

ABB BALDOR RELIANCE III

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

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			110 V, 50 Hz: Low Voltage Connection				
Rated Output (HP)		1	Full Load Torque		3.65 LB-FT		
Volts		110/220	Start Configuration		direct on line		
Full Load Amps		11.3/5.7	Breakdown Torque		9 LB-FT		
R.P.M.		1450	Pull-up Torque		2.2 LB-FT		
Hz	50	Phase	1	Locked-rotor Torque		4.6 LB-FT	
NEMA Design Code		L	KVA Code	J	Starting Current		61.3 A
Service Factor (S.F.)		1.15		No-load Current		7.27 A	
NEMA Nom. Eff.		77	Power Factor	77	Line-line Res. @ 25°C		0.61 Ω A Ph 2.13 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		60°C	
S.F. Amps				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

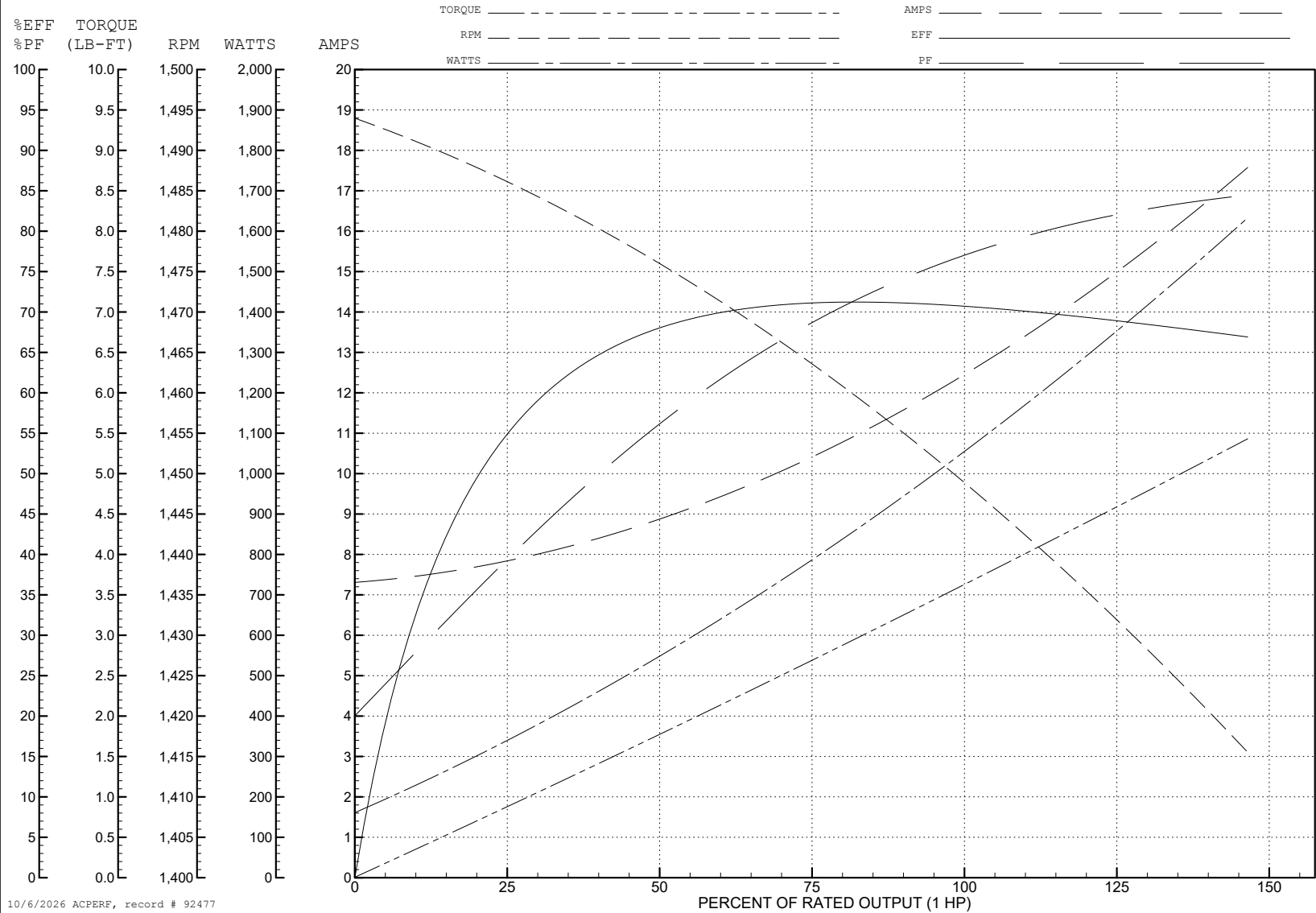
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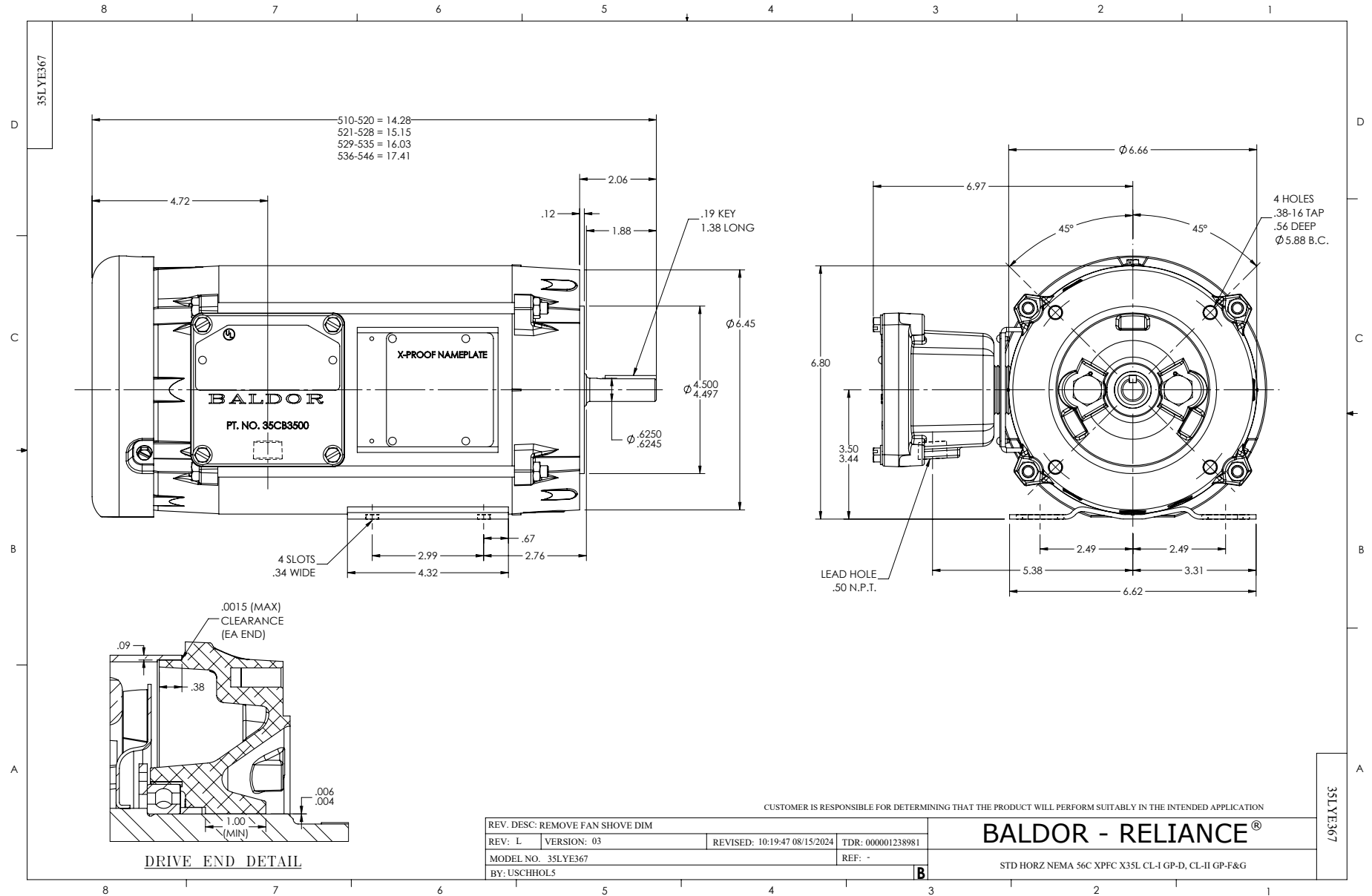
WINDING # 35WGG478

Typical performance - not guaranteed values.

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

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





CD0001

