ABB BALDOR RELIANCE

Customer information packet

VL1313A

1.5HP, 3450RPM, 1PH, 60HZ, 56C, 3432LC, OPEN
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
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, Cap Run
Output @ Frequency	1.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	115.0 V @ 60 HZ
Agency Approvals	CSA
	UR
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	6.500 A @ 230.0 V
	13.000 A @ 115.0 V
Design Code	-
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Drip Cover Mounting
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.5 a

Part Detail

Revision	AB
Type	AC
Mech. spec.	34H551
Base	
Status	PRD/A
Elec. spec.	34WGX598
Layout	34LYH551
Eff. date	12-02-2024
CD Diagram	CD0703
Poles	02
Leads	4#16 A&J,2#18 B PH,1#14 #1TH
Proprietary	False
Created date	01-01-0001

Insulation Class	B
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Terminal Panel Or Lead Hole
Motor Lead Quantity/Wire Size	4 @ 16 AWG, A&J
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3432LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.01 IN
Power Factor	95
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	1.30
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible: Connected OPP STD
Shaft Slinger Indicator	No Slinger
Speed	3450 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	SB

Winding Thermal 2	None

Nameplate

NP1257L											
CAT.NO.	VL1313A										
SPEC.	34H551X598										
HP	1.5										
VOLTS	115/230										
AMP	13/6.5										
RPM	3450										
FRAME	56C		**HZ**	60		**PH**	1				
SER.F.	1.30	**CODE**	H	**DES**	-	**CL**	B				
NEMA-NOM-EFF	78.5	**PF**	95								
RATING	40C AMB-CONT										
CC											
DE	6203	**ODE**	6203								
ENCL	OPEN	**SN**									
	SFA 17/8.5										

AC Induction Motor Performance Data
Record # 7475
Typical performance - not guaranteed values

Winding: 34WGX598-R001	**Type:** 3432LC	**Enclosure:** OPEN

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1.5	**Full Load Torque**	2.3 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			13/6.5	**Breakdown Torque**	6.2 LB-FT
R.P.M.			3450	**Pull-up Torque**	5 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	6.7 LB-FT
NEMA Design Code	-	**KVA Code**	H	**Starting Current**	43.5 A
Service Factor (S.F.)			1.3	**No-load Current**	1.65 A
NEMA Nom. Eff.	78.5	**Power Factor**	95	**Line-line Res. @ 25ºC**	1.58 Ω A Ph 1.44 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	38°C
S.F. Amps			17/8.5	**Temp. Rise @ S.F. Load**	53°C

Load Characteristics 230 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	81	90	93	95	95	95	95
Efficiency	60.5	76.2	77.7	78.5	77.2	75.3	76.8
Speed	3566	3534	3498	3455	3403	3343	3391
Line amperes	2.45	3.65	5	6.5	8.25	10.25	8.65

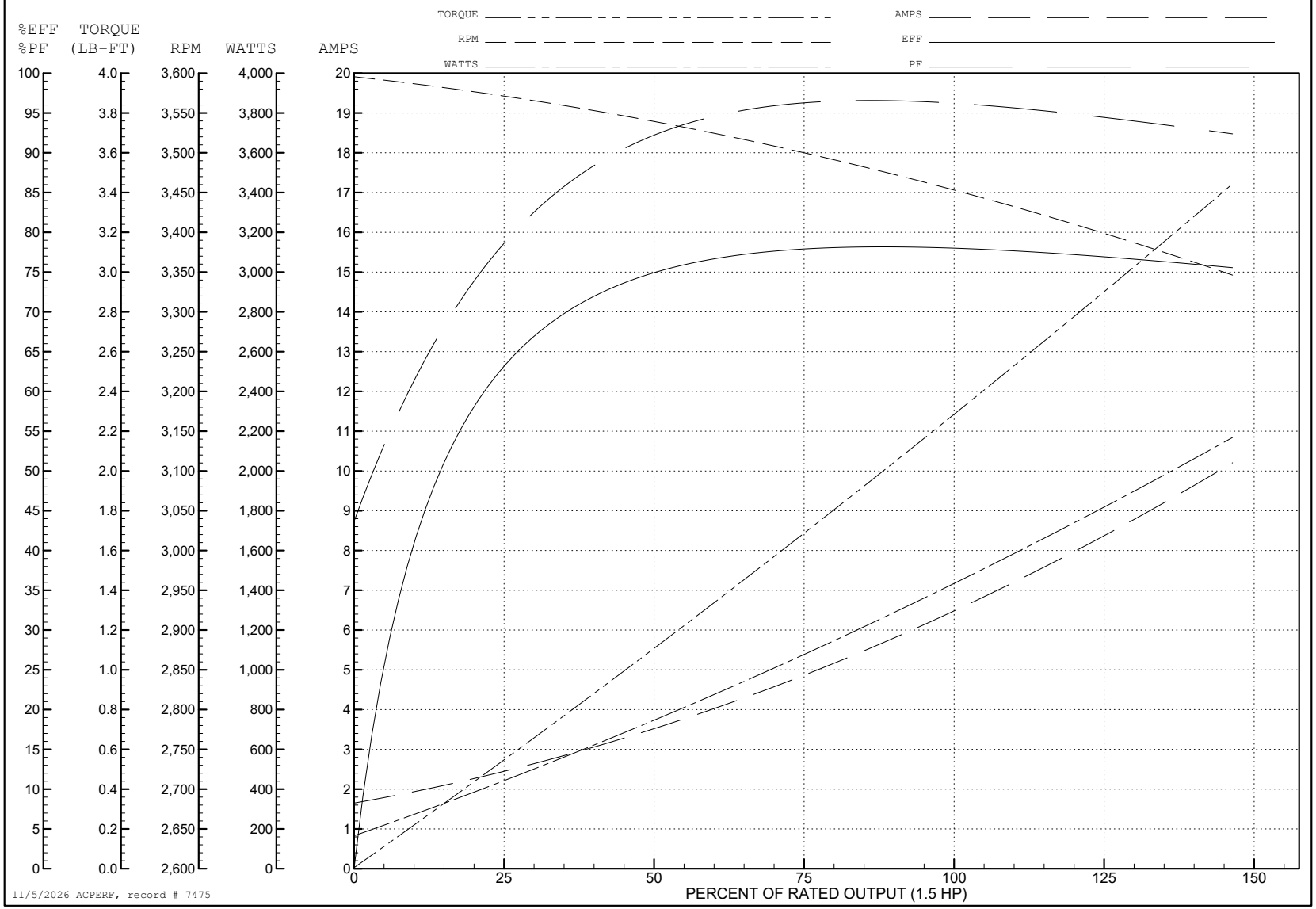
ABB Motors and Mechanical Inc.

WINDING # 34WGX598

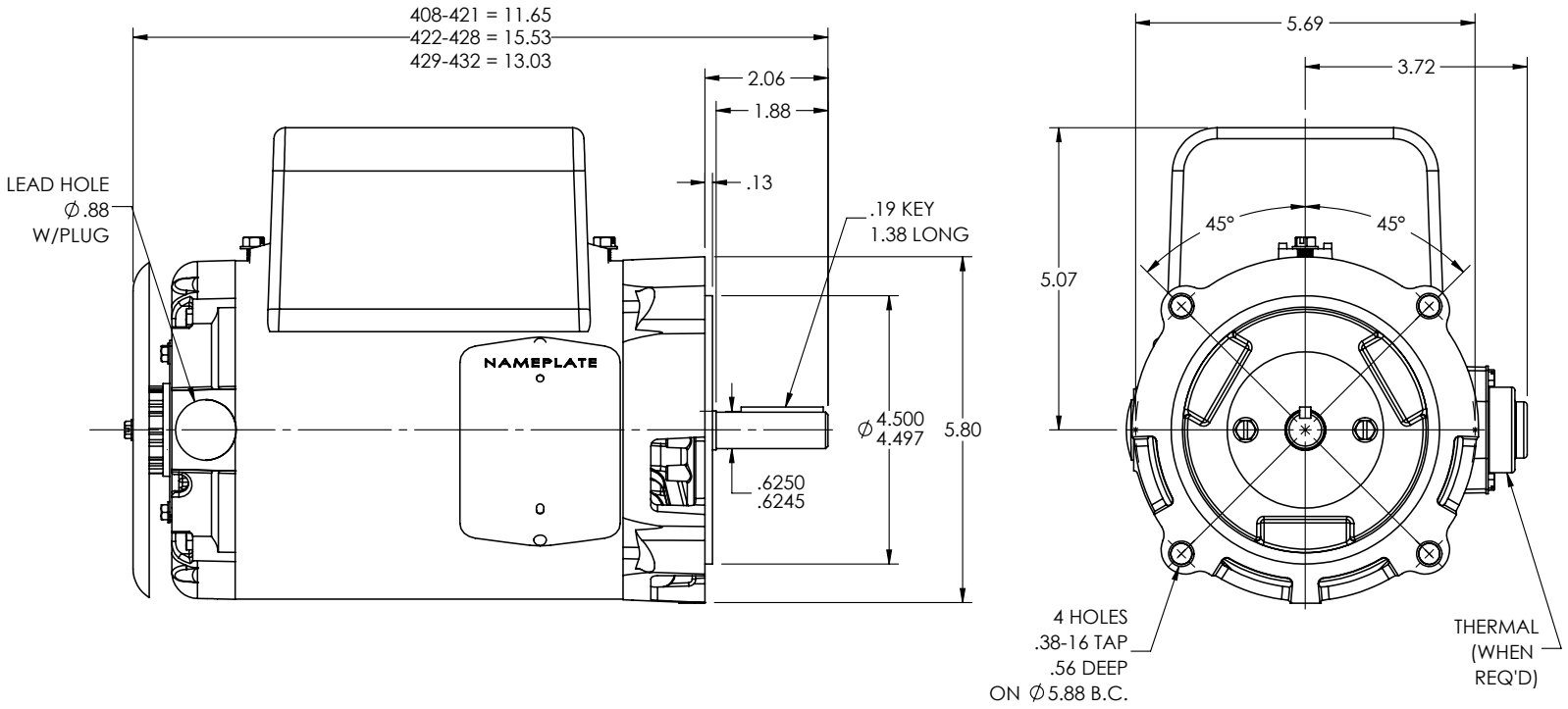
1.5 HP 1 PH 60 HZ 3450 RPM 230 V 3432LC

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=6.2 PU=5 LR=6.7 LRA=43.5



34LYH551

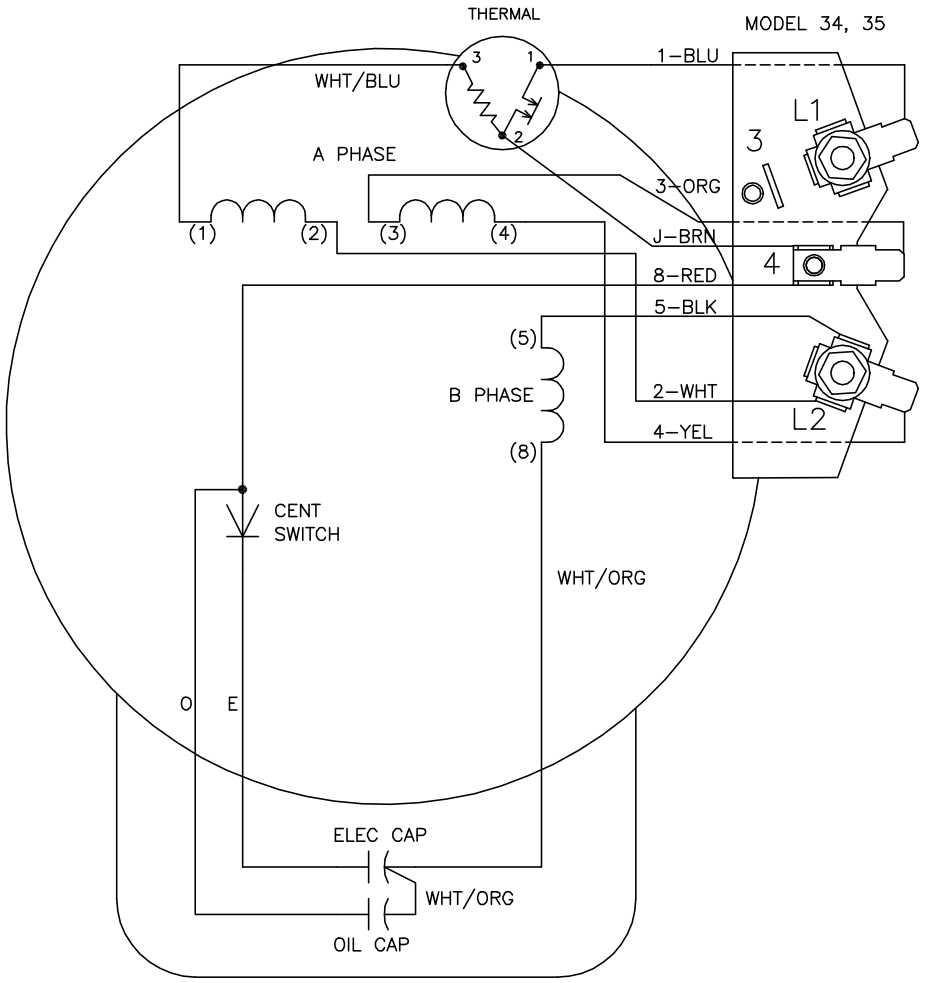


34LYH551

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

REV. DESC: LOAD TO SOLIDWORKS - REV "-"			BALDOR - RELIANCE®
REV: A	VERSION: 01	REVISED: 02:49:47 12/29/2022	TDR: 000001201165
34LYH551	MODEL NO. 34LYH551		REF: -
	BY: ENFRAJ0		STD 34LC NEMA 56C OPEN W/TERM PANEL & DRIP COVER

CD0703



NOTES:

1. CONNECT LINE LEADS TO L1 AND L2.

   LOW VOLTAGE: CONNECT AS SHOWN.

   HIGH VOLTAGE: MOVE LEAD J TO TERM. 3.
   MOVE LEAD 2 TO TERM. 4.

2. CONNECTIONS ARE SHOWN FOR STANDARD ROTATION (CCW FACING END OPPOSITE SHAFT EXTENSION). INTERCHANGE LEADS 5 AND 8 TO REVERSE ROTATION.

3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.

4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0703

REV. DESC: REMOVE MODEL 17 CONNECTION		
REV. LTR: G	VERSION: 02	TDR: 000001218314
FILE: \AAA\00007\140	REVISED: 08:28:11 10/11/2023	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

TYPE LC, DV, REV, THERMAL, TERMINAL PLATE

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