ABB BALDOR RELIANCE

Customer information packet

CXL050542A-50

.5HP, 1425RPM, 1PH, 50HZ, 56C, 3428L, 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	50.00 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 @ 50 HZ
Phase	1
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	110.0 V @ 50 HZ
	220.0 V @ 50 HZ
Agency Approvals	CSA
	UL
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	3.600 A @ 220.0 V
	7.200 A @ 110.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	62.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	3.6 a
Insulation Class	B

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	34WGW776
Layout	34LY5328
Eff. date	09-04-2024
CD Diagram	CD0565
Poles	04
Leads	6#18,1#16 4-YEL
Proprietary	False
Created date	04-29-2021

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	3428L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.22 IN
Power Factor	76
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	1425 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	34-0000-0403						
CAT.NO.	CXL050542A-50						
H.P.	.5		**T. CODE**	T3C			
VOLTS	110/220						
AMPS	7.2/3.6						
R.P.M.	1425 34WGW776						
HZ	50	**PH**	1	**CLASS**	B		
SER.F.	1.00	**DES**	-	**CODE**	J		
RATING	40C AMB-CONT						
FRAME	56C			**NEMA NOM. EFF**	62		
		PF	76				
BLANK	NEMA MG-1 PART 5, IP54						

AC Induction Motor Performance Data
Record # 7095
Typical performance - not guaranteed values

Winding: 34WGW776-R001	**Type:** 3428L	**Enclosure:** TEFC

Nameplate Data				**220 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			.5	**Full Load Torque**	1.8 LB-FT
Volts			110/220	**Start Configuration**	direct on line
Full Load Amps			7.2/3.6	**Breakdown Torque**	3.8 LB-FT
R.P.M.			1425	**Pull-up Torque**	3.6 LB-FT
Hz	50	**Phase**	1	**Locked-rotor Torque**	6 LB-FT
NEMA Design Code	N	**KVA Code**	J	**Starting Current**	17 A
Service Factor (S.F.)			1	**No-load Current**	2.1 A
NEMA Nom. Eff.	62	**Power Factor**	76	**Line-line Res. @ 25ºC**	5 Ω A Ph 4.03 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	68°C

Load Characteristics 220 V, 50 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	41	57	69	77	82	85	0
Efficiency	48	62.2	67.5	68.8	67.6	64.2	0
Speed	1481	1466	1448	1428	1402	1367	0
Line amperes	2.2	2.4	2.7	3.2	3.8	4.6	3.8

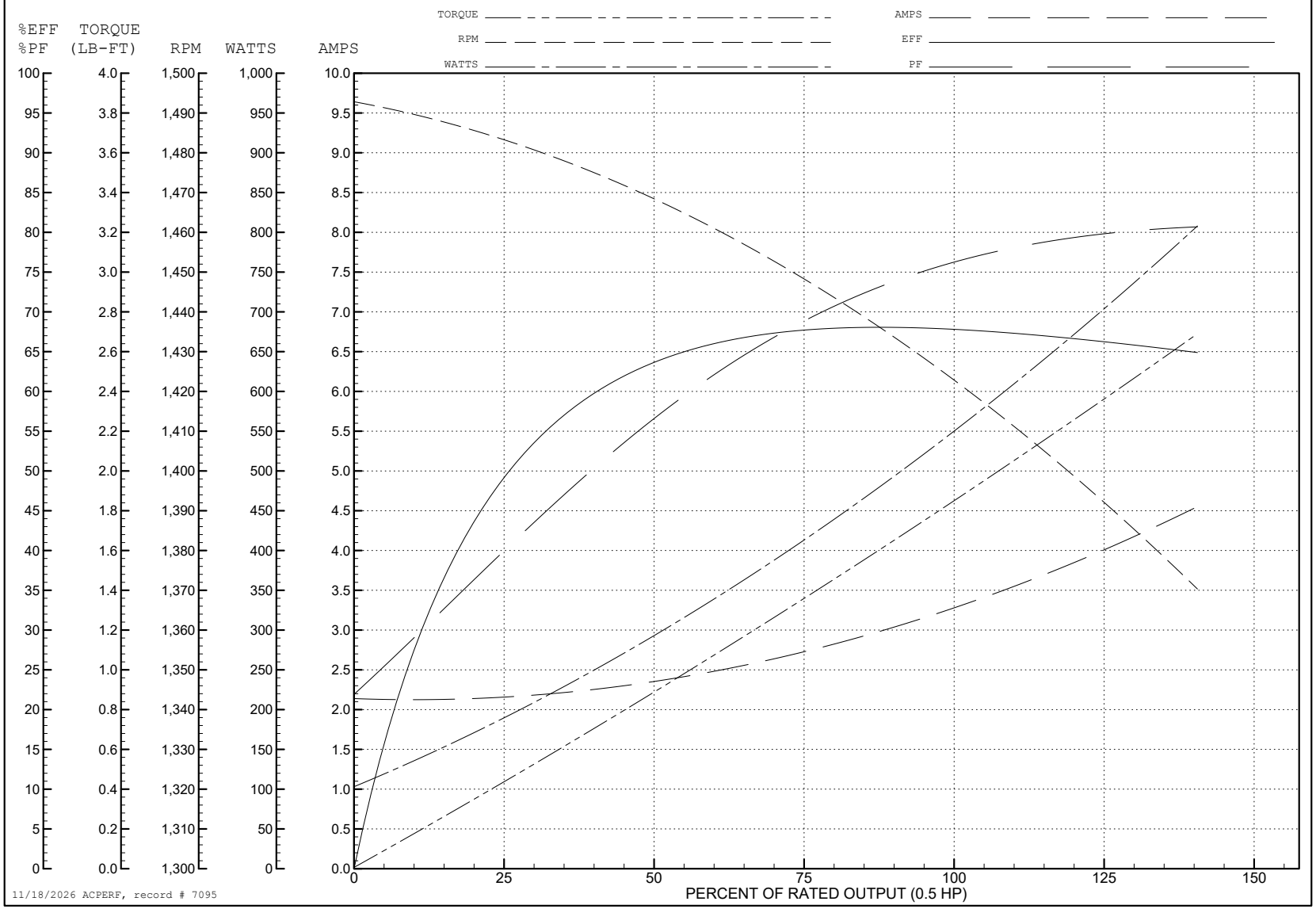
ABB Motors and Mechanical Inc.

WINDING # 34WGW776

0.5 HP 1 PH 50 HZ 1425 RPM 220 V 3428L

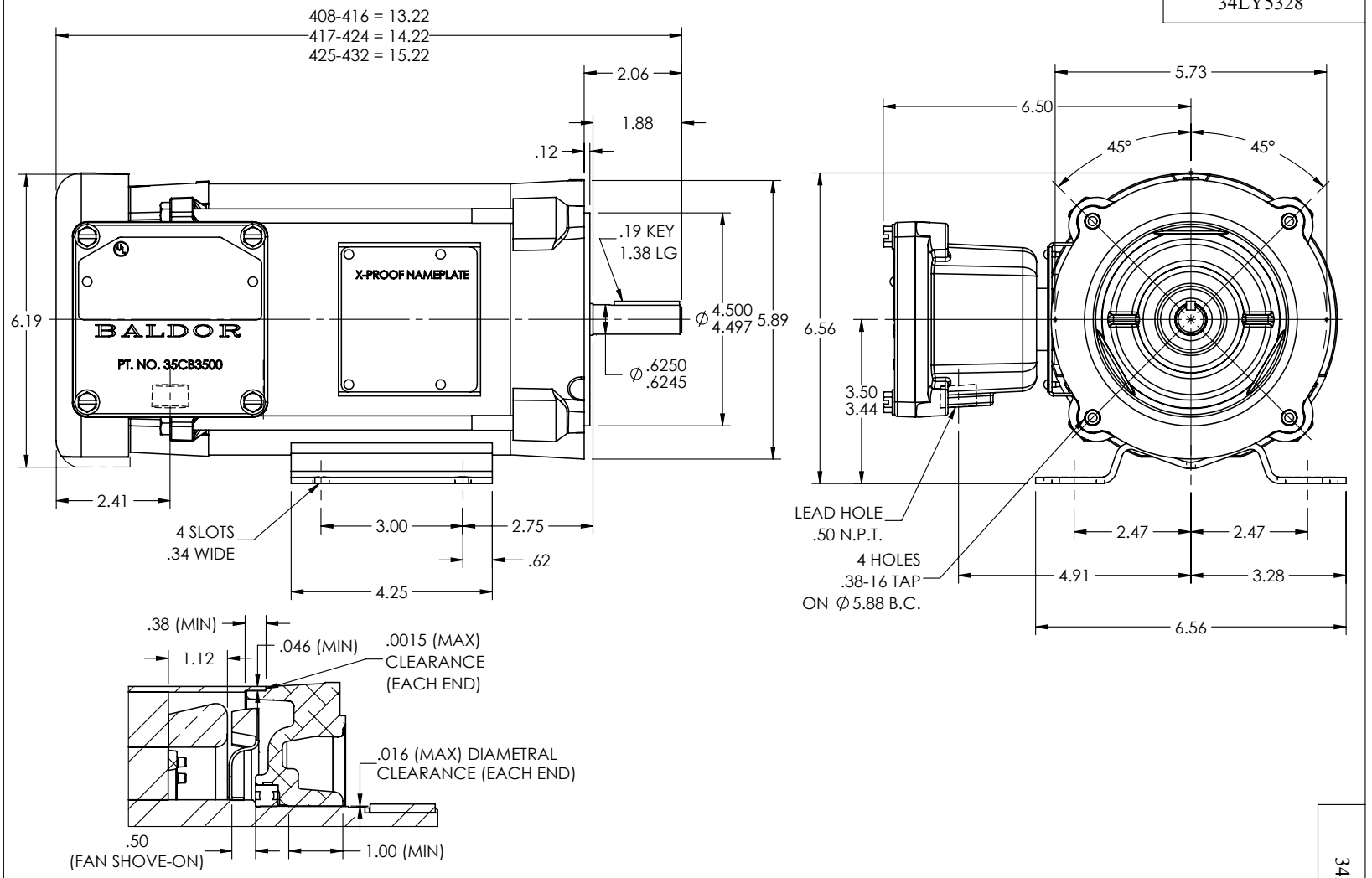
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=3.8 PU=3.6 LR=6 LRA=17



11/18/2026 ACPERF, record # 7095

34LY5328



PULLEY END DETAIL

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

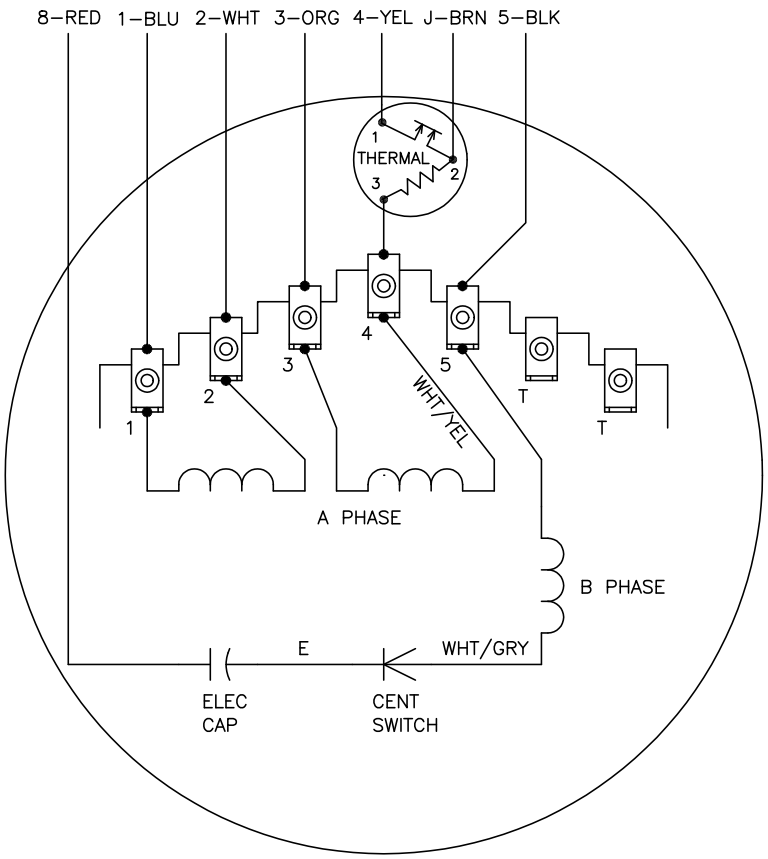
REV. DESC: LOAD TO SOLIDWORKS - REV F			
REV: K	VERSION: 07	REVISED: 01:41:15 12/15/2022	TDR: 000001201165
34LY5328	MODEL NO. 34LY5328		REF: -
	BY: ENFRAJ0		

BALDOR - RELIANCE®

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

34LY5328

CD0565

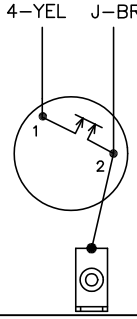


	LINE A	LINE B	JOIN	JOIN
HIGH STD	1	4	2,3,8	J,5
HIGH OPP	1	4	2,3,5	J.8
LOW STD	1,3,8	4	–	2,J,5
LOW OPP	1,3,5	4	–	2,J,8

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