

ABB BALDOR RELIANCE III

Customer information packet

VL3501

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

Class - None

Division - Not Applicable

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	C UR US
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
High Voltage Full Load Amps	3.0 a

Part Detail

Revision	AQ
Type	AC
Mech. spec.	34C063
Base	
Status	PRD/A
Elec. spec.	34WG5507
Layout	34LYC063
Eff. date	12-30-2024
CD Diagram	CD0001
Poles	04
Leads	6#18
Proprietary	False
Created date	01-01-0001

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	6 @ 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	Ball
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	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	None
Winding Thermal 2	None

Nameplate

NP1256L									
CAT.NO.	VL3501								
SPEC.	34C63-5507								
HP	.33								
VOLTS	115/230								
AMP	6/3								
RPM	1725								
FRAME	56C		HZ	60			PH	1	
SER.F.	1.35	CODE	L	DES	N	CLASS	B		
NEMA-NOM-EFF	60	PF	60						
RATING	40C AMB-CONT								
CC									
DE	6203		ODE	6203					
ENCL	TEFC	SN							
	SFA 6.8/3.4								

AC Induction Motor Performance Data

Record # 6774

Typical performance - not guaranteed values

Winding: 34WG5507-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. @ 25°C		6.32 Ω A Ph 4.93 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		67°C	
S.F. Amps		6.8/3.4		Temp. Rise @ S.F. Load		83°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

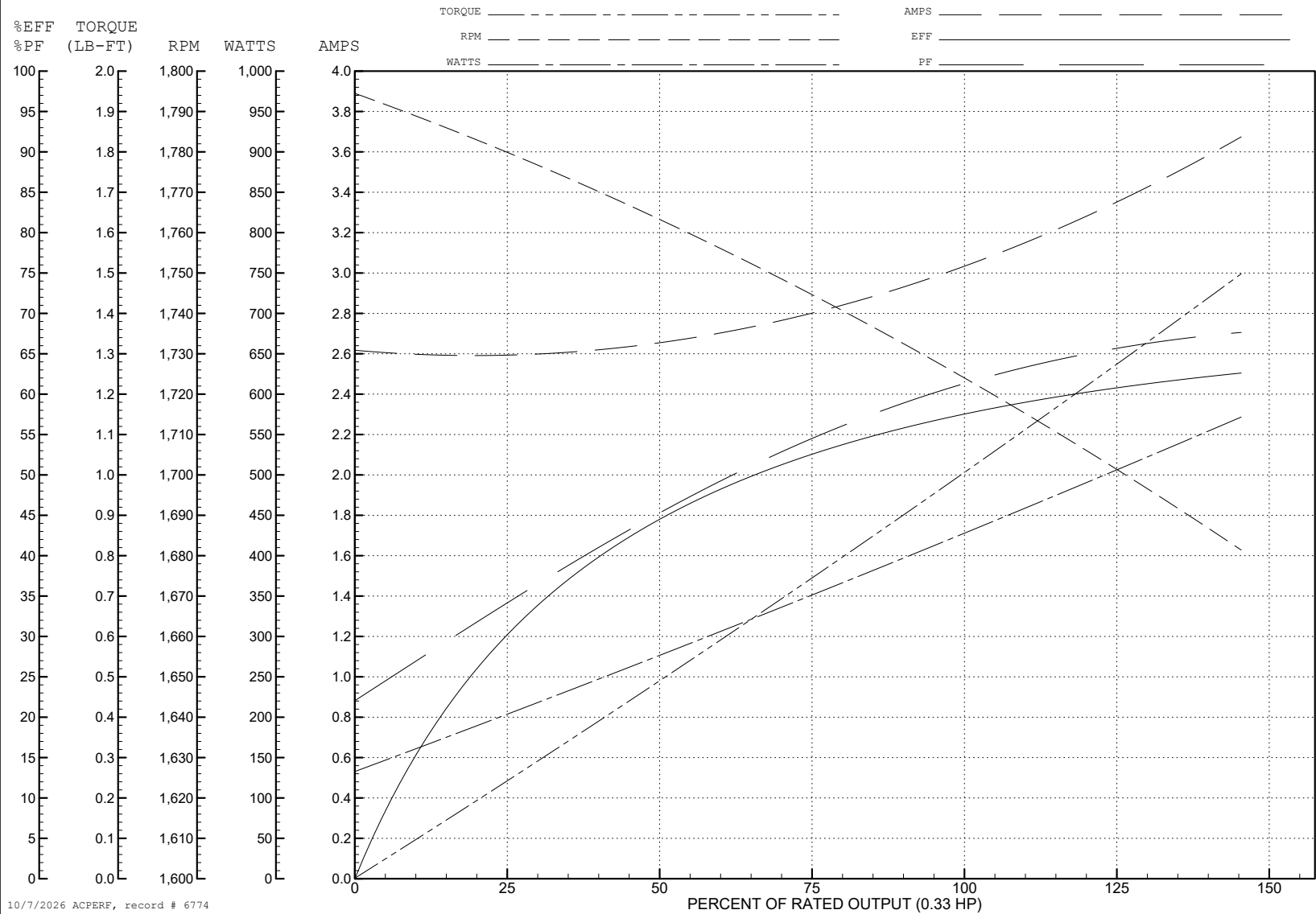
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WINDING # 34WG5507

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



AC Induction Motor Performance Data

Record # 29314

Typical performance - not guaranteed values

Winding: 34WG5507-R001				Type: 3414L		Enclosure: TEFC	
Nameplate Data				115 V, 60 Hz: Low 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	Starting Current		26 A	
Service Factor (S.F.)		1.35		No-load Current		5.2 A	
NEMA Nom. Eff.		60	Power Factor	60	Line-line Res. @ 25°C		1.5 Ω A Ph 4.81 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		68°C	
S.F. Amps		6.8/3.4		Temp. Rise @ S.F. Load		81°C	

Load Characteristics 115 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	41	52	59	65	67	66
Efficiency	34	49	56	59.9	62	63	62.4
Speed	1783	1765	1745	1730	1710	1680	1698
Line amperes	5.2	5.4	5.6	6	6.6	7.4	6.92

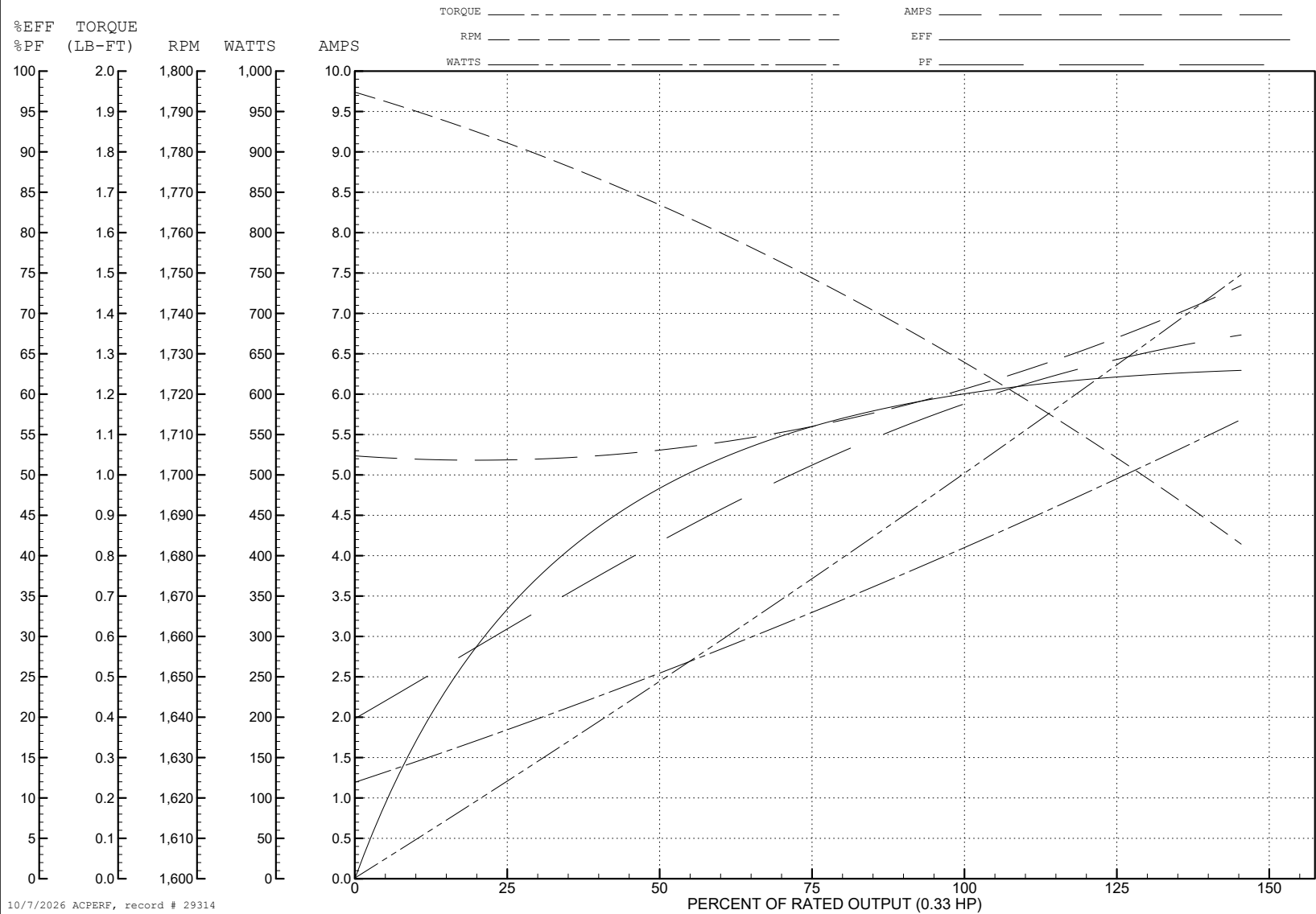
ABB Motors and Mechanical Inc.

WINDING # 34WG5507

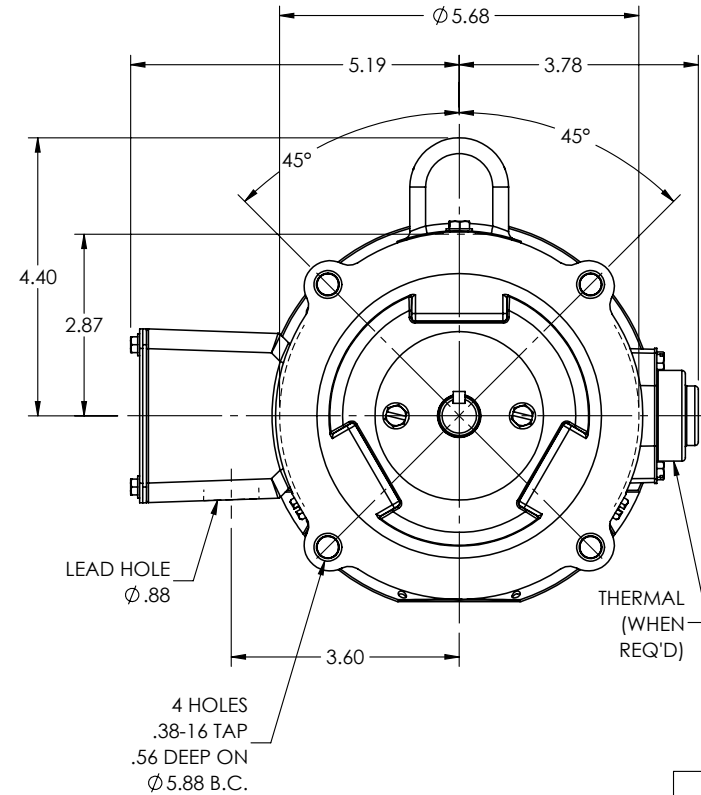
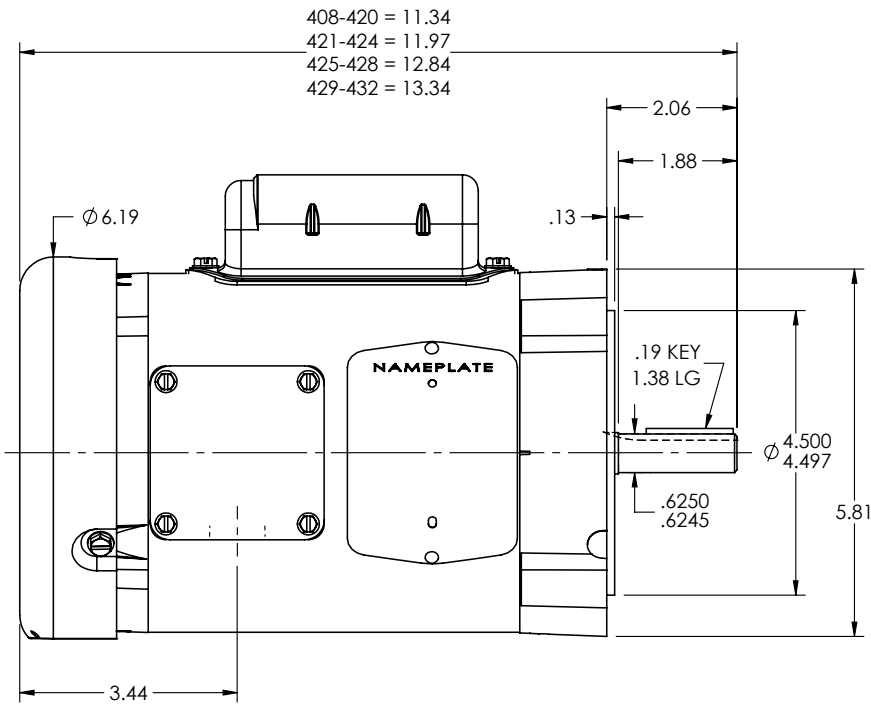
Typical performance - not guaranteed values.

0.33 HP 1 PH 60 HZ 1725 RPM 115 V 3414L

TORQUES (LB-FT) : PO=2.95 PU=2.55 LR=3.6 LRA=26



34LYC063



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

REV. DESC: CLEAN UP DIMENSIONING

REV: P

VERSION: 07

REVISED: 02:08:16 04/14/2025

TDR: 000001253803

34LYC063

MODEL NO. 34LYC063

BY: ENJEFD0

REF: -

BALDOR - RELIANCE®

STD VERT 34L NEMA 56C TEFC

34LYC063

CD0001

