

ABB BALDOR RELIANCE III

Customer information packet

VXL051542A

1.5HP, 1730RPM, 1PH, 60HZ, 56C, 3546L, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	56C
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	1.500 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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	16.000 A @ 115.0 V 8.000 A @ 230.0 V
Design Code	L
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
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	8.0 a

Part Detail

Revision	J
Type	AC
Mech. spec.	35E371
Base	
Status	PRD/A
Elec. spec.	35WGG411
Layout	35LYE371
Eff. date	04-30-2026
CD Diagram	CD0008
Poles	04
Leads	3#16,3#18 B&J,1#14 #4TH
Proprietary	False
Created date	02-12-2024

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3546L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.17 IN
Power Factor	82
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1730 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	Automatic Thermal Overload
Winding Thermal 1 Location	EP
Winding Thermal 2	None

Nameplate

NP0016XPSL									
NO.		CC							
SER. #									
SPEC	35E371G411G1								
CAT.NO.	VXL051542A								
H.P.	1.5		T. CODE	T3C					
VOLTS	115/230								
AMPS	16/8								
R.P.M.	1730								
HZ	60		PH	1		CLASS	F		
SER.F.	1.00		DES	L		CODE	G		
RATING	40C AMB-CONT								
FRAME	56C		NEMA NOM. EFF					72	
		PF	82						
BLANK	NEMA MG-1 PART 5, IP54								

AC Induction Motor Performance Data

Record # 109898

Typical performance - not guaranteed values

Winding: 35WGG411-R004			Type: 3546L		Enclosure: XPFC		
Nameplate Data				115 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		1.5		Full Load Torque		4.547 LB-FT	
Volts		115/230		Start Configuration		direct on line	
Full Load Amps		16/8		Breakdown Torque		9.35 LB-FT	
R.P.M.		1730		Pull-up Torque		6.59 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		9.7 LB-FT	
NEMA Design Code		L	KVA Code	G	Starting Current		78.1 A
Service Factor (S.F.)		1		No-load Current		7.56 A	
NEMA Nom. Eff.		72	Power Factor	82	Line-line Res. @ 25°C		0.52386 Ω A Ph 1.5706 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		72°C	

Load Characteristics 115 V, 60 Hz, 1.5 HP

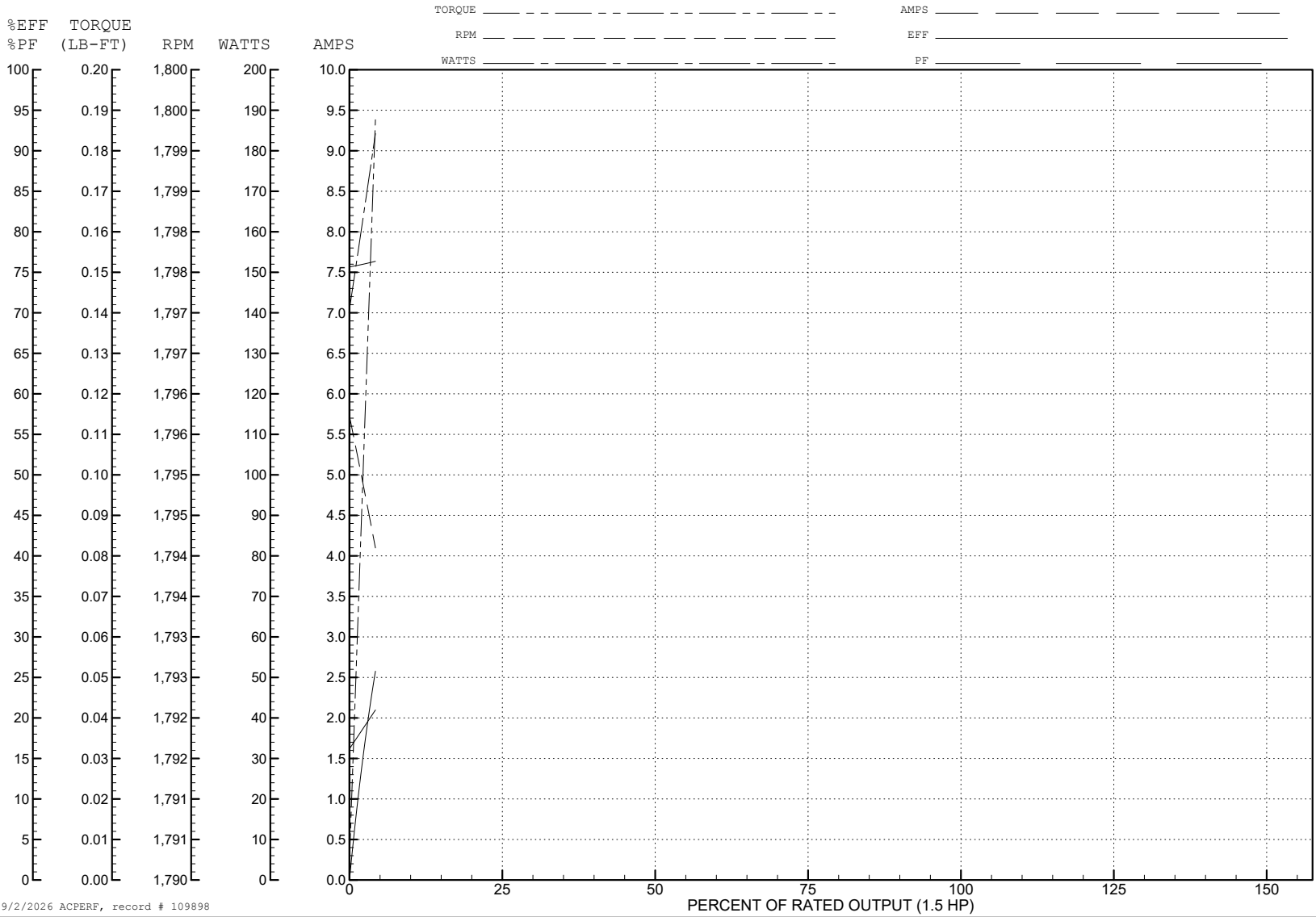
% of Rated Load	25	50	75	100	125	150
Power Factor	45	64	76	82	85	20
Efficiency	64.6	73.6	74.6	72.3	67.7	26.1
Speed	1782.9	1768.3	1751	1728.5	1698.8	1794.2
Line amperes	8.31	10.1	12.7	16.1	20.6	7.65

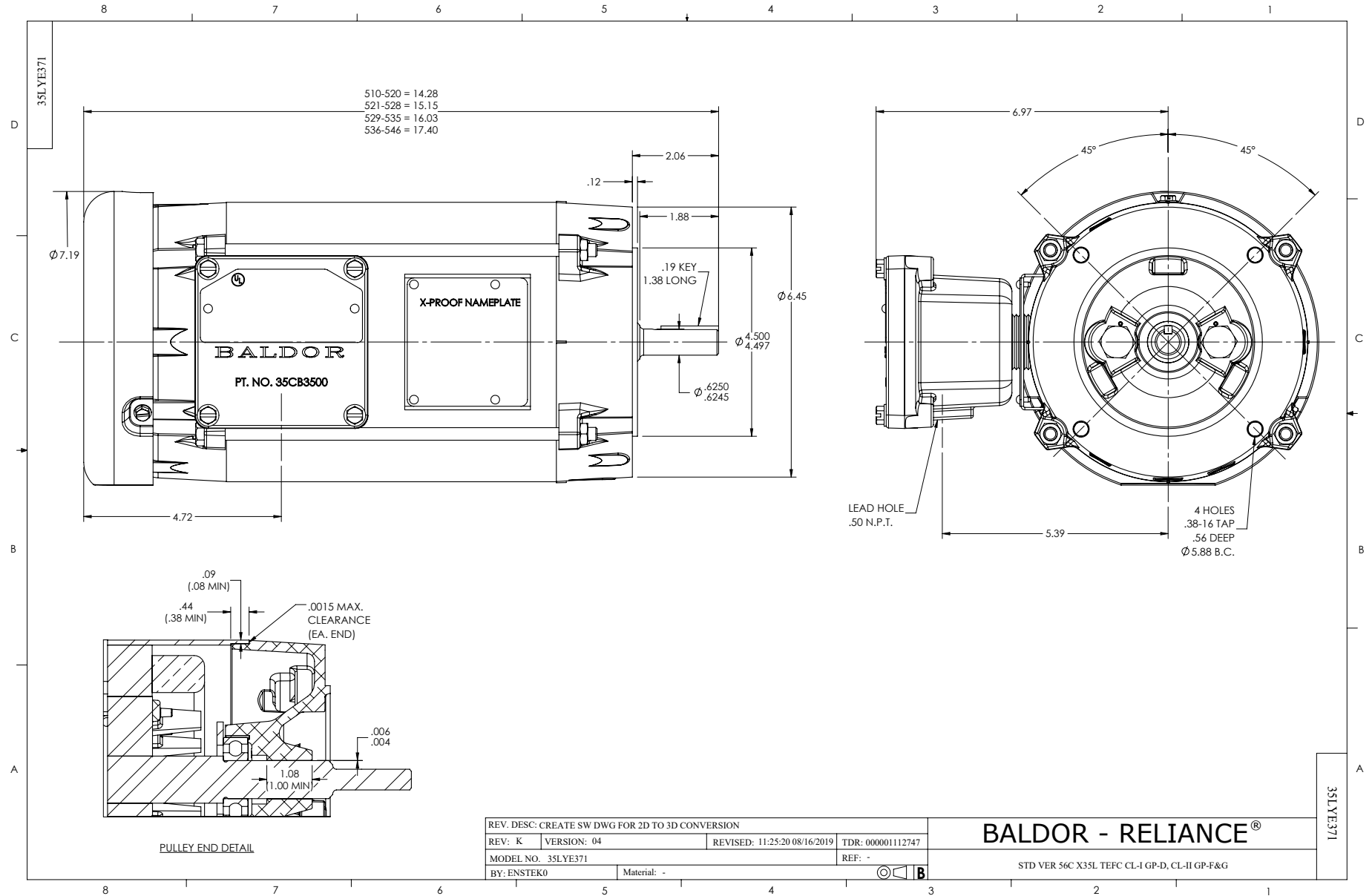
ABB Motors and Mechanical Inc.

WINDING # 35WGG411

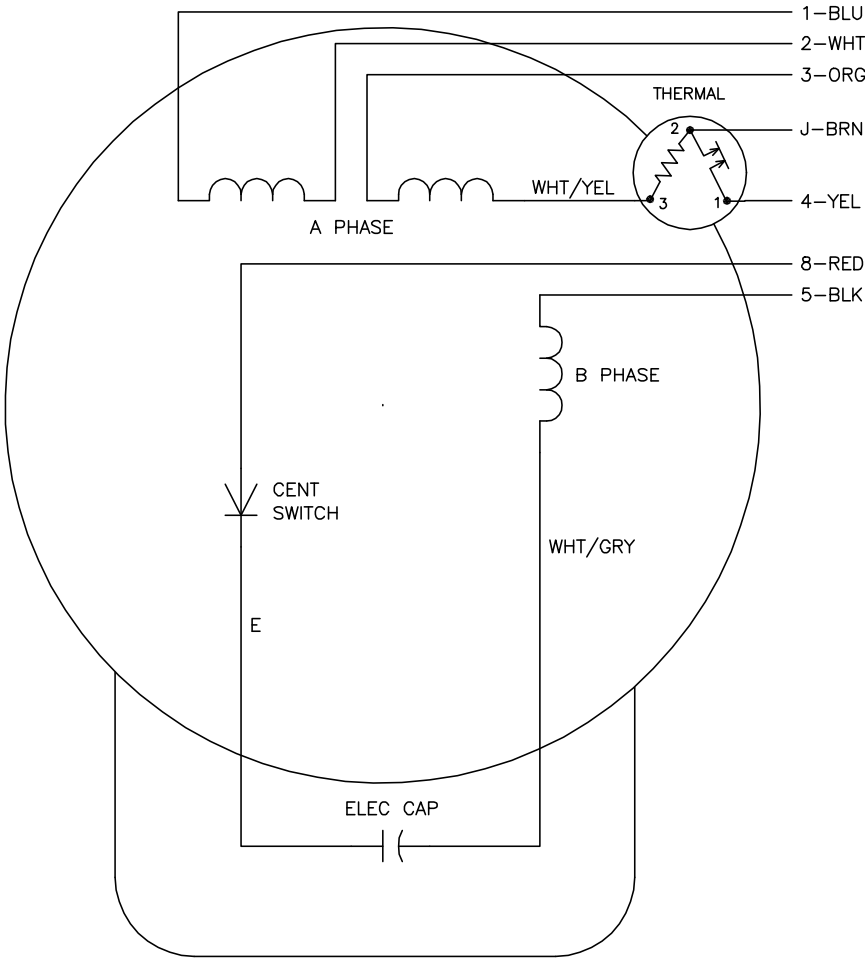
Typical performance - not guaranteed values.

1.5 HP 1 PH 60 HZ 1730 RPM 115 V 3546L
TORQUES (LB-FT) : PO=9.35 PU=6.59 LR=9.7 LRA=78.1





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.

REV. DESC: REMOVE 2-TERMINAL THERMAL DETAIL, SEE CD0008A02		
REV. LTR: F	VERSION: 01	TDR: 000000360649
800000	FILE: \AAA\00007\408	REVISED: 10:56:54 04/18/2005
	MTL: —	BY: ENJOEPO

BALDOR ELECTRIC Co.

TYPE L, DV, REV, THERMAL, 7 LEADS

CD0008