ABB BALDOR RELIANCE

Customer information packet

CXL05142-50

1HP, 1450RPM, 1PH, 50HZ, 56C, 3546L, XPFC, F1, N
Class - CLI GP D; CLII GP F,G
Division - Division I

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/16/2026 4:25:52 AM

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	1.000 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	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	12.500 A @ 110.0 V
	6.300 A @ 220.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	71.0 %
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	6.3 a

Part Detail

Revision	C
Type	AC
Mech. spec.	35E367
Base	
Status	PRD/A
Elec. spec.	35WGG478
Layout	35LYE367
Eff. date	08-15-2024
CD Diagram	CD0001
Poles	04
Leads	6#18
Proprietary	False
Created date	12-01-2022

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
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	X3546L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.41 IN
Power Factor	77
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1450 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.	35E367G478						
CAT.NO.	CXL05142-50						
HP	1	**T. CODE**	T3C				
VOLTS	110/220						
AMPS	12.5/6.3						
RPM	1450						
HZ	50	**PH**	1	**CL**	F		
SER.F.	1.15	**DES**	L	**CODE**	H		
RATING	40C AMB-CONT						
FRAME	56C	**NEMA-NOM-EFF**	71				
	PF	77					
BLANK	NEMA MG-1 PART 5, IP54						

AC Induction Motor Performance Data
Record # 92477
Preliminary Data Sheet

Winding: 35WGG478-R001 **Type:** 3546L **Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			1
Volts			110/220
Full Load Amps			11.3/5.7
R.P.M.			1450
Hz	50	**Phase**	1
NEMA Design Code	L	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	77	**Power Factor**	77
Rating - Duty			40C AMB-CONT
S.F. Amps			

110 V, 50 Hz: Low Voltage Connection	
Full Load Torque	3.65 LB-FT
Start Configuration	direct on line
Breakdown Torque	9 LB-FT
Pull-up Torque	2.2 LB-FT
Locked-rotor Torque	4.6 LB-FT
Starting Current	61.3 A
No-load Current	7.27 A
Line-line Res. @ 25ºC	0.61 Ω A Ph 2.13 Ω B Ph
Temp. Rise @ Rated Load	60°C
Temp. Rise @ S.F. Load	73°C
Locked-rotor Power Factor	80.1
Rotor inertia	0.333 lb-ft²

Load Characteristics 110 V, 50 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	41	57	69	77	82	85	80
Efficiency	53.7	66.6	70.8	71.4	70	66.3	70.6
Speed	1485	1475	1463	1449	1435	1414	1441
Line amperes	7.86	8.95	10.51	12.49	14.67	17.68	13.8

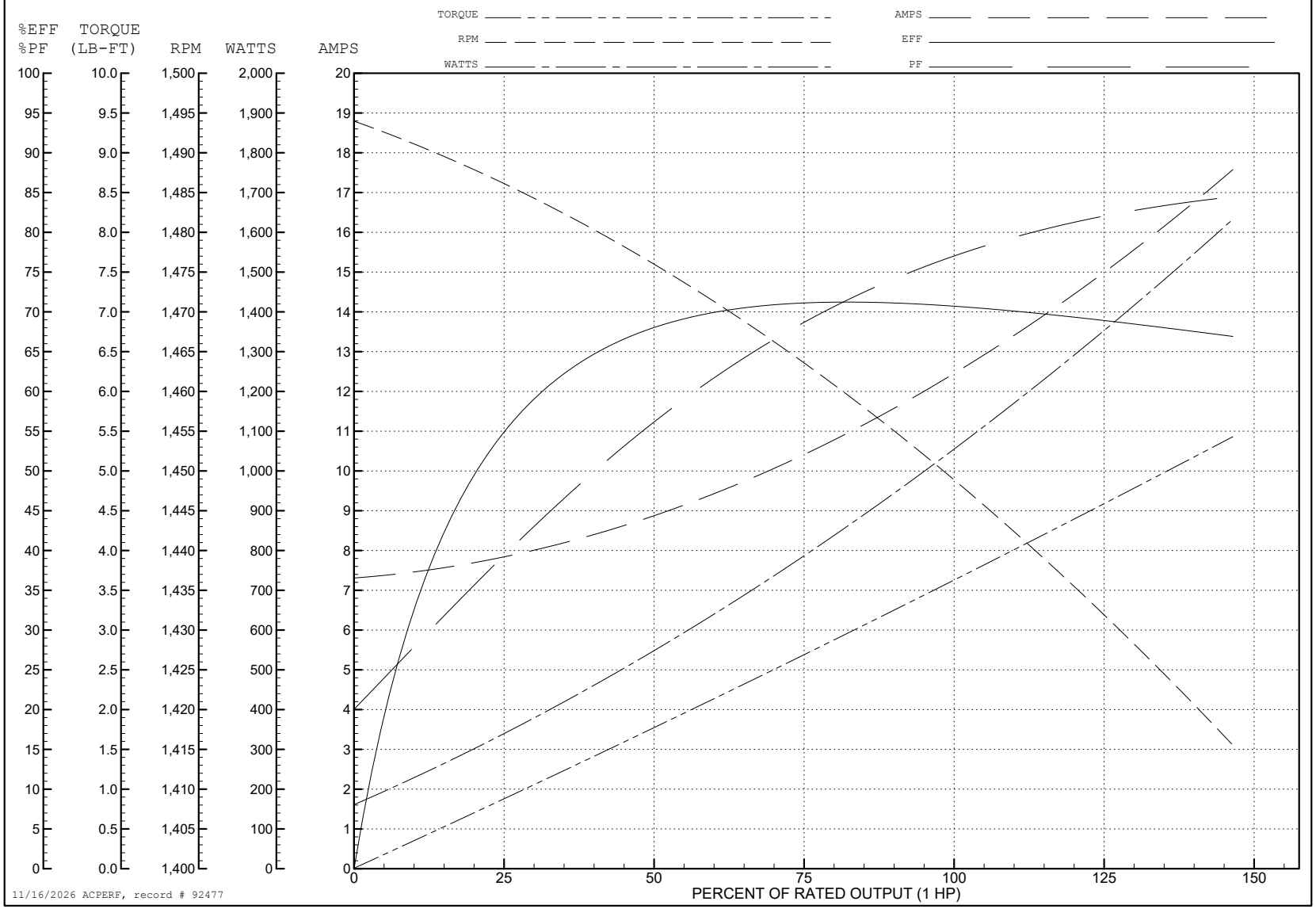
ABB Motors and Mechanical Inc.

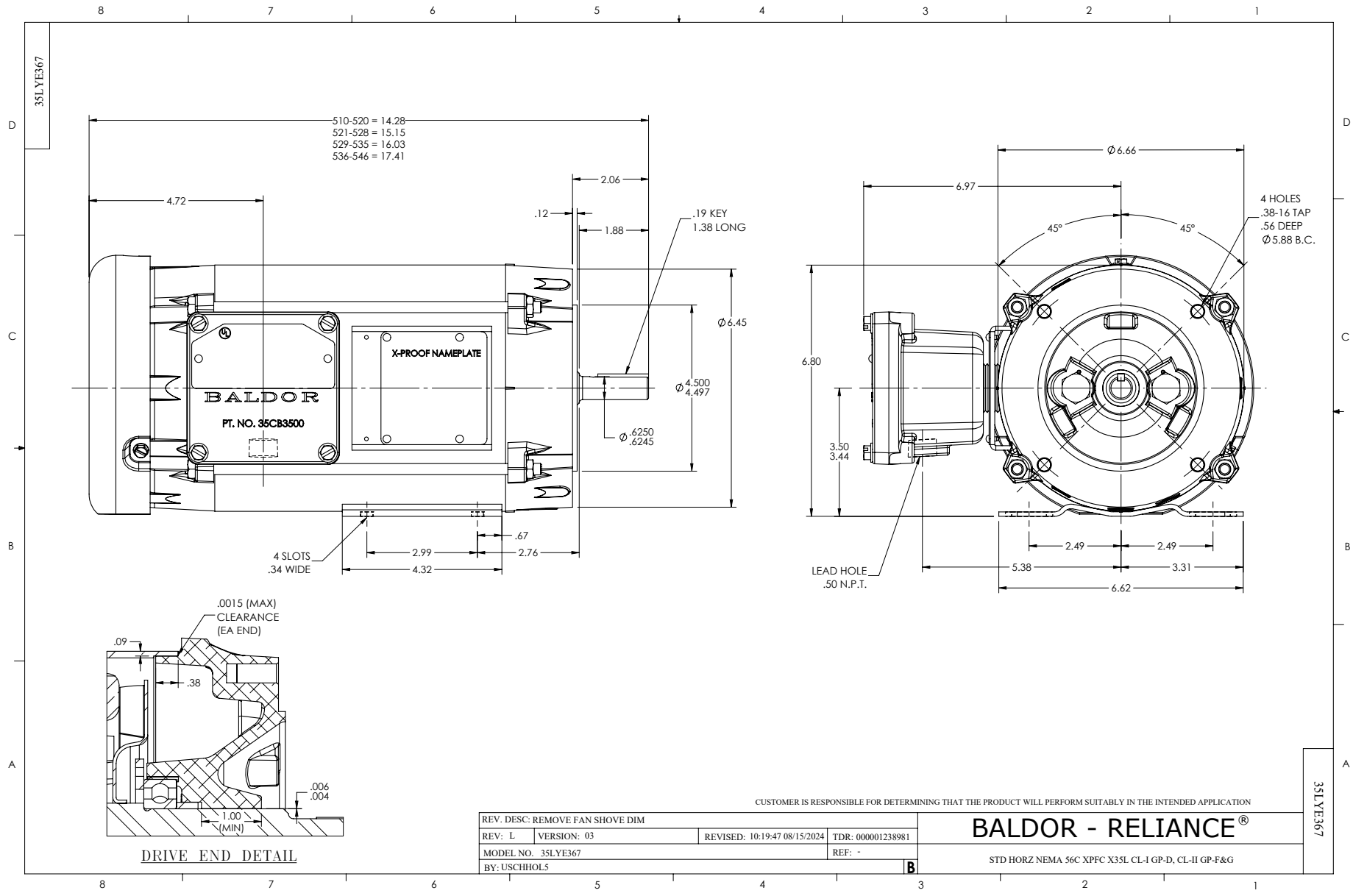
WINDING # 35WGG478

1 HP 1 PH 50 HZ 1450 RPM 110 V 3546L

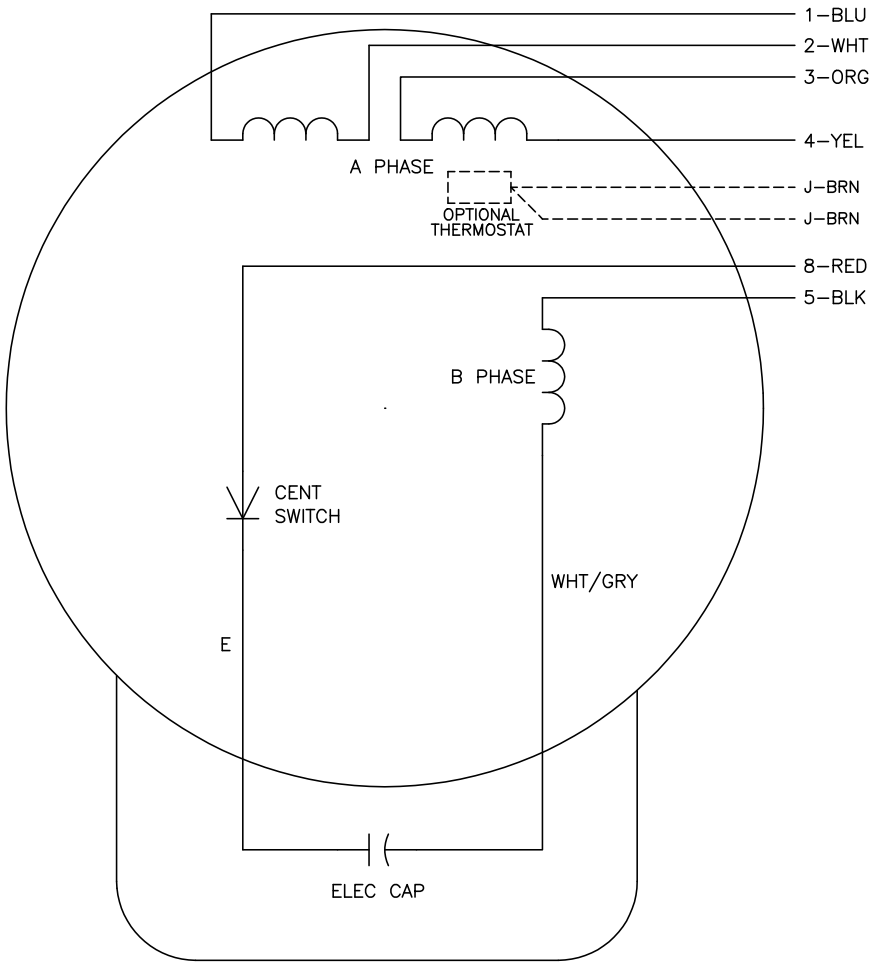
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=9 PU=2.2 LR=4.6 LRA=61.3




35LYE367
510-520 = 14.28
521-528 = 15.15
529-535 = 16.03
536-546 = 17.41
4.72
2.06
.12
1.88
.19 KEY
1.38 LONG
Ø6.45
Ø4.500
4.497
Ø.6250
.6245
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
4 SLOTS
.34 WIDE
2.99
2.76
.67
4.32
Ø6.66
6.97
4 HOLES
.38-16 TAP
.56 DEEP
Ø5.88 B.C.
45°
45°
6.80
3.50
3.44
2.49
2.49
LEAD HOLE
.50 N.P.T.
5.38
3.31
6.62
.0015 (MAX)
CLEARANCE
(EA END)
.09
.38
.006
.004
1.00
(MIN)
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REMOVE FAN SHOVE DIM
REV: L
VERSION: 03
REVISED: 10:19:47 08/15/2024
TDR: 000001238981
MODEL NO. 35LYE367
REF: -
BY: USCHHOL5
B
BALDOR - RELIANCE®
STD HORZ NEMA 56C XPFC X35L CL-I GP-D, CL-II GP-F&G
35LYE367

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