

BALDOR • RELIANCE

Customer information packet

VL1303A

.5HP, 3450RPM, 1PH, 60HZ, 56C, 3420L, OPEN, F1

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, Induction Run
Output @ Frequency	.500 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	3.700 A @ 230.0 V 7.400 A @ 115.0 V
Design Code	N
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	66.0 %
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	3.7 a

Part detail

Revision	V
Type	AC
Mech. spec.	34F493
Base	
Status	PRD/A
Elec. spec.	34WG2413
Layout	34LYF493
Eff. date	09-18-2023
CD Diagram	CD0052
Poles	02
Leads	6#18,1#16 #1TH
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	Terminal Panel Or Lead Hole
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3420L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.00 IN
Power Factor	67
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.60
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.	VL1303A								
SPEC.	34F493-2413								
HP	.5								
VOLTS	115/230								
AMP	7.4/3.7								
RPM	3450								
FRAME	56C			HZ	60		PH	1	
SER.F.	1.60	CODE	L	DES	N	CL	B		
NEMA-NOM-EFF	66	PF	67						
RATING	40C AMB-CONT								
CC									
DE	6203	ODE	6203						
ENCL	OPEN	SN							
	SFA 9.4/4.7								

AC Induction Motor Performance Data

Record # 6647

Typical performance - not guaranteed values

Winding: 34WG2413-R001		Type: 3420L		Enclosure: OPEN	
Nameplate Data			230 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	.5		Full Load Torque	0.75 LB-FT	
Volts	115/230		Start Configuration	direct on line	
Full Load Amps	7.4/3.7		Breakdown Torque	2.3 LB-FT	
R.P.M.	3450		Pull-up Torque	1.9 LB-FT	
Hz	60 Phase	1	Locked-rotor Torque	2 LB-FT	
NEMA Design Code	N KVA Code	L	Starting Current	20 A	
Service Factor (S.F.)	1.6		No-load Current	2.75 A	
NEMA Nom. Eff.	66 Power Factor	67	Line-line Res. @ 25°C	3.55 Ω A Ph 2.56 Ω B Ph	
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	33°C	
S.F. Amps	9.4/4.7		Temp. Rise @ S.F. Load	53°C	

Load Characteristics 230 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	50	60	67	73	77	78
Efficiency	36	52	61	66	69	71	71
Speed	3570	3550	3530	3511	3490	3465	3460
Line amperes	2.9	3.1	3.35	3.7	4.05	4.5	4.7

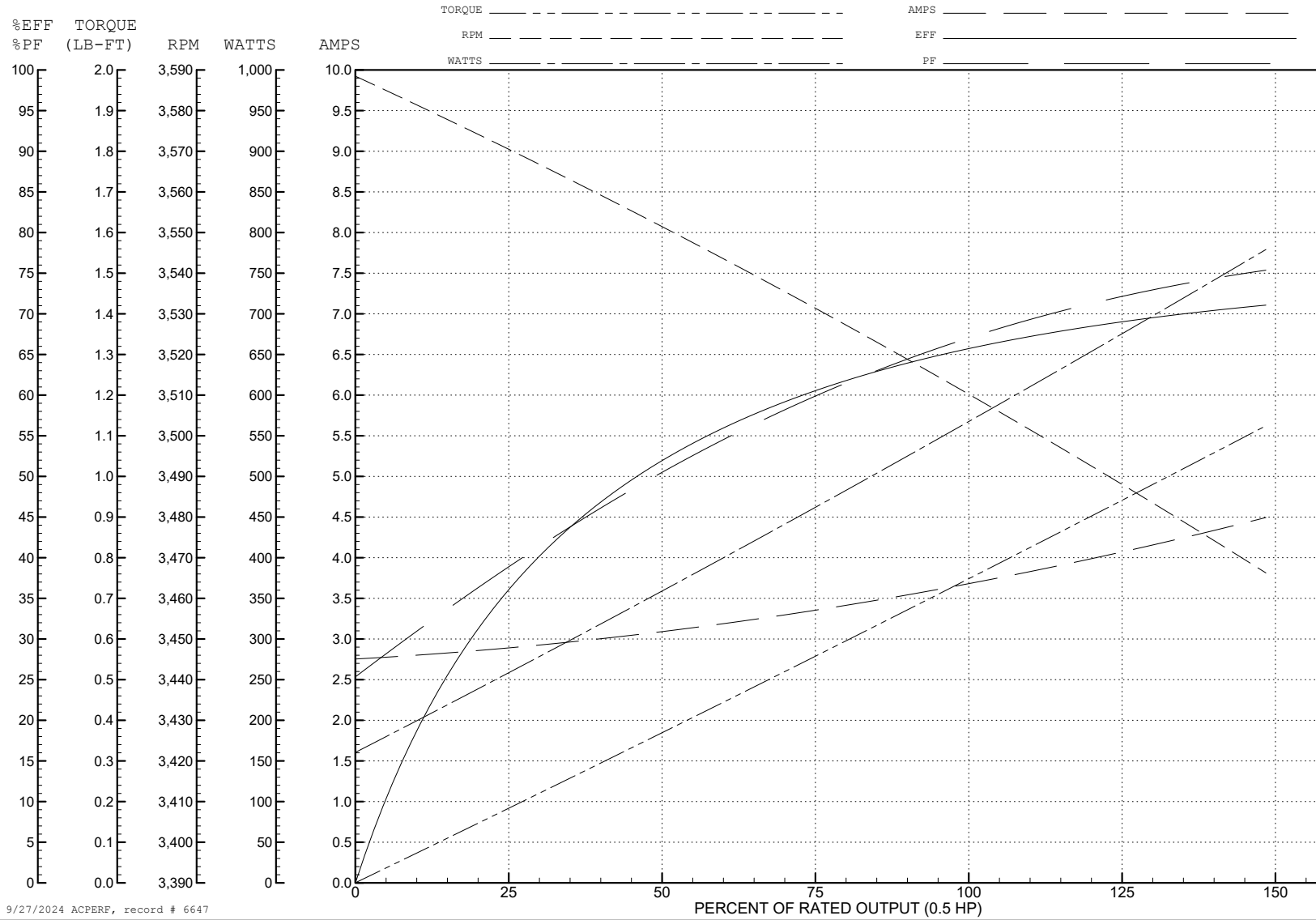
ABB Motors and Mechanical Inc.

WINDING # 34WG2413

0.5 HP 1 PH 60 HZ 3450 RPM 230 V 3420L

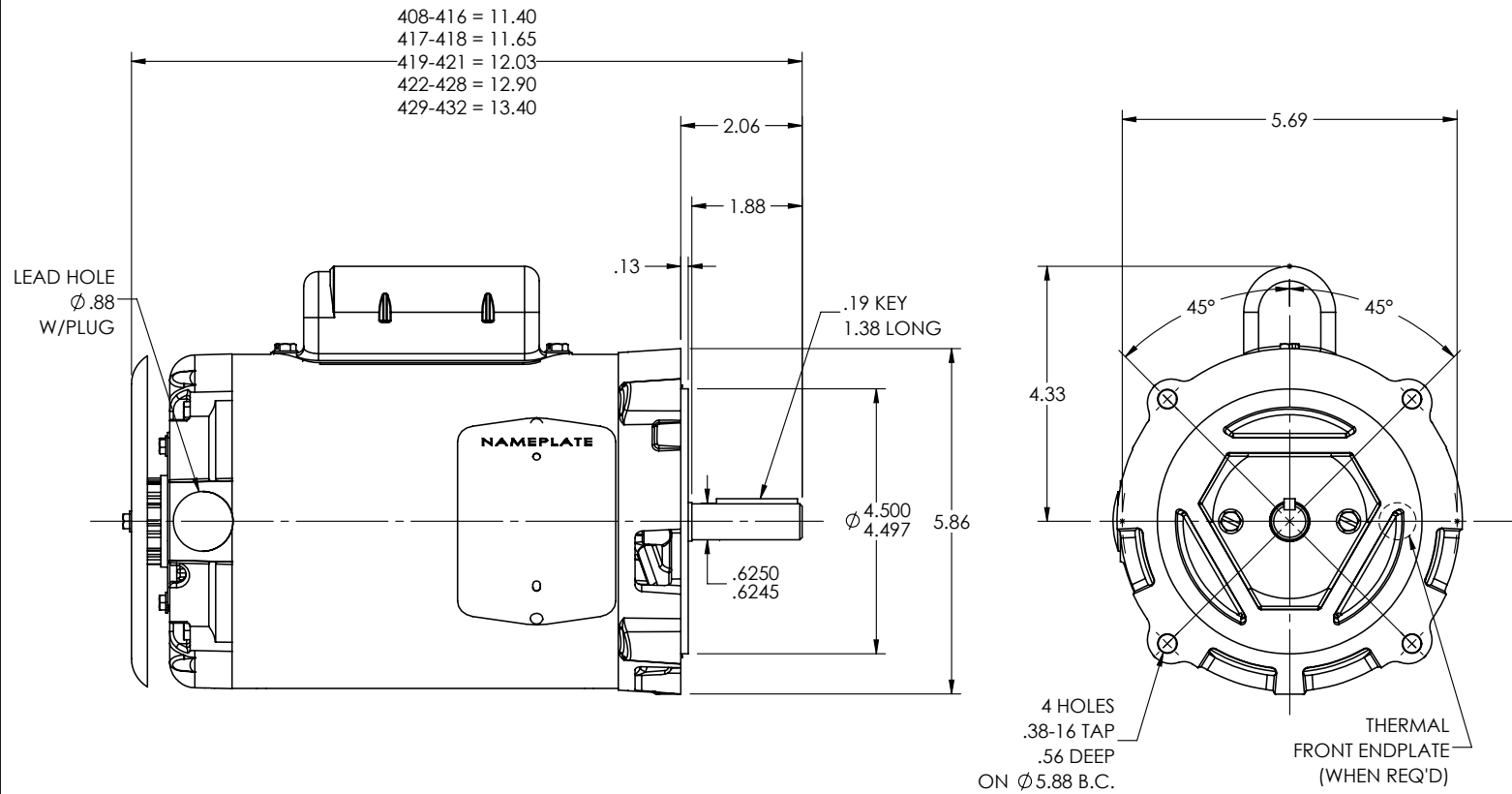
Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=2.3 PU=1.9 LR=2 LRA=20



9/27/2024 ACPERF, record # 6647

34LYF493



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

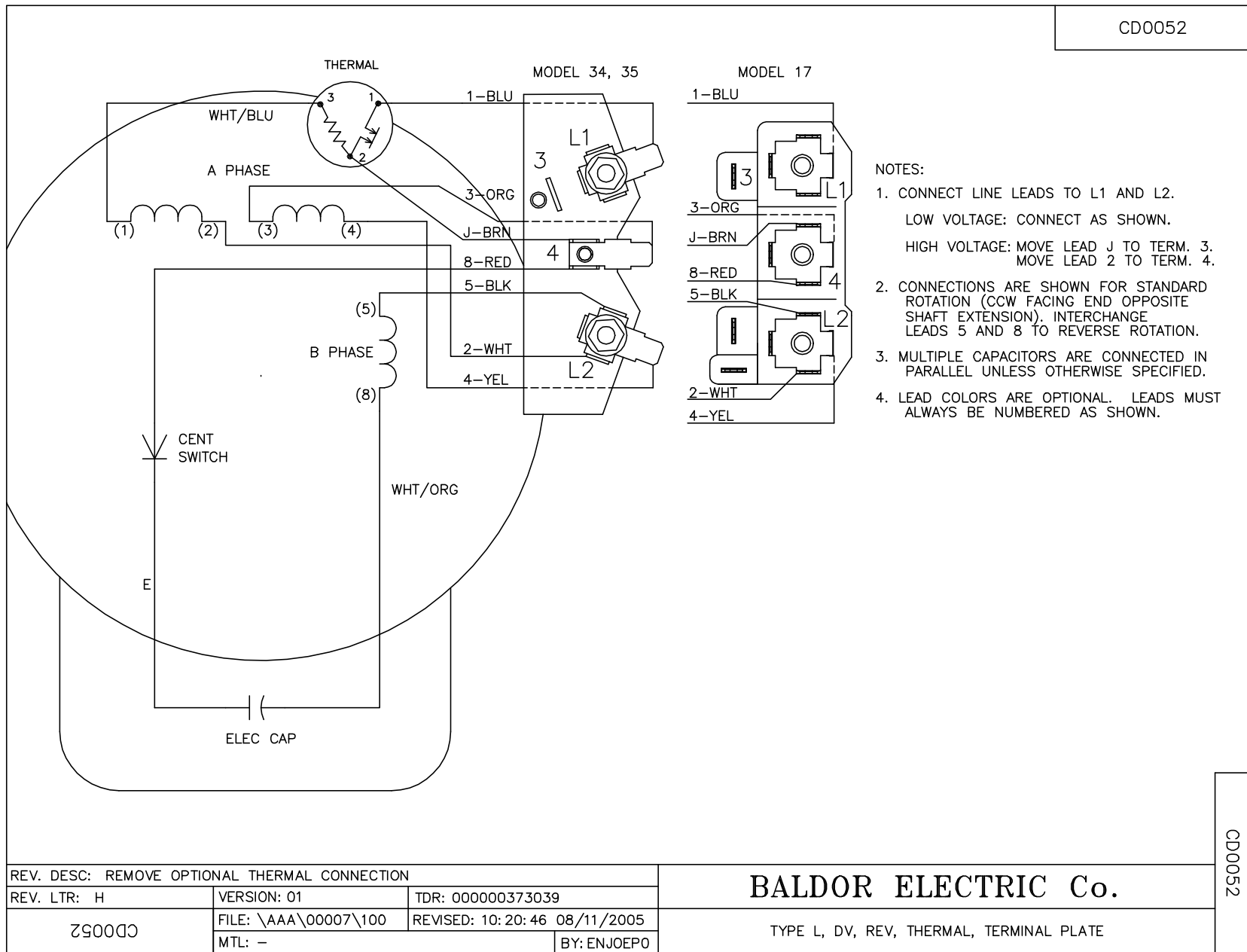
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34LYF493		MODEL NO. 34LYF493	REF: -
		BY: ENFRAJ0	

BALDOR - RELIANCE®

VERT 34L NEMA 56C OPEN W/DRIP COVER, TERM PLATE & ATO IN FREP

34LYF493

CD0052



REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION		
REV. LTR: H	VERSION: 01	TDR: 000000373039
CD0052	FILE: \AAA\00007\100	REVISED: 10:20:46 08/11/2005
	MTL: -	BY: ENJOEPO

BALDOR ELECTRIC Co.

TYPE L, DV, REV, THERMAL, TERMINAL PLATE

CD0052