

ABB BALDOR RELIANCE III

Customer information packet

L3501M

.33HP, 1725RPM, 1PH, 60HZ, 56, 3414L, TEFC, F1

Class - None

Division - Not Applicable

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	230.0 V @ 60 HZ 115.0 V @ 60 HZ
Agency Approvals	C UR US
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	6.000 A @ 115.0 V 3.600 A @ 208.0 V 3.000 A @ 230.0 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
High Voltage Full Load Amps	3.0 a

Part Detail

Revision	AH
Type	AC
Mech. spec.	34C061
Base	
Status	PRD/A
Elec. spec.	34WG5598
Layout	34LYC061
Eff. date	12-30-2024
CD Diagram	CD0008
Poles	04
Leads	7#18
Proprietary	False
Created date	01-01-0001

Insulation Class	B
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No 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	11.34 IN
Power Factor	60
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
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	No 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	SK

Winding Thermal 2

None

Nameplate

NP1257L											
CAT.NO.	L3501M										
SPEC.	34C61-5598										
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										

Parts List

Part number	Description	Quantity
SA008601	SA 34C61-5598	1.000 ea
RA005048	RA 34C61-5598	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
34CB3002A	CB CAST W/.88 DIA HOLE	1.000 ea
34GS1029A01	GASKET, CONDUIT BOX	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
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
34EP3102A01SP	FR ENDPLATE, MACH	1.000 ea
WD1000A16	2-520128-2 AMP FLAG TERMINAL(4M/RL)	1.000 ea
34CB4800SP	CAPACITOR COVER, STAMPED PRIMED	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3102A02SP	FR/PU ENDPLATE, MACH	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 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
34CB4517	CB LID 4 MTG HOLES .22 DIA STAMPED, FOR	1.000 ea
34GS1031A01	GASKET, FLAT CONDUIT BOX LID (LEXIDE)	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	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
EC1189A02SP	61B2D120189NNBA ELEC CAP, 189-227MFD, 12	1.000 ea
34GS3000SP	GASKET, CAPACITOR BOX	1.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 ea
HA3100A12	THRUBOLT 10-32 X 7.375	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LB1087	LABEL,MANUAL RESET (ROLL LABEL)	1.000 ea

LC0008	CONNECTION LABEL	1.000 ea
NP1257L	ALUM UL CC THERMAL REV MTG	1.000 ea
34PA1002	PKG GRP, PRINT PK1001A01	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

Accessories

Part number	Description	Multiplier
34-171	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 6786

Typical performance - not guaranteed values

Winding: 34WG5598-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	
Service Factor (S.F.)		1.35	Starting Current		13 A	
NEMA Nom. Eff.		60	Power Factor		60	
Rating - Duty		40C AMB-CONT	Line-line Res. @ 25°C		6.32 Ω A Ph 4.93 Ω B Ph	
S.F. Amps		6.8/3.4	Temp. Rise @ Rated Load		59°C	
			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	71
Efficiency	33	41	52	60	61.5	61.5	61.5
Speed	1780	1760	1745	1725	1705	1680	1690
Line amperes	2.6	2.7	2.8	3	3.3	3.7	3.4

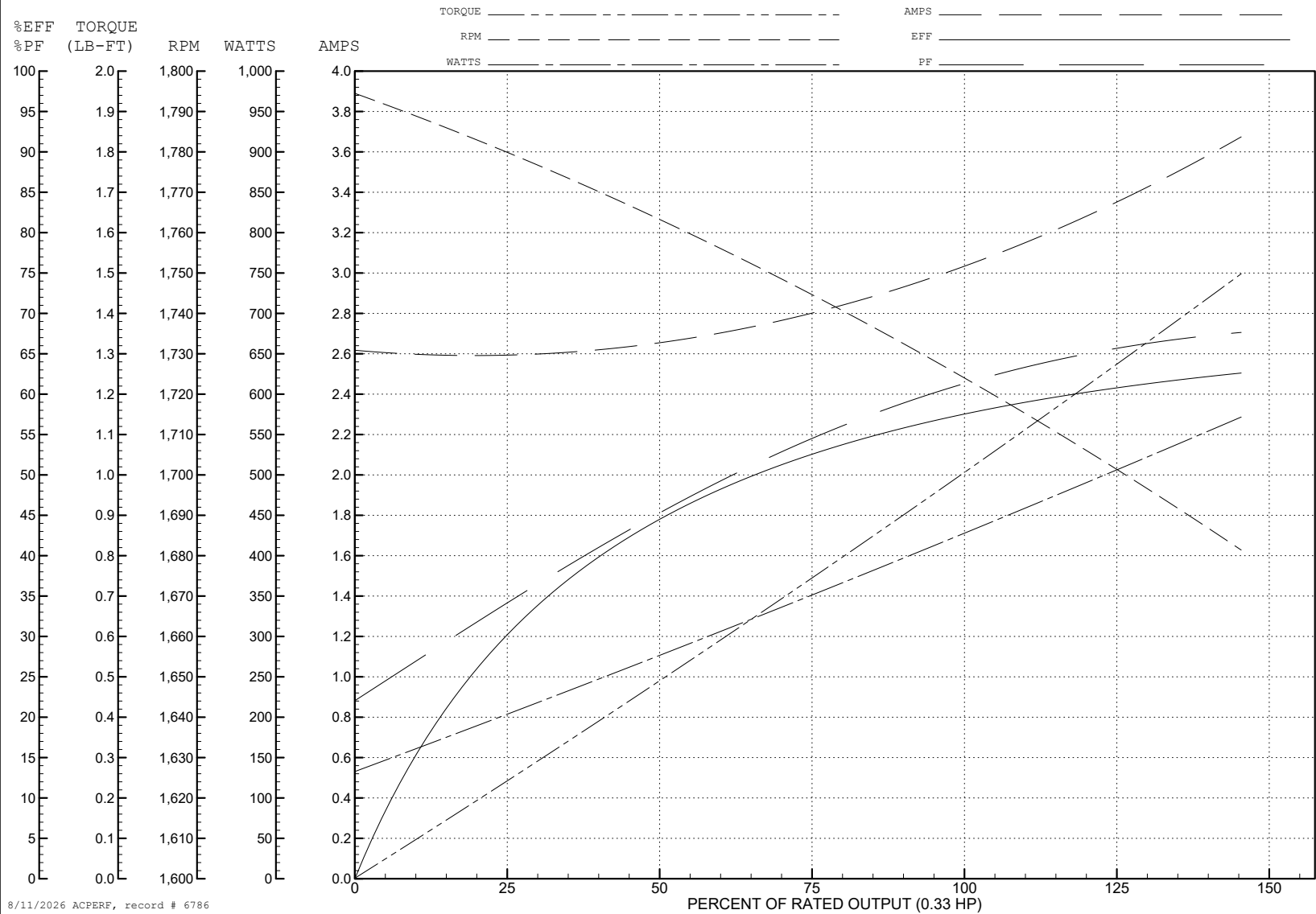
ABB Motors and Mechanical Inc.

WINDING # 34WG5598

Typical performance - not guaranteed values.

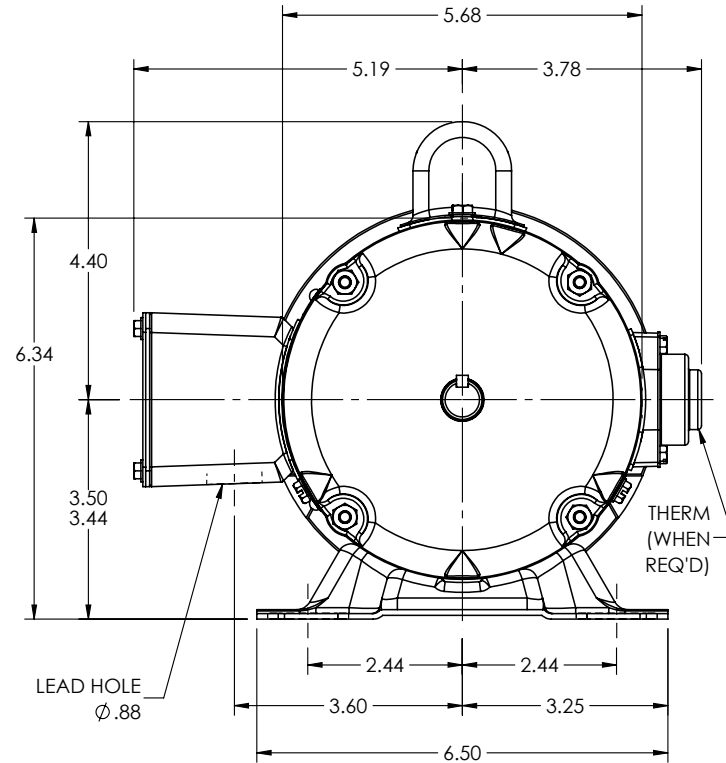
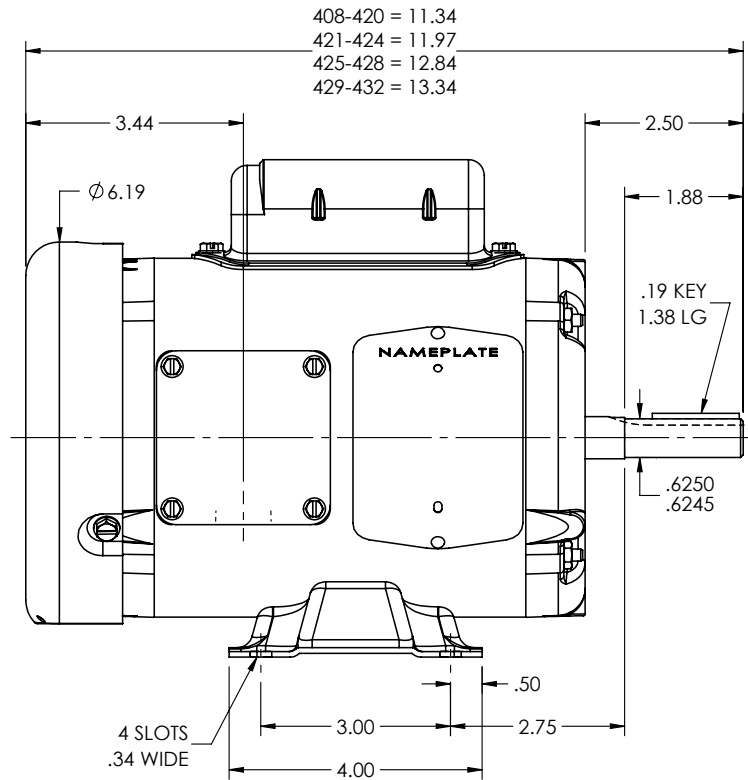
0.33 HP 1 PH 60 HZ 1725 RPM 230 V 3414L

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



8/11/2026 ACPERF, record # 6786

34LYC061



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

REV. DESC: CLEAN UP DIMENSIONING

REV: J

VERSION: 04

REVISED: 04:06:14 04/11/2025

TDR: 000001253803

34LYC061

MODEL NO. 34LYC061

BY: ENJEFD0

REF: -

BALDOR - RELIANCE®

STD HORZ MODEL 34L NEMA 56 TEFC

34LYC061

	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

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			
REV. LTR: F		VERSION: 01	TDR: 000000360649
800000	FILE: \AAA\00007\408		REVISED: 10:56:54 04/18/2005
	MTL: -		BY: ENJOEPO

BALDOR ELECTRIC Co.

TYPE L, DV, REV, THERMAL, 7 LEADS

CD0008