ABB BALDOR RELIANCE

Customer information packet

VL1321T

1.5HP, 1730RPM, 1PH, 60HZ, 145TC, 3536L, OPEN
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	145TC
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	1.500 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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	8.300 A @ 208.0 V
	7.800 A @ 230.0 V
	15.500 A @ 115.0 V
Design Code	L
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	7.8 a
Insulation Class	F

Part Detail

Revision	D
Type	AC
Mech. spec.	35DD005
Base	
Status	PRD/A
Elec. spec.	35WGG406
Layout	35LYDD005
Eff. date	07-02-2024
CD Diagram	CD0001
Poles	04
Leads	4#14 A PH,2#18 B PH
Proprietary	False
Created date	08-01-2022

Inverter Code	Not Inverter
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	4 @ 14 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3536L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.54 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1730 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

NP1256L											
CAT.NO.	VL1321T										
SPEC.	35DD00G406										
HP	1.5										
VOLTS	115/230										
AMP	15.5/7.8										
RPM	1730										
FRAME	145TC		**HZ**	60			**PH**	1			
SER.F.	1.15	**CODE**	M	**DES**	L	**CLASS**	F				
NEMA-NOM-EFF	75.5	**PF**	80								
RATING	40C AMB-CONT										
CC											
DE	6205		**ODE**	6203							
ENCL	OPEN	**SN**									

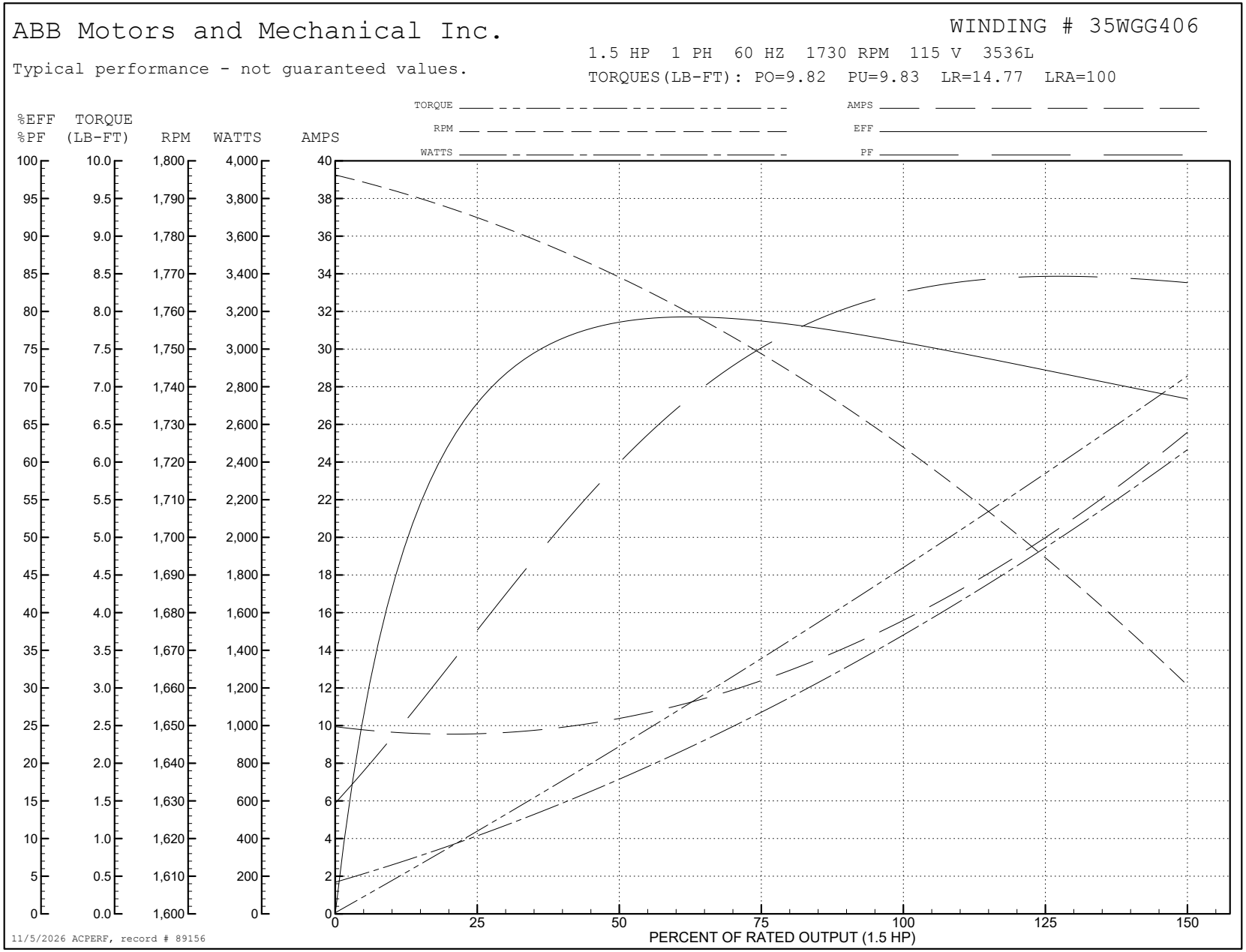
AC Induction Motor Performance Data
Record # 89156
Typical performance - not guaranteed values

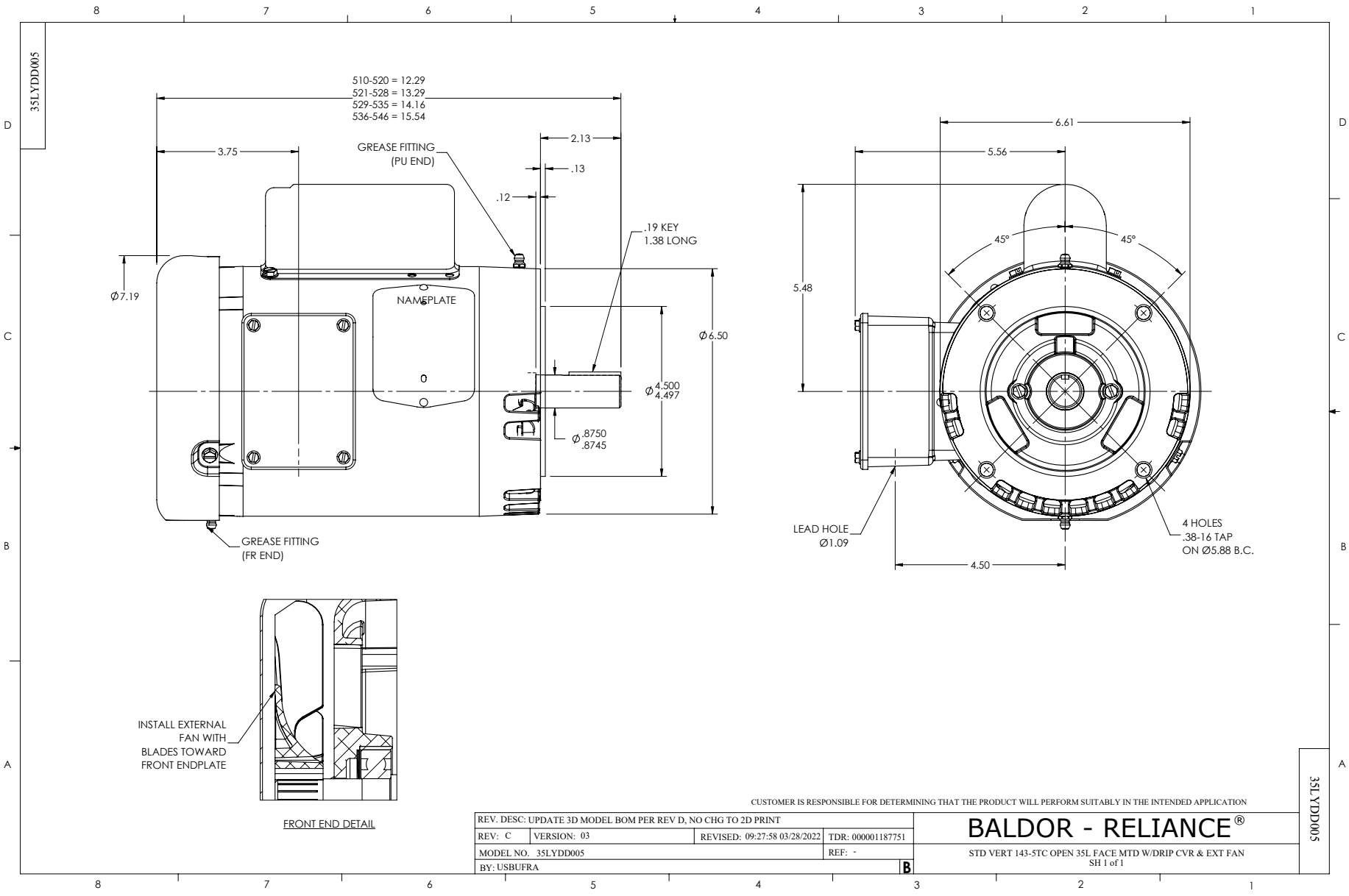
Winding: 35WGG406-R001	**Type:** 3536L	**Enclosure:** OPEN

Nameplate Data				**115 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			1.5	**Full Load Torque**	4.56 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			15.5/7.8	**Breakdown Torque**	9.82 LB-FT
R.P.M.			1730	**Pull-up Torque**	9.83 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	14.77 LB-FT
NEMA Design Code	L	**KVA Code**	M	**Starting Current**	100 A
Service Factor (S.F.)			1.15	**No-load Current**	10.35 A
NEMA Nom. Eff.	75.5	**Power Factor**	80	**Line-line Res. @ 25ºC**	0.446 Ω A Ph 1.18 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	82°C
S.F. Amps				**Temp. Rise @ S.F. Load**	101°C
				Locked-rotor Power Factor	90.9
				Rotor inertia	0.261 lb-ft²

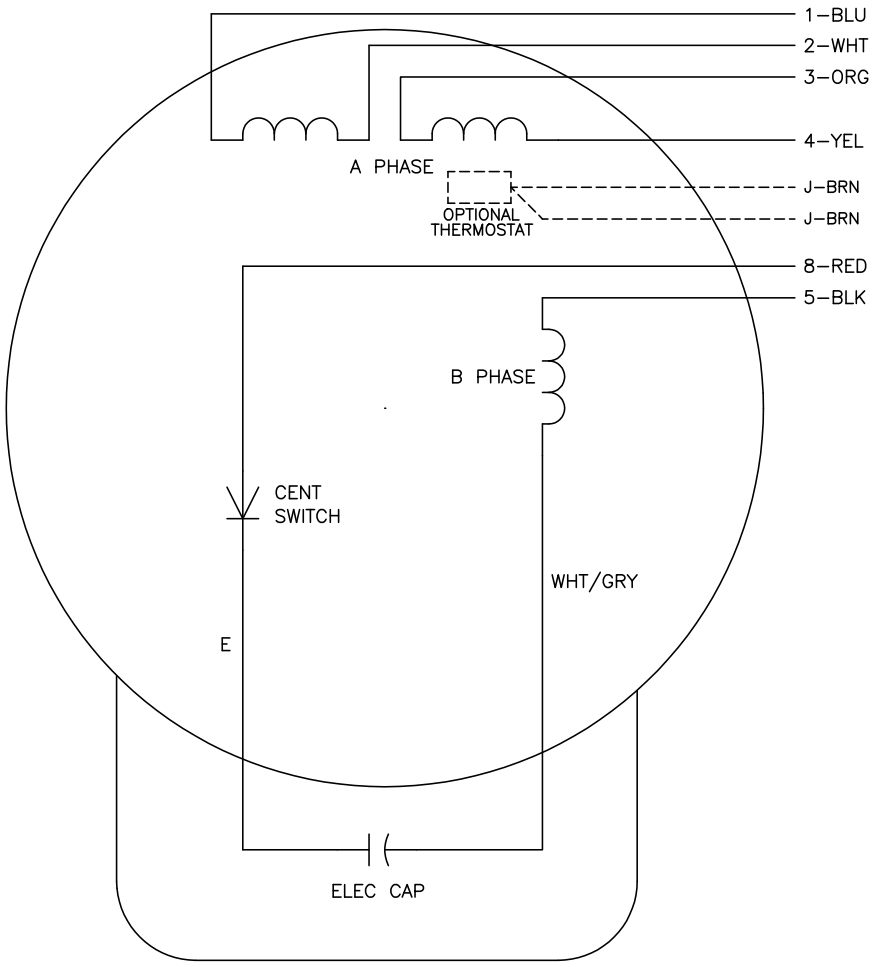
Load Characteristics 115 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	42	62	73	81	83	85	82
Efficiency	66.2	75.9	78.2	77.1	73.2	67.7	74.8
Speed	1782	1767	1748	1728	1697	1658	1709
Line amperes	8.89	10.27	12.73	15.64	19.99	25.47	18.2


ABB Motors and Mechanical Inc.
WINDING # 35WGG406
1.5 HP 1 PH 60 HZ 1730 RPM 115 V 3536L
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=9.82 PU=9.83 LR=14.77 LRA=100
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1.5 HP)
11/5/2026 ACPERF, record # 89156


35LYDD005
510-520 = 12.29
521-528 = 13.29
529-535 = 14.16
536-546 = 15.54
3.75
2.13
.13
.12
GREASE FITTING
(PU END)
.19 KEY
1.38 LONG
Ø7.19
NAMEPLATE
Ø6.50
Ø 4.500
4.497
Ø .8750
.8745
GREASE FITTING
(FR END)
6.61
5.56
45°
45°
5.48
LEAD HOLE
Ø1.09
4 HOLES
.38-16 TAP
ON Ø5.88 B.C.
4.50
INSTALL EXTERNAL
FAN WITH
BLADES TOWARD
FRONT ENDPLATE
FRONT END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV D, NO CHG TO 2D PRINT
REV: C
VERSION: 03
REVISED: 09:27:58 03/28/2022
TDR: 000001187751
MODEL NO. 35LYDD005
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD VERT 143-5TC OPEN 35L FACE MTD W/DRIP CVR & EXT FAN
SH 1 of 1
35LYDD005

CD0001



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

NOTES:

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

CD0001

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:16	TDR: 0178636
CD0001		FILE: AAA00007405	MDL: –
		MTL: –	TYPE L, DV, REV, 6 LEADS