ABB BALDOR RELIANCE

Customer information packet

L3510A

1HP, 1750RPM, 1PH, 60HZ, 56H, 3528L, TEFC, F1, N
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
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, Induction Run
Output @ Frequency	1.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ
	208.0 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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	12.900 A @ 115.0 V
	6.700 A @ 208.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	74.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.7 a
Insulation Class	F

Part Detail

Revision	M
Type	AC
Mech. spec.	35J383
Base	
Status	PRD/A
Elec. spec.	35WGG240
Layout	35LYJ383
Eff. date	06-09-2026
CD Diagram	CD0008
Poles	04
Leads	4#16 A&J,2#18 B PH,1#14 #4TH Y
Proprietary	False
Created date	12-19-2022

Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	4 @ 16 AWG, A&J
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.91 IN
Power Factor	68
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
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
Shaft Slinger Indicator	No Slinger
Speed	1750 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Do Not Use Eve-Not Valiid
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.	L3510A							
SPEC.	35J383G240							
HP	1							
VOLTS	115/208-230							
AMP	12.9/6.7							
RPM	1750							
FRAME	56H	**HZ**	60	**PH**	1			
SER.F.	1.00	**CODE**	J	**DES**	L	**CL**	F	
NEMA-NOM-EFF	74	**PF**	68					
RATING	40C AMB-CONT							
CC								
DE	6205	**ODE**	6203					
ENCL	TEFC	**SN**						

Accessories

Part number	Description	Multiplier
35-8762	C FACE KIT	A8
35EP1506A01SP	D-FLANGE KIT	A8

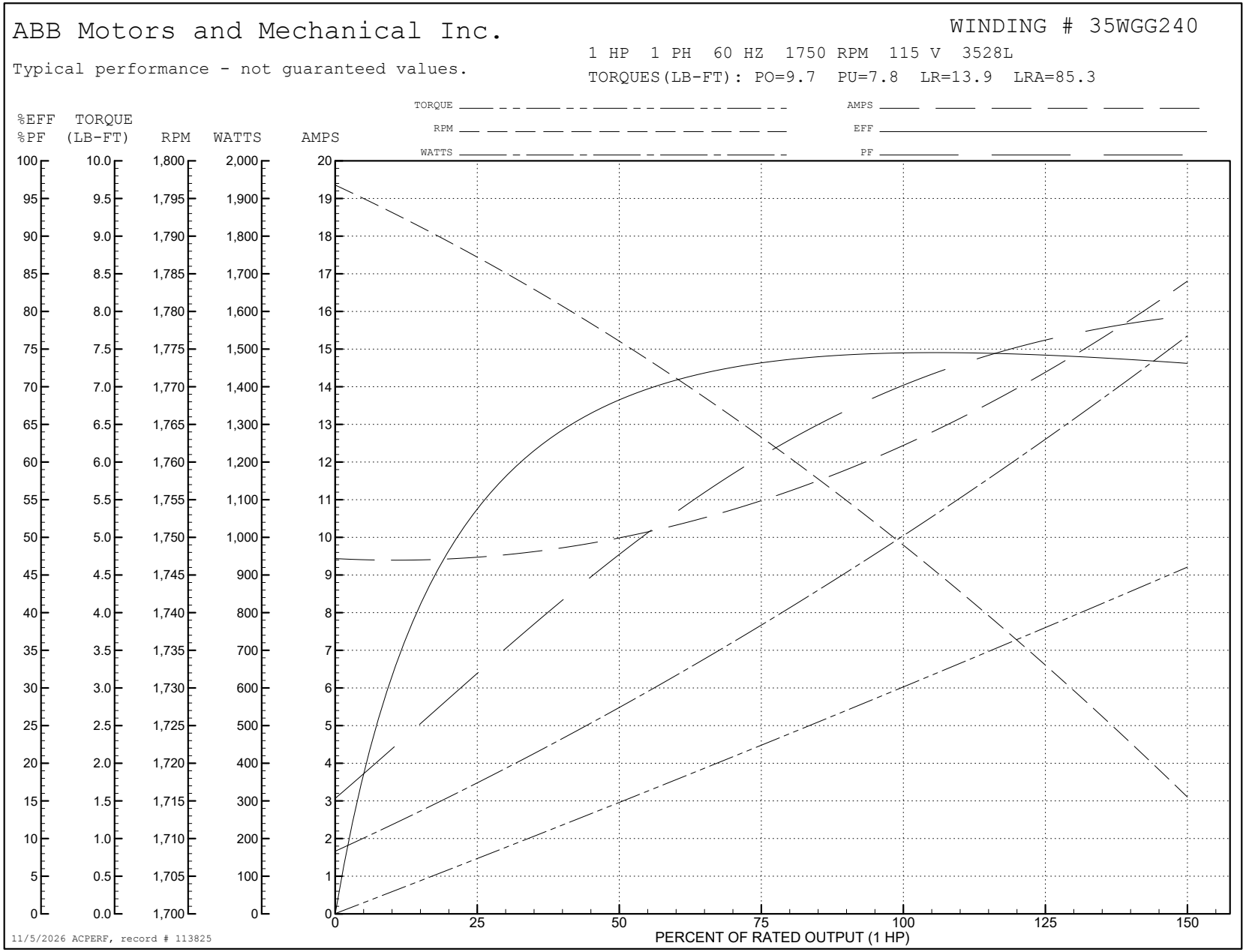
AC Induction Motor Performance Data
Record # 113825
Typical performance - not guaranteed values

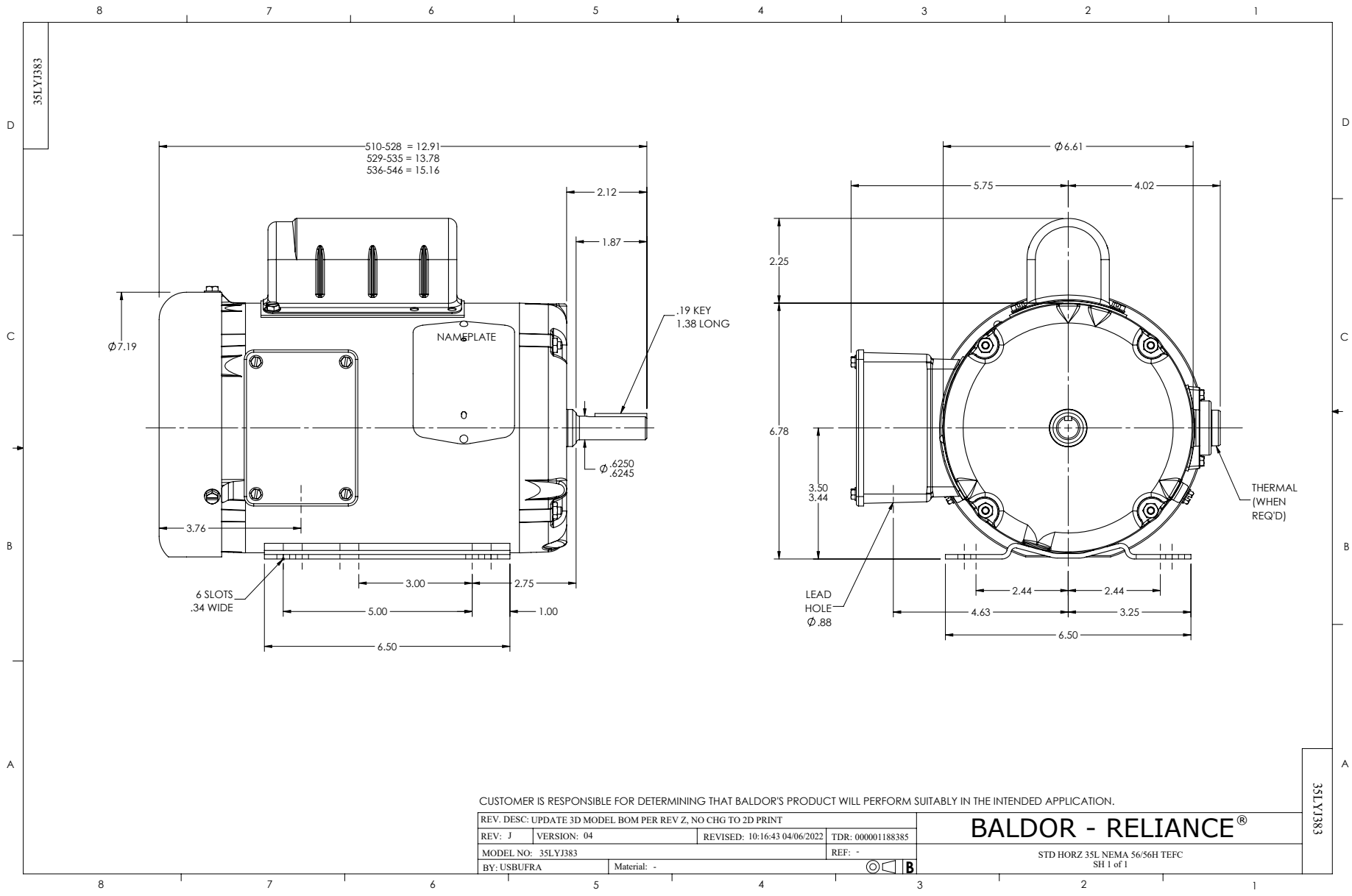
Winding: 35WGG240-R009	**Type:** 3528L	**Enclosure:** TEFC

Nameplate Data				**115 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	3.01 LB-FT
Volts			115/208-230	**Start Configuration**	direct on line
Full Load Amps			12.9/6.7	**Breakdown Torque**	9.7 LB-FT
R.P.M.			1750	**Pull-up Torque**	7.8 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	13.9 LB-FT
NEMA Design Code	L	**KVA Code**	J	**Starting Current**	85.3 A
Service Factor (S.F.)			1	**No-load Current**	9.53 A
NEMA Nom. Eff.	74	**Power Factor**	68	**Line-line Res. @ 25ºC**	0.525 Ω A Ph 1.17 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	72°C
				Locked-rotor Power Factor	93.9
				Rotor inertia	0.203 lb-ft²

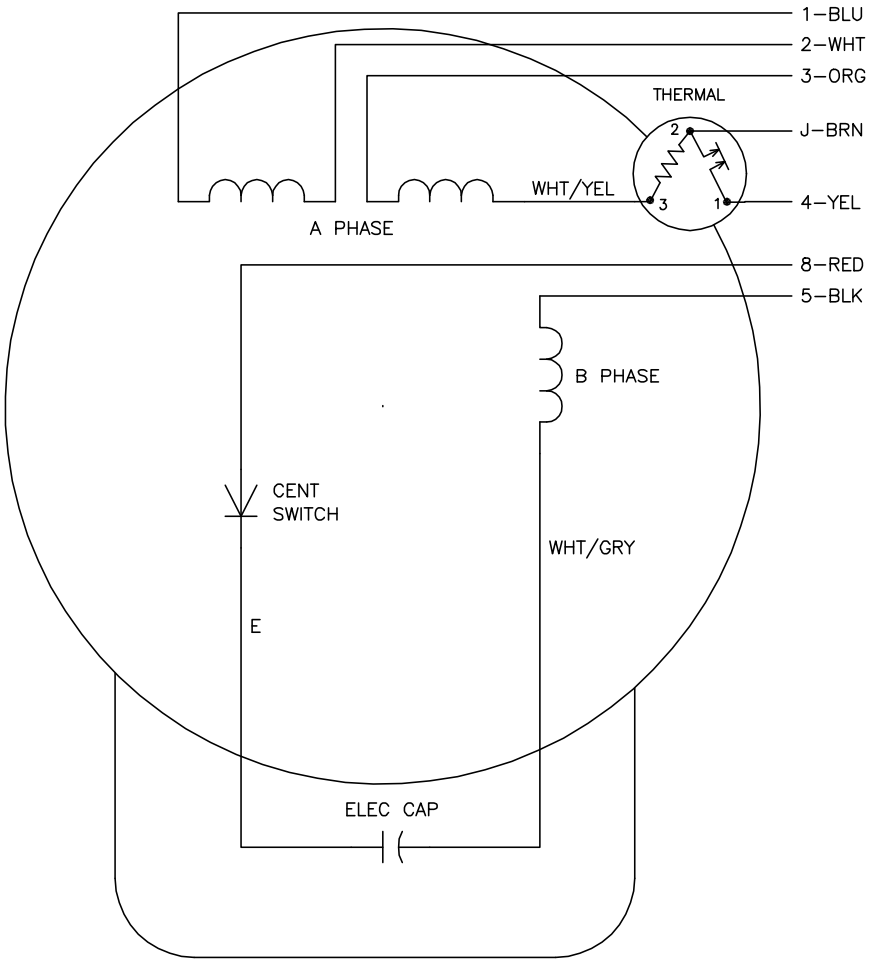
Load Characteristics 115 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	33	48	60	69	76	80
Efficiency	53.1	67.5	72.9	74.8	74.6	72.8
Speed	1786	1775	1763	1750	1735	1714
Line amperes	9.3	9.98	11.06	12.51	14.28	16.82


ABB Motors and Mechanical Inc.
WINDING # 35WGG240
Typical performance - not guaranteed values.
1 HP 1 PH 60 HZ 1750 RPM 115 V 3528L
TORQUES(LB-FT): PO=9.7 PU=7.8 LR=13.9 LRA=85.3
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1 HP)
11/5/2026 ACPERF, record # 113825


35LYJ383
510-528 = 12.91
529-535 = 13.78
536-546 = 15.16
2.12
1.87
.19 KEY
1.38 LONG
NAMEPLATE
Ø7.19
Ø .6250
.6245
3.76
6 SLOTS
.34 WIDE
3.00
2.75
5.00
1.00
6.50
Ø6.61
5.75
4.02
2.25
6.78
3.50
3.44
THERMAL
(WHEN
REQ'D)
LEAD
HOLE
Ø .88
2.44
2.44
4.63
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: UPDATE 3D MODEL BOM PER REV Z, NO CHG TO 2D PRINT
REV: J
VERSION: 04
REVISED: 10:16:43 04/06/2022
TDR: 000001188385
MODEL NO: 35LYJ383
REF: -
BY: USBUFRA
Material: -
B
BALDOR - RELIANCE®
STD HORZ 35L NEMA 56/56H TEFC
SH 1 of 1
35LYJ383

CD0008



	LINE A	LINE B	JOIN	JOIN
HIGH STD	1	4	2,3,8	J,5
HIGH OPP	1	4	2,3,5	J,8
LOW STD	1,3,8	4	–	2,J,5
LOW OPP	1,3,5	4	–	2,J,8

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0008

REV. DESC: REMOVE 2–TERMINAL THERMAL DETAIL, SEE CD0008A02			BALDOR ELECTRIC Co.
REV. LTR: F	VERSION: 01	TDR: 000000360649	
CD0008	FILE: \AAA\00007\408	REVISED: 10:56:54 04/18/2005	TYPE L, DV, REV, THERMAL, 7 LEADS
	MTL: –	BY: ENJOEP0	