ABB BALDOR RELIANCE

Customer information packet

CDRXL05144

1HP, 1750RPM, 1PH, 60HZ, 56C, 3528L, XPFC, F1, N
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
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	UL
	CSA
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	12.400 A @ 115.0 V
	6.200 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
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	6.2 a

Part Detail

Revision	E
Type	AC
Mech. spec.	35X723
Base	
Status	PRD/A
Elec. spec.	35WGG376
Layout	35LYX723
Eff. date	05-29-2026
CD Diagram	CD0001
Poles	04
Leads	6#18
Proprietary	False
Created date	12-01-2022

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3524L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.16 IN
Power Factor	76
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1725 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

NP0977XPSL									
NO.						**CC**			
SER.						**TEMP CODE**	T3C		
SPEC.	35X723G376G1								
CAT.NO.	CDRXL05144								
HP	1								
VOLTS	115/230								
AMPS	12.5/6.3								
RPM	1750					**MOTOR WEIGHT**	48		
HERTZ	60	**PH**	1	**CL**	F	**DE BRG**	6205		
SER.F.	1.00	**DES**	L	**CODE**	L	**ODE BRG**	6203		
FRAME	56C	**GREASE**	POLYREX EM						
RATING	40C AMB-CONT								
				NEMA-NOM-EFF		74	**PF**	69	

AC Induction Motor Performance Data
Record # 92086
Typical performance - not guaranteed values

Winding: 35WGG376-R004	**Type:** 3528L	**Enclosure:** XPFC

Nameplate Data				**115 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	3.01 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			12.5/6.3	**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**	L	**Starting Current**	85.3 A
Service Factor (S.F.)			1	**No-load Current**	9.53 A
NEMA Nom. Eff.	74	**Power Factor**	69	**Line-line Res. @ 25ºC**	0.525 Ω A Ph 1.17 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	62°C
				Locked-rotor Power Factor	94.8
				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	53.5	67.3	72.9	74.9	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

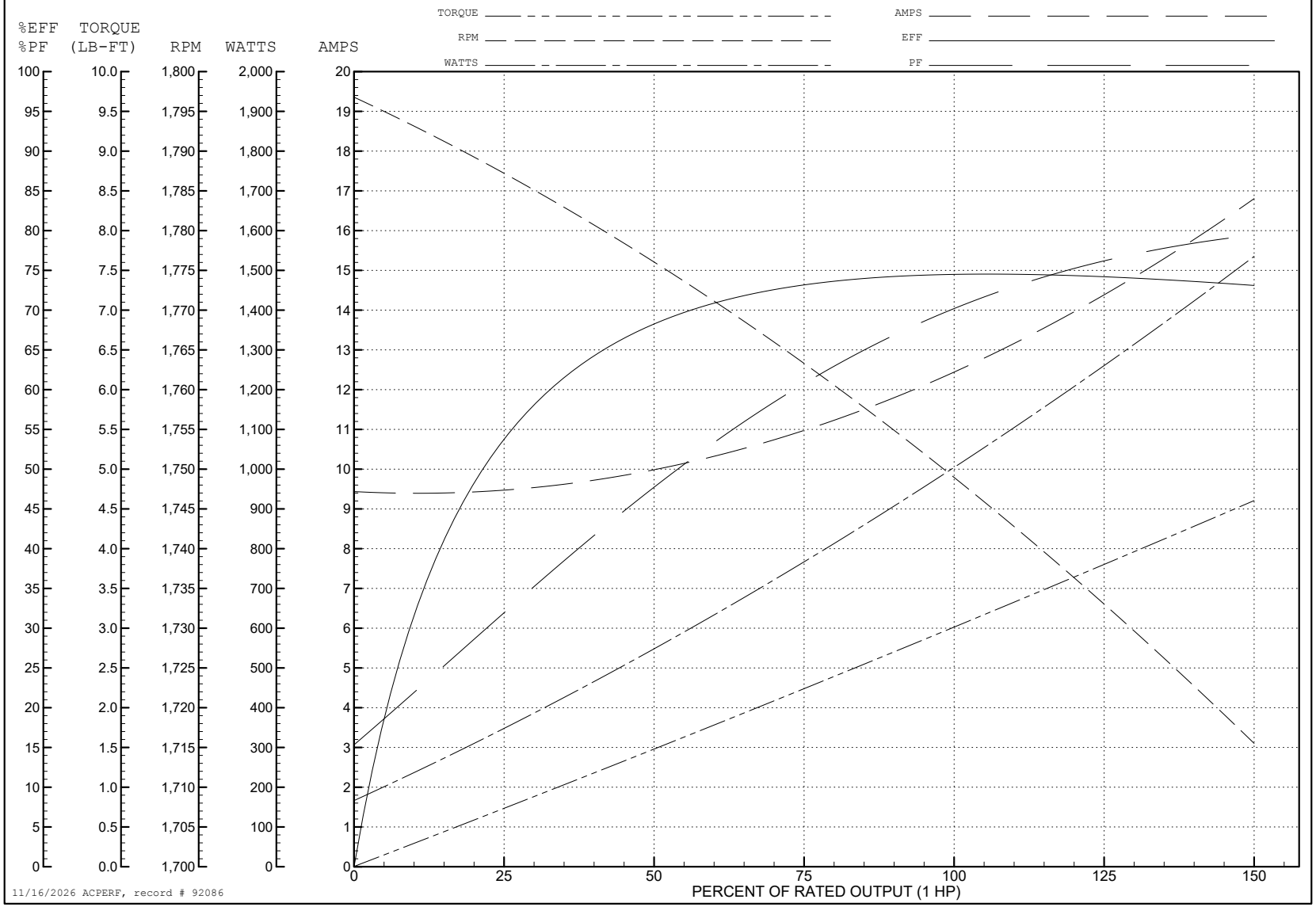
ABB Motors and Mechanical Inc.

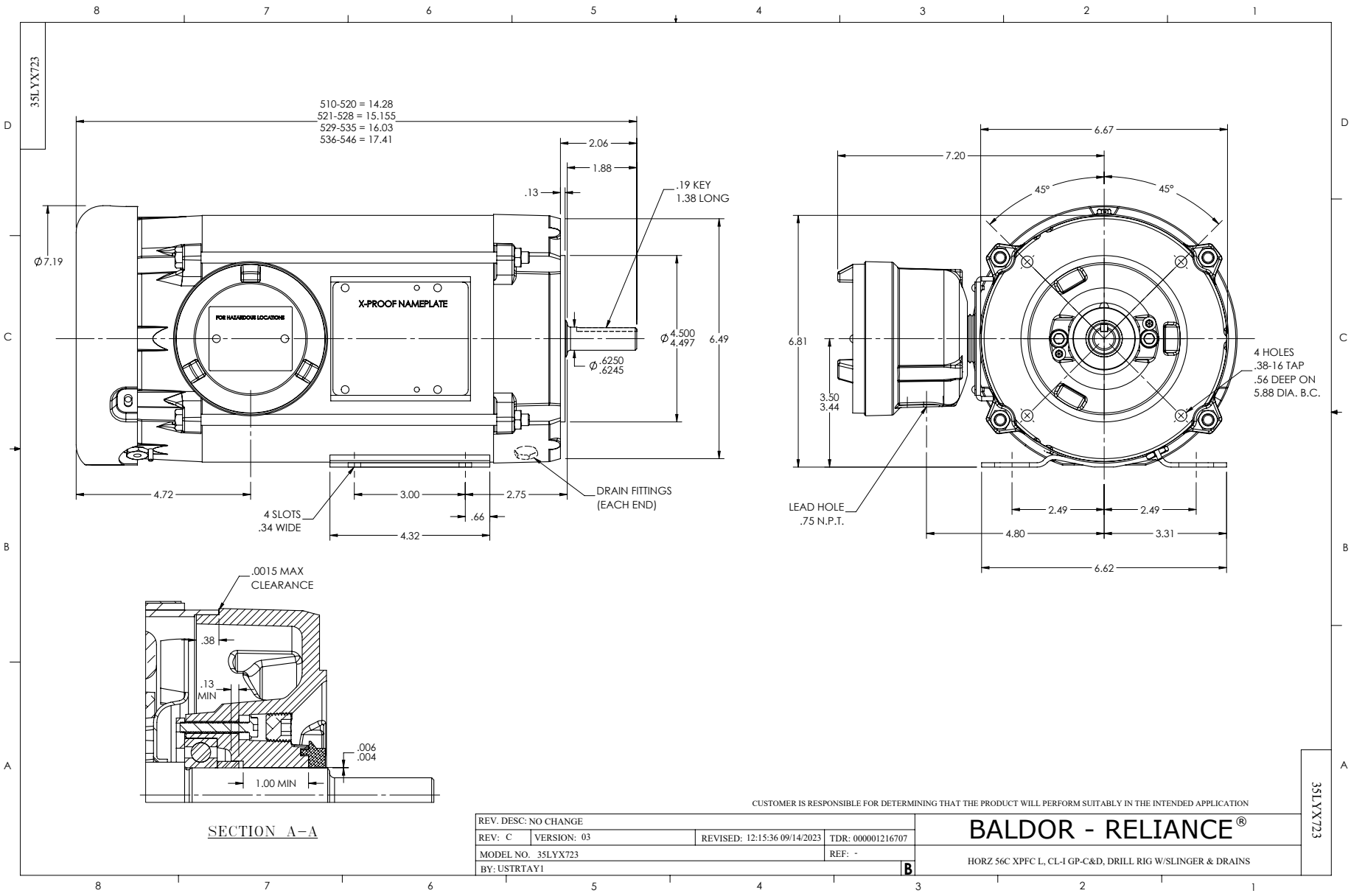
WINDING # 35WGG376

1 HP 1 PH 60 HZ 1750 RPM 115 V 3528L

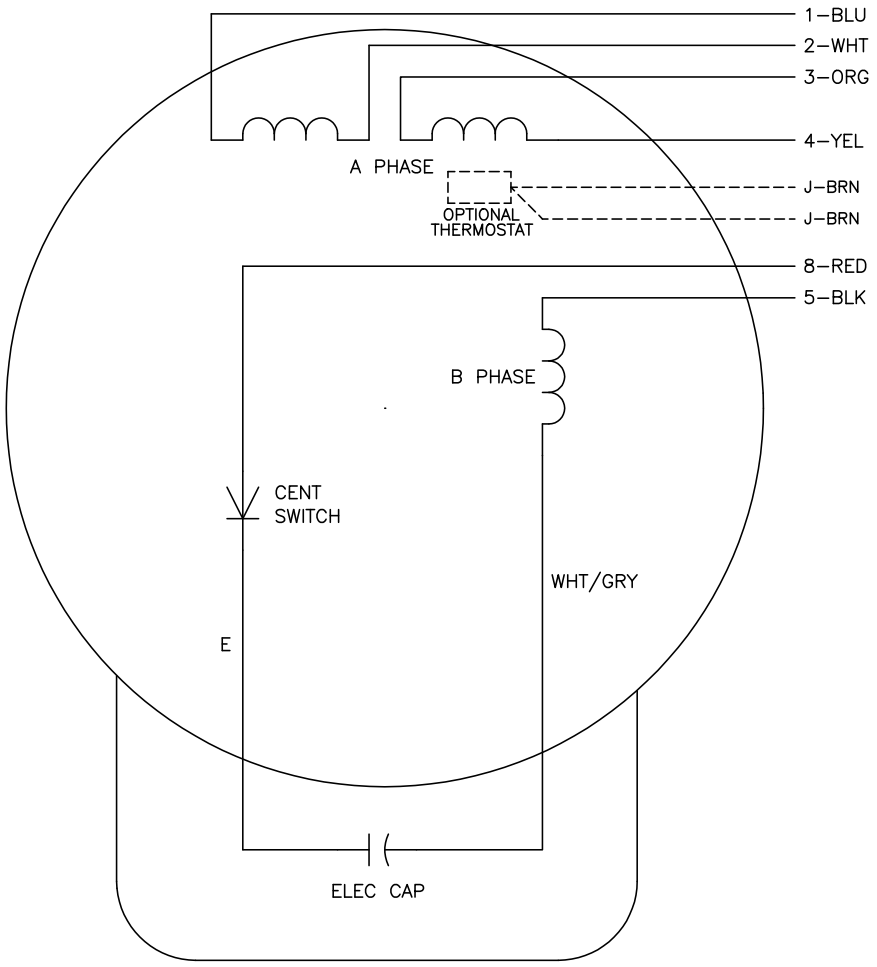
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=9.7 PU=7.8 LR=13.9 LRA=85.3




35LYX723
510-520 = 14.28
521-528 = 15.155
529-535 = 16.03
536-546 = 17.41
2.06
1.88
.13
.19 KEY
1.38 LONG
Ø7.19
X-PROOF NAMEPLATE
FOR HAZARDOUS LOCATIONS
Ø 4.500
4.497
6.49
Ø .6250
.6245
4.72
3.00
2.75
.66
4.32
4 SLOTS
.34 WIDE
DRAIN FITTINGS
(EACH END)
6.67
7.20
45°
45°
6.81
3.50
3.44
4 HOLES
.38-16 TAP
.56 DEEP ON
5.88 DIA. B.C.
LEAD HOLE
.75 N.P.T.
2.49
2.49
4.80
3.31
6.62
.0015 MAX
CLEARANCE
.38
.13
MIN
.006
.004
1.00 MIN
SECTION A–A
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: NO CHANGE
REV: C
VERSION: 03
REVISED: 12:15:36 09/14/2023
TDR: 000001216707
MODEL NO. 35LYX723
REF: -
BY: USTRTAY1
B
BALDOR - RELIANCE®
HORZ 56C XPFC L, CL-I GP-C&D, DRILL RIG W/SLINGER & DRAINS
35LYX723

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