ABB BALDOR RELIANCE

Customer information packet

VL4005A

1/3HP/3450RPM/1PH/NEMA 56C
Class - CLI GP D; CLII GP F,G
Division - Division I

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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						

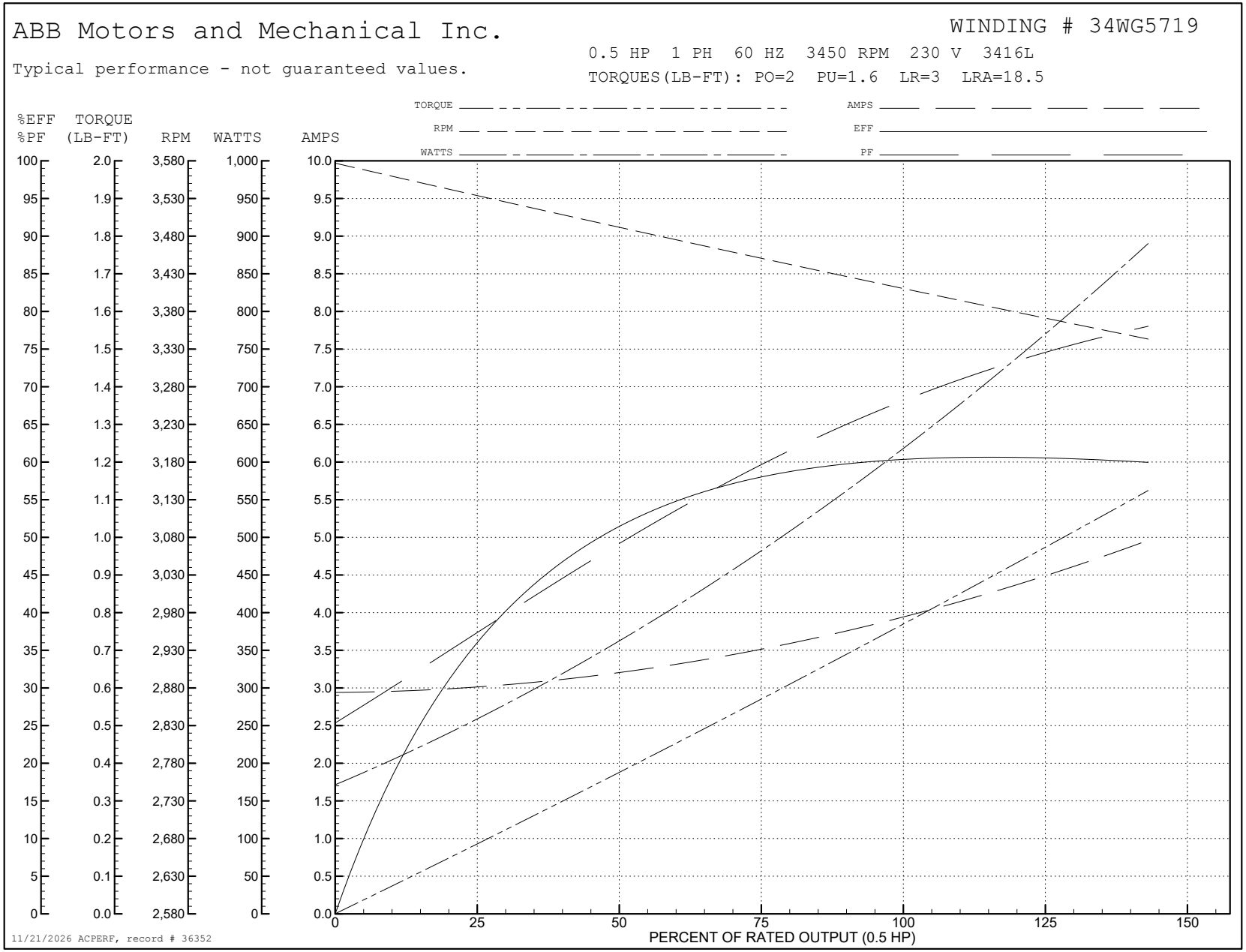
AC Induction Motor Performance Data
Record # 36352
Typical performance - not guaranteed values

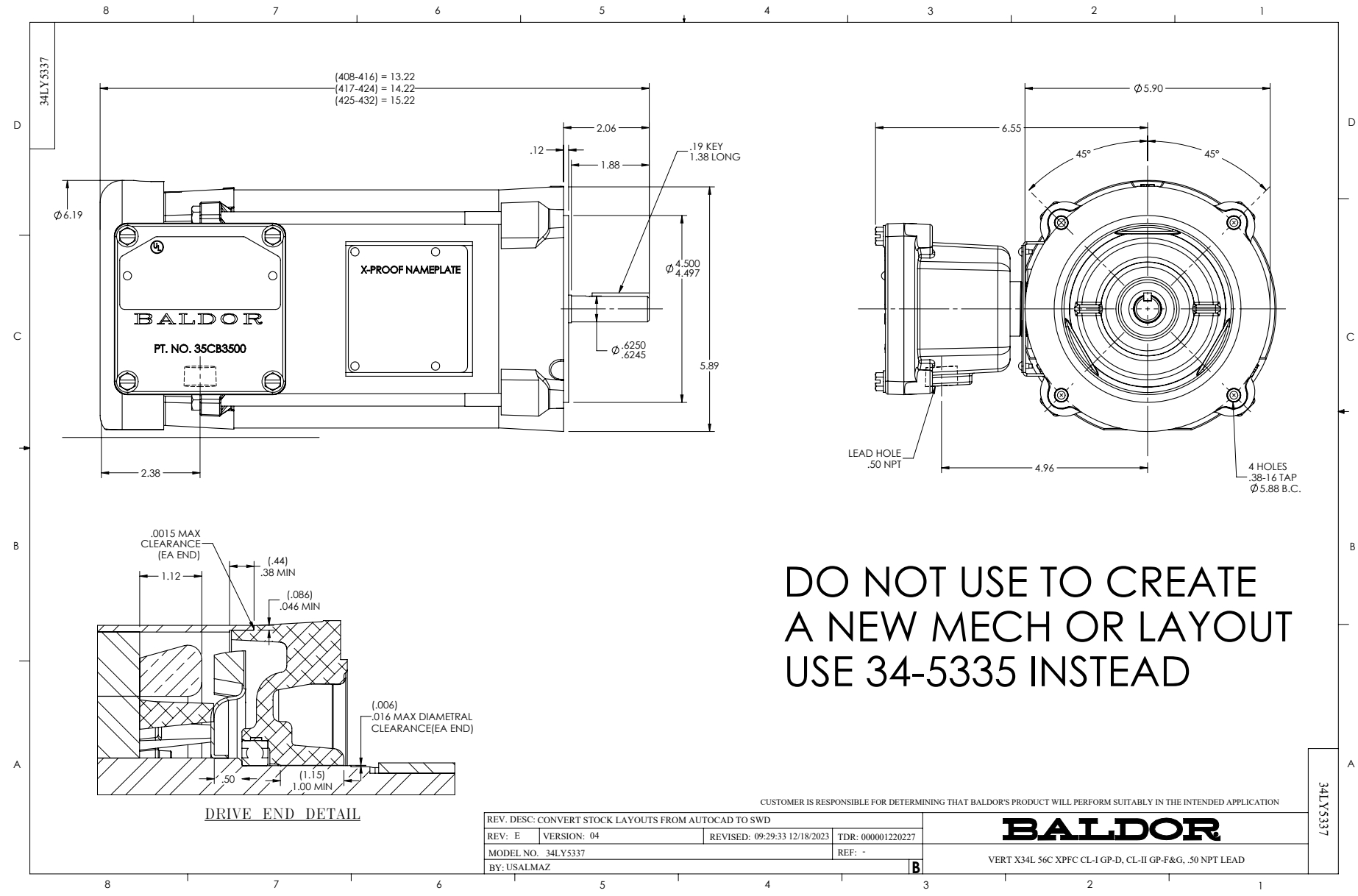
Winding: 34WG5719-R005	**Type:** 3416L	**Enclosure:** XPFC

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. @ 25ºC**	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

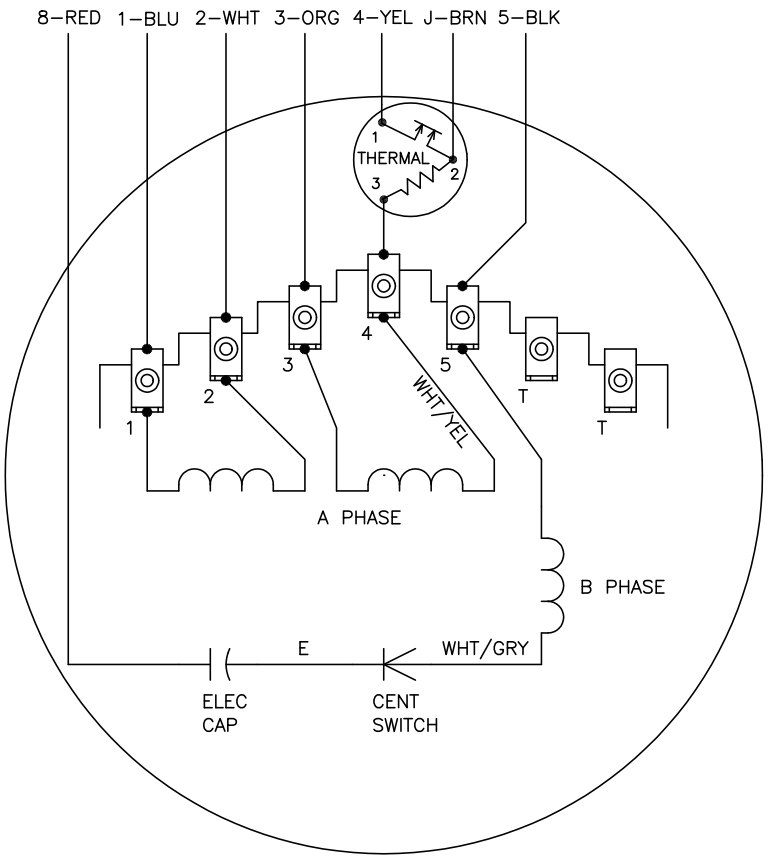
Load Characteristics 230 V, 60 Hz, 0.5 HP

% 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


ABB Motors and Mechanical Inc.
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
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.5 HP)
11/21/2026 ACPERF, record # 36352


34LY5337
(408-416) = 13.22
(417-424) = 14.22
(425-432) = 15.22
2.06
.12
1.88
.19 KEY
1.38 LONG
Ø6.19
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø4.500
4.497
Ø.6250
.6245
5.89
2.38
Ø5.90
6.55
45°
45°
LEAD HOLE
.50 NPT
4.96
4 HOLES
.38-16 TAP
Ø5.88 B.C.
.0015 MAX
CLEARANCE
(EA END)
(.44)
.38 MIN
1.12
(.086)
.046 MIN
(.006)
.016 MAX DIAMETRAL
CLEARANCE(EA END)
.50
(1.15)
1.00 MIN
DRIVE END DETAIL
DO NOT USE TO CREATE
A NEW MECH OR LAYOUT
USE 34-5335 INSTEAD
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT STOCK LAYOUTS FROM AUTOCAD TO SWD
REV: E
VERSION: 04
REVISED: 09:29:33 12/18/2023
TDR: 000001220227
MODEL NO. 34LY5337
REF: -
BY: USALMAZ
B
BALDOR
VERT X34L 56C XPFC CL-I GP-D, CL-II GP-F&G, .50 NPT LEAD
34LY5337

CD0565

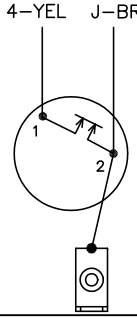


	LINE A	LINE B	JOIN	JOIN
HIGH STD	1	4	2,3,8	J,5
HIGH OPP	1	4	2,3,5	J.8
LOW STD	1,3,8	4	–	2,J,5
LOW OPP	1,3,5	4	–	2,J,8

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.

CONNECTIONS FOR TWO–TERMINAL THERMAL



CD0565

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: C	BY: JLP	REVISED: 04/08/99 3:25	TDR: 0178636
CD0565		FILE: AAA00014311	MDL: –
		MTL: –	

BALDOR ELECTRIC Co.

TYPE L, DV, REV, THERMAL, 7 LD, 34XP