BALDOR • RELIANCE

Customer information packet

VL1306A

.75HP, 3450RPM, 1PH, 60HZ, 56C, 3424L, OPEN, F1
Class - None
Division - Not Applicable

9/27/2024 4:59:42 PM

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, Induction Run
Output @ Frequency	.750 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	UR
	CSA
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	11.000 A @ 115.0 V
	5.500 A @ 230.0 V
Design Code	N
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	69.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Terminal Panel
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	5.5 a

Part detail

Revision	AB
Type	AC
Mech. spec.	34F493
Base	
Status	PRD/A
Elec. spec.	34WG2414
Layout	34LYF493
Eff. date	09-18-2023
CD Diagram	CD0052
Poles	02
Leads	6#18,1#14 #1TH
Proprietary	False
Created date	01-01-0001

Insulation Class	B
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Terminal Panel Or Lead Hole
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3424L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.88 IN
Power Factor	68
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.50
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	ES
Winding Thermal 2	None

Nameplate

NP1257L									
CAT.NO.	VL1306A								
SPEC.	34F493-2414								
HP	.75								
VOLTS	115/230								
AMP	11/5.5								
RPM	3450								
FRAME	56C		**HZ**	60		**PH**	1		
SER.F.	1.50	**CODE**	J	**DES**	N	**CL**	B		
NEMA-NOM-EFF	69	**PF**	68						
RATING	40C AMB-CONT								
CC									
DE	6203	**ODE**	6203						
ENCL	OPEN	**SN**							
	SFA 13/6.5								

AC Induction Motor Performance Data
Record # 6649
Typical performance - not guaranteed values

Winding: 34WG2414-R001 **Type:** 3424L **Enclosure:** OPEN

Nameplate Data				230 V, 60 Hz: High Voltage Connection	
Rated Output (HP)			.75	**Full Load Torque**	1.15 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			11/5.5	**Breakdown Torque**	3.98 LB-FT
R.P.M.			3450	**Pull-up Torque**	1.63 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	2.45 LB-FT
NEMA Design Code	N	**KVA Code**	J	**Starting Current**	31.2 A
Service Factor (S.F.)			1.5	**No-load Current**	3.7 A
NEMA Nom. Eff.	69	**Power Factor**	68	**Line-line Res. @ 25ºC**	2.33 Ω A Ph 1.65 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	75°C
S.F. Amps			13/6.5	**Temp. Rise @ S.F. Load**	108°C

Load Characteristics 230 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	52	64	73	79	83	85
Efficiency	41.7	57.6	65.5	69.2	69.8	69.3	70.4
Speed	3558	3536	3508	3479	3447	3410	3415
Line amperes	3.78	4	4.4	4.91	5.61	6.37	6.31

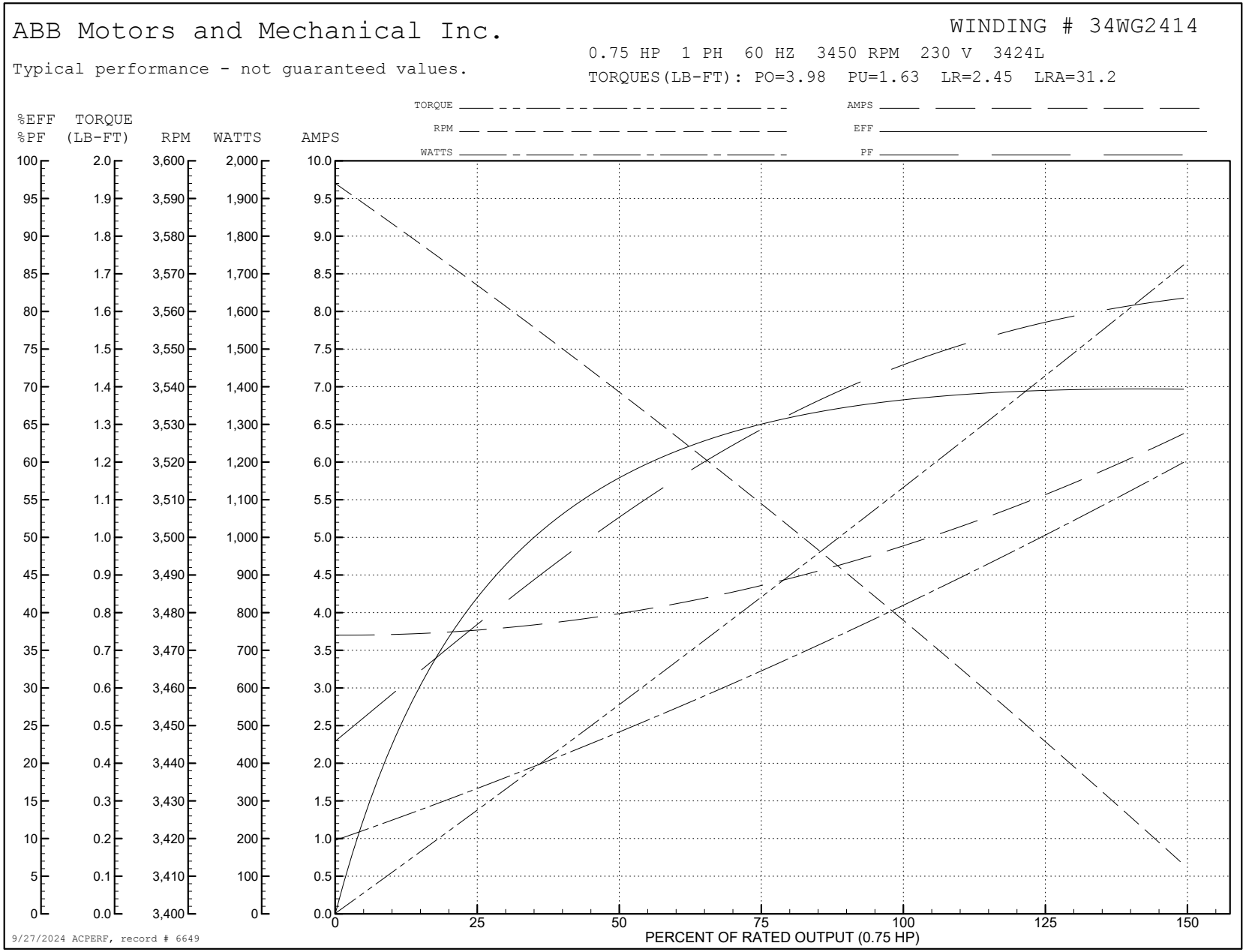
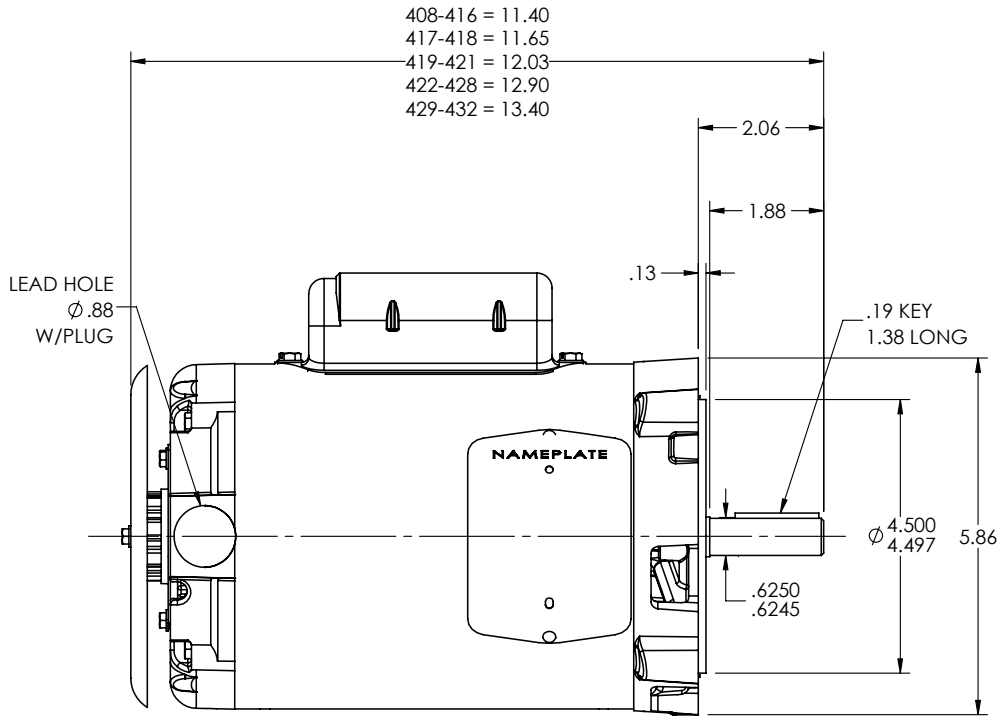
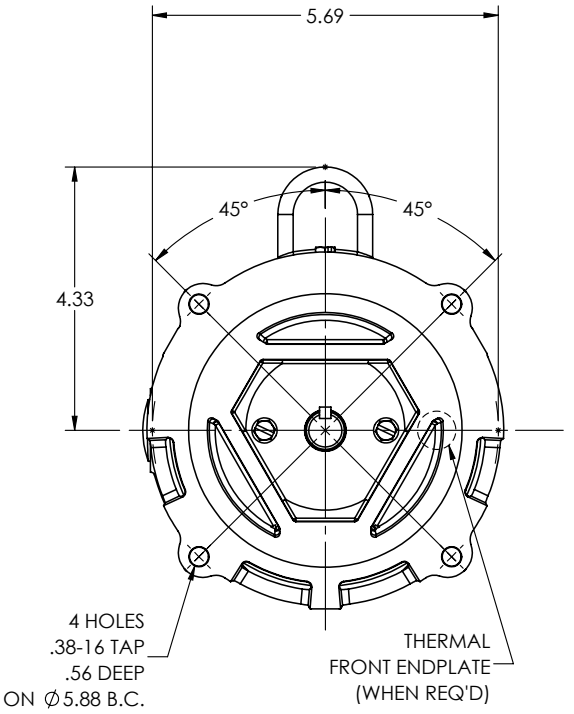


ABB Motors and Mechanical Inc.
WINDING # 34WG2414
0.75 HP 1 PH 60 HZ 3450 RPM 230 V 3424L
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=3.98 PU=1.63 LR=2.45 LRA=31.2
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.75 HP)
9/27/2024 ACPERF, record # 6649

34LYF493



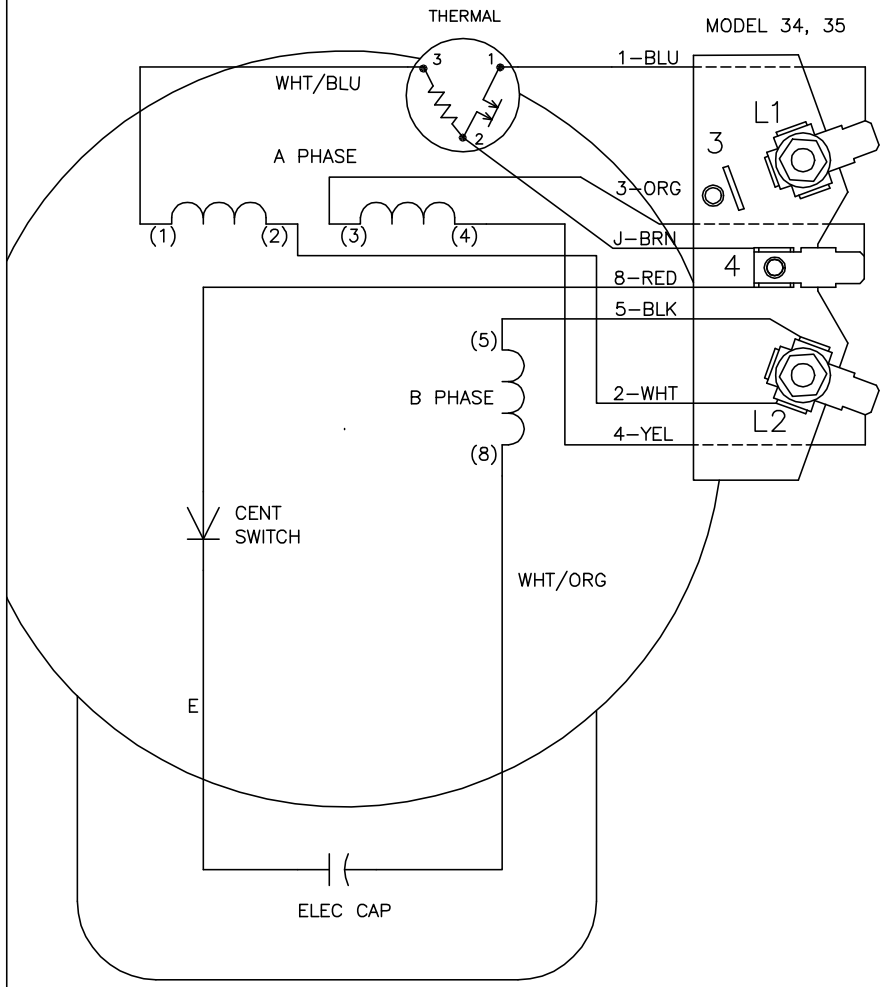


CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: LOAD TO SOLIDWORKS - REV "-"			BALDOR - RELIANCE®
REV: A	VERSION: 01	REVISED: 01:52:39 12/29/2022	TDR: 000001201165
34LYF493	MODEL NO. 34LYF493		REF: -
	BY: ENFRAJ0		VERT 34L NEMA 56C OPEN W/DRIP COVER,TERM PLATE & ATO IN FREP

34LYF493

CD0052



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.

CD0052

REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION			BALDOR ELECTRIC Co.
REV. LTR: H	VERSION: 01	TDR: 000000373039	
CD0052	FILE: \AAA\00007\100	REVISED: 10:20:46 08/11/2005	TYPE L, DV, REV, THERMAL, TERMINAL PLATE
	MTL: –	BY: ENJOEP0	