ABB BALDOR RELIANCE

Customer information packet

FDL3501M

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

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Specifications

Enclosure	TEFC
Frame	56
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	Rigid
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	M
Type	AC
Mech. spec.	34M366
Base	
Status	PRD/A
Elec. spec.	34WGW721
Layout	34LYM366
Eff. date	07-25-2024
CD Diagram	CD0008
Poles	04
Leads	7#18
Proprietary	False
Created date	11-22-2013

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	Standard
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

Nameplate

NP1280L											
CAT.NO.	FDL3501M										
SPEC.	34M366W721										
HP	.33										
VOLTS	115/230										
AMP	6/3										
RPM	1725										
FRAME	56	**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										

Accessories

Part number	Description	Multiplier
34-3300FD	C FACE KIT FARM DUTY 56C, ENCL 6203 BRG	A8

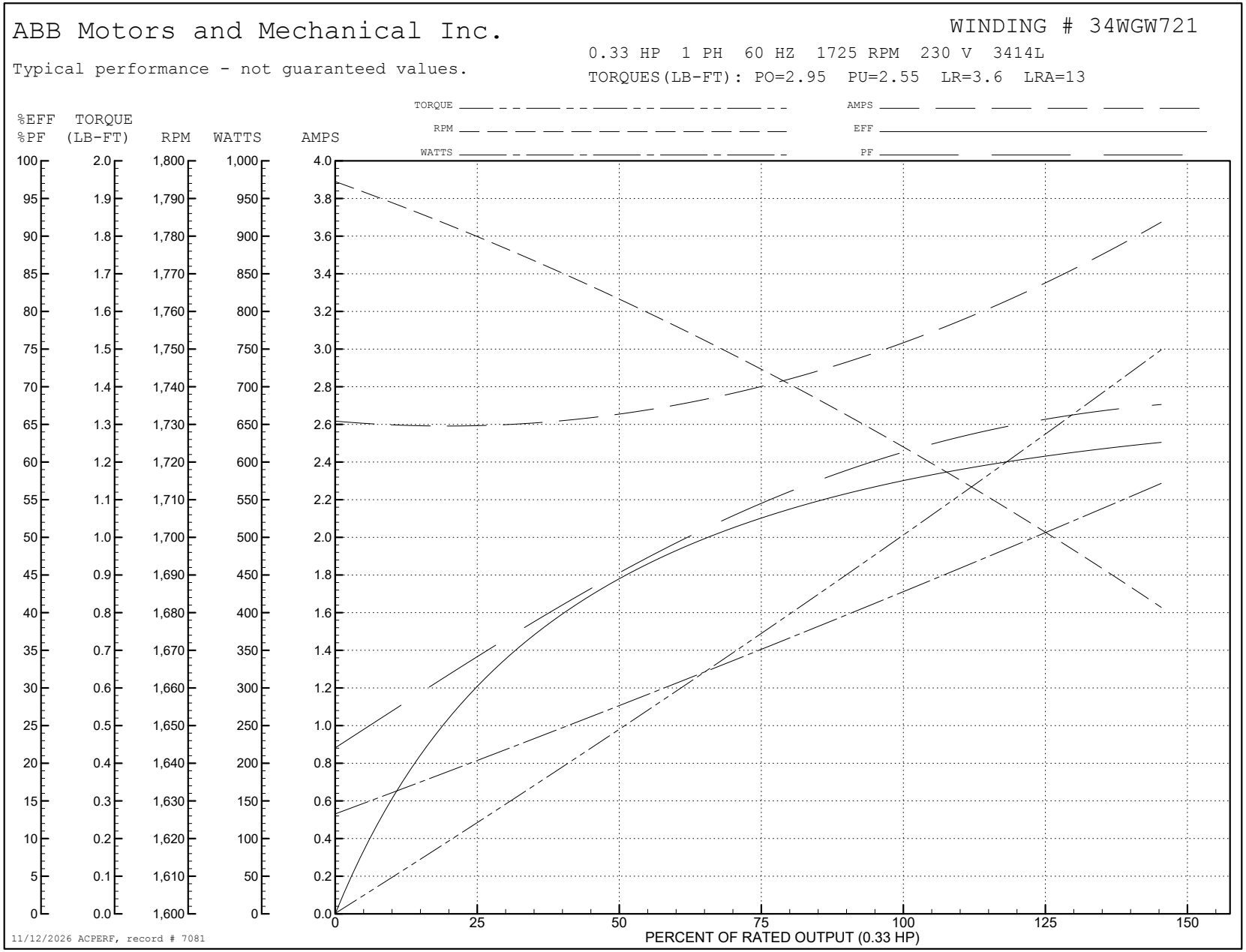
AC Induction Motor Performance Data
Record # 7081
Typical performance - not guaranteed values

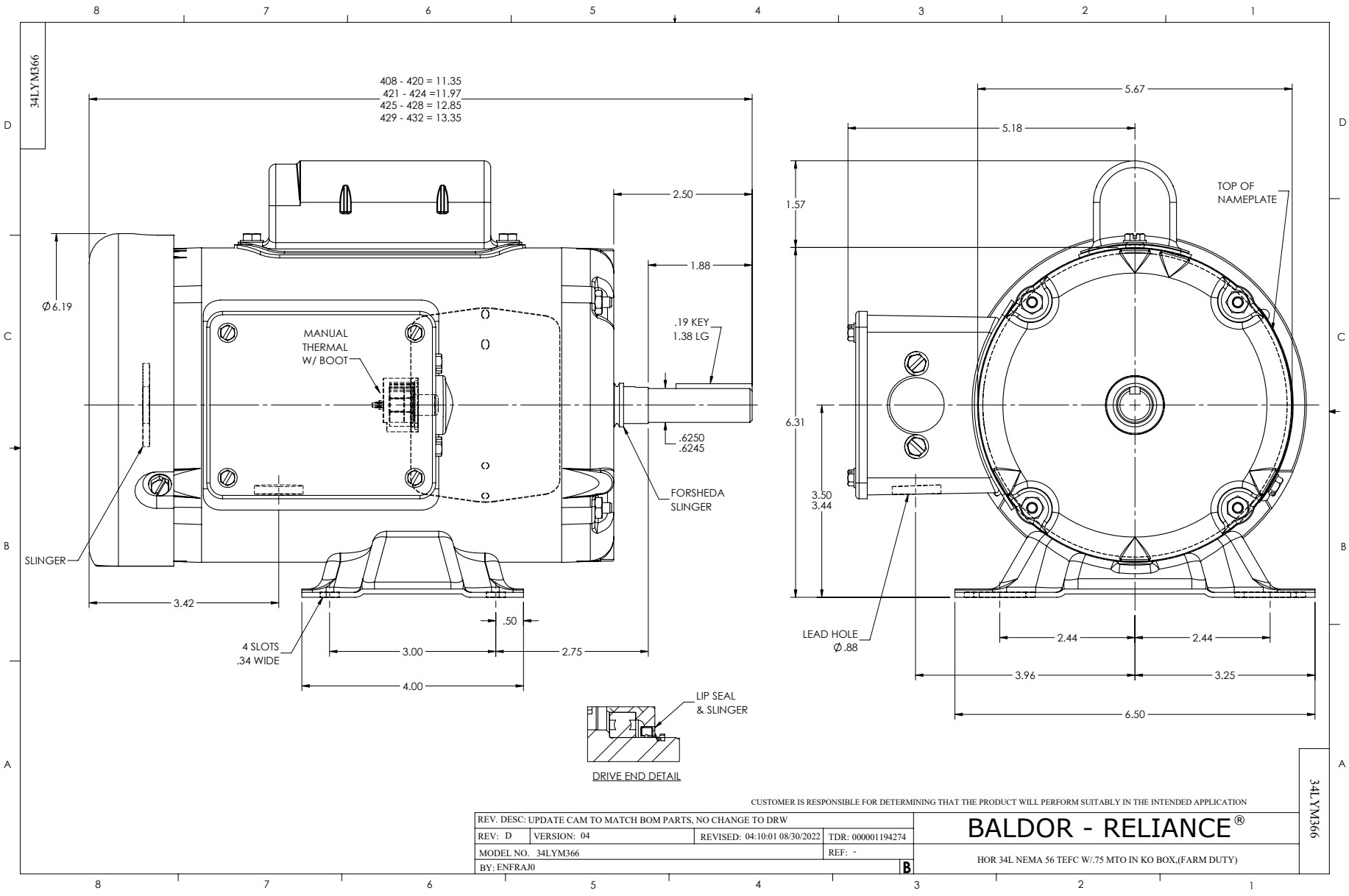
Winding: 34WGW721-R001	**Type:** 3414L	**Enclosure:** TEFC

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

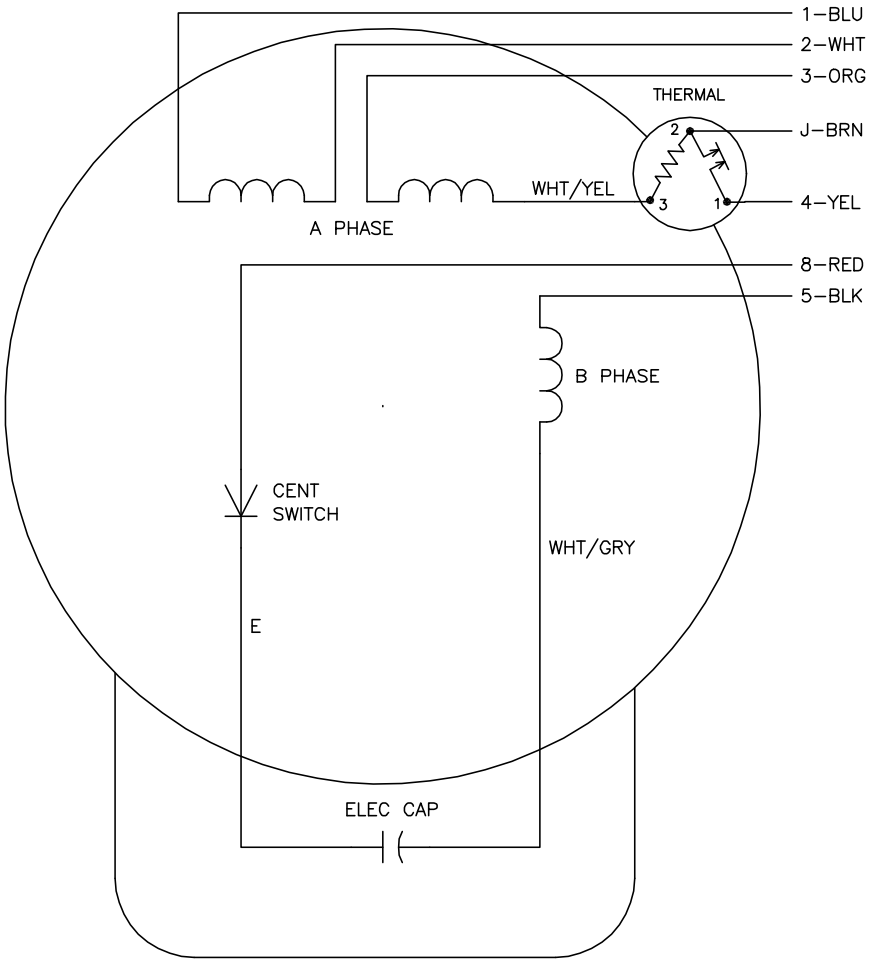
Load Characteristics 230 V, 60 Hz, 0.33 HP

% 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
Typical performance - not guaranteed values.
0.33 HP 1 PH 60 HZ 1725 RPM 230 V 3414L
TORQUES(LB-FT): PO=2.95 PU=2.55 LR=3.6 LRA=13
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.33 HP)
11/12/2026 ACPERF, record # 7081


34LYM366
408 - 420 = 11.35
421 - 424 =11.97
425 - 428 = 12.85
429 - 432 = 13.35
2.50
1.88
Ø6.19
MANUAL
THERMAL
W/ BOOT
.19 KEY
1.38 LG
.6250
.6245
FORSHEDA
SLINGER
SLINGER
3.42
.50
4 SLOTS
.34 WIDE
3.00
2.75
4.00
LIP SEAL
& SLINGER
DRIVE END DETAIL
5.67
5.18
1.57
TOP OF
NAMEPLATE
6.31
3.50
3.44
LEAD HOLE
Ø.88
2.44
2.44
3.96
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE CAM TO MATCH BOM PARTS, NO CHANGE TO DRW
REV: D
VERSION: 04
REVISED: 04:10:01 08/30/2022
TDR: 0000001194274
MODEL NO. 34LYM366
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
HOR 34L NEMA 56 TEFC W/.75 MTO IN KO BOX,(FARM DUTY)
34LYM366

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.

REV. DESC: REMOVE 2–TERMINAL THERMAL DETAIL, SEE CD0008A02			BALDOR ELECTRIC Co.
REV. LTR: F	VERSION: 01	TDR: 000000360649	
8000CD	FILE: \AAA\00007\408	REVISED: 10:56:54 04/18/2005	TYPE L, DV, REV, THERMAL, 7 LEADS
	MTL: –	BY: ENJOEP0	

CD0008