ABB BALDOR RELIANCE

Customer information packet

L1318TM

1HP, 1740RPM, 1PH, 60HZ, 143T, 3524L, OPEN, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	143T
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
	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	12.800 A @ 115.0 V
	6.400 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	68.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.4 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	G
Type	AC
Mech. spec.	35DD001
Base	
Status	PRD/A
Elec. spec.	35WGG390
Layout	35LYDD001
Eff. date	09-05-2024
CD Diagram	CD0008
Poles	04
Leads	6#18,1#14 #4TH
Proprietary	False
Created date	12-19-2022

IP Rating	NONE
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.13 IN
Power Factor	75
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
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	1740 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Do Not Use
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	Manual Thermal Overload
Winding Thermal 1 Location	SB
Winding Thermal 2	None

Nameplate

NP1257L										
CAT.NO.	L1318TM									
SPEC.	35DD001G390									
HP	1									
VOLTS	115/230									
AMP	12.8/6.4									
RPM	1740									
FRAME	143T		**HZ**	60		**PH**	1			
SER.F.	1.15	**CODE**	K	**DES**	L	**CL**	F			
NEMA-NOM-EFF	68	**PF**	75							
RATING	40C AMB-CONT									
CC										
DE	6205	**ODE**	6203							
ENCL	OPEN	**SN**								

Accessories

Part number	Description	Multiplier
35-8764	C FACE KIT	A8
35EP1604A01SP	D-FLANGE KIT	

AC Induction Motor Performance Data
Record # 107851
Typical performance - not guaranteed values

Winding: 35WGG390-R002	**Type:** 3524L	**Enclosure:** OPEN

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	3.083 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			12.8/6.4	**Breakdown Torque**	6.48 LB-FT
R.P.M.			1740	**Pull-up Torque**	5.08 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	9.87 LB-FT
NEMA Design Code	L	**KVA Code**	K	**Starting Current**	37.42 A
Service Factor (S.F.)			1.15	**No-load Current**	4.11 A
NEMA Nom. Eff.	68	**Power Factor**	75	**Line-line Res. @ 25ºC**	3.1392 Ω A Ph 1.3641 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	

Load Characteristics 230 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	38	55	67	75	81	84	79
Efficiency	52.3	65.3	69	69.1	66.9	62.2	67.8
Speed	1785.1	1772.7	1758.5	1741.1	1719.1	1687.9	1728
Line amperes	4.26	4.73	5.44	6.39	7.6	9.19	7.12

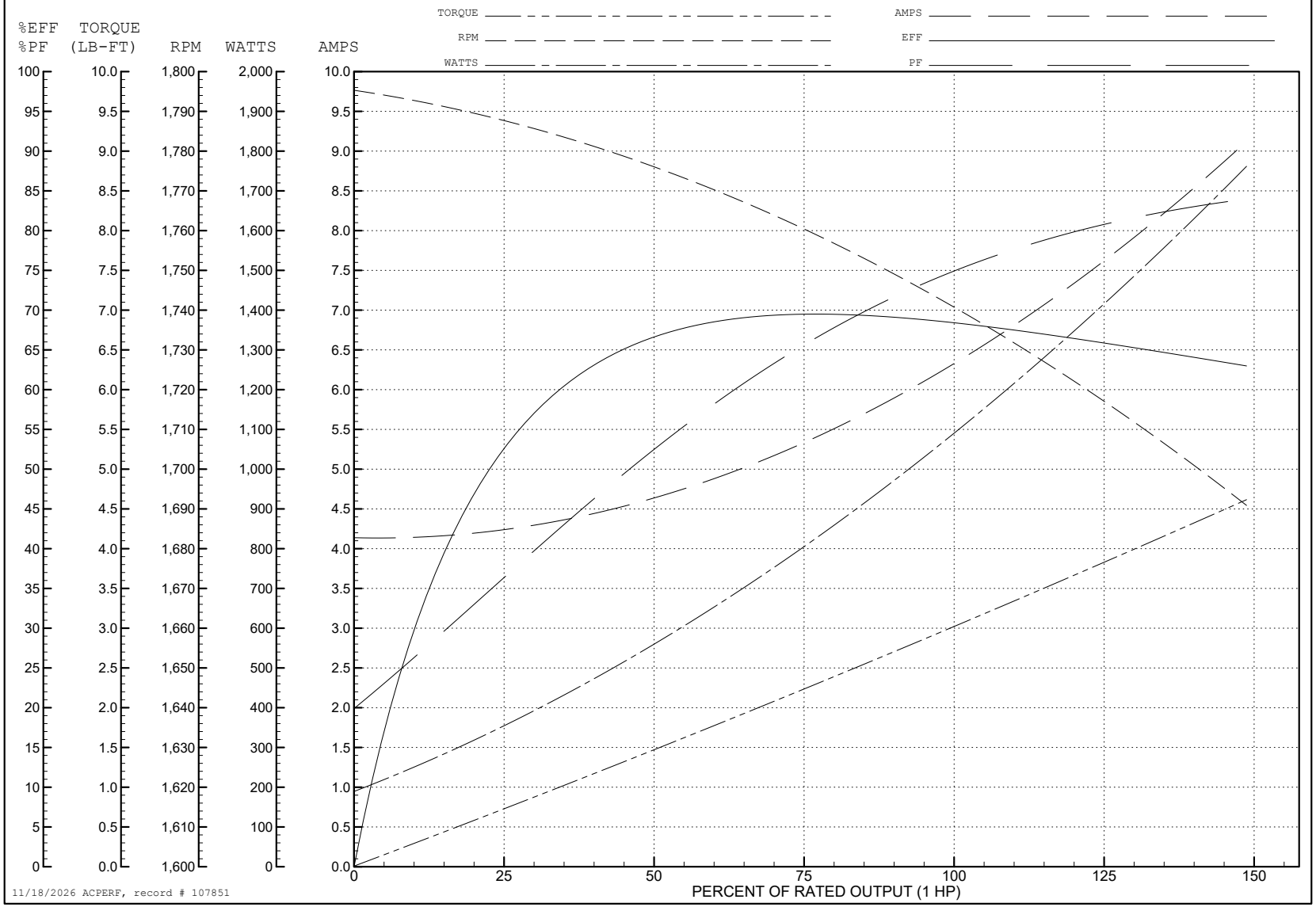
ABB Motors and Mechanical Inc.

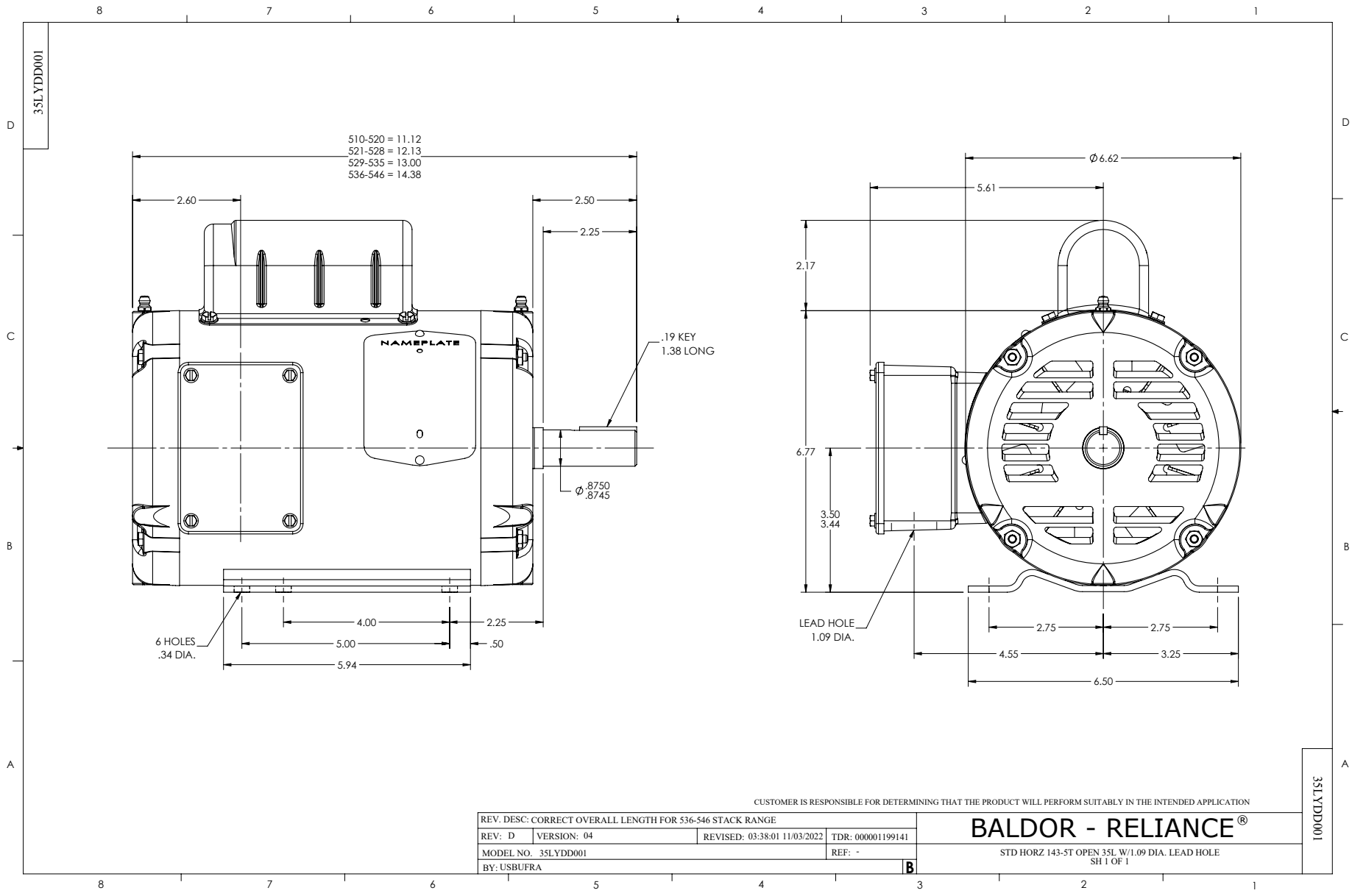
WINDING # 35WGG390

1 HP 1 PH 60 HZ 1740 RPM 230 V 3524L

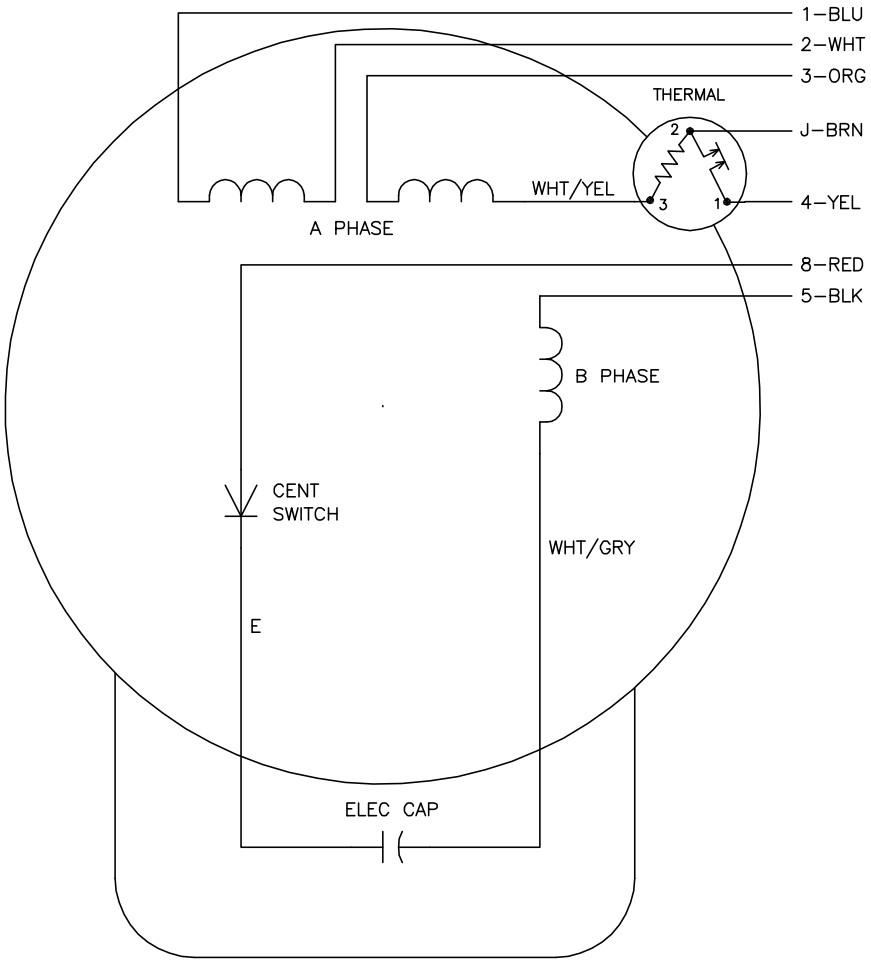
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=6.48 PU=5.08 LR=9.87 LRA=37.42




35LYDD001
510-520 = 11.12
521-528 = 12.13
529-535 = 13.00
536-546 = 14.38
2.60
2.50
2.25
NAMEPLATE
.19 KEY
1.38 LONG
Ø .8750
.8745
4.00
2.25
6 HOLES
.34 DIA.
5.00
.50
5.94
Ø 6.62
5.61
2.17
6.77
3.50
3.44
LEAD HOLE
1.09 DIA.
2.75
2.75
4.55
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CORRECT OVERALL LENGTH FOR 536-546 STACK RANGE
REV: D
VERSION: 04
REVISED: 03:38:01 11/03/2022
TDR: 000001199141
MODEL NO. 35LYDD001
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ 143-5T OPEN 35L W/1.09 DIA. LEAD HOLE
SH 1 OF 1
35LYDD001

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	