

ABB BALDOR RELIANCE III

Customer information packet

XL050522A

0.5HP, 3450RPM, 1PH, 60HZ, 56, 3420L, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	56
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	.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 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	4.700 A @ 230.0 V 9.400 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	60.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	4.7 a
Insulation Class	B

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	34WG0656
Layout	34LY5492
Eff. date	05-01-2024
CD Diagram	CD0565
Poles	02
Leads	6#18,1#16 4TH
Proprietary	False
Created date	05-07-2021

Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3420L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	14.22 IN
Power Factor	60
Product Family	Hazardous Location Motor
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3450 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	34-0000-0421								
CAT.NO.	XL050522A								
H.P.	.5		T. CODE		T3C				
VOLTS	115/230								
AMPS	9.4/4.7								
R.P.M.	3450 34WG0656								
HZ	60		PH	1	CLASS		B		
SER.F.	1.00		DES	N	CODE		N		
RATING	40C AMB-CONT								
FRAME	56		NEMA NOM. EFF					60	
		PF	60						
BLANK	NEMA MG-1 PART 5, IP54								

AC Induction Motor Performance Data

Record # 88187

Typical performance - not guaranteed values

Winding: 34WG0656				Type: 3420L		Enclosure: XPFC	
Nameplate Data				115 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		0.5		Full Load Torque		0.753 LB-FT	
Volts		115/230		Start Configuration		Unknown	
Full Load Amps		9.4/4.7		Breakdown Torque		2.82 LB-FT	
R.P.M.		3450		Pull-up Torque		2.31 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		3.13 LB-FT	
NEMA Design Code		N	KVA Code	Starting Current		44.9 A	
Service Factor (S.F.)		1		No-load Current		8.19 A	
NEMA Nom. Eff.		60	Power Factor	Line-line Res. @ 25°C		0.782 Ω A Ph 2.48 Ω B Ph	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		69°C	
				Locked-rotor Power Factor		95.1	
				Rotor inertia		0.0186 lb-ft²	

Load Characteristics 115 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	35	44	53	60	67	72
Efficiency	27.8	42.6	51.4	56.9	60.2	62.1
Speed	3561	3540	3516	3491	3464	3434
Line amperes	8.33	8.59	8.97	9.48	10.1	10.9

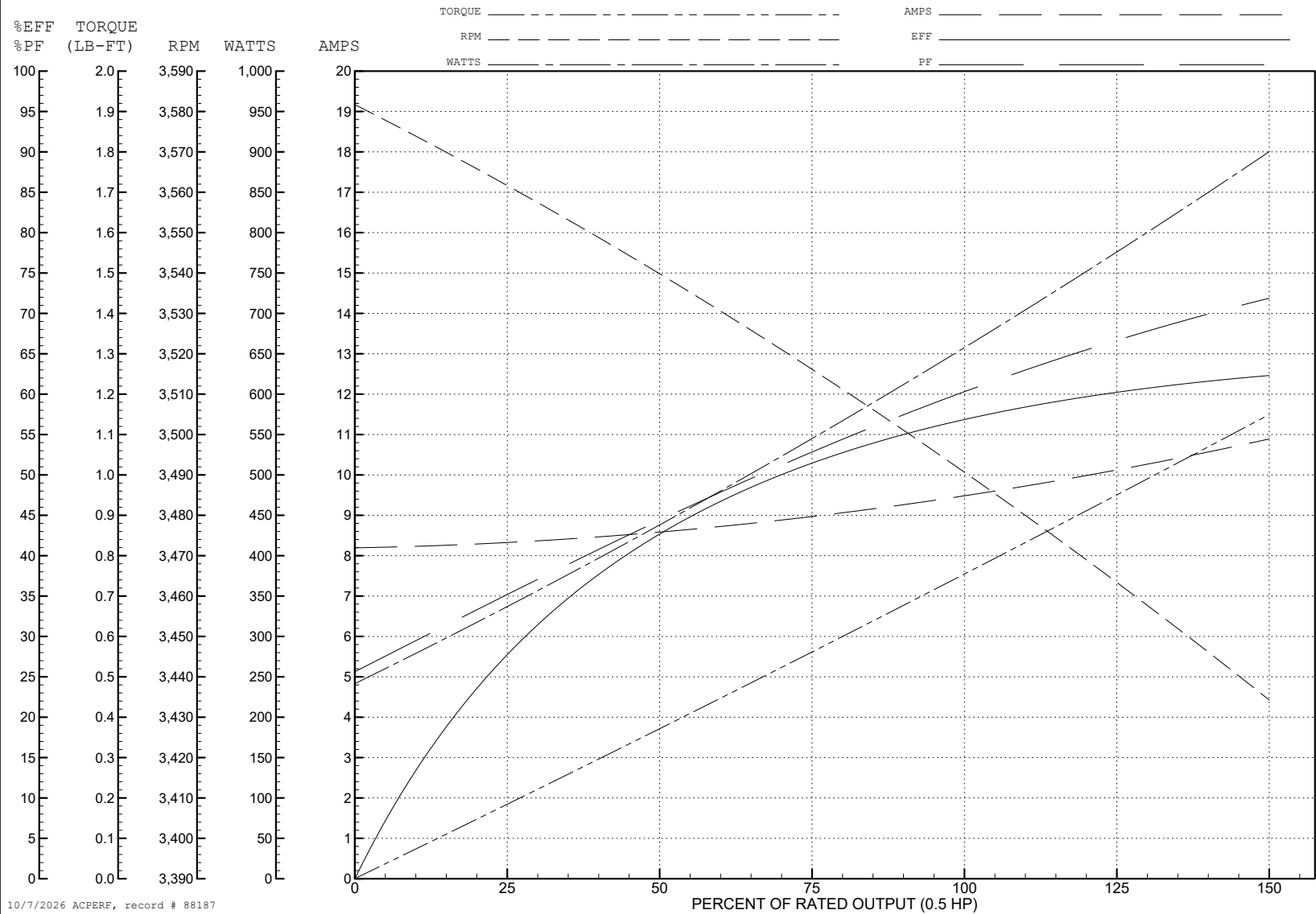
ABB Motors and Mechanical Inc.

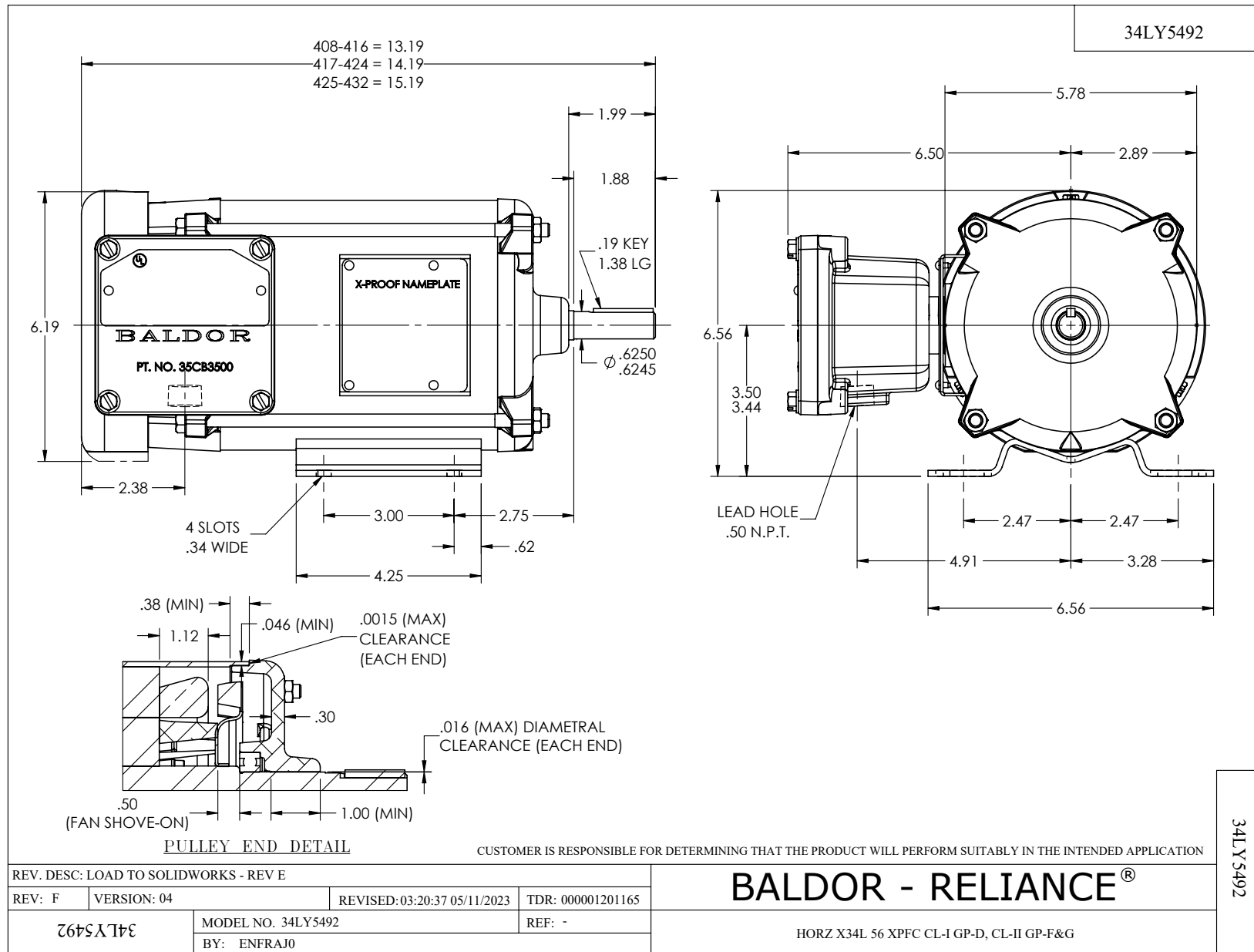
WINDING # 34WG0656

Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 3450 RPM 115 V 3420L

TORQUES (LB-FT) : PO=2.82 PU=2.31 LR=3.13 LRA=44.9





CD0565

