ABB BALDOR RELIANCE

Customer information packet

XL14142T

1HP, 1750RPM, 1PH, 60HZ, 143T, 3528L, XPFC, F1
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	143T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
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	CSA
	UL
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	6.300 A @ 230.0 V
	12.500 A @ 115.0 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	6.3 a
Insulation Class	F

Part Detail

Revision	C
Type	AC
Mech. spec.	35E358
Base	
Status	PRD/A
Elec. spec.	35WGG376
Layout	35LYE361
Eff. date	09-19-2024
CD Diagram	CD0001
Poles	04
Leads	6#18 Y
Proprietary	False
Created date	02-23-2023

Inverter Code	Not Inverter
KVA Code	L
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	X3528L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.21 IN
Power Factor	69
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
Speed	1750 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1426XPSL							
NO.		**CC**					
SER.							
SPEC.	35E358G376						
CAT.NO.	XL14142T						
HP	1	**T. CODE**					
VOLTS	115/230						
AMPS	12.5/6.3						
RPM	1750						
HZ	60	**PH**	1	**CL**	F		
SER.F.	1.15	**DES**	L	**CODE**	L		
RATING	40C AMB-CONT						
FRAME	143T	**NEMA-NOM-EFF**			74		
	PF	69					
BLANK	SFA 13.9/6.95						

AC Induction Motor Performance Data
Record # 88163
Typical performance - not guaranteed values

Winding: 35WGX945-R010	**Type:** 3524L	**Enclosure:** XPFC

Nameplate Data				**115 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	3 LB-FT
Volts			115/230	**Start Configuration**	Unknown
Full Load Amps			12.2/6.1	**Breakdown Torque**	7.96 LB-FT
R.P.M.			1750	**Pull-up Torque**	6.57 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	10.5 LB-FT
NEMA Design Code	L	**KVA Code**	L	**Starting Current**	73.5 A
Service Factor (S.F.)			1.15	**No-load Current**	8.04 A
NEMA Nom. Eff.	68	**Power Factor**	74	**Line-line Res. @ 25ºC**	0.549 Ω A Ph 1.66 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	63°C
S.F. Amps				**Temp. Rise @ S.F. Load**	72°C
				Locked-rotor Power Factor	90.9
				Rotor inertia	0.142 lb-ft²

Load Characteristics 115 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	37	53	65	73	79	82	77
Efficiency	53	67.4	73	75.1	75.3	74.4	75.2
Speed	1788	1778	1767	1754	1740	1724	1746
Line amperes	8.38	9.15	10.3	11.8	13.7	15.9	12.9

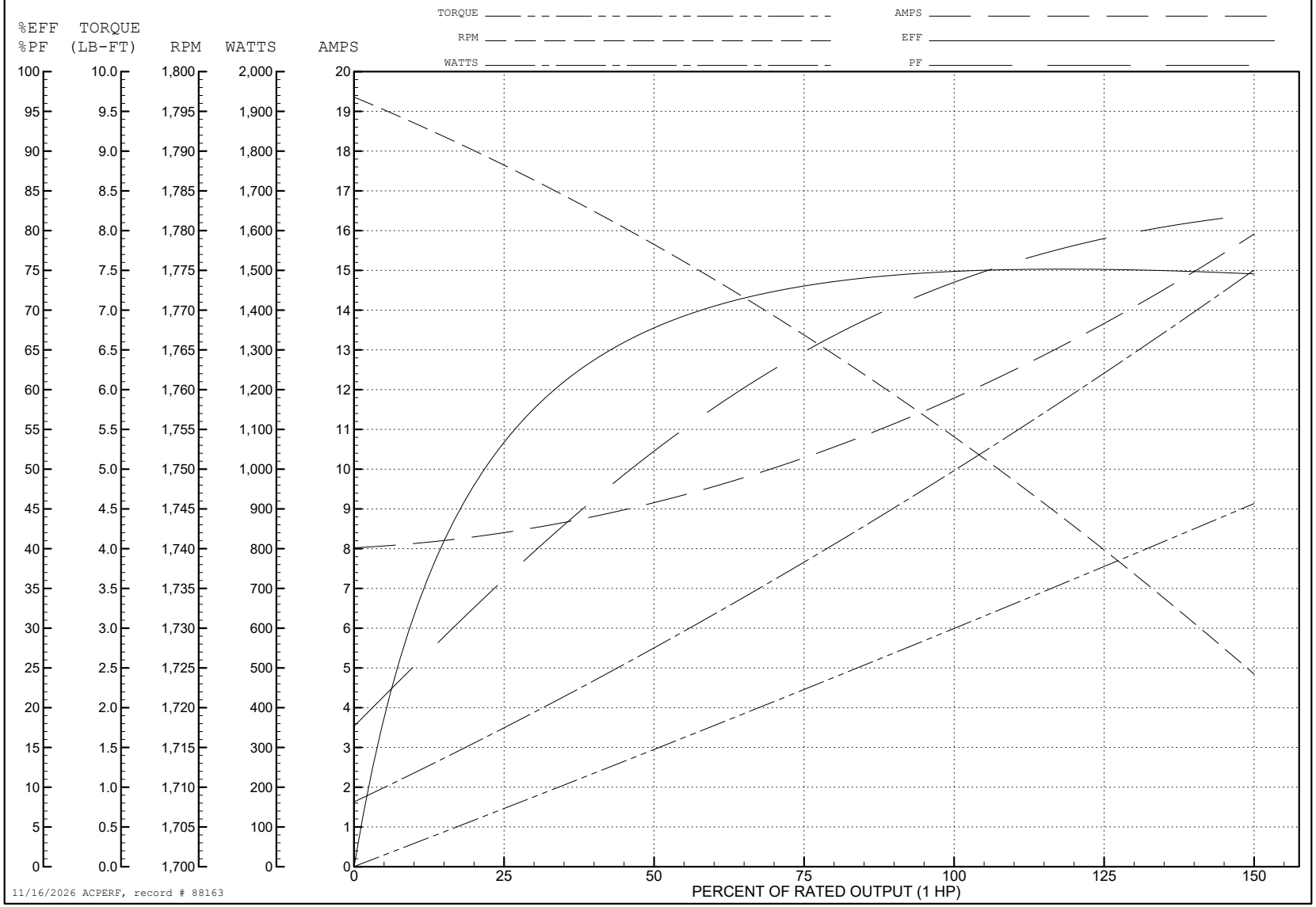
ABB Motors and Mechanical Inc.

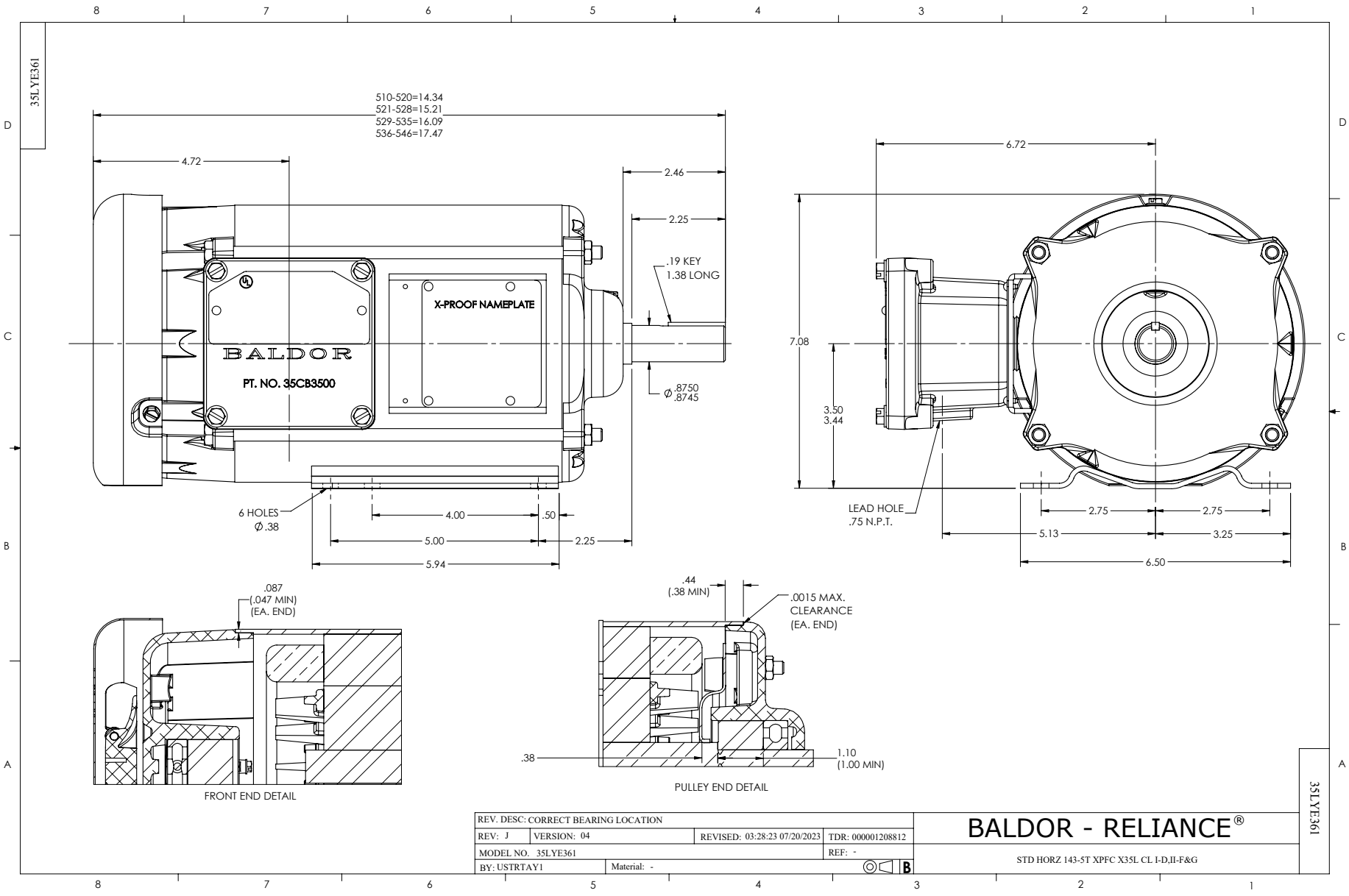
WINDING # 35WGX945

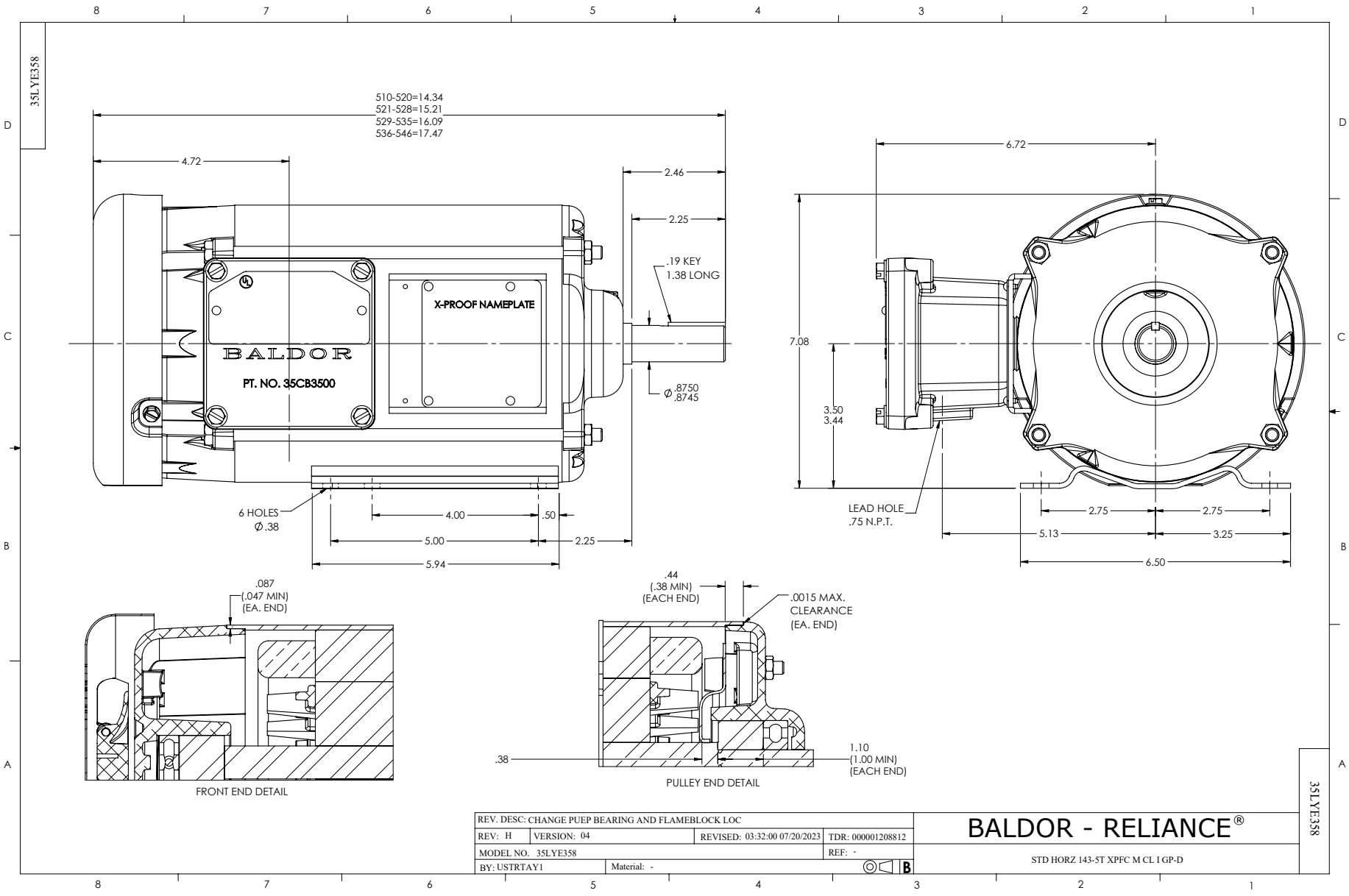
1 HP 1 PH 60 HZ 1750 RPM 115 V 3524L

Typical performance - not guaranteed values.

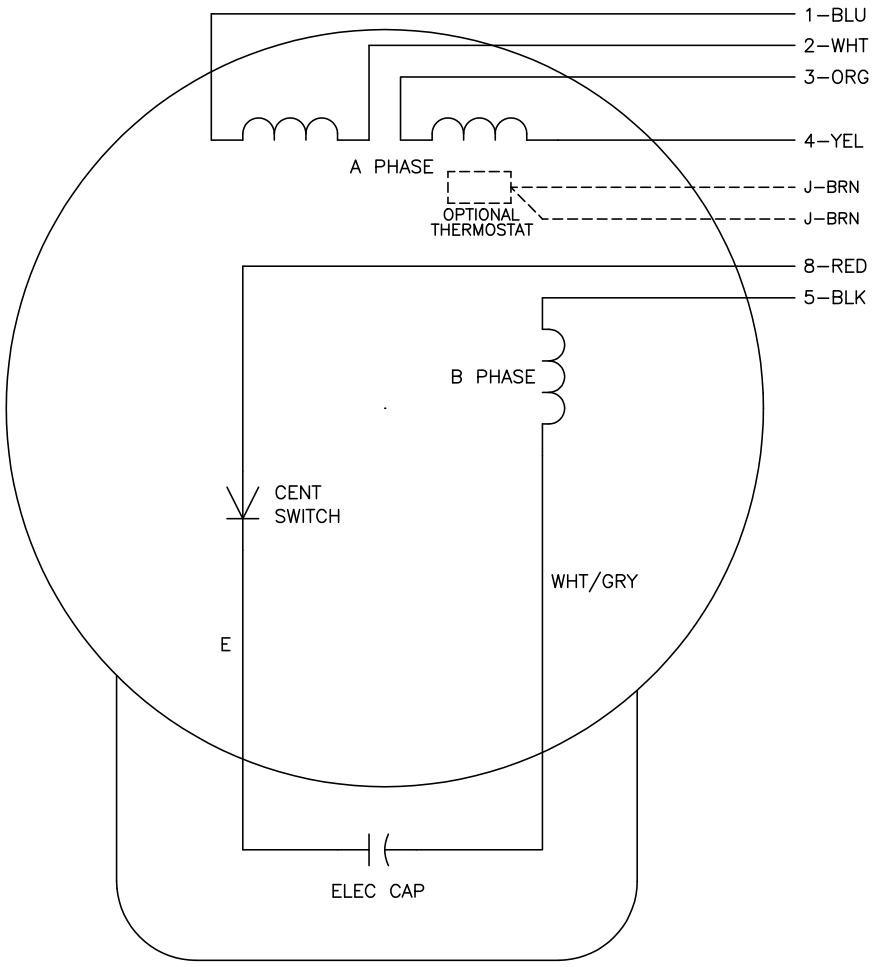
TORQUES(LB-FT): PO=7.96 PU=6.57 LR=10.5 LRA=73.5




35LYE361
510-520=14.34
521-528=15.21
529-535=16.09
536-546=17.47
4.72
2.46
2.25
.19 KEY
1.38 LONG
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø .8750
Ø .8745
6 HOLES
Ø .38
4.00
.50
5.00
2.25
5.94
6.72
7.08
3.50
3.44
LEAD HOLE
.75 N.P.T.
2.75
2.75
5.13
3.25
6.50
.087
(.047 MIN)
(EA. END)
FRONT END DETAIL
.44
(.38 MIN)
.0015 MAX.
CLEARANCE
(EA. END)
.38
1.10
(1.00 MIN)
PULLEY END DETAIL
REV. DESC: CORRECT BEARING LOCATION
REV: J
VERSION: 04
REVISED: 03:28:23 07/20/2023
TDR: 000001208812
MODEL NO. 35LYE361
REF: -
BY: USTRTAY1
Material: -
B
BALDOR - RELIANCE®
STD HORZ 143-5T XPFC X35L CL I-D,II-F&G
35LYE361


35LYE358
510-520=14.34
521-528=15.21
529-535=16.09
536-546=17.47
4.72
2.46
2.25
.19 KEY
1.38 LONG
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø .8750
Ø .8745
6 HOLES
Ø .38
4.00
.50
5.00
2.25
5.94
6.72
7.08
3.50
3.44
LEAD HOLE
.75 N.P.T.
2.75
2.75
5.13
3.25
6.50
.087
(.047 MIN)
(EA. END)
FRONT END DETAIL
.44
(.38 MIN)
(EACH END)
.0015 MAX.
CLEARANCE
(EA. END)
.38
1.10
(1.00 MIN)
(EACH END)
PULLEY END DETAIL
REV. DESC: CHANGE PUEP BEARING AND FLAMEBLOCK LOC
REV: H
VERSION: 04
REVISED: 03:32:00 07/20/2023
TDR: 000001208812
MODEL NO. 35LYE358
REF: -
BY: USTRTAY1
Material: -
B
BALDOR - RELIANCE®
STD HORZ 143-5T XPFC M CL I GP-D
35LYE358

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

CD0001