

ABB BALDOR RELIANCE III

Customer information packet

VL1303A

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

Class - None

Division - Not Applicable

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
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	3.700 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	X
Type	AC
Mech. spec.	34F493
Base	
Status	PRD/A
Elec. spec.	34WG2413
Layout	34LYF493
Eff. date	09-15-2026
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	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

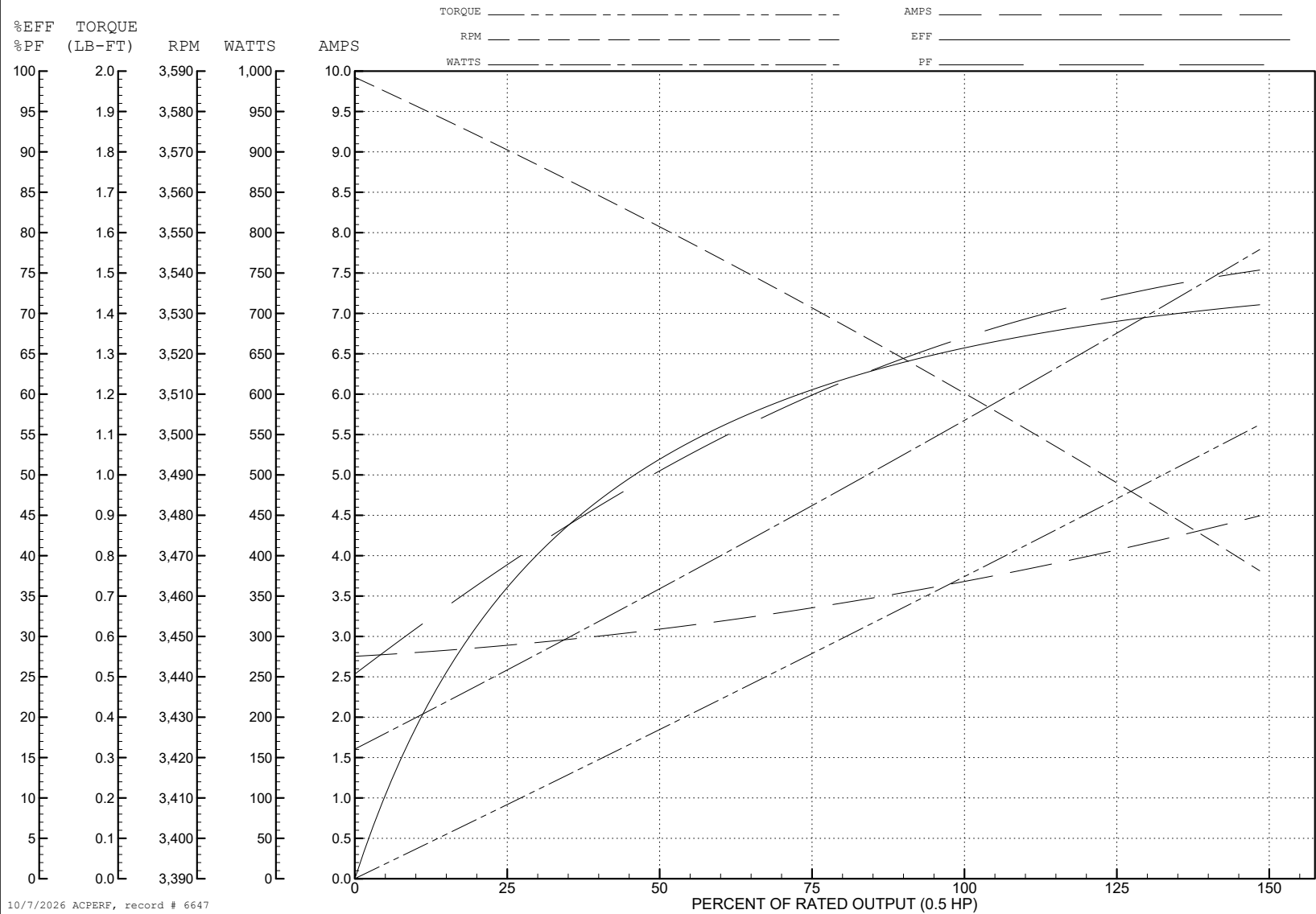
ABB Motors and Mechanical Inc.

WINDING # 34WG2413

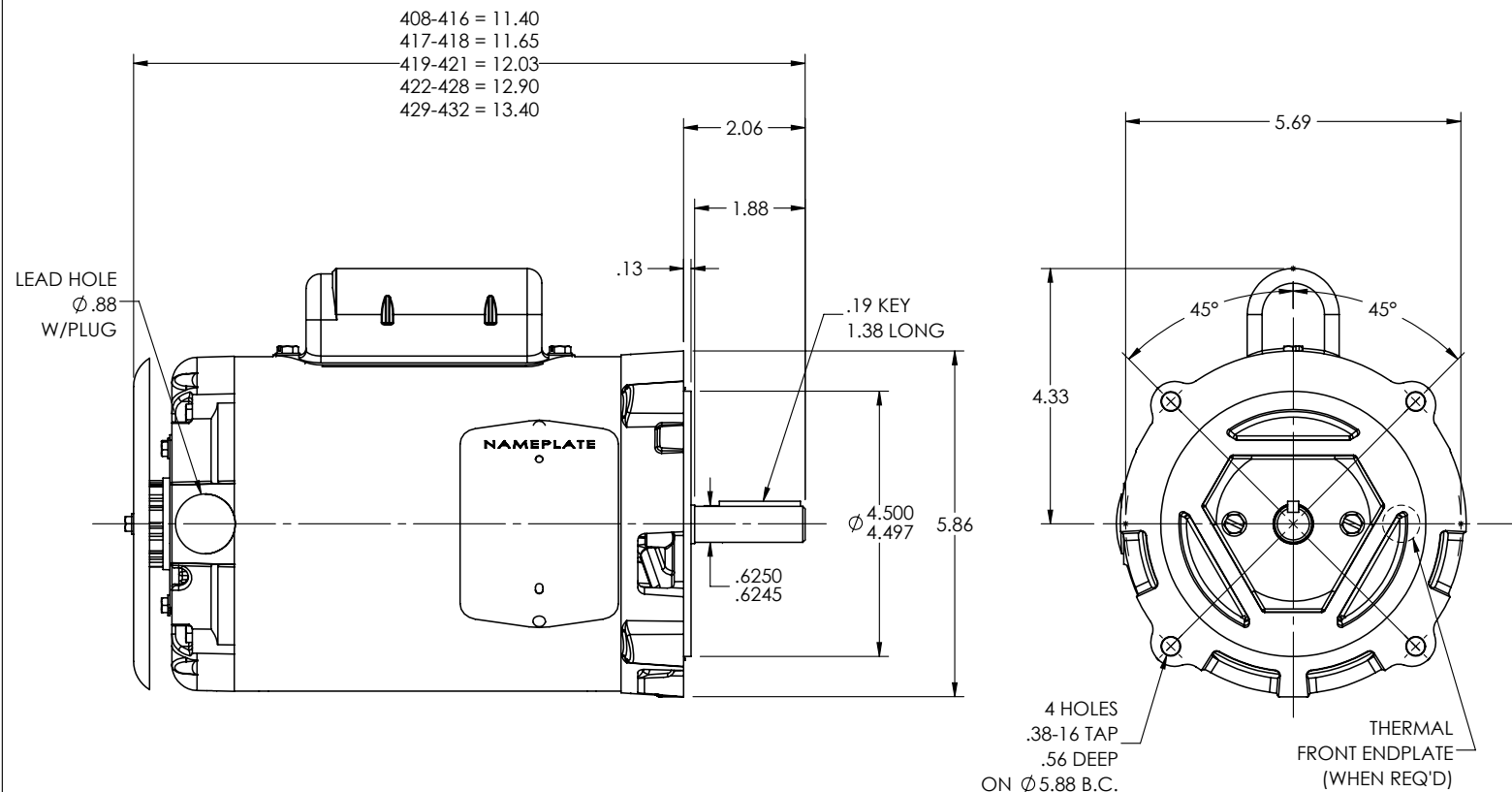
Typical performance - not guaranteed values.

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

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



34LYF493



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

REV. DESC: LOAD TO SOLIDWORKS - REV "-"

REV: A VERSION: 01 REVISED: 01:52:39 12/29/2022 TDR: 000001201165

34LYF493

MODEL NO. 34LYF493

BY: ENFRAJ0

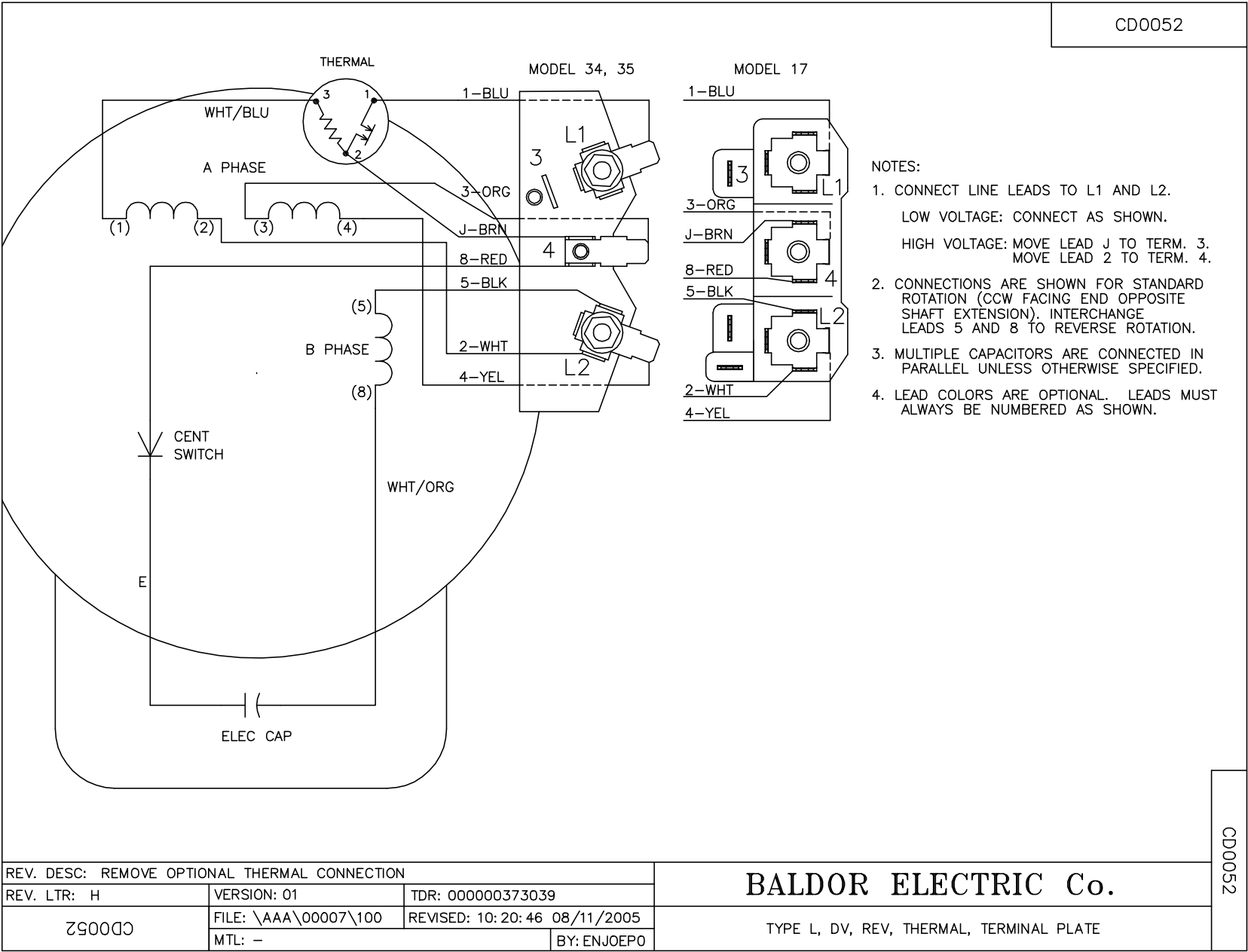
REF: -

BALDOR - RELIANCE®

VERT 34L NEMA 56C OPEN W/DRIP COVER, TERM PLATE & ATO IN F1

34LYF493

CD0052



REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION		
REV. LTR: H	VERSION: 01	TDR: 000000373039
ZS000C	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