ABB BALDOR RELIANCE

Customer information packet

VXL050322A

.33HP, 3450RPM, 1PH, 60HZ, 56C, 3416L, 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	.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	UL
	CSA
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Termination	Flying Leads

Part Detail

Revision	-
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	M-34WG-X609
Layout	34LY5335
Eff. date	05-26-2026
CD Diagram	CD0565
Poles	02
Leads	7#18 A&J
Proprietary	False
Created date	05-04-2026

Motor Standards	NEMA
Motor Type	3416L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.22 IN
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	SB
Winding Thermal 2	None

Nameplate

NP0016XPSL							
NO.			**CC**				
SER. #							
SPEC	34-0000-0436						
CAT.NO.	VXL050322A						
H.P.	.33		**T. CODE**	T3C			
VOLTS	115/230						
AMPS	6/3						
R.P.M.	3450						
HZ	60	**PH**	1		**CLASS**	B	
SER.F.	1.00		**DES**	N	**CODE**	M	
RATING	40C AMB-CONT						
FRAME	56C				**NEMA NOM. EFF**	59.9	
		PF	64				
BLANK	NEMA MG-1 PART 5, IP54						

AC Induction Motor Performance Data
Record # 57252
Typical performance - not guaranteed values

Winding: 34WGX609-R003	**Type:** 3416L	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.33	**Full Load Torque**	0.51 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			6/3	**Breakdown Torque**	1.9 LB-FT
R.P.M.			3450	**Pull-up Torque**	1.2 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	1.4 LB-FT
NEMA Design Code	N	**KVA Code**	M	**Starting Current**	16 A
Service Factor (S.F.)			1.75	**No-load Current**	2.4 A
NEMA Nom. Eff.	0	**Power Factor**	0	**Line-line Res. @ 25ºC**	4.84 Ω A Ph 3.7 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	
S.F. Amps			7.4/3.7	**Temp. Rise @ S.F. Load**	

Load Characteristics 230 V, 60 Hz, 0.33 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	40	49	57	64	70	75	82
Efficiency	28.6	44.7	52.4	60	60.3	61.9	60.9
Speed	3560	3544	3527	3508	3483	3460	3433
Line amperes	2.5	2.6	2.7	2.9	3.15	3.4	3.65

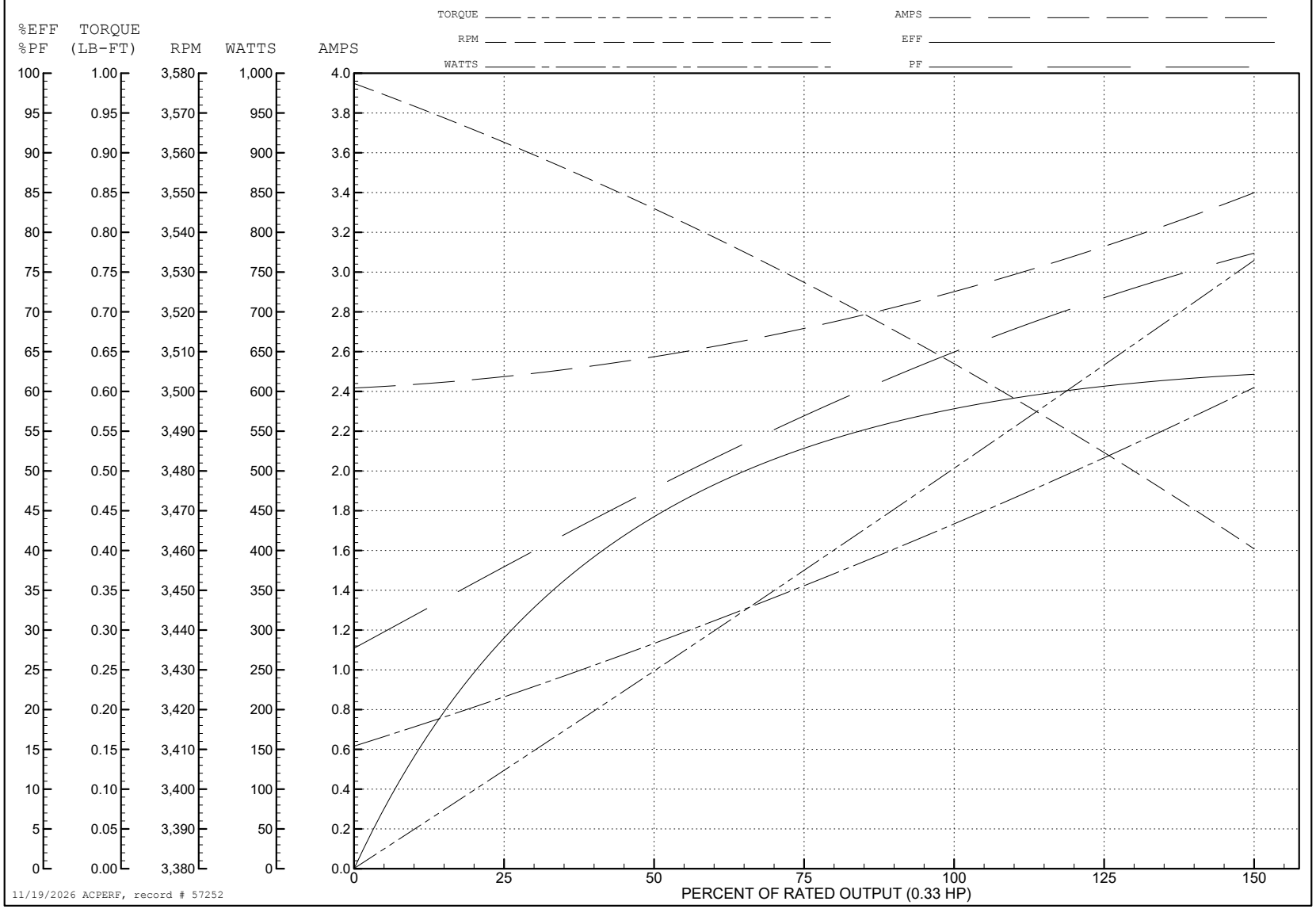
ABB Motors and Mechanical Inc.

WINDING # 34WGX609

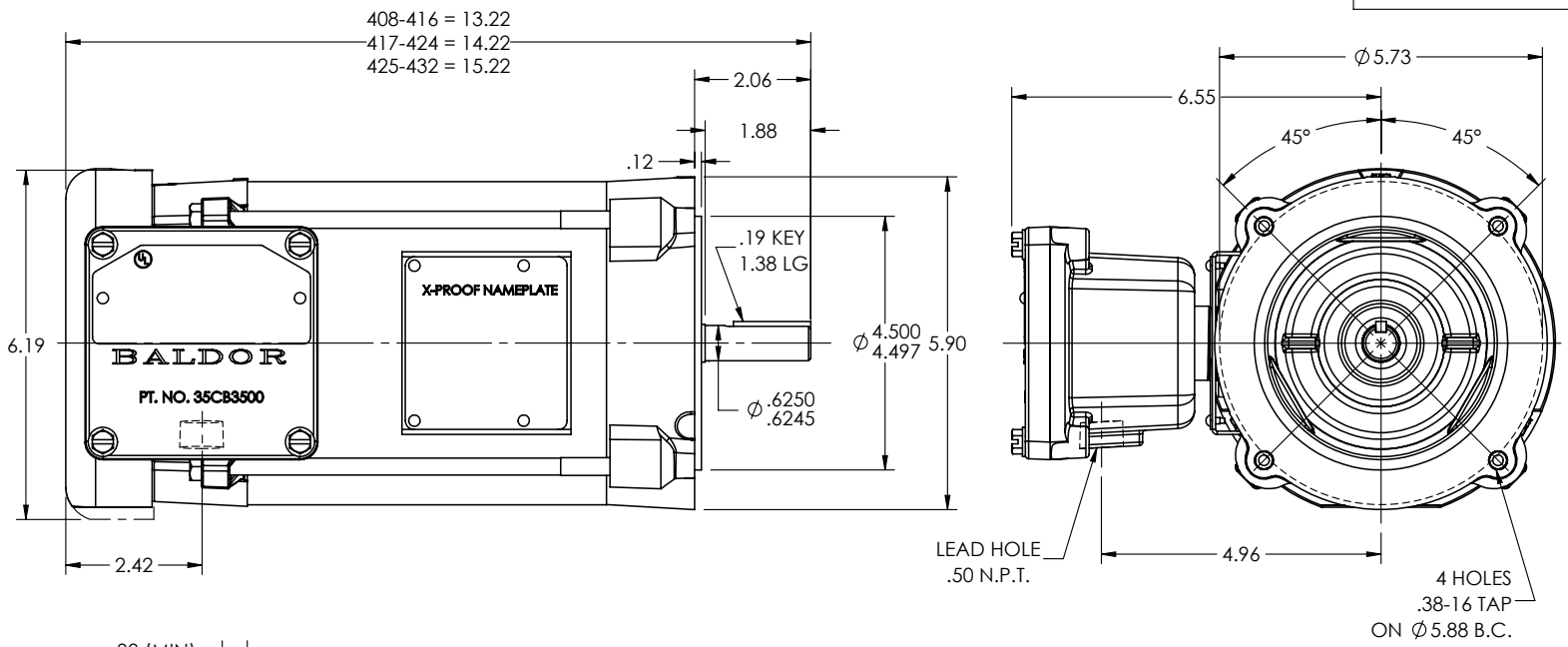
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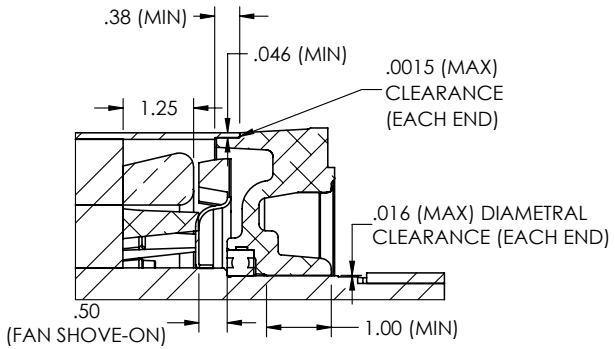
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=1.9 PU=1.2 LR=1.4 LRA=16



34LY5335





PULLEY END DETAIL

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

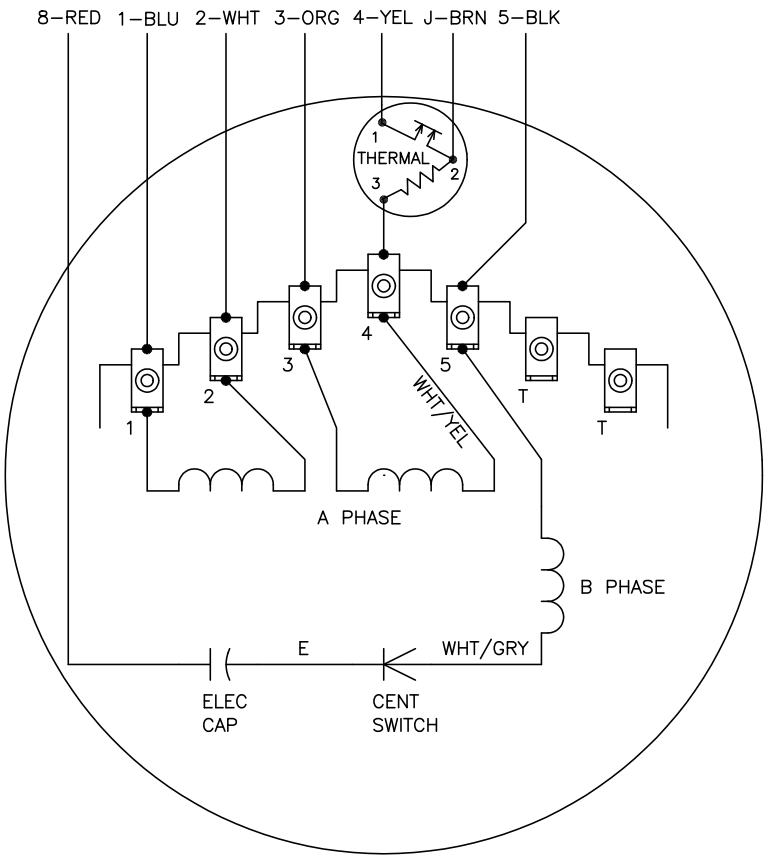
REV. DESC: LOAD TO SOLIDWORKS - REV L			
REV: M	VERSION: 09	REVISED: 03:40:28 03/17/2023	TDR: 000001201165
34LY5335	MODEL NO. 34LY5335		REF: -
	BY: ENFRAJ0		

BALDOR - RELIANCE®

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

34LY5335

CD0565

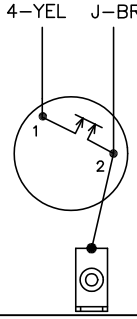


	LINE A	LINE B	JOIN	JOIN
HIGH STD	1	4	2,3,8	J,5
HIGH OPP	1	4	2,3,5	J.8
LOW STD	1,3,8	4	–	2,J,5
LOW OPP	1,3,5	4	–	2,J,8

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



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

CD0565