ABB BALDOR RELIANCE

Customer information packet

VXM050522A

.5HP, 3450RPM, 3PH, 60HZ, 56C, 3410M, 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	Three Phase
Output @ Frequency	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	208.0 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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.100 A @ 460.0 V
	2.200 A @ 230.0 V
	2.400 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	68.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	34WG3302
Layout	34LY5336
Eff. date	05-01-2024
CD Diagram	CD0007
Poles	02
Leads	12#18
Proprietary	False
Created date	03-04-2021

High Voltage Full Load Amps	1.1 a
Insulation Class	B
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3410M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.22 IN
Power Factor	63
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	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	34-0000-0395						
CAT.NO.	VXM050522A						
H.P.	.5 34WG3302		**T. CODE**	T3C			
VOLTS	208-230/460						
AMPS	2.4-2.2/1.1						
R.P.M.	3450						
HZ	60	**PH**	3		**CLASS**	B	
SER.F.	1.00		**DES**	B	**CODE**	L	
RATING	40C AMB-CONT						
FRAME	56C				**NEMA NOM. EFF**	68	
		PF	63				
BLANK	NEMA MG-1 PART 5, IP54						

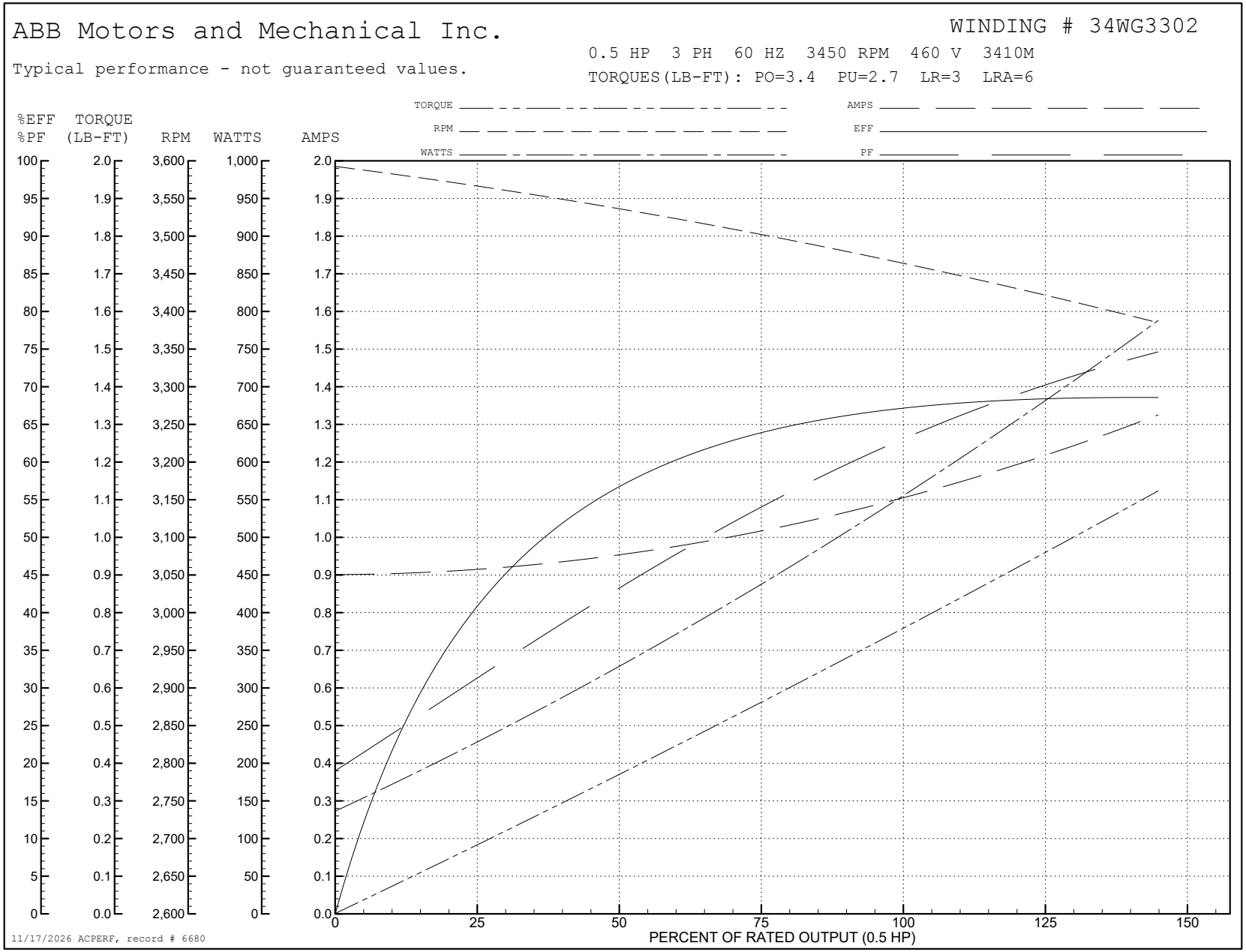
AC Induction Motor Performance Data
Record # 6680
Typical performance - not guaranteed values

Winding: 34WG3302-R002	**Type:** 3410M	**Enclosure:** XPFC

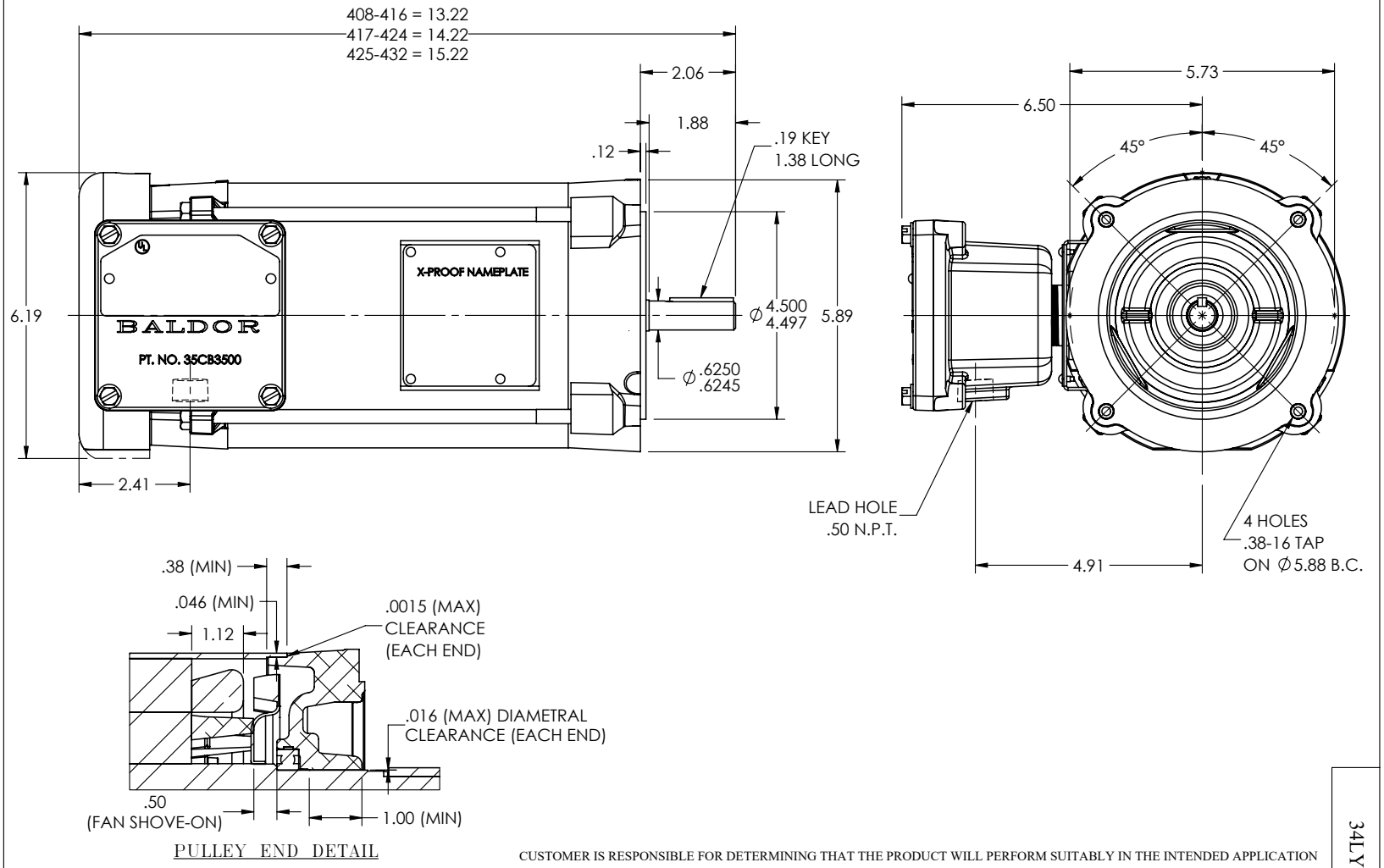
Nameplate Data			**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		.5	**Full Load Torque**	0.75 LB-FT
Volts		208-230/460	**Start Configuration**	direct on line
Full Load Amps		2.4-2.2/1.1	**Breakdown Torque**	3.4 LB-FT
R.P.M.		3450	**Pull-up Torque**	2.7 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	3 LB-FT
NEMA Design Code	B **KVA Code**	L	**Starting Current**	6 A
Service Factor (S.F.)		1	**No-load Current**	0.9 A
NEMA Nom. Eff.	68 **Power Factor**	63	**Line-line Res. @ 25ºC**	35.1 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	58°C
			Locked-rotor Power Factor	78
			Rotor inertia	0.0093 LB-FT2

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	33	44	56	64	70	77
Efficiency	41.4	56.3	64	67.2	68.4	68.5
Speed	3563	3535	3501	3466	3432	3381
Line amperes	0.91	0.97	1.01	1.1	1.2	1.33


ABB Motors and Mechanical Inc.
WINDING # 34WG3302
Typical performance - not guaranteed values.
0.5 HP 3 PH 60 HZ 3450 RPM 460 V 3410M
TORQUES(LB-FT): PO=3.4 PU=2.7 LR=3 LRA=6
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.5 HP)
11/17/2026 ACPERF, record # 6680

34LY5336



PULLEY END DETAIL

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

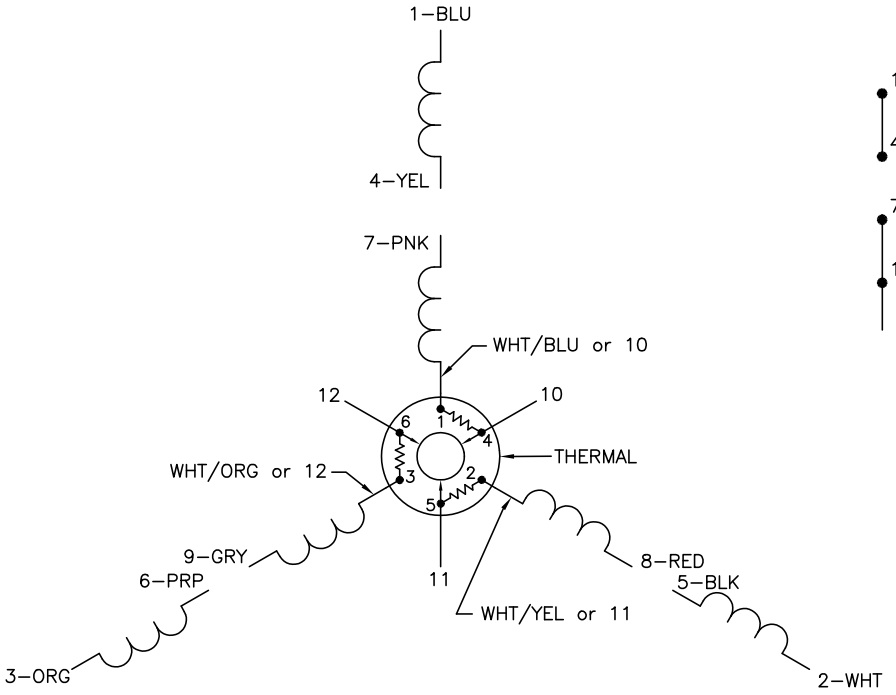
REV. DESC: LOAD TO SOLIDWORKS - REV K			
REV: L	VERSION: 08	REVISED: 08:27:57 04/05/2023	TDR: 000001201165
34LY5336	MODEL NO. 34LY5336		REF: -
	BY: ENFRAJ0		

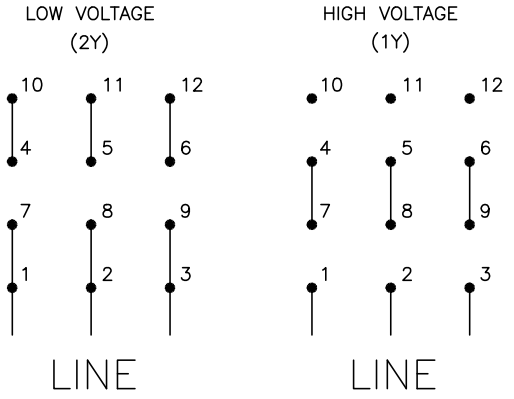
BALDOR - RELIANCE®

STD VERT X34M NEMA 56C TEFC W/ATO CL1 GP D, CL2 GP F & G

34LY5336

CD0007





NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0007

REV. DESC: ADDED "CK" PLANT CODE			BALDOR ELECTRIC Co.
REV. LTR: E	BY: EAH	REVISED: 05/06/99 17:1	TDR: 0181040
CD0007		FILE: AAA00008370	MDL: –
		MTL: –	3PH, DV, THERMAL, 12 LEADS