ABB BALDOR RELIANCE

Customer information packet

VXL050542A

.5HP, 1725RPM, 1PH, 60HZ, 56C, 3424L, XPFC, F1
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	.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	115.0 V @ 60 HZ
	208.0 V @ 60 HZ
Agency Approvals	CSA
	UL
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	3.700 A @ 230.0 V
	3.900 A @ 208.0 V
	7.400 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	64.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	34WGW369
Layout	34LY5335
Eff. date	09-04-2024
CD Diagram	CD0565
Poles	04
Leads	6#18,1#16 #4TH
Proprietary	False
Created date	03-22-2021

High Voltage Full Load Amps	3.7 a
Insulation Class	B
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3424L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.22 IN
Power Factor	66
Product Family	Hazardous Location Motor
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1725 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	34-0000-0408						
CAT.NO.	VXL050542A						
H.P.	.5		**T. CODE**	T3C			
VOLTS	115/208-230						
AMPS	7.4/3.9-3.7						
R.P.M.	1725 34WGW369						
HZ	60	**PH**	1		**CLASS**	B	
SER.F.	1.00		**DES**	N	**CODE**	J	
RATING	40C AMB-CONT						
FRAME	56C				**NEMA NOM. EFF**	64	
		PF	66				
BLANK	NEMA MG-1 PART 5, IP54						

AC Induction Motor Performance Data
Record # 48773
Typical performance - not guaranteed values

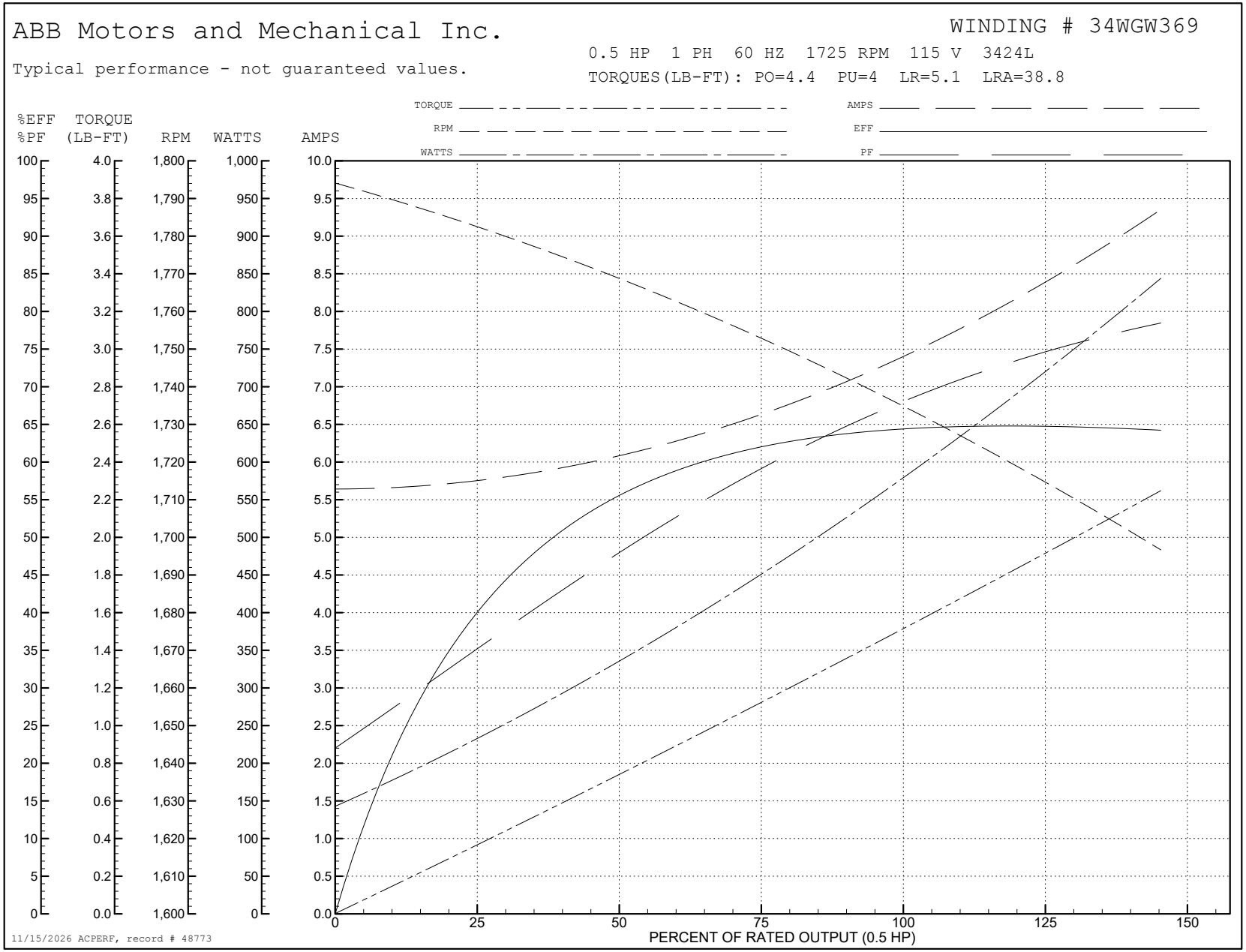
Winding: 34WGW369-R001 **Type:** 3424L **Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			.5
Volts			115/208-230
Full Load Amps			7.4/3.9-3.7
R.P.M.			1725
Hz	60	**Phase**	1
NEMA Design Code	N	**KVA Code**	J
Service Factor (S.F.)			1
NEMA Nom. Eff.	64	**Power Factor**	66
Rating - Duty			40C AMB-CONT

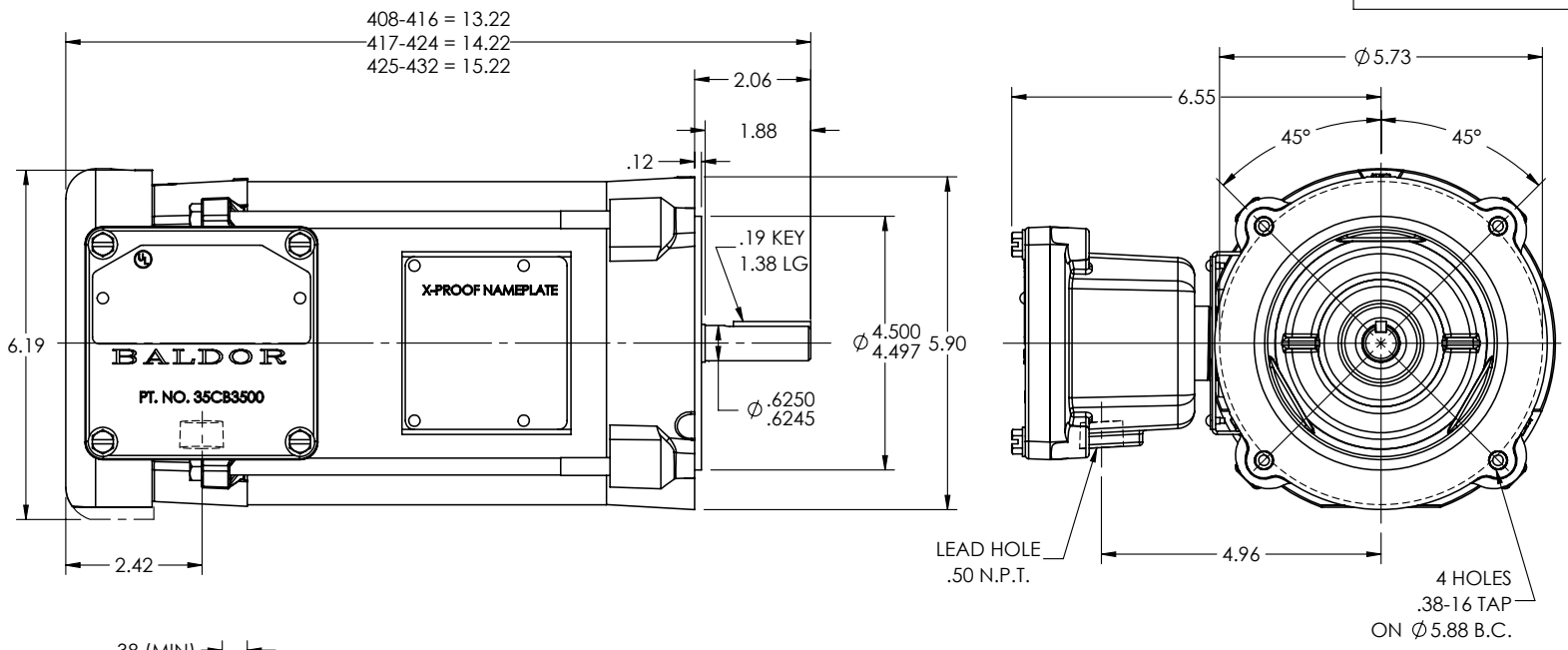
115 V, 60 Hz: Low Voltage Connection	
Full Load Torque	1.5 LB-FT
Start Configuration	direct on line
Breakdown Torque	4.4 LB-FT
Pull-up Torque	4 LB-FT
Locked-rotor Torque	5.1 LB-FT
Starting Current	38.8 A
No-load Current	5.62 A
Line-line Res. @ 25ºC	0.913 Ω A Ph 2.88 Ω B Ph
Temp. Rise @ Rated Load	61°C
Locked-rotor Power Factor	89.3
Rotor inertia	0.057 LB-FT2

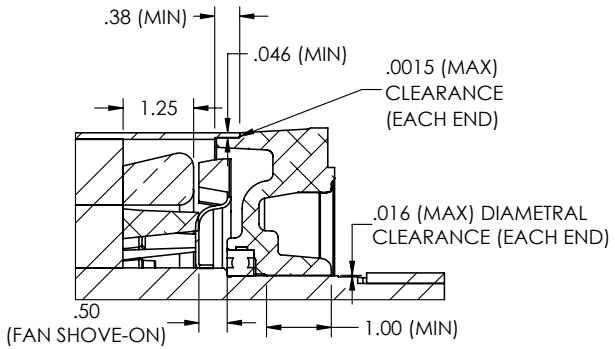
Load Characteristics 115 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	37	48	59	67	74	79
Efficiency	38.9	55.3	62.3	64.9	65.3	63.8
Speed	1781	1768	1753	1736	1717	1696
Line amperes	5.78	6.12	6.62	7.38	8.26	9.38


ABB Motors and Mechanical Inc.
WINDING # 34WGW369
Typical performance - not guaranteed values.
0.5 HP 1 PH 60 HZ 1725 RPM 115 V 3424L
TORQUES(LB-FT): PO=4.4 PU=4 LR=5.1 LRA=38.8
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.5 HP)
11/15/2026 ACPERF, record # 48773

34LY5335





PULLEY END DETAIL

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

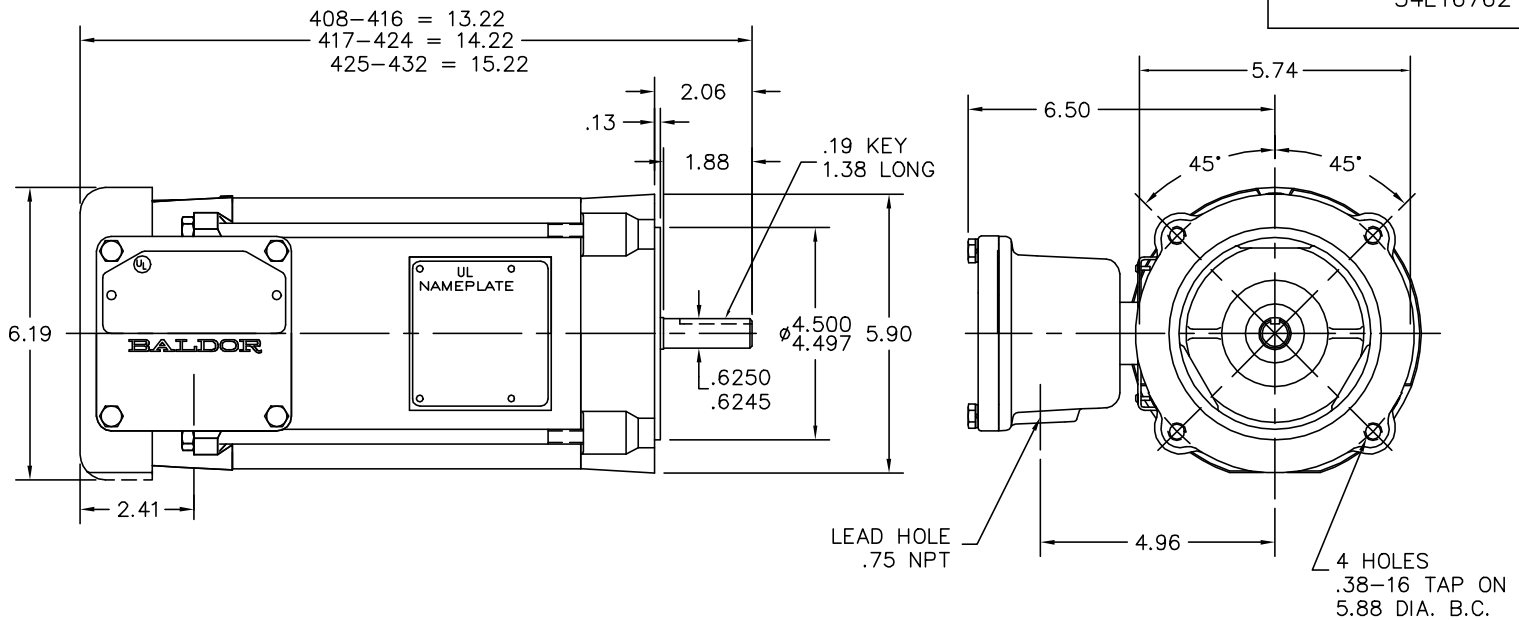
REV. DESC: LOAD TO SOLIDWORKS - REV L			
REV: M	VERSION: 09	REVISED: 03:40:28 03/17/2023	TDR: 000001201165
34LY5335	MODEL NO. 34LY5335		REF: -
	BY: ENFRAJ0		

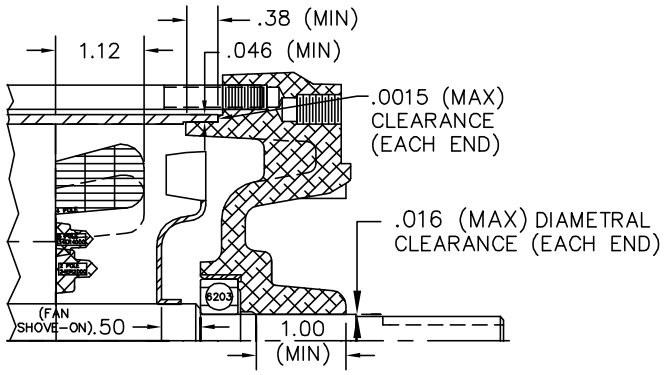
BALDOR - RELIANCE®

VERT X34L 56C XPFC CL-I GP-D, CL-II GP-F&G, .50 NPT LEAD

34LY5335

34LY6762





CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: UPDATE DWG		
REV. LTR: B	VERSION: 02	TDR: 000000918748
FILE: \AAA\00062\689	REVISED: 01:39:59 04/17/2015	BY: ENJERWO
MTL: –		

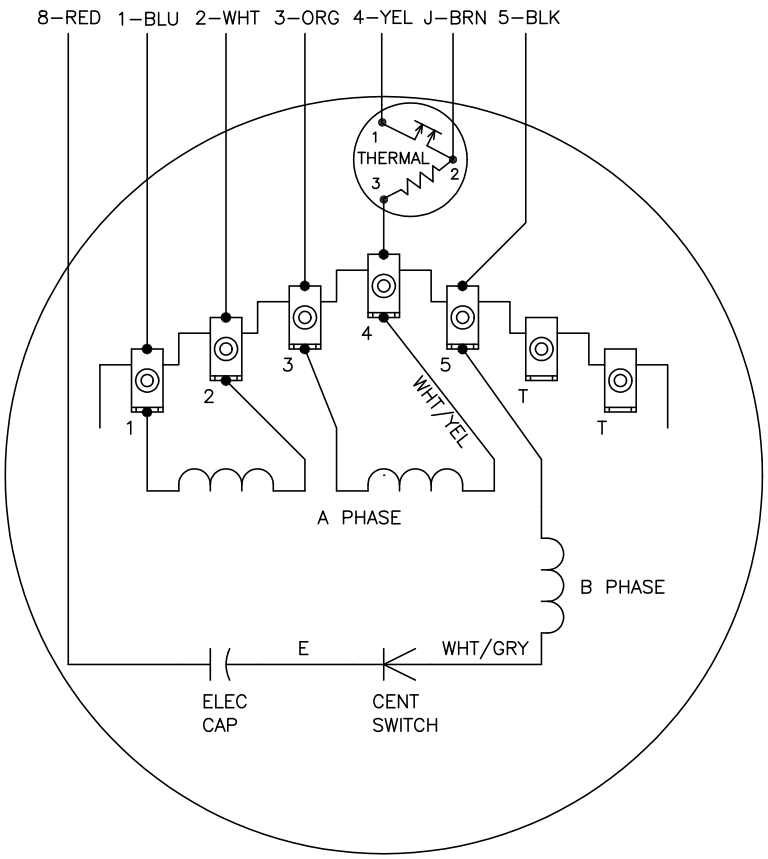
BALDOR

VERT X34L 56C XPFC CL–I GP–D, CL–II GP–F&G, .75 NPT LEAD

SH 1 of 1

34LY6762

CD0565

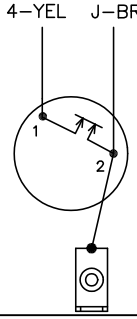


	LINE A	LINE B	JOIN	JOIN
HIGH STD	1	4	2,3,8	J,5
HIGH OPP	1	4	2,3,5	J.8
LOW STD	1,3,8	4	–	2,J,5
LOW OPP	1,3,5	4	–	2,J,8

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