



---

# Customer information packet

## XL050542A

.5HP, 1725RPM, 1PH, 60HZ, 56, 3424L, XPFC, F1, N  
Class - CLI GP D; CLII GP F,G  
Division - Division I

## Specifications

Enclosure	XPFC
Frame	56
Frame Material	Steel
Frequency	60.00 Hz
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
XP Class and Group	CLI GP D; CLII GP F,G
XP Division	Division I
Agency Approvals	CSA
	UL
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
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
Heater Indicator	No Heater
High Voltage Full Load Amps	3.7 a

## Part detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	34WGW369
Layout	34LY5492
Eff. date	07-01-2022
CD Diagram	CD0565
Poles	04
Leads	6#18,1#16 #4TH
Proprietary	False
Created date	04-21-2021

<b>Insulation Class</b>	B
<b>Inverter Code</b>	Not Inverter
<b>IP Rating</b>	NONE
<b>KVA Code</b>	J
<b>Lifting Lugs</b>	No Lifting Lugs
<b>Locked Bearing Indicator</b>	No Locked Bearing
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	3424L
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	14.22 IN
<b>Power Factor</b>	66
<b>Product Family</b>	Hazardous Location Motor
<b>Pulley Face Code</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.00
<b>Shaft Diameter</b>	0.625 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Speed</b>	1725 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	Automatic Thermal Overload
<b>Winding Thermal 1 Location</b>	EP
<b>Winding Thermal 2</b>	None
<b>XP Temp Code</b>	T3C

**Nameplate**

NP0016XPSL					
<b>NO.</b>		<b>CC</b>			
<b>SER. #</b>					
<b>SPEC</b>	34-0000-0418				
<b>CAT.NO.</b>	XL050542A				
<b>H.P.</b>	.5	<b>T. CODE</b>	T3C		
<b>VOLTS</b>	115/208-230				
<b>AMPS</b>	7.4/3.9-3.7				
<b>R.P.M.</b>	1725 34WGW369				
<b>HZ</b>	60	<b>PH</b>	1	<b>CLASS</b>	B
<b>SER.F.</b>	1.00	<b>DES</b>	N	<b>CODE</b>	J
<b>RATING</b>	40C AMB-CONT				
<b>FRAME</b>	56	<b>NEMA NOM. EFF</b>	64		
<b>USABLE AT 208V</b>	N/A	<b>PF</b>	66		
<b>BLANK</b>	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	
<b>Nameplate Data</b>			<b>115 V, 60 Hz: Low Voltage Connection</b>		
Rated Output (HP)	.5		Full Load Torque	1.5 LB-FT	
Volts	115/208-230		Start Configuration	direct on line	
Full Load Amps	7.4/3.9-3.7		Breakdown Torque	4.4 LB-FT	
R.P.M.	1725		Pull-up Torque	4 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque	5.1 LB-FT
NEMA Design Code	N	KVA Code	J	Starting Current	38.8 A
Service Factor (S.F.)	1		No-load Current	5.62 A	
NEMA Nom. Eff.	64	Power Factor	66	Line-line Res. @ 25°C	0.913 Ω A Ph 2.88 Ω B Ph
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	61°C	
			Locked-rotor Power Factor	89.3	
			Rotor inertia	0.057 LB-FT <sup>2</sup>	

**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

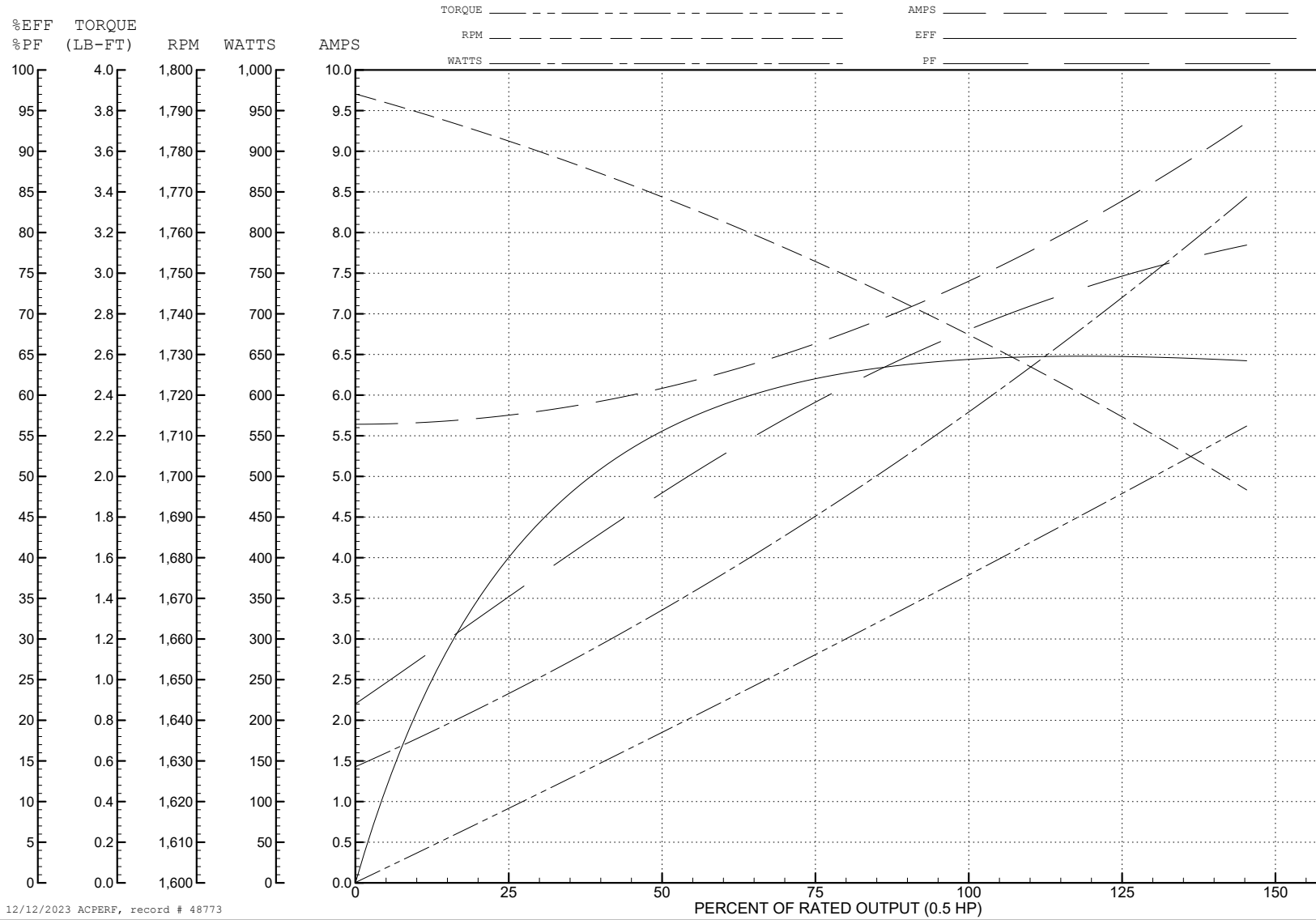
ABB Motors and Mechanical Inc.

WINDING # 34WGW369

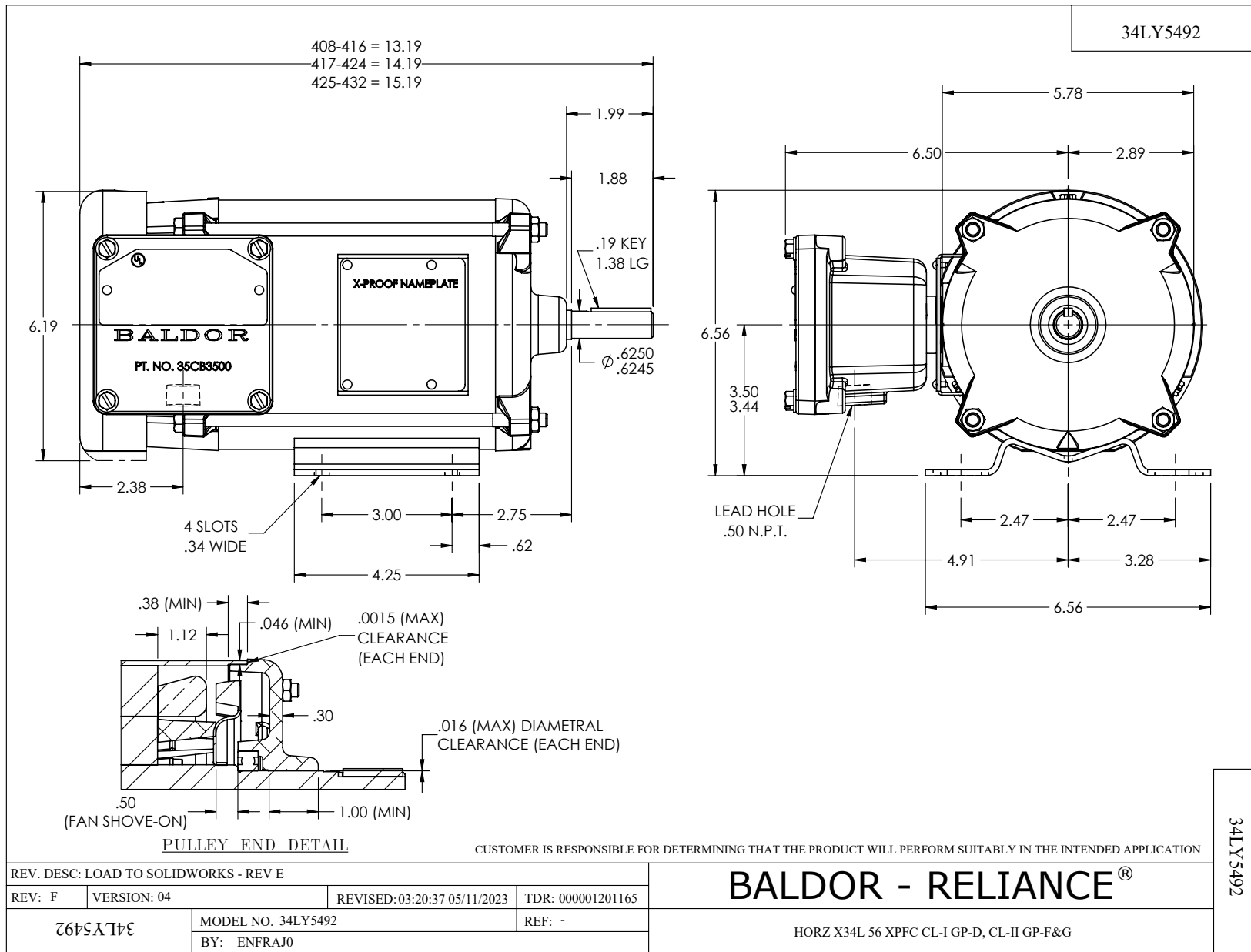
Typical performance - not guaranteed values.

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

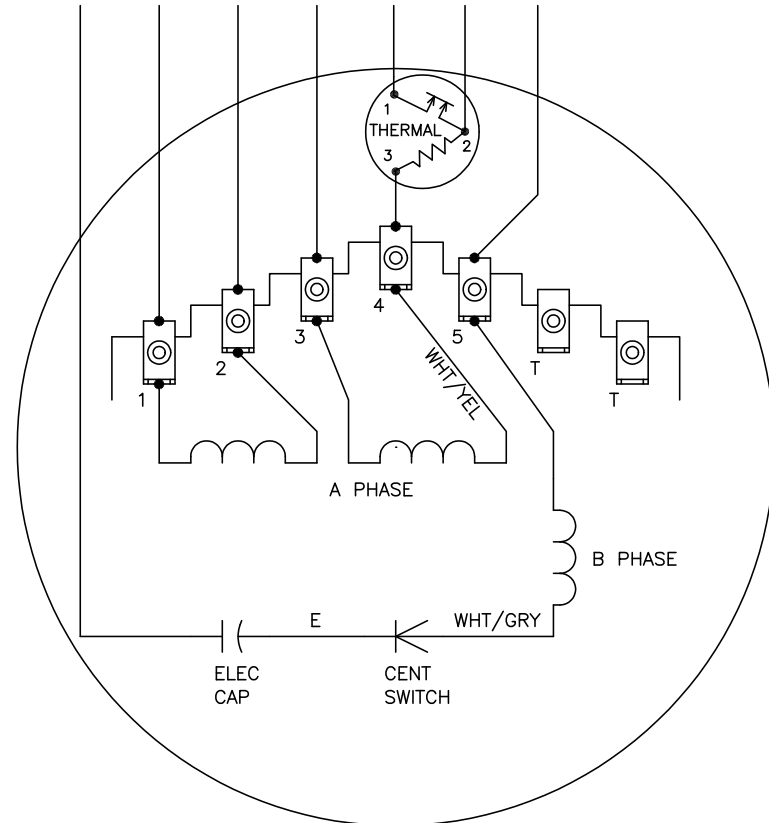


12/12/2023 ACPERF, record # 48773



CD0565

8-RED 1-BLU 2-WHT 3-ORG 4-YEL J-BRN 5-BLK

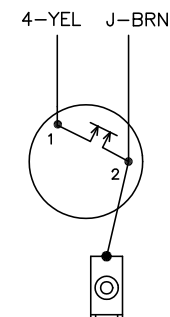


	LINE A	LINE B	JOIN	JOIN
HIGH STD	1	4	2,3,8	J,5
HIGH OPP	1	4	2,3,5	J,8
LOW STD	1,3,8	4	-	2,J,5
LOW OPP	1,3,5	4	-	2,J,8

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
99000		FILE: AAA00014311	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

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

CD0565