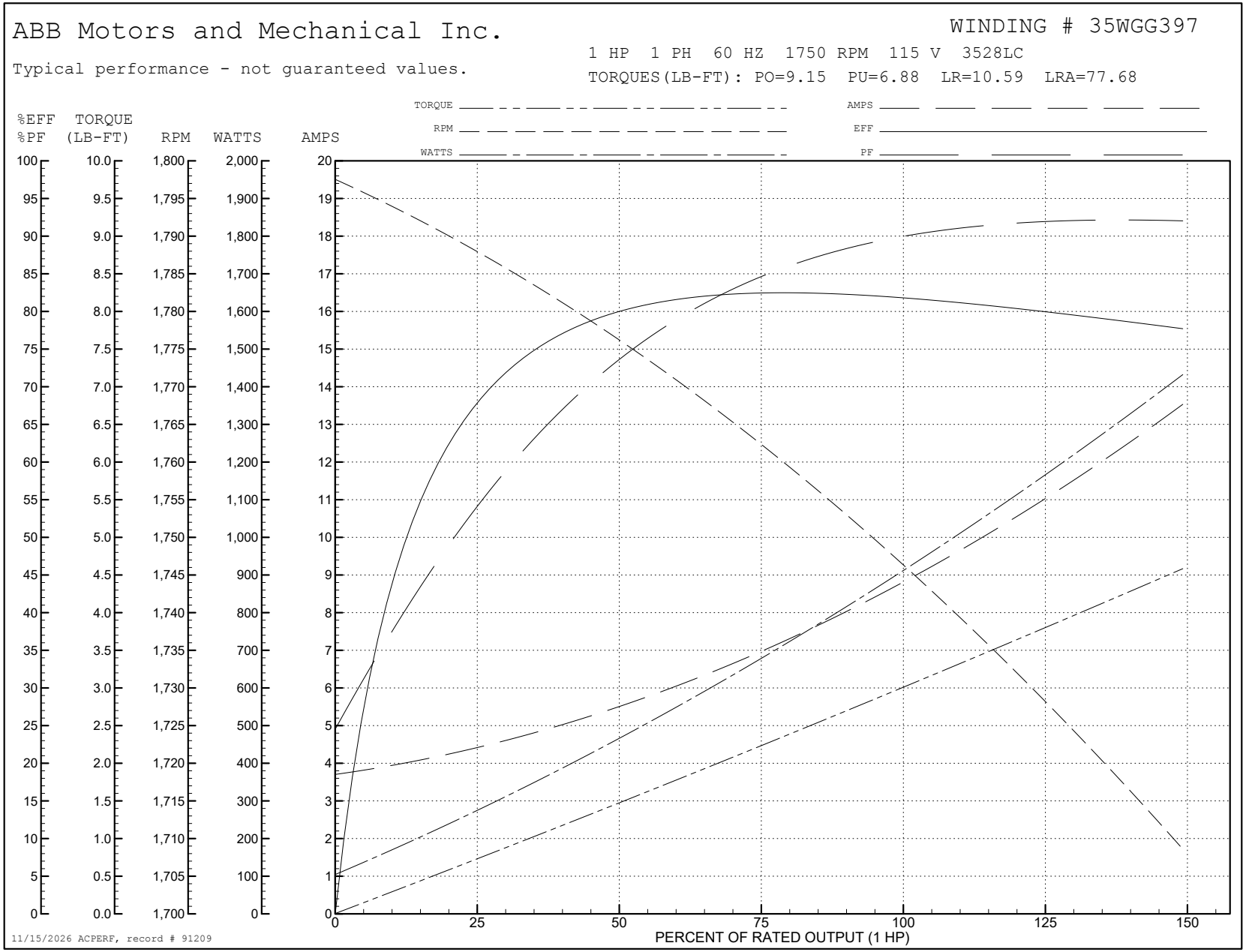
AC Induction Motor Performance Data
Record # 91209
Preliminary Data Sheet

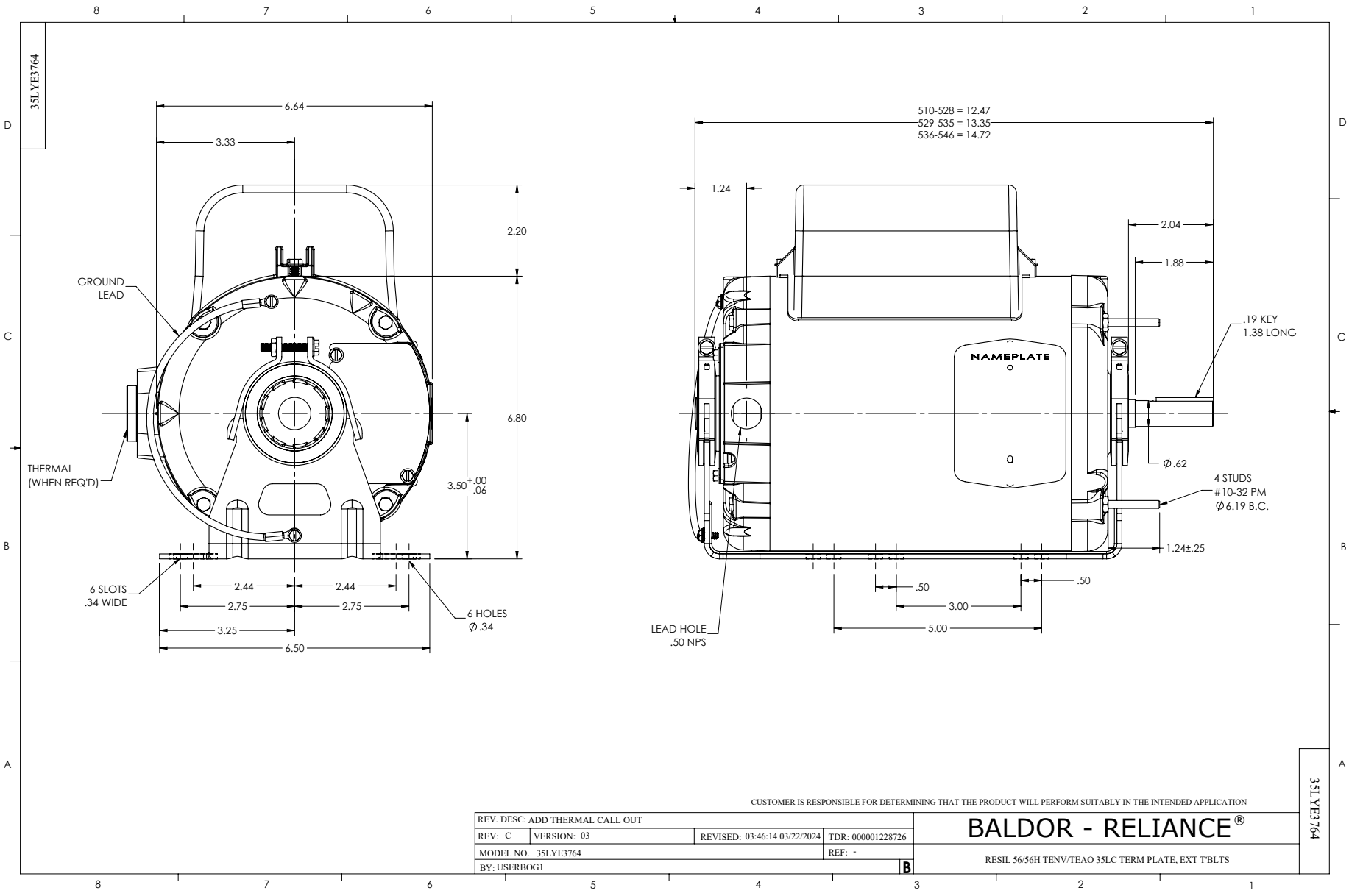
Winding: 35WGG397-R001	**Type:** 3528LC	**Enclosure:** TEAO

Nameplate Data				**115 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	3 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			8.8/4.4	**Breakdown Torque**	9.15 LB-FT
R.P.M.			1750	**Pull-up Torque**	6.88 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	10.59 LB-FT
NEMA Design Code	L	**KVA Code**	K	**Starting Current**	77.68 A
Service Factor (S.F.)			1.2	**No-load Current**	3.76 A
NEMA Nom. Eff.	82.6	**Power Factor**	89	**Line-line Res. @ 25ºC**	0.566 Ω A Ph 1.17 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	40°C
S.F. Amps			10.3/5.15	**Temp. Rise @ S.F. Load**	49°C
				Locked-rotor Power Factor	95.9
				Rotor inertia	0.203 lb-ft²

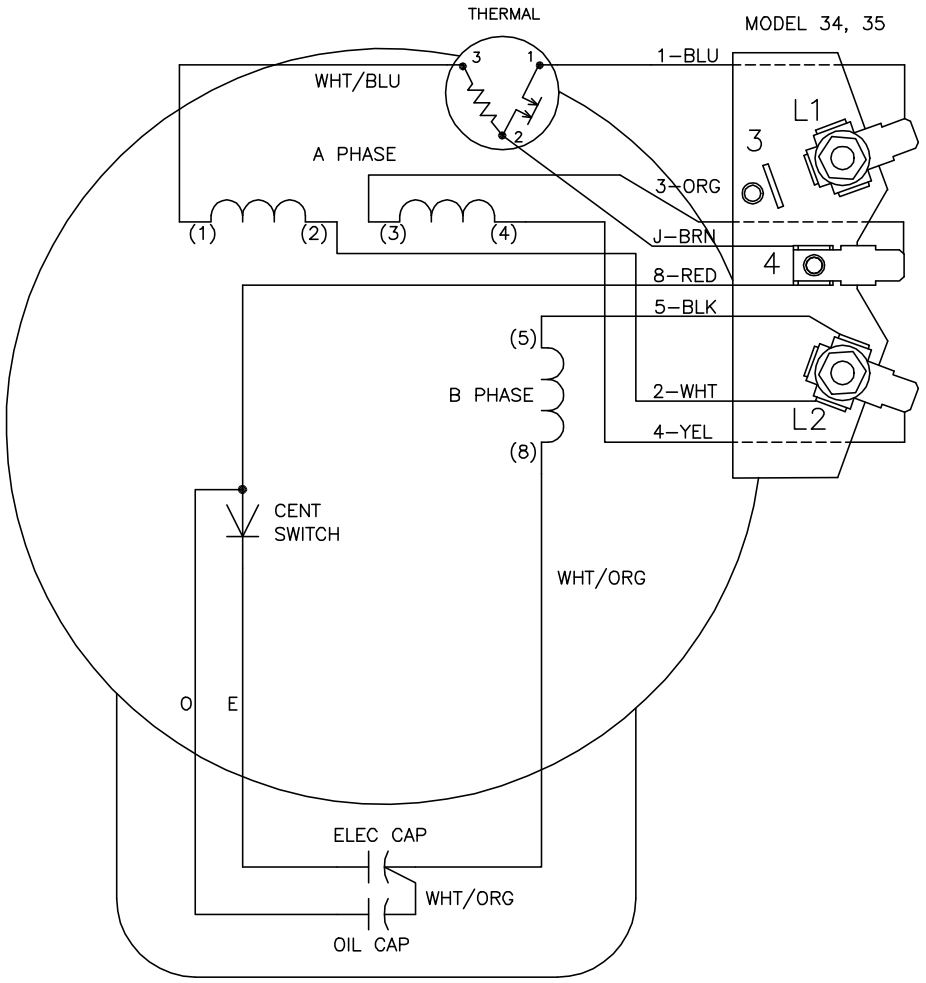
Load Characteristics 115 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	57	75	84	89	91	93	91
Efficiency	67.4	79.1	82.2	82.3	80.6	77.3	80.9
Speed	1786	1775	1762	1748	1730	1707	1734
Line amperes	4.35	5.5	7.02	8.84	10.98	13.53	10.6


ABB Motors and Mechanical Inc.
WINDING # 35WGG397
Typical performance - not guaranteed values.
1 HP 1 PH 60 HZ 1750 RPM 115 V 3528LC
TORQUES(LB-FT): PO=9.15 PU=6.88 LR=10.59 LRA=77.68
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1 HP)
11/15/2026 ACPERF, record # 91209


35LYE3764
6.64
3.33
2.20
6.80
3.50 +.00 -.06
GROUND LEAD
THERMAL (WHEN REQ'D)
6 SLOTS .34 WIDE
2.44
2.44
2.75
2.75
3.25
6.50
6 HOLES Ø.34
510-528 = 12.47
529-535 = 13.35
536-546 = 14.72
1.24
2.04
1.88
.19 KEY 1.38 LONG
NAMEPLATE
Ø.62
4 STUDS #10-32 PM Ø6.19 B.C.
1.24±.25
.50
.50
3.00
5.00
LEAD HOLE .50 NPS
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD THERMAL CALL OUT
REV: C
VERSION: 03
REVISED: 03:46:14 03/22/2024
TDR: 000001228726
MODEL NO. 35LYE3764
REF: -
BY: USERBOG1
B
BALDOR - RELIANCE®
RESIL 56/56H TENV/TEAO 35LC TERM PLATE, EXT T'BLTS
35LYE3764

CD0703



NOTES:

1. CONNECT LINE LEADS TO L1 AND L2.
   LOW VOLTAGE: CONNECT AS SHOWN.
   HIGH VOLTAGE: MOVE LEAD J TO TERM. 3.
   MOVE LEAD 2 TO TERM. 4.
2. CONNECTIONS ARE SHOWN FOR STANDARD ROTATION (CCW FACING END OPPOSITE SHAFT EXTENSION). INTERCHANGE LEADS 5 AND 8 TO REVERSE ROTATION.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0703

REV. DESC: REMOVE MODEL 17 CONNECTION		
REV. LTR: G	VERSION: 02	TDR: 000001218314
FILE: \AAA\00007\140	REVISED: 08:28:11 10/11/2023	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

TYPE LC, DV, REV, THERMAL, TERMINAL PLATE

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