

**BALDOR • RELIANCE**

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# Customer information packet

## VXM050742A

0.75HP, 1725RPM, 3PH, 60HZ, 56C, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division - Division I

## 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	.750 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.500 A @ 460.0 V 3.000 A @ 230.0 V 3.200 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	73.0 %
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.	34WG5721
Layout	34LY5336
Eff. date	05-01-2024
CD Diagram	CD0007
Poles	04
Leads	12#18
Proprietary	False
Created date	08-04-2020

High Voltage Full Load Amps	1.5 a
Insulation Class	B
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3420M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.22 IN
Power Factor	58
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					
<b>NO.</b>		<b>CC</b>			
<b>SER. #</b>					
<b>SPEC</b>	34-0000-0388				
<b>CAT.NO.</b>	VXM050742A				
<b>H.P.</b>	.75	<b>T. CODE</b>	T3C		
<b>VOLTS</b>	208-230/460				
<b>AMPS</b>	3.2-3/1.5				
<b>R.P.M.</b>	1725 34WG5721				
<b>HZ</b>	60	<b>PH</b>	3	<b>CLASS</b>	B
<b>SER.F.</b>	1.00	<b>DES</b>	B	<b>CODE</b>	K
<b>RATING</b>	40C AMB-CONT				
<b>FRAME</b>	56C	<b>NEMA NOM. EFF</b>	73		
	<b>PF</b>	58			
<b>BLANK</b>	NEMA MG-1 PART 5, IP54				

**AC Induction Motor Performance Data**

Record # 6818

Typical performance - not guaranteed values

<b>Winding:</b> 34WG5721-R001		<b>Type:</b> 3420M		<b>Enclosure:</b> XPFC	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	.75	<b>Full Load Torque</b>	2.25 LB-FT		
<b>Volts</b>	208-230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	3.2-3/1.5	<b>Breakdown Torque</b>	10 LB-FT		
<b>R.P.M.</b>	1725	<b>Pull-up Torque</b>	8.5 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	8.8 LB-FT	
<b>NEMA Design Code</b>	B <b>KVA Code</b>	K	<b>Starting Current</b>	10 A	
<b>Service Factor (S.F.)</b>		1	<b>No-load Current</b>	1.2 A	
<b>NEMA Nom. Eff.</b>	73 <b>Power Factor</b>	58	<b>Line-line Res. @ 25°C</b>	17.7 Ω	
<b>Rating - Duty</b>		40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	74°C	

**Load Characteristics 460 V, 60 Hz, 0.75 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>
<b>Power Factor</b>	28	42	55	64	71	76
<b>Efficiency</b>	56.1	69.7	74.7	76.2	76.1	75.2
<b>Speed</b>	1783	1766	1749	1731	1711	1693
<b>Line amperes</b>	1.2	1.2	1.3	1.5	1.6	1.8

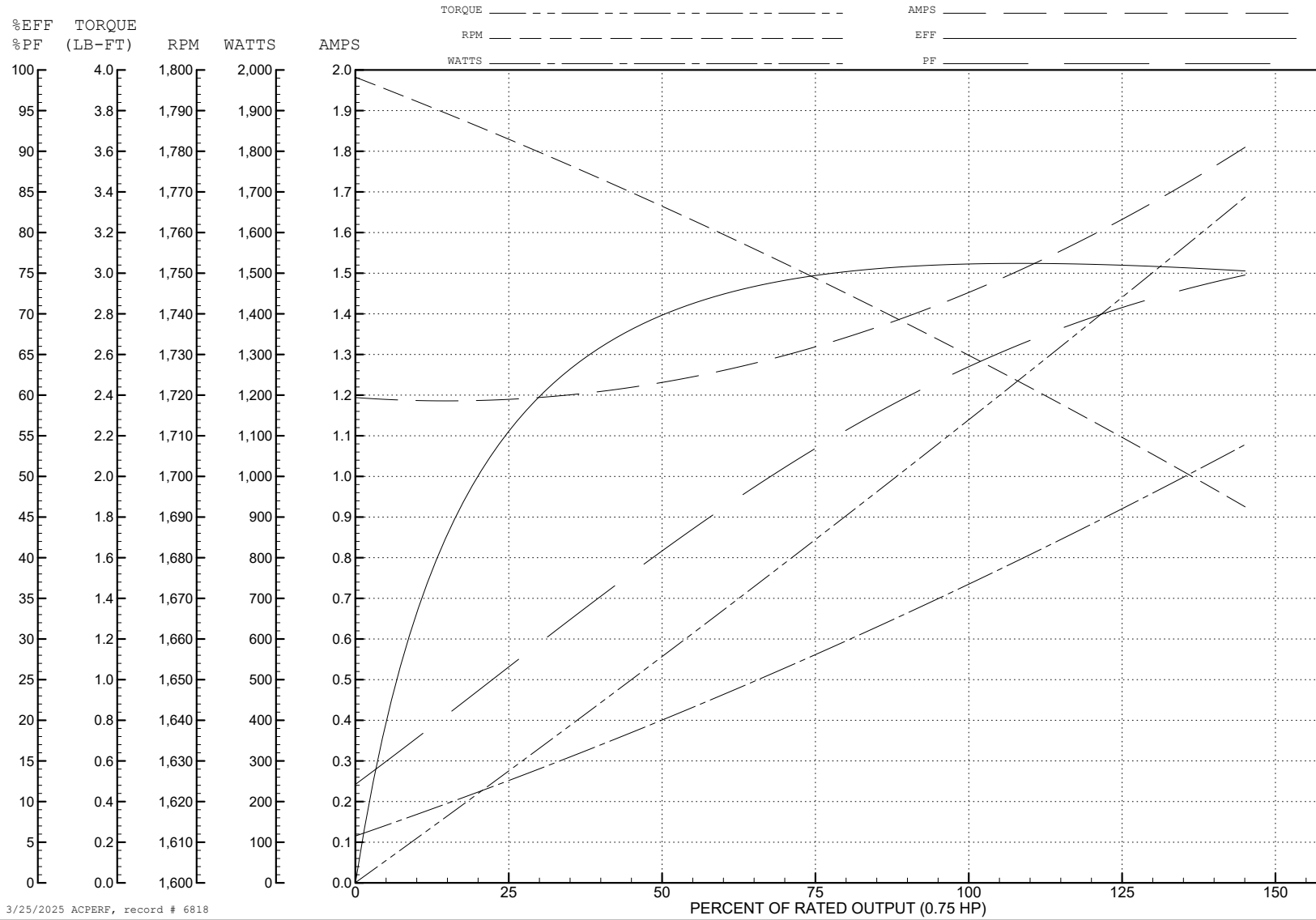
ABB Motors and Mechanical Inc.

WINDING # 34WG5721

0.75 HP 3 PH 60 HZ 1725 RPM 460 V 3420M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=10 PU=8.5 LR=8.8 LRA=10



3/25/2025 ACPERF, record # 6818

**AC Induction Motor Performance Data**

Record # 52509

Typical performance - not guaranteed values

<b>Winding:</b> 34WG5721-R001		<b>Type:</b> 3420M		<b>Enclosure:</b> XPFC	
<b>Nameplate Data</b>			<b>208 V, 60 Hz: Low Voltage Connection</b>		
<b>Rated Output (HP)</b>	.75	<b>Full Load Torque</b>	2.26 LB-FT		
<b>Volts</b>	208-230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	3.2-3/1.5	<b>Breakdown Torque</b>	8.04 LB-FT		
<b>R.P.M.</b>	1725	<b>Pull-up Torque</b>	6.66 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	6.89 LB-FT	
<b>NEMA Design Code</b>	<b>B KVA Code</b>	K	<b>Starting Current</b>	17.58 A	
<b>Service Factor (S.F.)</b>		1	<b>No-load Current</b>	1.856 A	
<b>NEMA Nom. Eff.</b>	73 <b>Power Factor</b>	58	<b>Line-line Res. @ 25°C</b>	4.425 Ω	
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	63°C	
			<b>Locked-rotor Power Factor</b>	57.4	
			<b>Rotor inertia</b>	0.0476 LB-FT <sup>2</sup>	

**Load Characteristics 208 V, 60 Hz, 0.75 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>
<b>Power Factor</b>	33	53	67	73	82	85
<b>Efficiency</b>	64	75.4	78.7	78.5	77.6	75.9
<b>Speed</b>	1780	1761	1740	1719	1695	1672
<b>Line amperes</b>	1.888	1.958	2.22	2.68	3	3.5

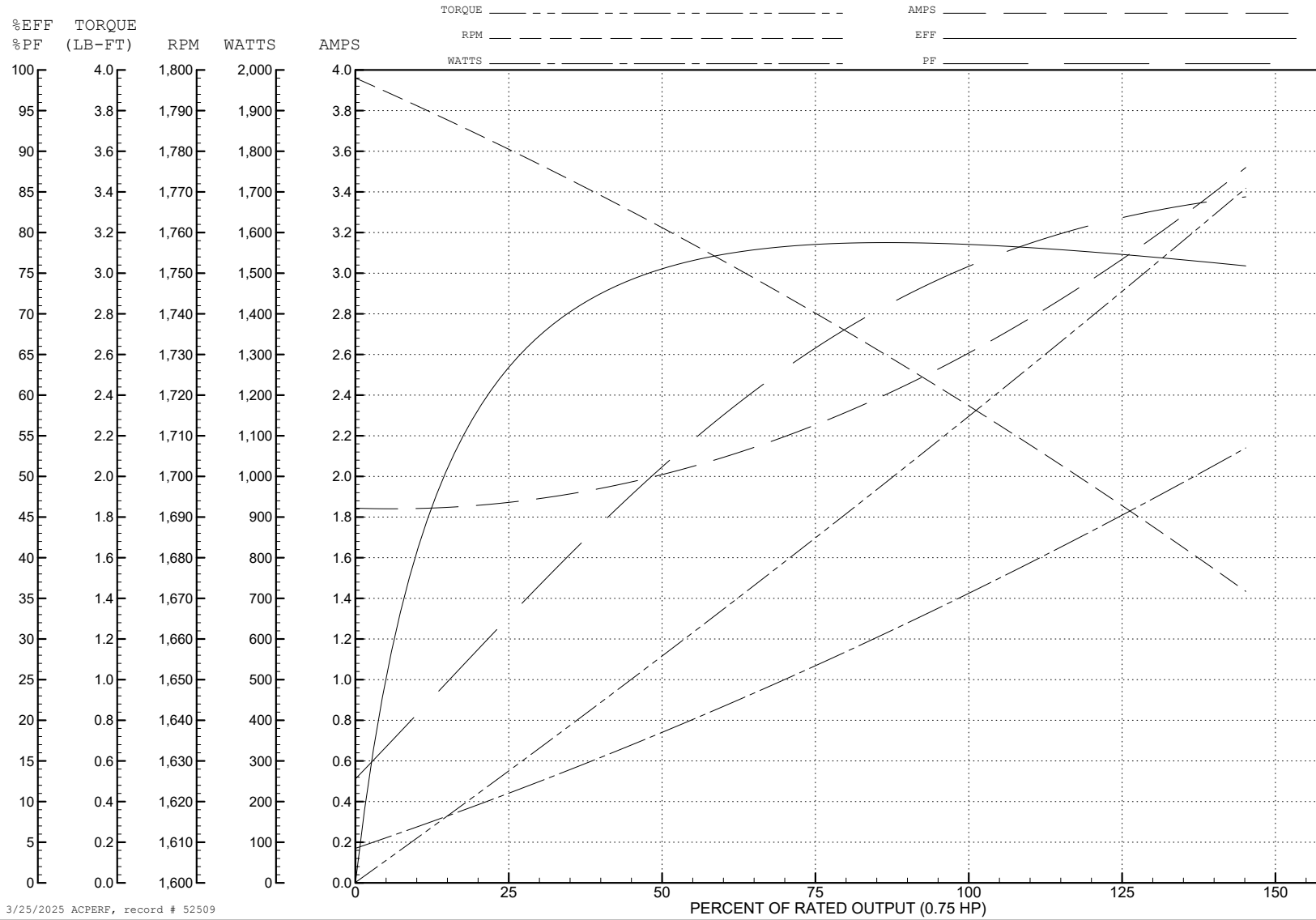
ABB Motors and Mechanical Inc.

WINDING # 34WG5721

Typical performance - not guaranteed values.

0.75 HP 3 PH 60 HZ 1725 RPM 208 V 3420M

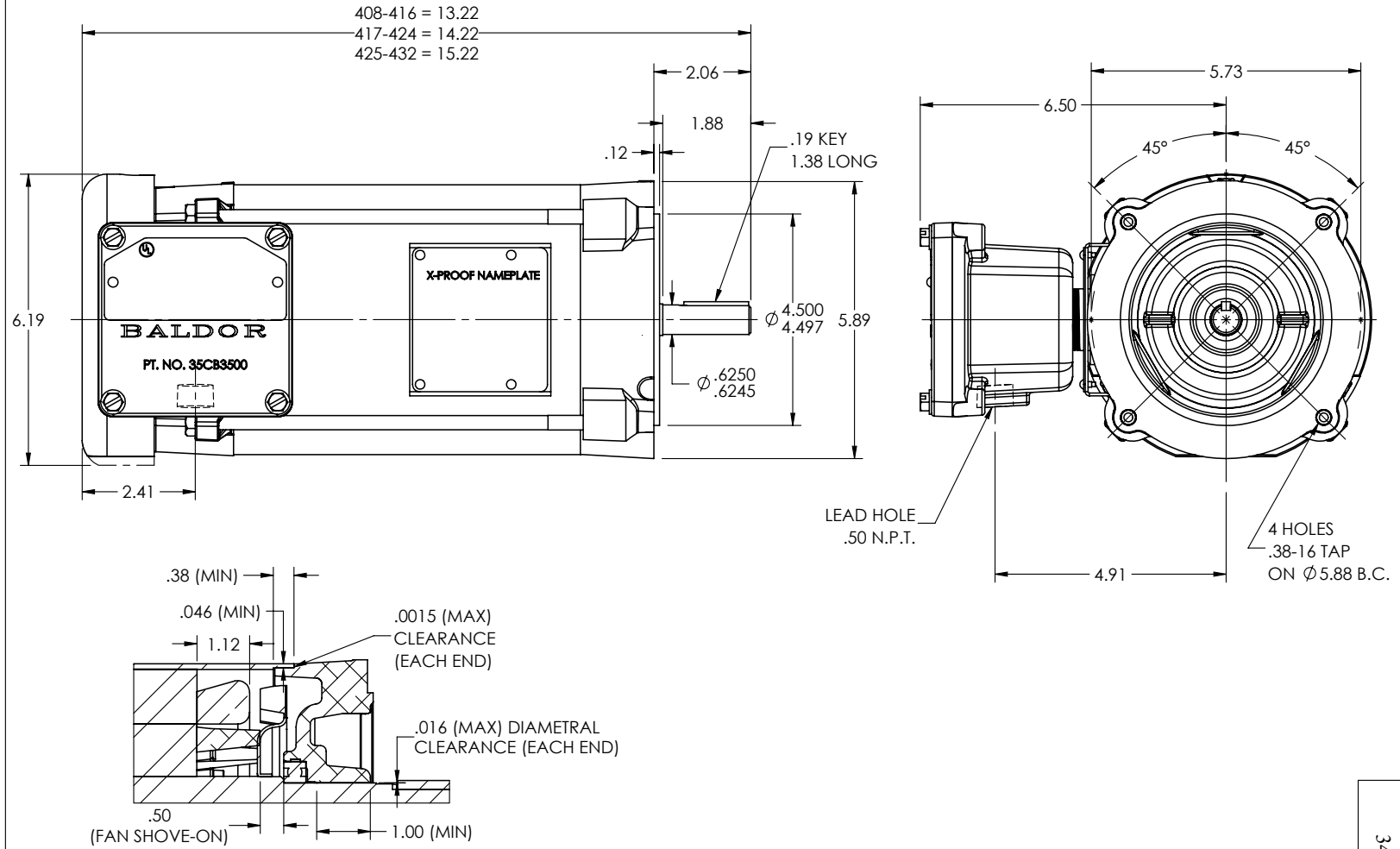
TORQUES (LB-FT): PO=8.04 PU=6.66 LR=6.89 LRA=17.58



3/25/2025 ACPERF, record # 52509



34LY5336



PULLEY END DETAIL

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

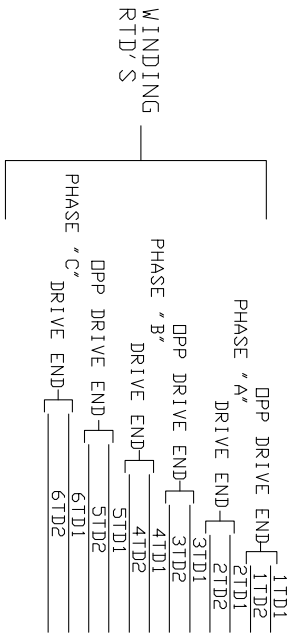
REV. DESC: LOAD TO SOLIDWORKS - REV K			
REV: L	VERSION: 08	REVISED: 08:27:57 04/05/2023	TDR: 000001201165
34LY5336	MODEL NO. 34LY5336	REF: -	
	BY: ENFRAJ0		

**BALDOR - RELIANCE®**

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

34LY5336

A-C MOTOR  
CONNECTION DIAGRAM



CUSTOMER \_\_\_\_\_ CUSTOMER ORDER NO. \_\_\_\_\_ S. D. NO. \_\_\_\_\_  
 APPROVED \_\_\_\_\_ SHEET NO. OF \_\_\_\_\_ D. D. DATE \_\_\_\_\_

418174-033

418174-033

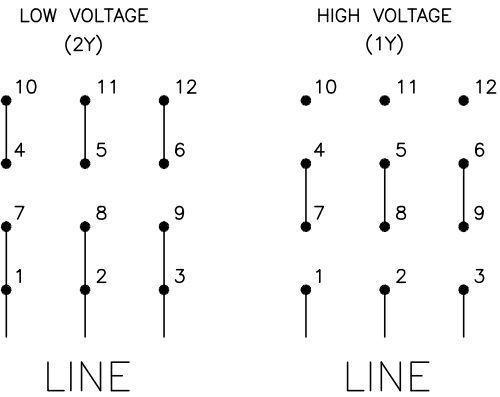
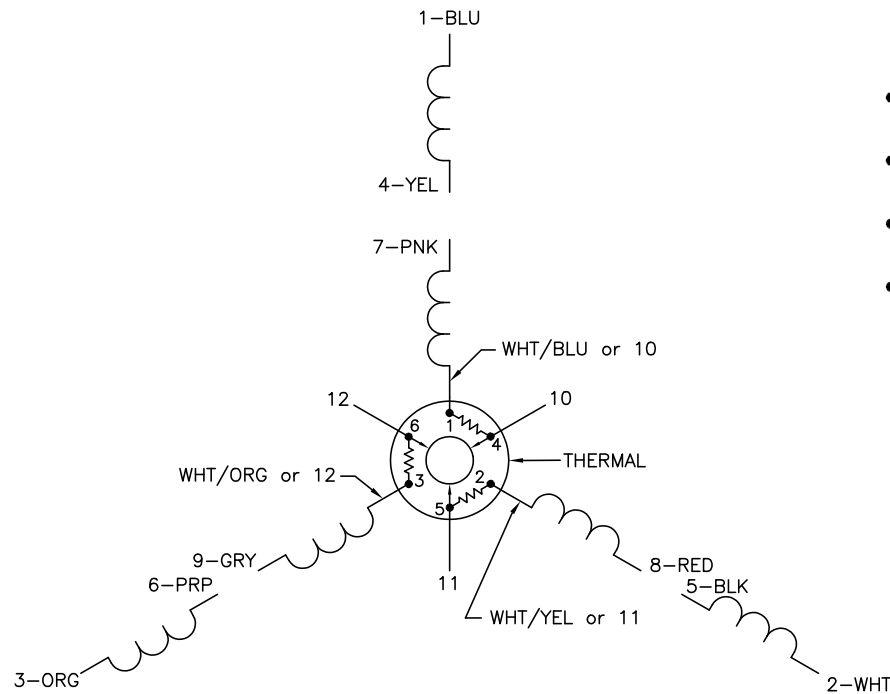
REV. DESC: REMOVED "ACCESSORIES IN MAIN CONDUIT BOX"		
REV. LTR: B	VERSION: 02	TDR: 00000797580
FILE: \RAG\00013\851	REVISED: 09:59:51 05/01/2013	BY: RAGJSS1
MTL: -		

**BALDOR**

A-C MOTOR CONNECTION DIAGRAM ACCESSORIES IN MAIN CONDUIT BOX

SH 1 of 1

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			
REV. LTR: E	BY: EAH	REVISED: 05/06/99 17:1	TDR: 0181040
L00000		FILE: AAA00008370	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, THERMAL, 12 LEADS