Customer information packet

VFDL3501M

.33HP, 1725RPM, 1PH, 60HZ, 56C, 3414L, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	.330 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	UR
	CSA
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	3.000 A @ 230.0 V
	3.600 A @ 208.0 V
	6.000 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	60.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	N
Type	AC
Mech. spec.	34M372
Base	
Status	PRD/A
Elec. spec.	34WGW721
Layout	34LYM372
Eff. date	07-25-2024
CD Diagram	CD0008
Poles	04
Leads	7#18
Proprietary	False
Created date	11-26-2013

High Voltage Full Load Amps	3.0 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	7 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3414L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.35 IN
Power Factor	60
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.35
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
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	Manual Thermal Overload

Winding Thermal 1 Location	KO
Winding Thermal 2	None

Nameplate

NP1280L									
CAT.NO.	VFDL3501M								
SPEC.	34M372W721G1								
HP	.33								
VOLTS	115/230								
AMP	6/3								
RPM	1725								
FRAME	56C	**HZ**	60		**PH**	1			
SER.F.	1.35	**CODE**	L	**DES**	N	**CL**	B		
NEMA-NOM-EFF	60	**PF**	60						
RATING	40C AMB-CONT								
CC									
DE	6203	**ODE**	6203						
ENCL	TEFC	**SN**							
	SFA 6.8/3.4								

Parts List

Part number	Description	Quantity
SA273097	SA 34M372W721G1	1.000 ea
RA259701	RA 34M372W721G1	1.000 ea
TPMRD4746SP	THERMAL 1PH 0.75 MAN SPL LOW TEMP	1.000 ea
EC1189A02SP	61B2D120189NNBA ELEC CAP, 189-227MFD, 12	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
34CB3001A39P	CONDUIT BOX, MACH/PAINT	1.000 ea
34GS1013SP	GASKET,CONDUIT BOX LEXIDE	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
RM1014A01SP	BUTYL RUB.THRM COV. (MENA)	1.000 ea
HA6001A01	THERMAL RETAINER (PLATED)	1.000 ea
NS2500A02	INSULATOR, MAN THER PROT	1.000 ea
51XB1214A10	12-14 X 5/8HX WS SL SR TYBX	2.000 ea
34EP3102A01SP	FR ENDPLATE, MACH	1.000 ea
HA1005A05SP	SLINGER, OD 1.50, ID .659, 203 BRG	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
34CB4800SP	CAPACITOR COVER, STAMPED PRIMED	1.000 ea
34GS3000SP	GASKET, CAPACITOR BOX	1.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3300A55	PU ENDPLATE, MACH W/SEAL	1.000 ea
HW4600A54	SEAL 0.668 X 1.064 X 0.250 DOUBLE SHIELD	1.000 ea
HW4600B39SP	V-RING SLINGER 0.550 X 0.790 X .18 VITON	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
34FN3002A01SP	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
34FH4002A01SP	IEC FH NO GREASER PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
36CB4516	750LIPPED CB LID - GALVANNEAL	1.000 ea
37GS1001SP	GASKET, CONDUIT BOX LID, .06 THICK LEXID	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt

HW3001B02	BRASS CUP WASHER W/GROUND SYMBOL TAB,	1.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
MG1025C02	WILKOFAST SG, 787.105, TAN	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
SP5051B16	MDL 34 TORQ STAT SW,TYPE L , STD F1 & F2	1.000 ea
HA3100A12	THRUBOLT 10-32 X 7.375	4.000 ea
LB1087	LABEL,MANUAL RESET (ROLL LABEL)	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0008	CONNECTION LABEL	1.000 ea
NP1280L	ALUM FARM DUTY UL CC THERMAL	1.000 ea
PK3083	STYROFOAM PACKING CRADLE	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea
PK3088	MICROFOAM, 8"X"8 PERF. SHEETS	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

AC Induction Motor Performance Data
Record # 7081
Typical performance - not guaranteed values

Winding: 34WGW721-R001	**Type:** 3414L	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.33	**Full Load Torque**	1 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			6/3	**Breakdown Torque**	2.95 LB-FT
R.P.M.			1725	**Pull-up Torque**	2.55 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	3.6 LB-FT
NEMA Design Code	N	**KVA Code**	L	**Starting Current**	13 A
Service Factor (S.F.)			1.35	**No-load Current**	2.6 A
NEMA Nom. Eff.	60	**Power Factor**	60	**Line-line Res. @ 25ºC**	6.32 Ω A Ph 4.93 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	59°C
S.F. Amps			6.8/3.4	**Temp. Rise @ S.F. Load**	73°C

Load Characteristics 230 V, 60 Hz, 0.33 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	31	41	52	60	67	73	0
Efficiency	33	41	52	60	61.5	61.5	0
Speed	1780	1760	1745	1725	1705	1680	0
Line amperes	2.6	2.7	2.8	3	3.3	3.7	3.4

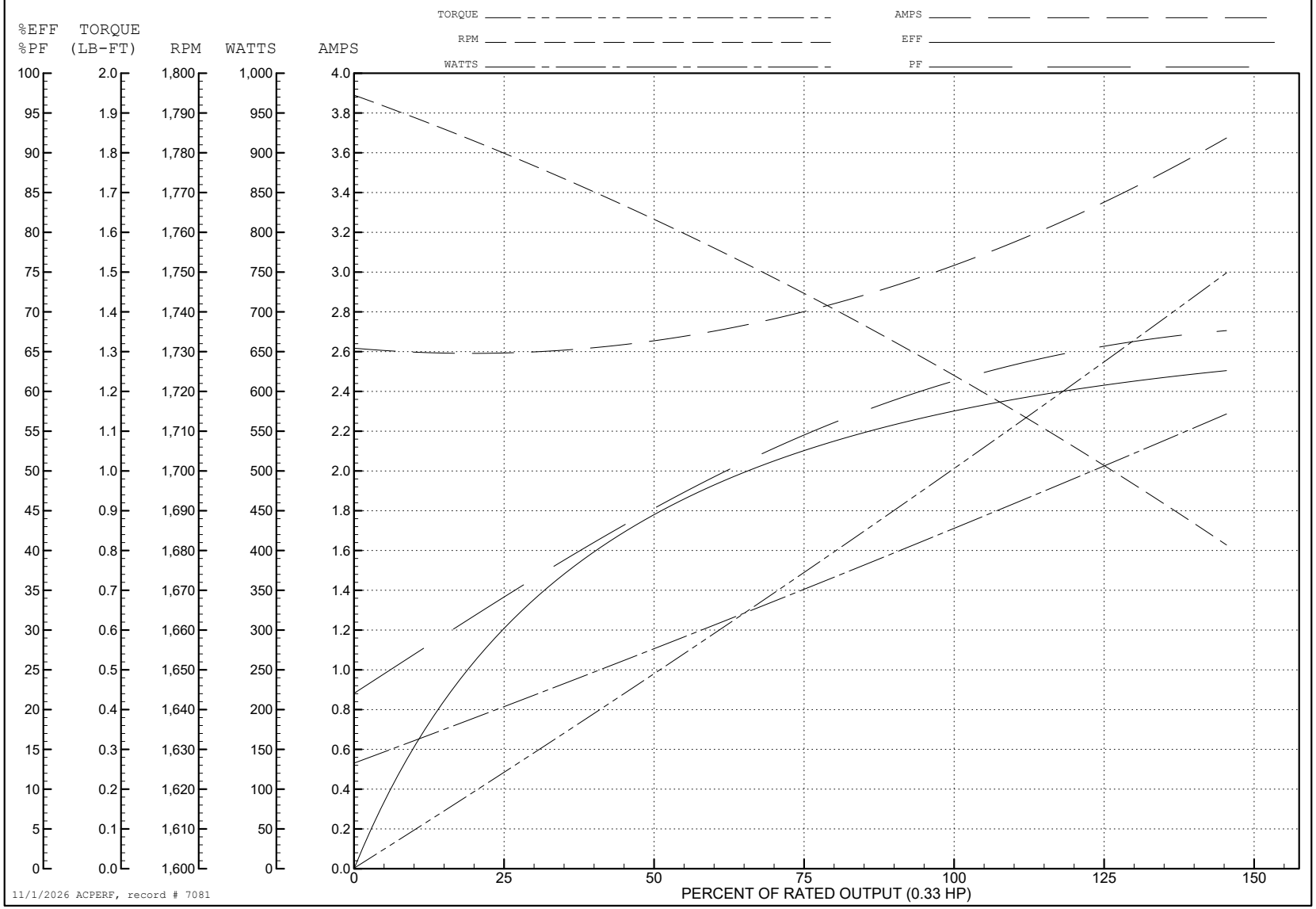
ABB Motors and Mechanical Inc.

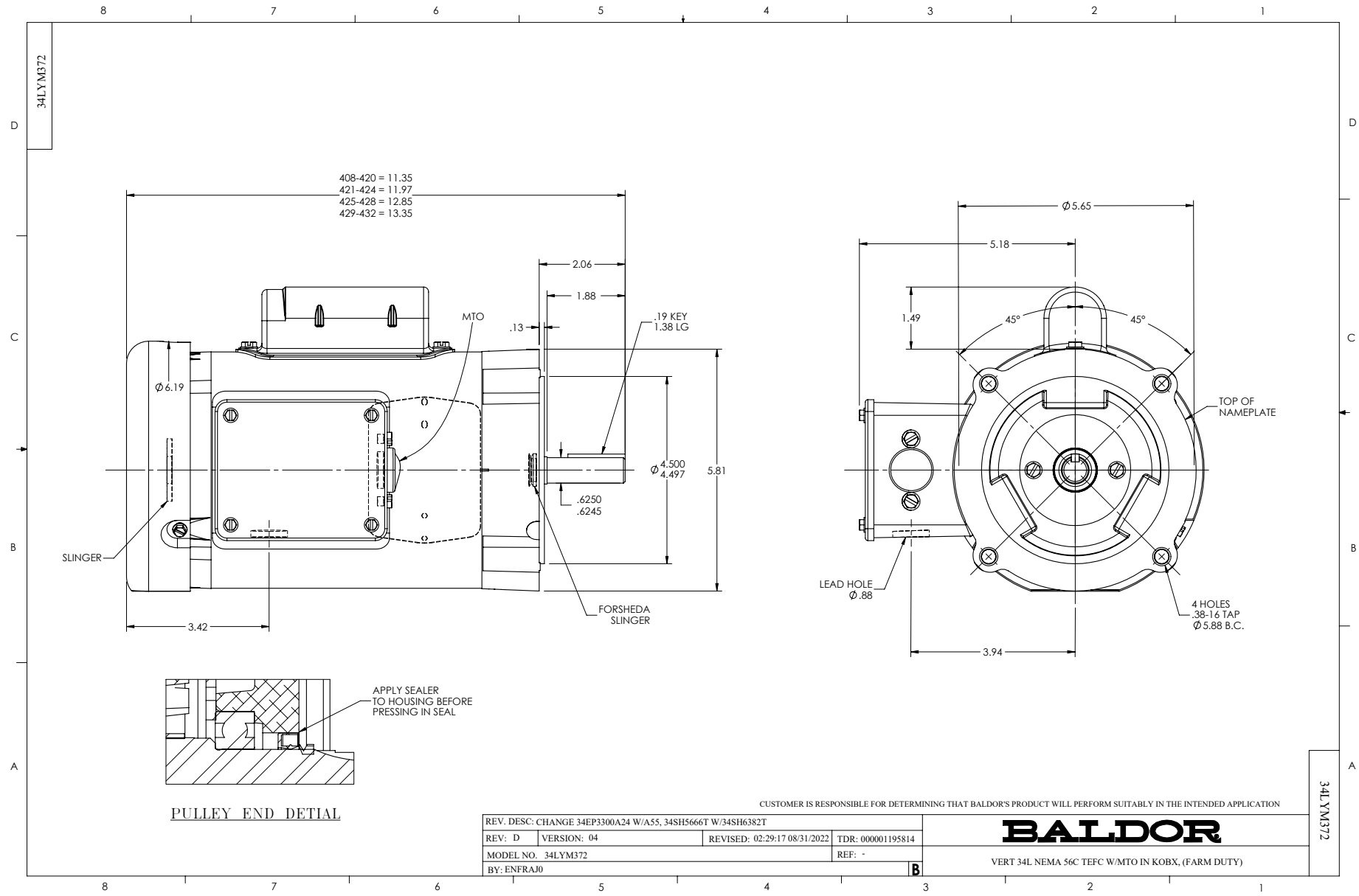
WINDING # 34WGW721

0.33 HP 1 PH 60 HZ 1725 RPM 230 V 3414L

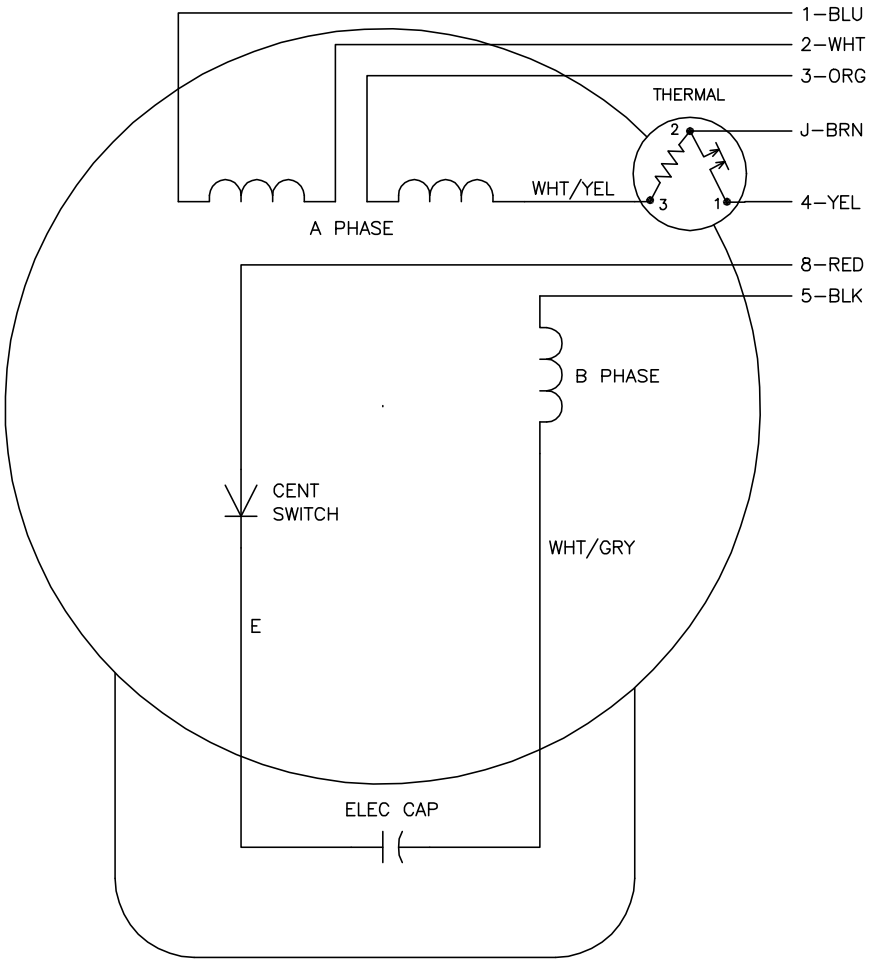
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=2.95 PU=2.55 LR=3.6 LRA=13




34LYM372
408-420 = 11.35
421-424 = 11.97
425-428 = 12.85
429-432 = 13.35
2.06
1.88
.13
MTO
.19 KEY
1.38 LG
Ø6.19
Ø 4.500
4.497
5.81
.6250
.6245
SLINGER
FORSHEDA
SLINGER
3.42
Ø5.65
5.18
1.49
45°
45°
TOP OF
NAMEPLATE
LEAD HOLE
Ø.88
4 HOLES
.38-16 TAP
Ø5.88 B.C.
3.94
APPLY SEALER
TO HOUSING BEFORE
PRESSING IN SEAL
PULLEY END DETIAL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE 34EP3300A24 W/A55, 34SH5666T W/34SH6382T
REV: D
VERSION: 04
REVISED: 02:29:17 08/31/2022
TDR: 000001195814
MODEL NO. 34LYM372
REF: -
BY: ENFRAJ0
B
BALDOR
VERT 34L NEMA 56C TEFC W/MTO IN KOBX, (FARM DUTY)
34LYM372

CD0008



	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.

CD0008

REV. DESC: REMOVE 2–TERMINAL THERMAL DETAIL, SEE CD0008A02			BALDOR ELECTRIC Co.
REV. LTR: F	VERSION: 01	TDR: 000000360649	
CD0008	FILE: \AAA\00007\408	REVISED: 10:56:54 04/18/2005	TYPE L, DV, REV, THERMAL, 7 LEADS
	MTL: –	BY: ENJOEP0	