BALDOR • RELIANCE

Customer information packet

CJL1309A

1HP, 3450RPM, 1PH, 60HZ, 56J, 3428L, OPEN, F1
Class - None
Division - Not Applicable

12/22/2025 7:08:48 PM

Specifications

Enclosure	OPEN
Frame	56J
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	1.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ
	208.0 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	14.000 A @ 115.0 V
	7.000 A @ 230.0 V
	7.800 A @ 208.0 V
	8.800 A @ 208.0 V
Design Code	N
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	65.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Drip Cover Mounting

Part detail

Revision	AD
Type	AC
Mech. spec.	34F497
Base	
Status	PRD/A
Elec. spec.	34WG3375
Layout	34LYF497
Eff. date	08-01-2025
CD Diagram	CD0203
Poles	02
Leads	4#16 A&J,1#18 B PH,1#14 #1TH
Proprietary	False
Created date	01-01-0001

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	7.0 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	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	3428L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.89 IN
Power Factor	65
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Ext Thread
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.40
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Fixed Opposite Standard
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

Nameplate

NP1257L									
CAT.NO.	CJL1309A								
SPEC.	34F497-3375G1								
HP	1								
VOLTS	115/208-230								
AMP	14/7.8-7								
RPM	3450								
FRAME	56J		**HZ**	60		**PH**	1		
SER.F.	1.40	**CODE**	L	**DES**	N	**CL**	B		
NEMA-NOM-EFF	65	**PF**	65						
RATING	40C AMB-CONT								
CC									
DE	6203	**ODE**	6203						
ENCL	OPEN	**SN**							
	SFA 16/8.8-8								

AC Induction Motor Performance Data
Record # 50767
Typical performance - not guaranteed values

Winding: 34WG3375-R004	**Type:** 3428L	**Enclosure:** OPEN

Nameplate Data			**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		1	**Full Load Torque**	1.5 LB-FT
Volts		115/208-230	**Start Configuration**	direct on line
Full Load Amps		14/7.8-7	**Breakdown Torque**	5.3 LB-FT
R.P.M.		3450	**Pull-up Torque**	3.8 LB-FT
Hz	60 **Phase**	1	**Locked-rotor Torque**	4.4 LB-FT
NEMA Design Code	N **KVA Code**	L	**Starting Current**	46 A
Service Factor (S.F.)		1.4	**No-load Current**	5.6 A
NEMA Nom. Eff.	65 **Power Factor**	65	**Line-line Res. @ 25ºC**	1.63 Ω A Ph 1.64 Ω B Ph
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	37°C
S.F. Amps		16/8.8-8	**Temp. Rise @ S.F. Load**	47°C

Load Characteristics 230 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	31	45	58	68	75	83	79
Efficiency	47.1	60.7	66.5	69.1	70.2	69.4	70.9
Speed	3578	3563	3546	3529	3511	3491	3500
Line amperes	5.7	6	6.4	7	7.7	8.4	8.1

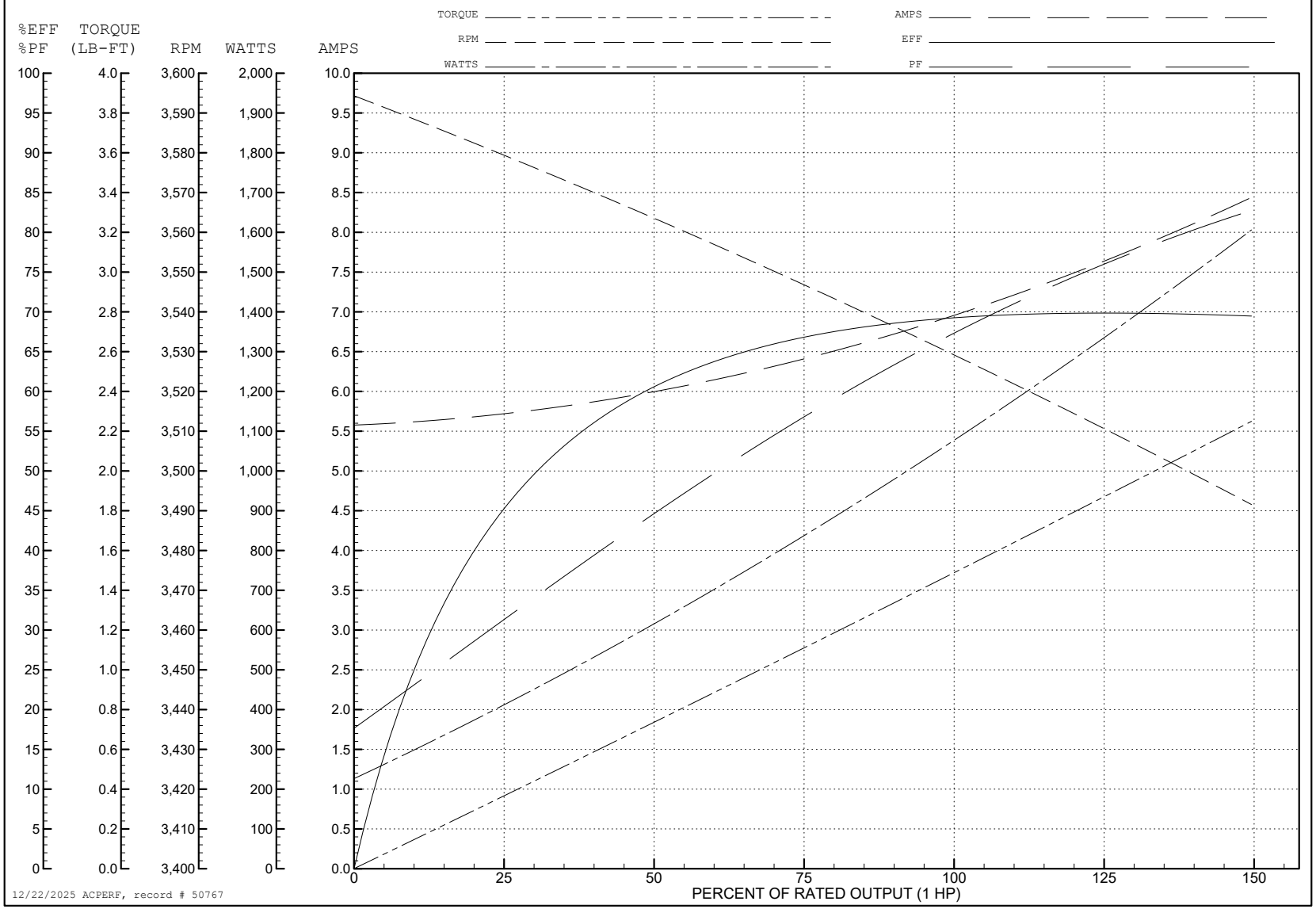
ABB Motors and Mechanical Inc.

WINDING # 34WG3375

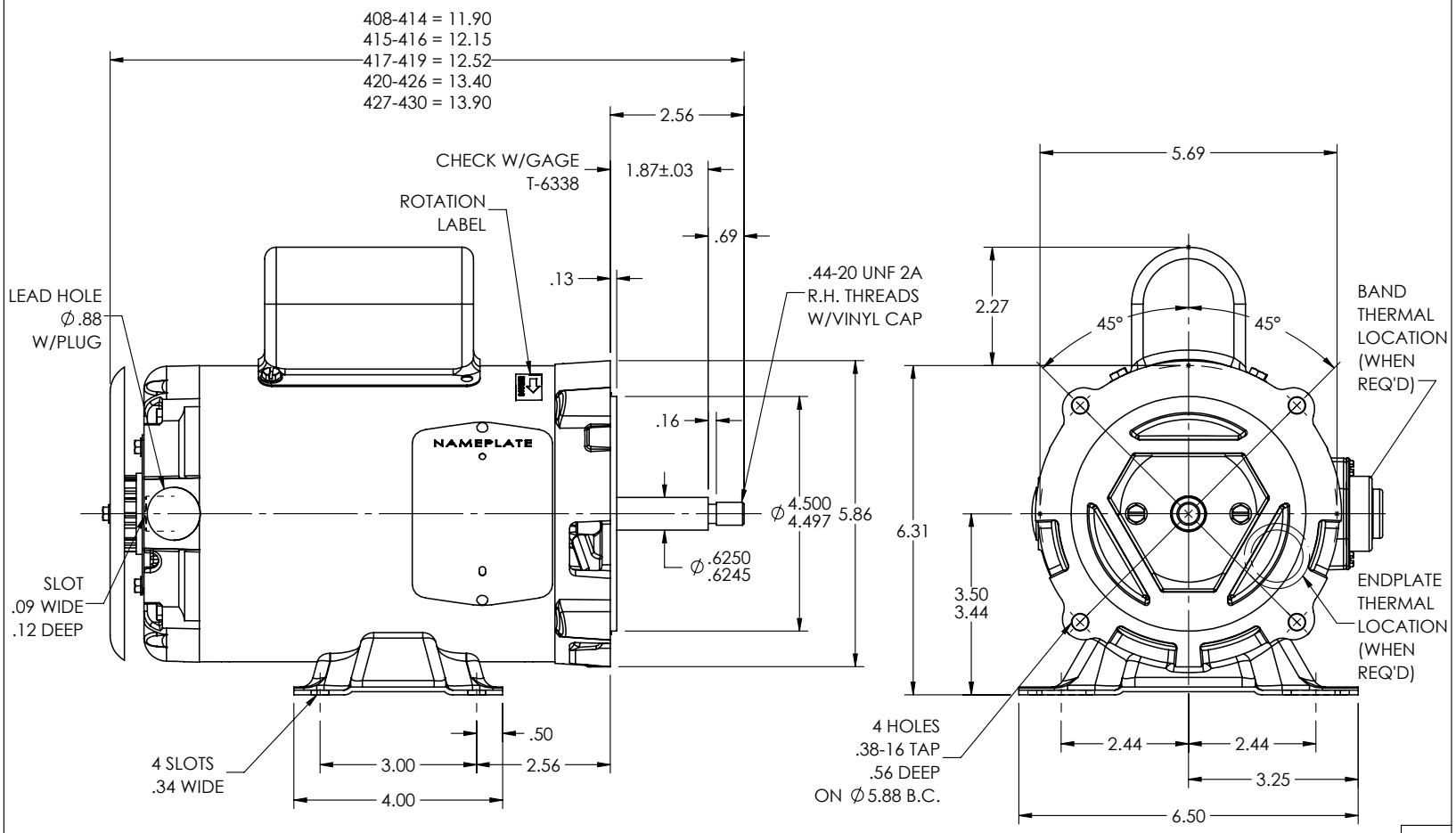
1 HP 1 PH 60 HZ 3450 RPM 230 V 3428L

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=5.3 PU=3.8 LR=4.4 LRA=46



34LYF497



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

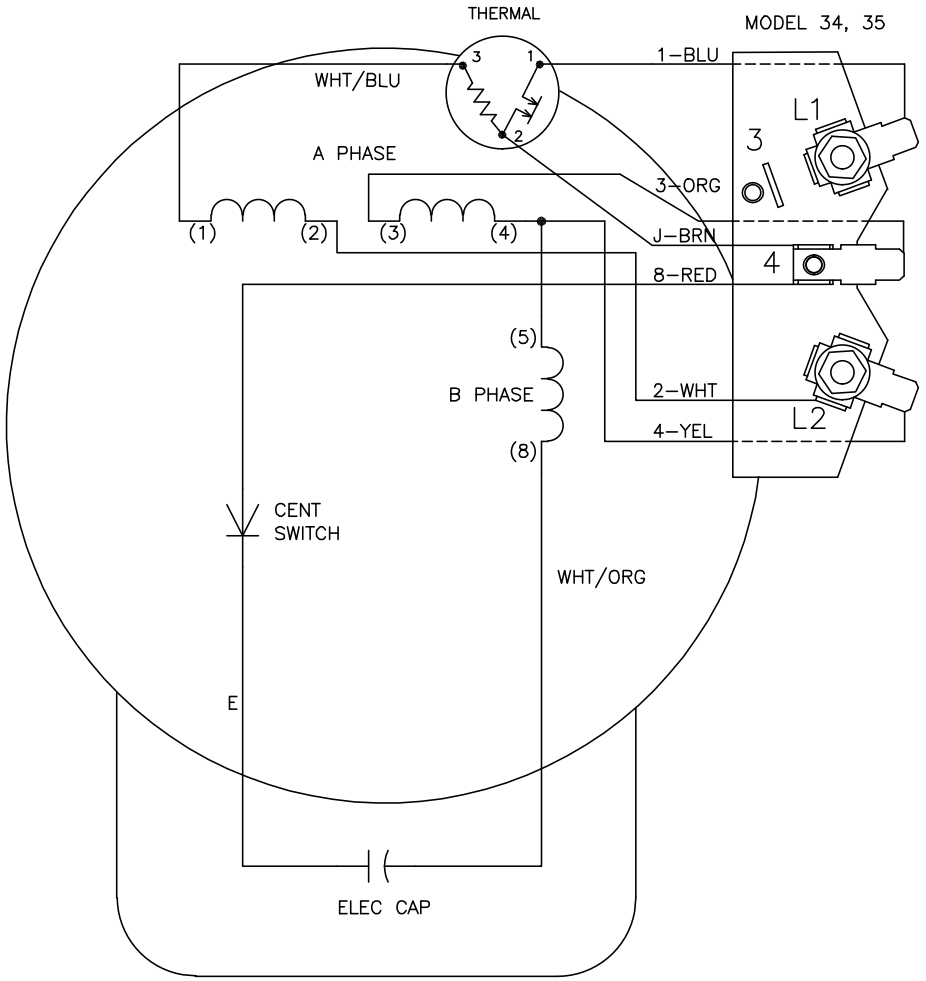
REV. DESC: ADD SB THERMAL GRAPHIC AS ANOTHER OPTION			
REV: D	VERSION: 03	REVISED: 02:01:24 01/17/2025	TDR: 000001248291
34LYF497	MODEL NO. 34LYF497		REF: -
	BY: USGRHUR		

BALDOR - RELIANCE®

HORZ 34L NEMA 56J OPEN W/DRIP COVER & TERM PLATE

34LYF497

CD0203



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 5 AND 8 INTERNALLY FOR OPPOSITE STANDARD ROTATION.

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

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

CD0203

REV. DESC: REMOVE MODEL 17 CONNECTION		
REV. LTR: G	VERSION: 02	TDR: 000001250682
FILE: \AAA\00007\108	REVISED: 12:29:47 04/16/2025	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

TYPE L, DV, FIX, THERMAL, TERMINAL PLATE

SH 1 of 1