

ABB BALDOR RELIANCE III

Customer information packet

VL4005A

1/3HP/3450RPM/1PH/NEMA 56C

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	.330 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	UR 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	3.500 A @ 230.0 V 7.000 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	57.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C

Part Detail

Revision	X
Type	AC
Mech. spec.	34-5337
Base	
Status	PRD/A
Elec. spec.	34WG5719
Layout	34LY5337
Eff. date	02-19-2026
CD Diagram	CD0565
Poles	02
Leads	6#18,1#16 #4TH
Proprietary	False
Created date	12-21-2007

Heater Indicator	No Heater
High Voltage Full Load Amps	3.5 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3416L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.22 IN
Power Factor	71
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	1.35
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
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	SB
Winding Thermal 2	None

Nameplate

NP0016XPSL									
NO.		CC							
SER. #									
SPEC	34-5337-5719G1								
CAT.NO.	VL4005A								
H.P.	.33		T. CODE		T3C				
VOLTS	115/230								
AMPS	7/3.5								
R.P.M.	3450								
HZ	60		PH	1	CLASS		B		
SER.F.	1.35		DES	N	CODE		K		
RATING	40C AMB-CONT								
FRAME	56C		NEMA NOM. EFF					57	
		PF	71						
BLANK	SFA 7.4/3.7								

AC Induction Motor Performance Data

Record # 36352

Typical performance - not guaranteed values

Winding: 34WG5719-R005			Type: 3416L		Enclosure: XPFC		
Nameplate Data			230 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.33	Full Load Torque		0.75 LB-FT		
Volts		115/230	Start Configuration		direct on line		
Full Load Amps		7/3.5	Breakdown Torque		2 LB-FT		
R.P.M.		3450	Pull-up Torque		1.6 LB-FT		
Hz	60 Phase	1	Locked-rotor Torque		3 LB-FT		
NEMA Design Code		N	KVA Code		K	Starting Current	18.5 A
Service Factor (S.F.)		1.35	No-load Current		2.95 A		
NEMA Nom. Eff.		57	Power Factor		71	Line-line Res. @ 25°C	4.72 Ω A Ph 3.76 Ω B Ph
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		78°C		
S.F. Amps		7.4/3.7	Temp. Rise @ S.F. Load		105°C		

Load Characteristics 230 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	49	61	69	74	78	76
Efficiency	38.3	49.7	57.4	60.7	60.9	59.8	60.5
Speed	3530	3490	3450	3420	3380	3340	3364
Line amperes	3	3.2	3.5	3.9	4.4	4.95	4.62

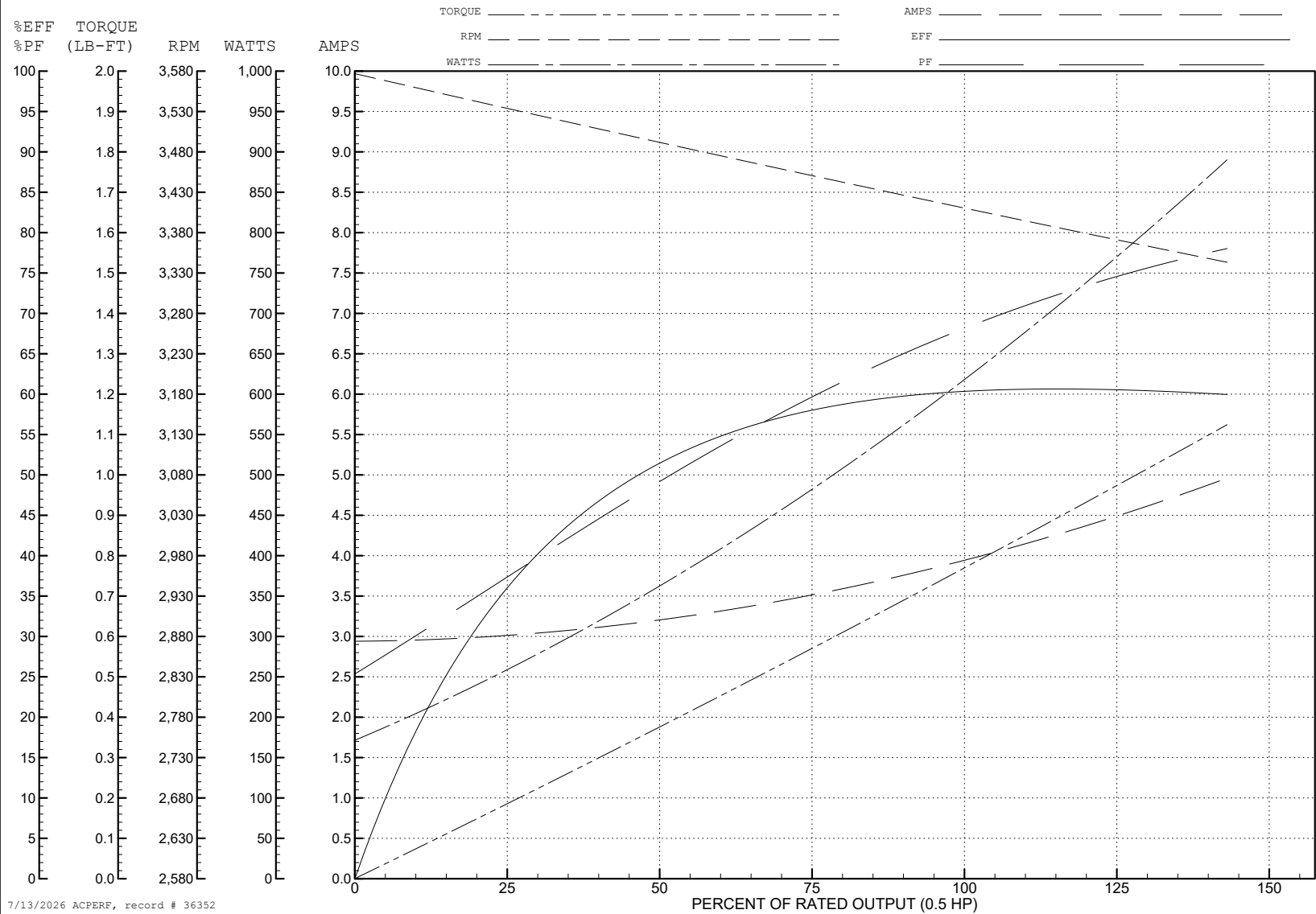
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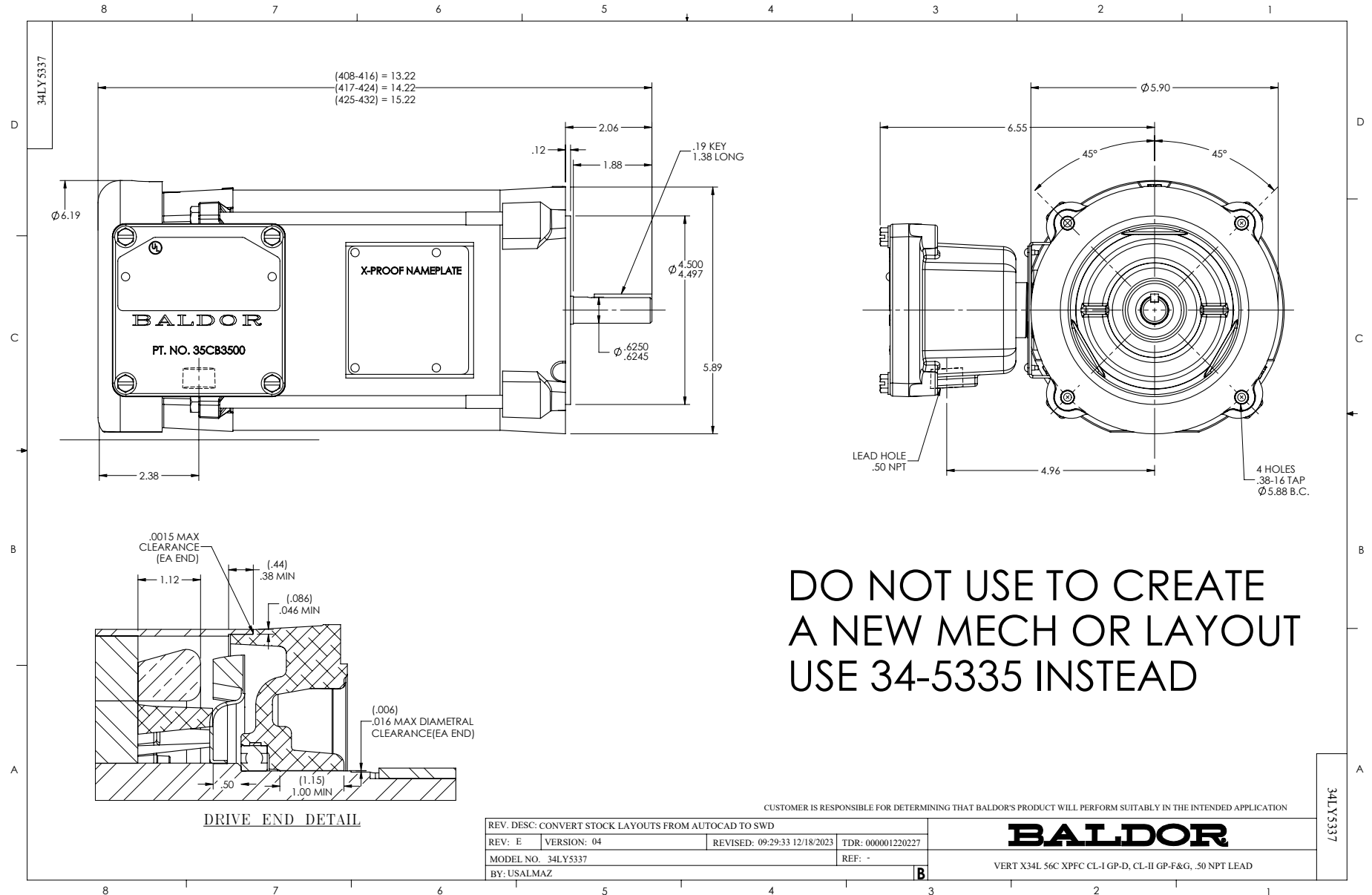
WINDING # 34WG5719

Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 3450 RPM 230 V 3416L

TORQUES (LB-FT) : PO=2 PU=1.6 LR=3 LRA=18.5





CD0565

