ABB BALDOR RELIANCE

Customer information packet

CXL050742A-50

.75HP, 1450RPM, 1PH, 50HZ, 56C, 3526L, XPFC, F1
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	56C
Frame Material	Steel
Frequency	50.00 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	.750 HP @ 50 HZ
Phase	1
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	110.0 V @ 50 HZ
	220.0 V @ 50 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	9.600 A @ 110.0 V
	4.800 A @ 220.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	72.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.8 a
Insulation Class	F

Part Detail

Revision	D
Type	AC
Mech. spec.	35E365
Base	
Status	PRD/A
Elec. spec.	35WGG414
Layout	35LYE365
Eff. date	09-18-2025
CD Diagram	CD0008
Poles	04
Leads	6#18,1#14 #4TH
Proprietary	False
Created date	02-23-2023

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	X3526L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.15 IN
Power Factor	74
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
Speed	1450 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 1 Location	ES
Winding Thermal 2	None

Nameplate

NP0016XPSL							
NO.			**CC**				
SER. #							
SPEC	35E365G414						
CAT.NO.	CXL050742A-50						
H.P.	.75		**T. CODE**				
VOLTS	110/220						
AMPS	9.6/4.8						
R.P.M.	1450						
HZ	50	**PH**	1		**CLASS**	F	
SER.F.	1.00		**DES**	N	**CODE**	K	
RATING	40C AMB-CONT						
FRAME	56C				**NEMA NOM. EFF**	72	
		PF	74				
BLANK	NEMA MG-1 PART 5, IP54						

AC Induction Motor Performance Data
Record # 50517
Typical performance - not guaranteed values

Winding: 35WGS318-R001	**Type:** 3528L	**Enclosure:** TEFC

Nameplate Data				**110 V, 50 Hz: Low Voltage Connection**	
Rated Output (HP)			.75	**Full Load Torque**	2.68 LB-FT
Volts			110/220	**Start Configuration**	direct on line
Full Load Amps			9.6/4.8	**Breakdown Torque**	11.2 LB-FT
R.P.M.			1425	**Pull-up Torque**	5.85 LB-FT
Hz	50	**Phase**	1	**Locked-rotor Torque**	7.35 LB-FT
NEMA Design Code	N	**KVA Code**	J	**Starting Current**	50.8 A
Service Factor (S.F.)			1	**No-load Current**	6 A
NEMA Nom. Eff.	70	**Power Factor**	76	**Line-line Res. @ 25ºC**	0.825 Ω A Ph 2.35 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	
				Locked-rotor Power Factor	92.8
				Rotor inertia	0.166 LB-FT2

Load Characteristics 110 V, 50 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	38	54	66	74	80	83
Efficiency	56.3	67.9	71.4	71.8	69.5	66.1
Speed	1487	1477	1464	1453	1433	1411
Line amperes	6.32	7.01	8.14	9.47	11.4	13.6

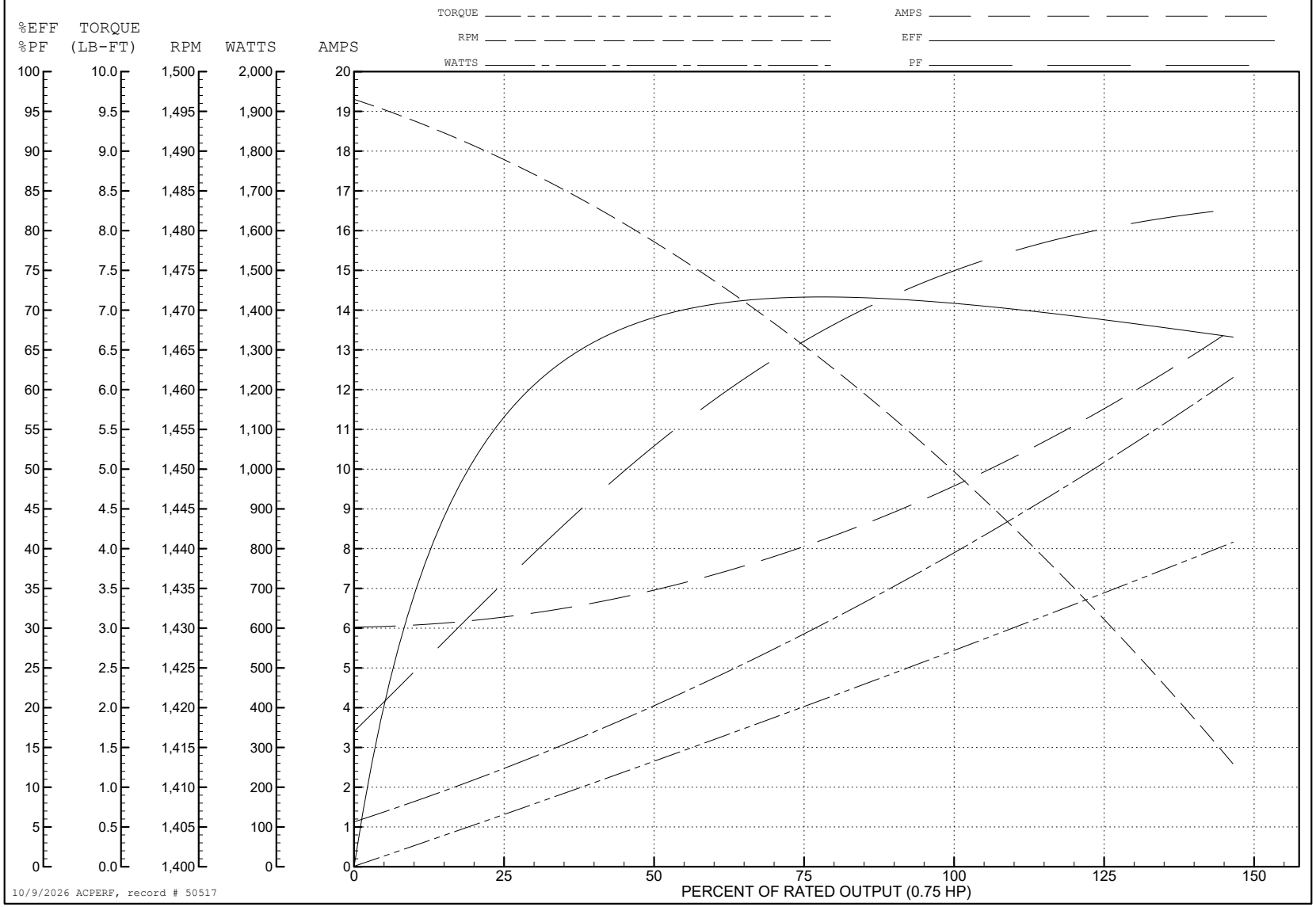
ABB Motors and Mechanical Inc.

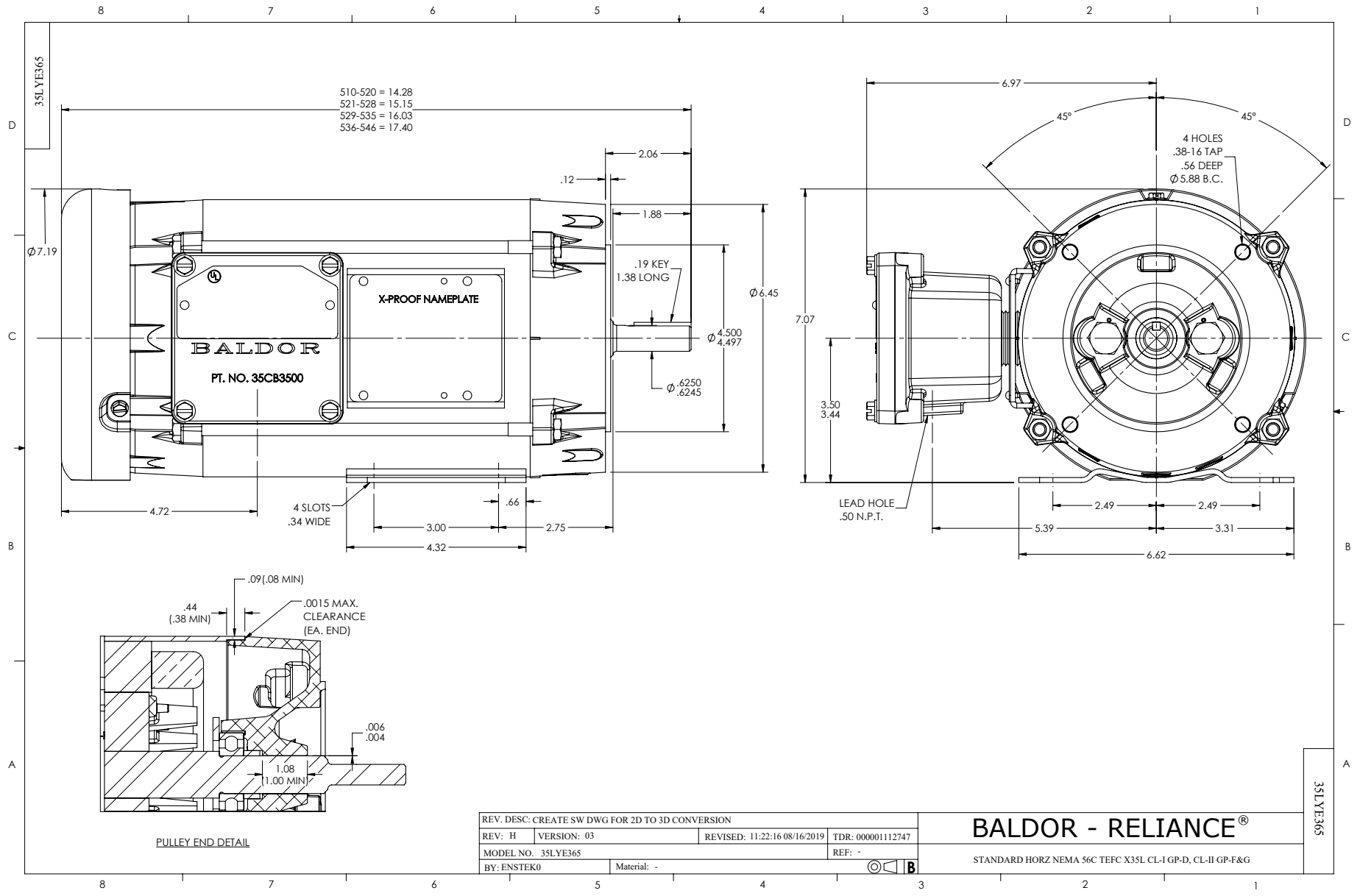
WINDING # 35WGS318

0.75 HP 1 PH 50 HZ 1425 RPM 110 V 3528L

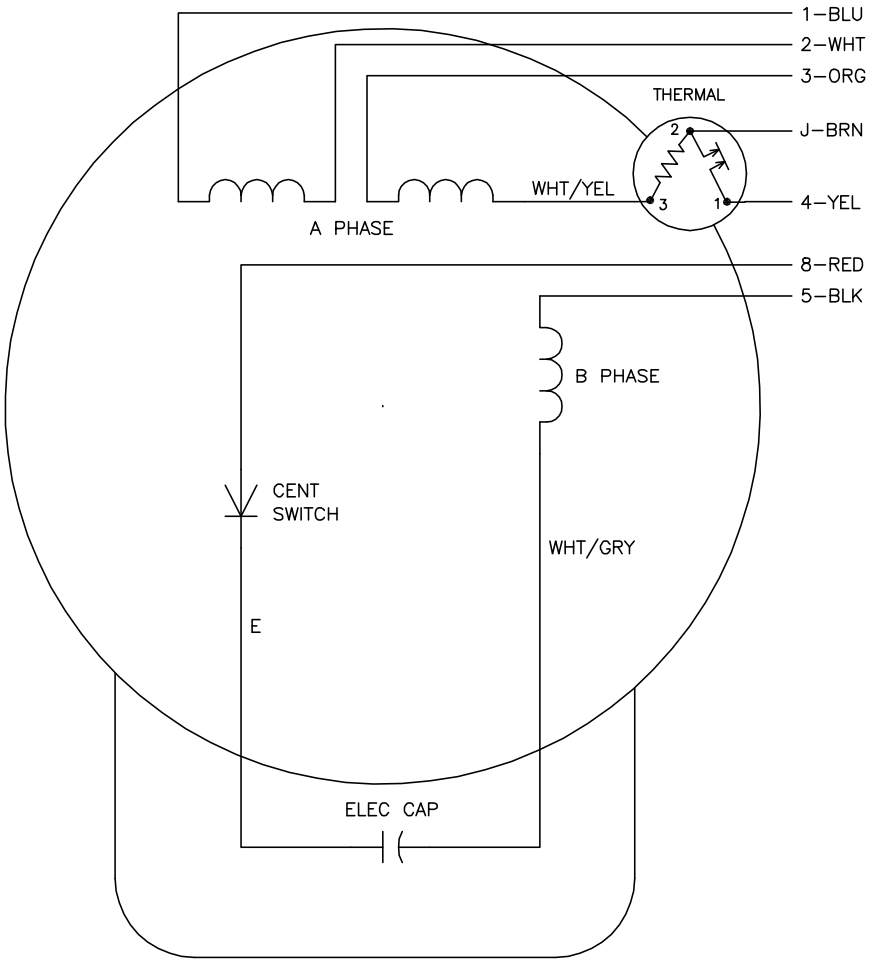
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=11.2 PU=5.85 LR=7.35 LRA=50.8




35LYE365
510-520 = 14.28
521-528 = 15.15
529-535 = 16.03
536-546 = 17.40
2.06
.12
1.88
.19 KEY
1.38 LONG
Ø7.19
Ø6.45
Ø 4.500
4.497
Ø .6250
.6245
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
4.72
4 SLOTS
.34 WIDE
.66
3.00
2.75
4.32
6.97
45°
45°
4 HOLES
.38-16 TAP
.56 DEEP
Ø 5.88 B.C.
7.07
3.50
3.44
LEAD HOLE
.50 N.P.T.
2.49
2.49
5.39
3.31
6.62
.09(.08 MIN)
.44
(.38 MIN)
.0015 MAX.
CLEARANCE
(EA. END)
.006
.004
1.08
(1.00 MIN)
PULLEY END DETAIL
REV. DESC: CREATE SW DWG FOR 2D TO 3D CONVERSION
REV: H
VERSION: 03
REVISED: 11:22:16 08/16/2019
TDR: 000001112747
MODEL NO. 35LYE365
REF: -
BY: ENSTEK0
Material: -
B
BALDOR - RELIANCE®
STANDARD HORZ NEMA 56C TEFC X35L CL-I GP-D, CL-II GP-F&G
35LYE365

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	