ABB BALDOR RELIANCE

Customer information packet

VXM050742A

0.75HP, 1725RPM, 3PH, 60HZ, 56C, 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	.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
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	1.500 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							
NO.			**CC**				
SER. #							
SPEC	34-0000-0388						
CAT.NO.	VXM050742A						
H.P.	.75		**T. CODE**	T3C			
VOLTS	208-230/460						
AMPS	3.2-3/1.5						
R.P.M.	1725 34WG5721						
HZ	60	**PH**	3		**CLASS**	B	
SER.F.	1.00		**DES**	B	**CODE**	K	
RATING	40C AMB-CONT						
FRAME	56C				**NEMA NOM. EFF**	73	
		PF	58				
BLANK	NEMA MG-1 PART 5, IP54						

AC Induction Motor Performance Data
Record # 6818
Typical performance - not guaranteed values

Winding: 34WG5721-R001	**Type:** 3420M	**Enclosure:** XPFC

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

Load Characteristics 460 V, 60 Hz, 0.75 HP

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

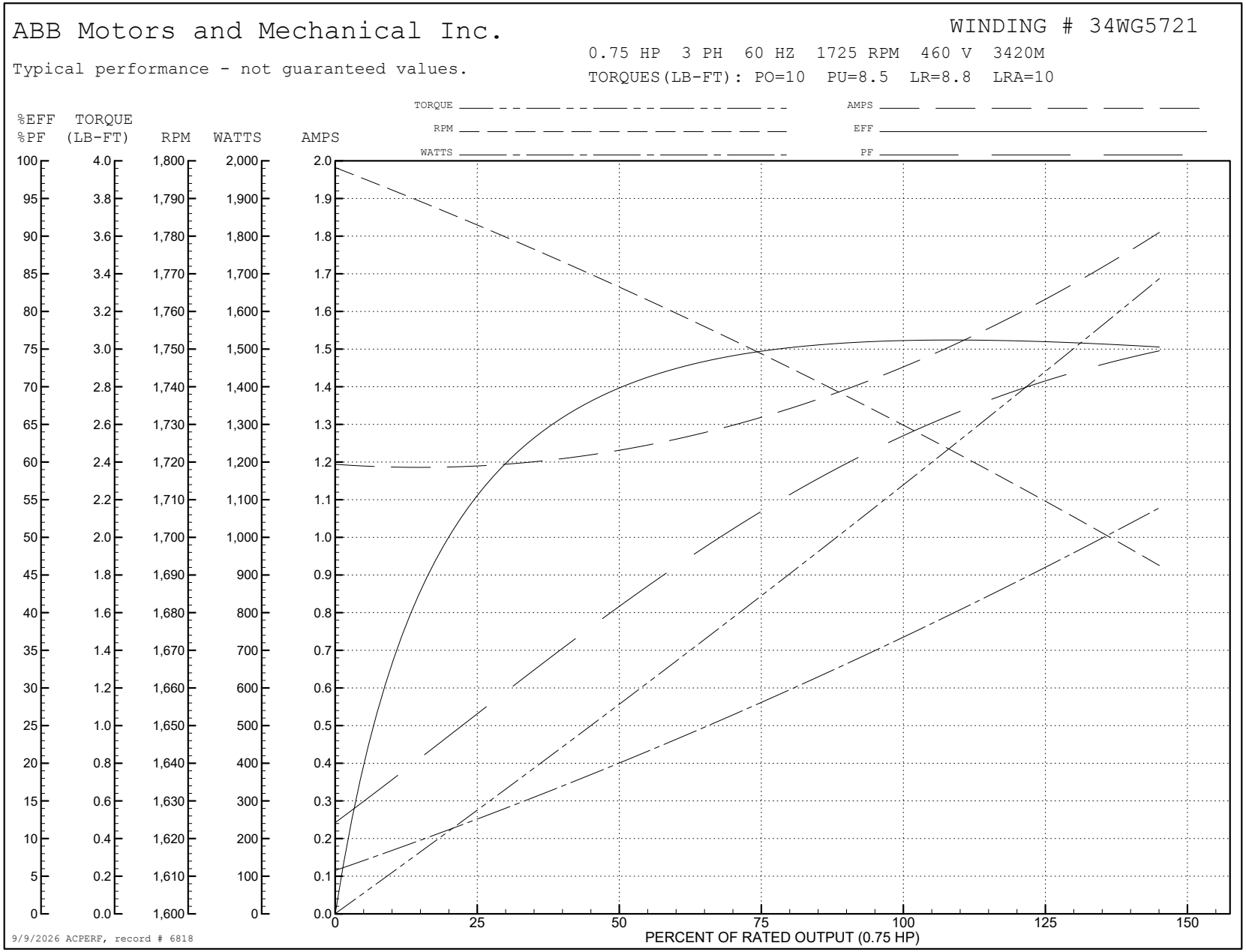


ABB Motors and Mechanical Inc.
WINDING # 34WG5721
0.75 HP 3 PH 60 HZ 1725 RPM 460 V 3420M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=10 PU=8.5 LR=8.8 LRA=10
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.75 HP)
9/9/2026 ACPERF, record # 6818

AC Induction Motor Performance Data
Record # 52509
Typical performance - not guaranteed values

Winding: 34WG5721-R001	**Type:** 3420M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			.75
Volts			208-230/460
Full Load Amps			3.2-3/1.5
R.P.M.			1725
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1
NEMA Nom. Eff.	73	**Power Factor**	58
Rating - Duty			40C AMB-CONT

208 V, 60 Hz: Low Voltage Connection	
Full Load Torque	2.26 LB-FT
Start Configuration	direct on line
Breakdown Torque	8.04 LB-FT
Pull-up Torque	6.66 LB-FT
Locked-rotor Torque	6.89 LB-FT
Starting Current	17.58 A
No-load Current	1.856 A
Line-line Res. @ 25ºC	4.425 Ω
Temp. Rise @ Rated Load	63°C
Locked-rotor Power Factor	57.4
Rotor inertia	0.0476 LB-FT2

Load Characteristics 208 V, 60 Hz, 0.75 HP

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

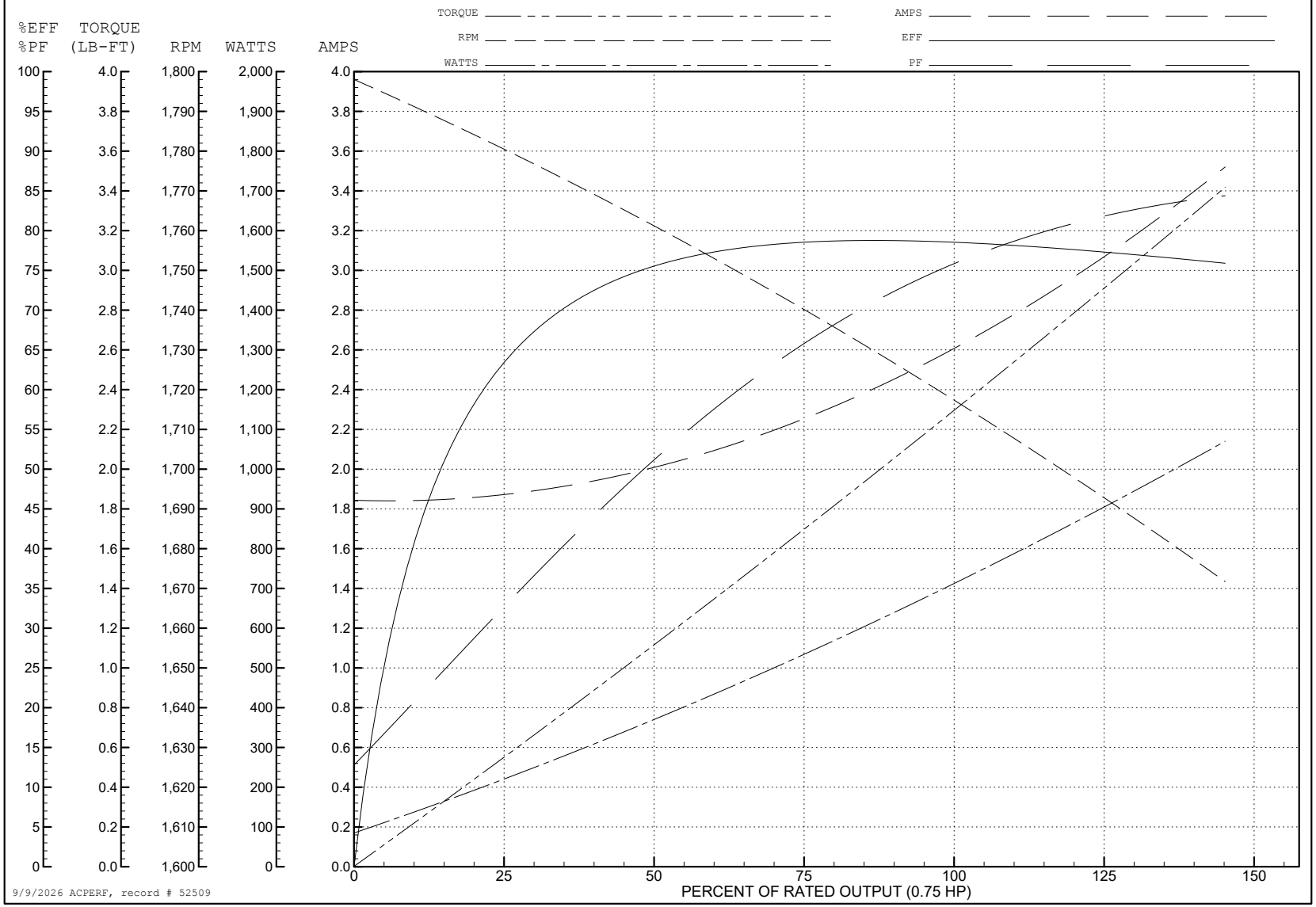
ABB Motors and Mechanical Inc.

WINDING # 34WG5721

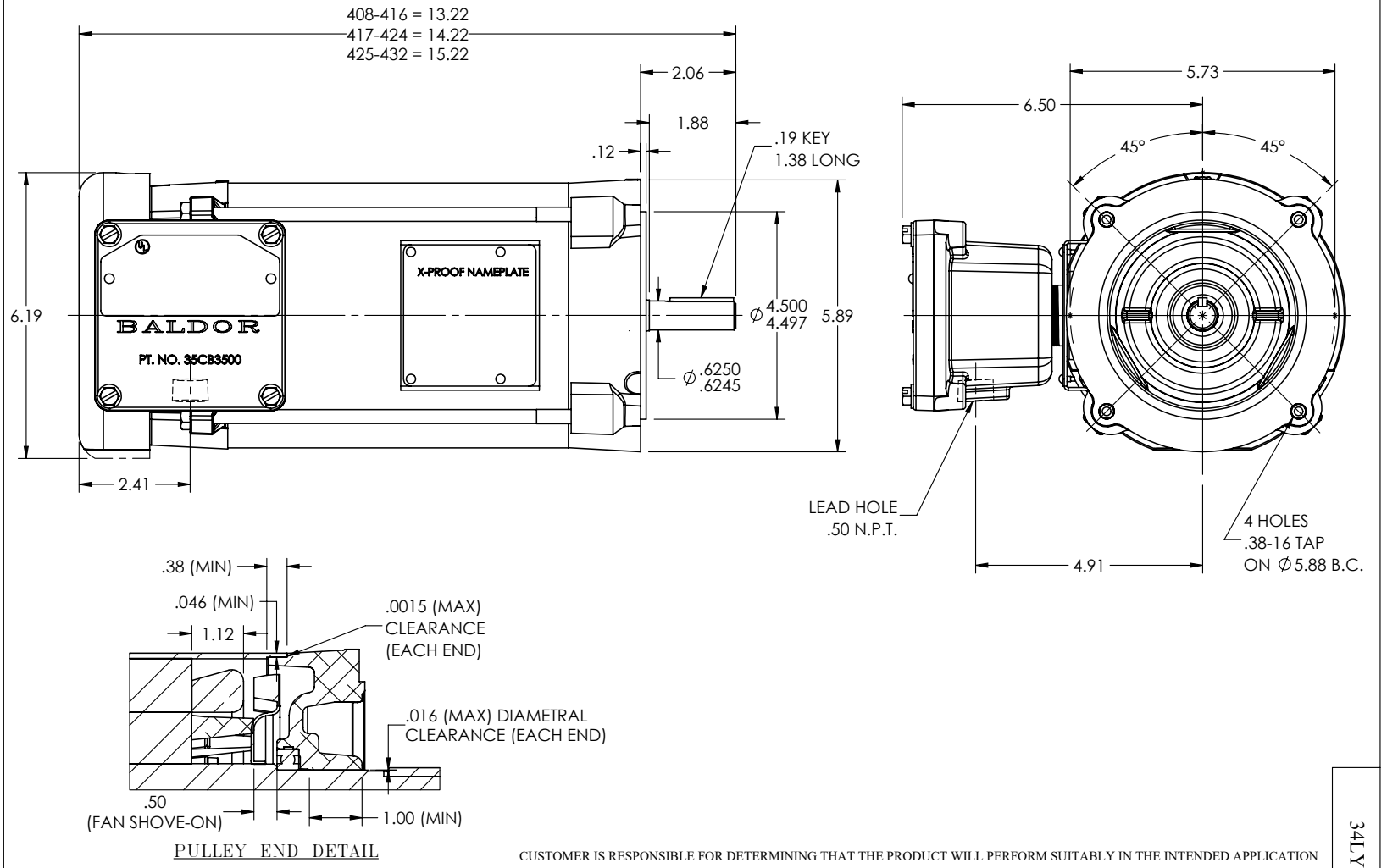
0.75 HP 3 PH 60 HZ 1725 RPM 208 V 3420M

Typical performance - not guaranteed values.

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



34LY5336



PULLEY END DETAIL

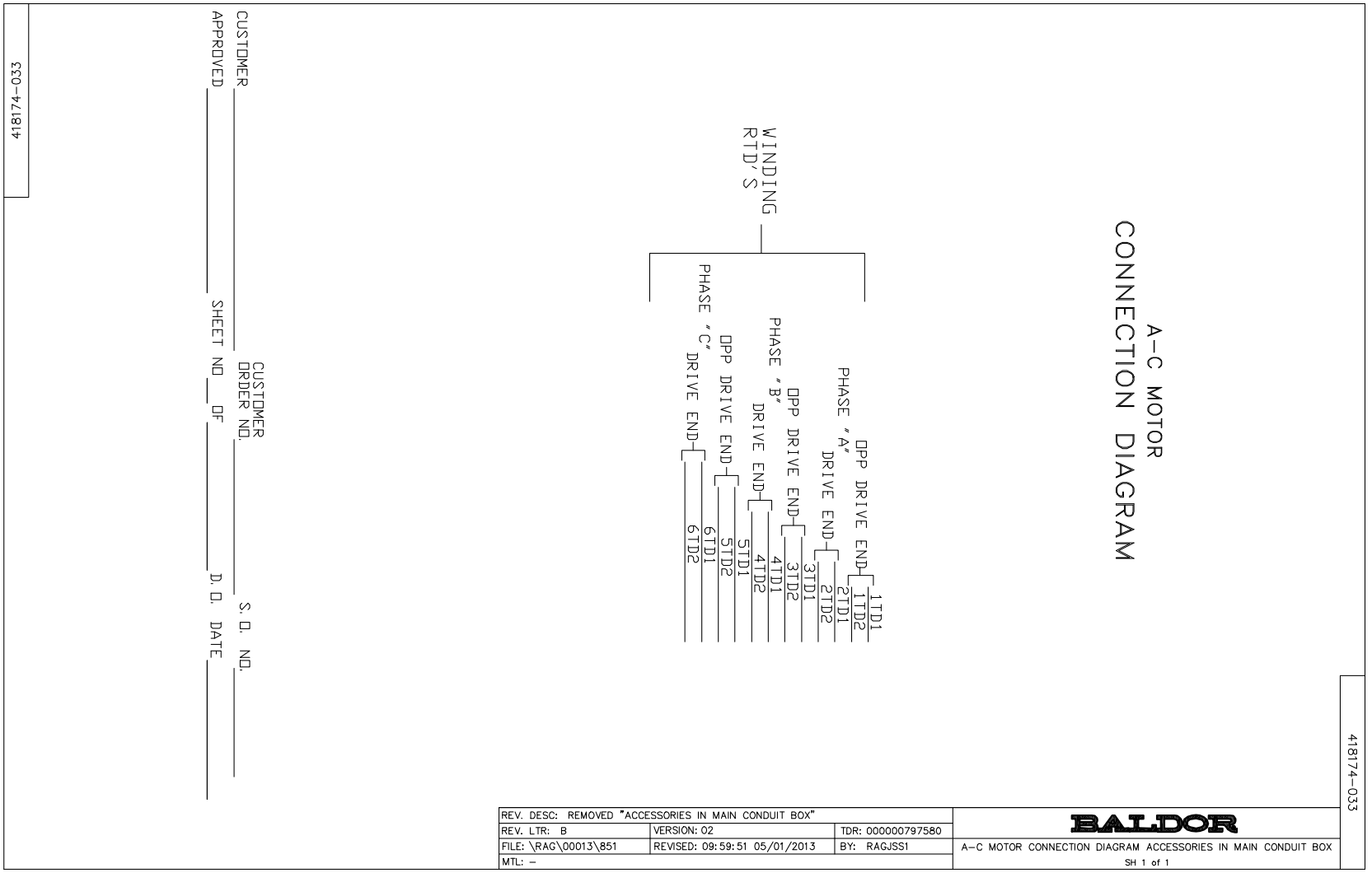
CUSTOMER IS responsible FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

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		

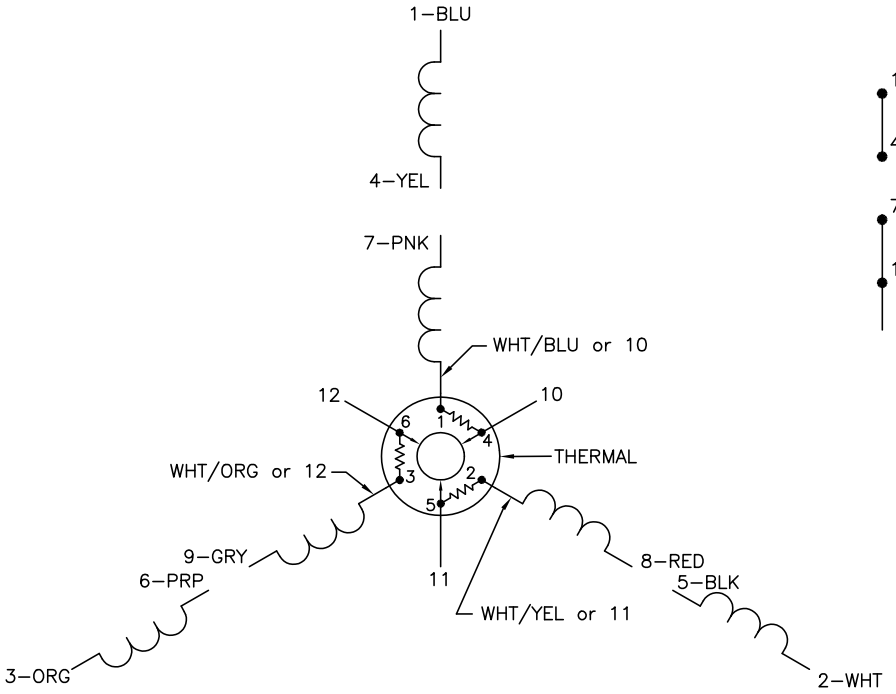
BALDOR - RELIANCE®

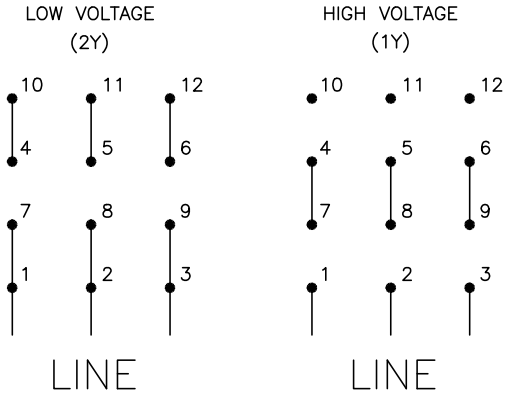
STD VERT X34M NEMA 56C TEFC W/ATO CL1 GP D, CL2 GP F & G

34LY5336


418174-033
CUSTOMER
APPROVED
SHEET NO OF
CUSTOMER ORDER NO.
D. O. DATE
S. O. NO.
A-C MOTOR
CONNECTION DIAGRAM
WINDING RTD'S
OPP DRIVE END
PHASE "A" DRIVE END
1TD1
1TD2
2TD1
2TD2
OPP DRIVE END
PHASE "B" DRIVE END
3TD1
3TD2
4TD1
4TD2
OPP DRIVE END
PHASE "C" DRIVE END
5TD1
5TD2
6TD1
6TD2
418174-033
REV. DESC: REMOVED "ACCESSORIES IN MAIN CONDUIT BOX"
REV. LTR: B
VERSION: 02
TDR: 000000797580
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.

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

CD0007