ABB BALDOR RELIANCE

Customer information packet

VL1317A

2HP, 3450RPM, 1PH, 60HZ, 56C, 3528L, 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	2.000 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	26.000 A @ 115.0 V
	13.000 A @ 230.0 V
Design Code	L
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	70.0 %
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	13.0 a

Part Detail

Revision	BJ
Type	AC
Mech. spec.	35E523
Base	
Status	PRD/A
Elec. spec.	35WGW183
Layout	35LYE523
Eff. date	05-09-2024
CD Diagram	CD0052
Poles	02
Leads	4#14 A&J,2#18 B PH,1#10 #1TH
Proprietary	False
Created date	06-21-2007

Insulation Class	B
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Terminal Panel
Motor Lead Quantity/Wire Size	4 @ 14 AWG, A&J
Motor Lead Termination	None
Motor Standards	NEMA
Motor Type	3528L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.74 IN
Power Factor	69
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	1.20
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	Do Not Use Eve-Not Valiid
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.	VL1317A										
SPEC.	35E523W183										
HP	2										
VOLTS	115/230										
AMP	26/13										
RPM	3450										
FRAME	56C			**HZ**	60			**PH**	1		
SER.F.	1.20	**CODE**	G		**DES**	L	**CL**	B			
NEMA-NOM-EFF	70	**PF**	69								
RATING	40C AMB-CONT										
CC											
DE	6205		**ODE**	6203							
ENCL	OPEN	**SN**									
	SFA 27.6/13.8										

AC Induction Motor Performance Data
Record # 9776
Typical performance - not guaranteed values

Winding: 35WGW183-R001	**Type:** 3528L	**Enclosure:** OPEN

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	3 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			26/13	**Breakdown Torque**	10.4 LB-FT
R.P.M.			3450	**Pull-up Torque**	5.9 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	7.1 LB-FT
NEMA Design Code	L	**KVA Code**	G	**Starting Current**	79 A
Service Factor (S.F.)			1.2	**No-load Current**	9.3 A
NEMA Nom. Eff.	70	**Power Factor**	69	**Line-line Res. @ 25ºC**	0.842 Ω A Ph 0.843 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	77°C
S.F. Amps			27.6/13.8	**Temp. Rise @ S.F. Load**	87°C

Load Characteristics 230 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	38	53	65	71	80	84	78
Efficiency	46	60	66	70	68	67.5	68.4
Speed	3569	3547	3523	3498	3469	3436	3475
Line amperes	9.5	10.3	11.4	13	14.7	16.8	13.8

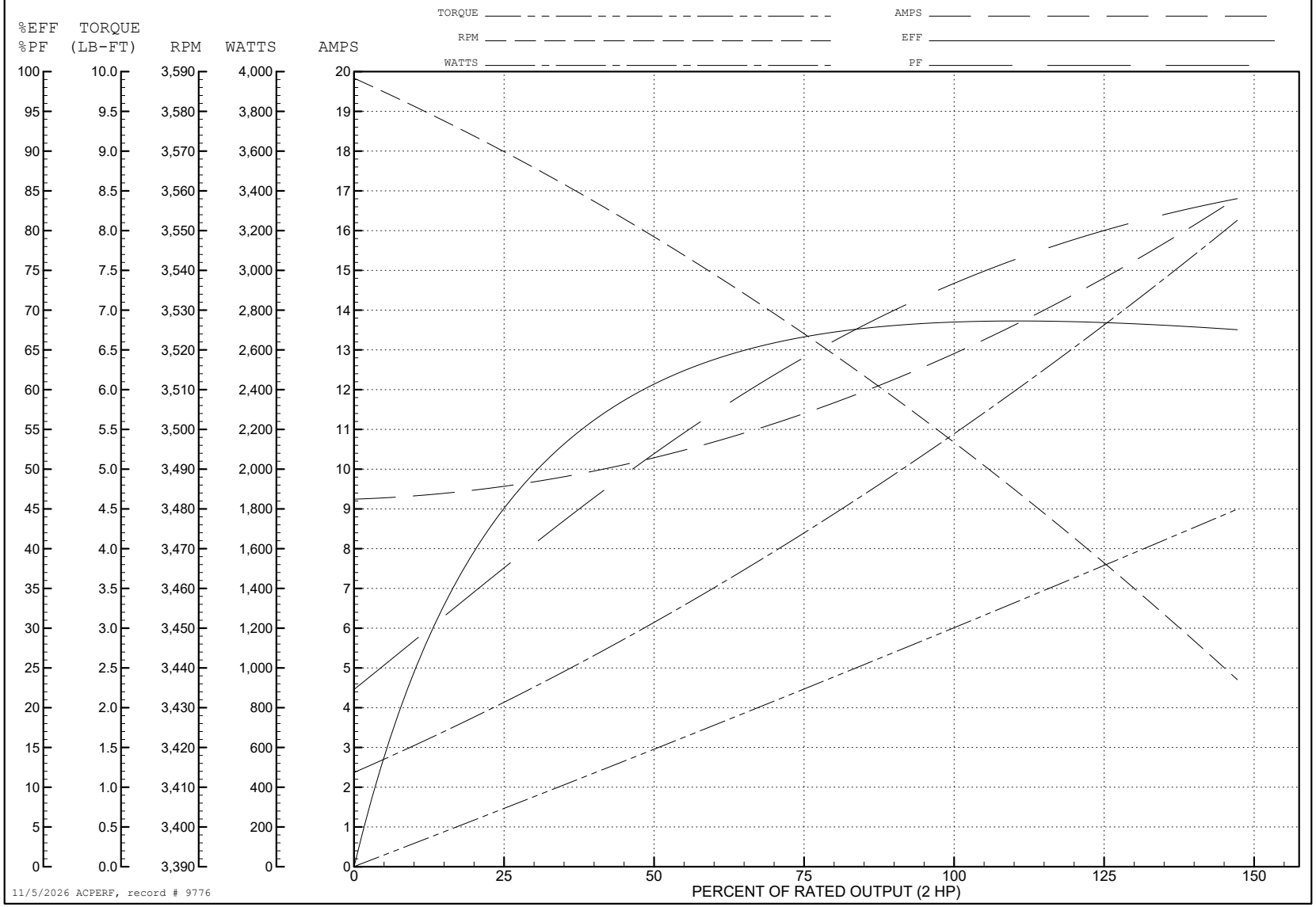
ABB Motors and Mechanical Inc.

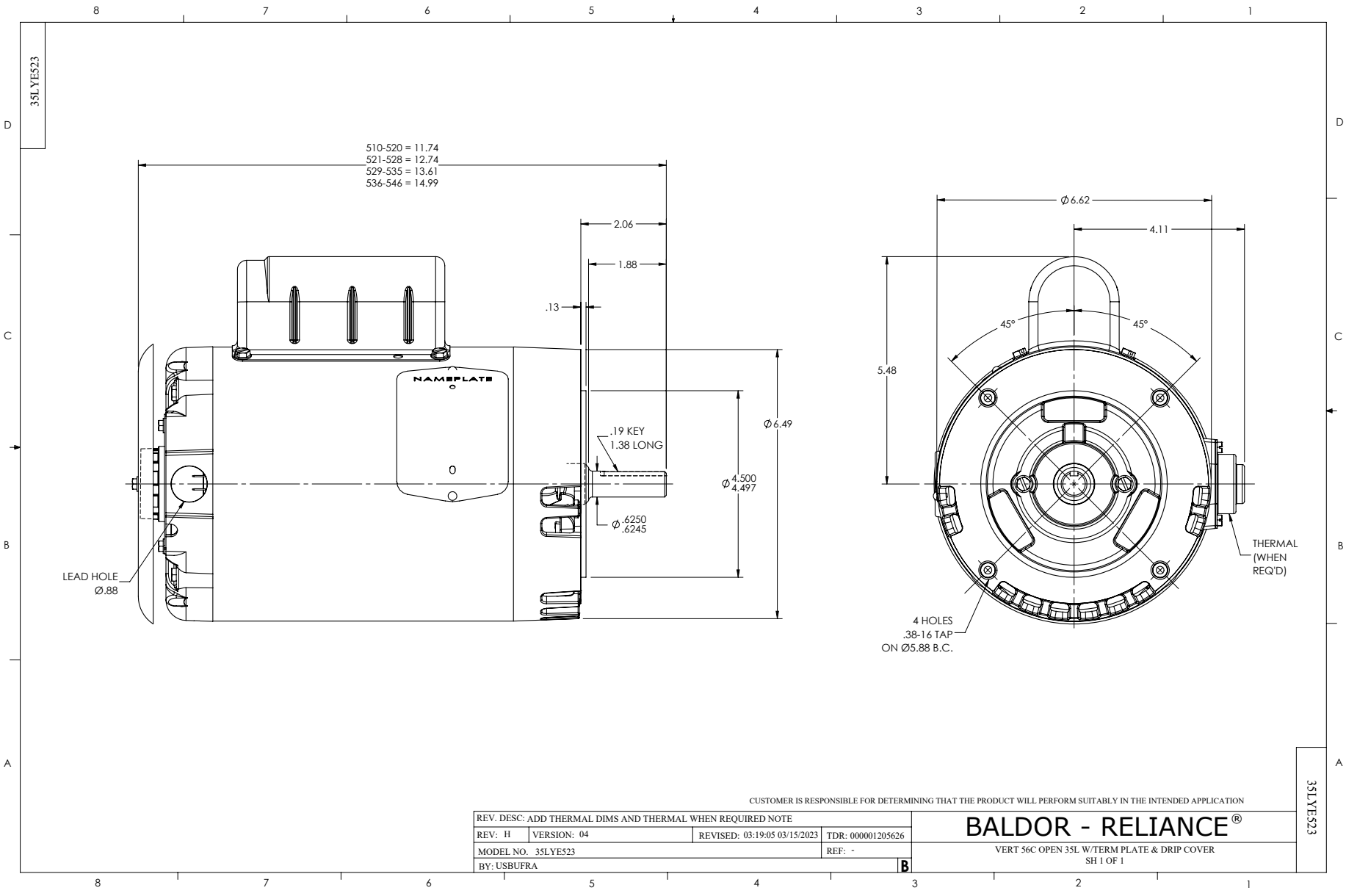
WINDING # 35WGW183

2 HP 1 PH 60 HZ 3450 RPM 230 V 3528L

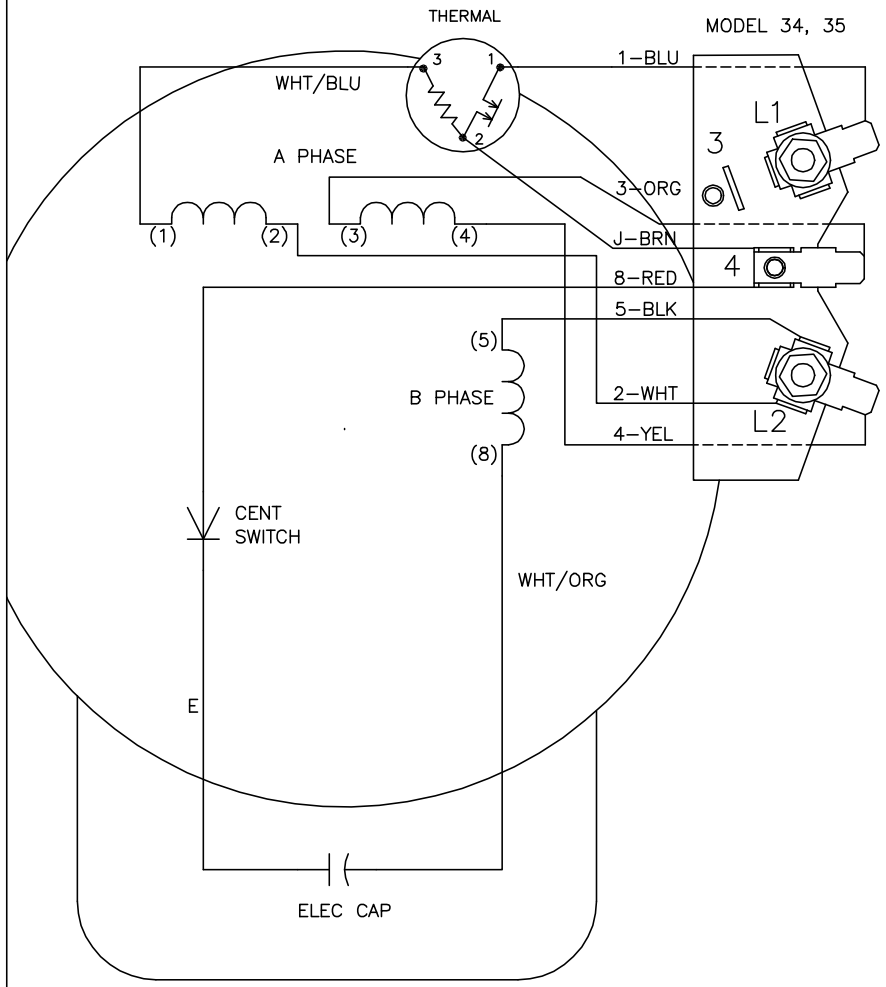
Typical performance - not guaranteed values.

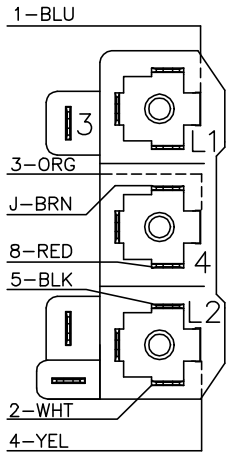
TORQUES(LB-FT): PO=10.4 PU=5.9 LR=7.1 LRA=79




35LYE523
510-520 = 11.74
521-528 = 12.74
529-535 = 13.61
536-546 = 14.99
2.06
1.88
.13
NAMEPLATE
.19 KEY
1.38 LONG
Ø6.49
Ø4.500
4.497
Ø.6250
.6245
LEAD HOLE
Ø.88
Ø6.62
4.11
45°
45°
5.48
THERMAL
(WHEN
REQ'D)
4 HOLES
.38-16 TAP
ON Ø5.88 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD THERMAL DIMS AND THERMAL WHEN REQUIRED NOTE
REV: H
VERSION: 04
REVISED: 03:19:05 03/15/2023
TDR: 000001205626
MODEL NO. 35LYE523
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
VERT 56C OPEN 35L W/TERM PLATE & DRIP COVER
SH 1 OF 1
35LYE523

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	