ABB BALDOR RELIANCE

Customer information packet

JL1317A

2HP, 3450RPM, 1PH, 60HZ, 56J, 3528L, OPEN, F1
Class - None
Division - Not Applicable

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11/10/2026 12:07:25 AM

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	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	BP
Type	AC
Mech. spec.	35E522
Base	
Status	PRD/A
Elec. spec.	35WGW183
Layout	35LYE522
Eff. date	06-24-2025
CD Diagram	CD0307
Poles	02
Leads	4#14 A&J,1#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	13.25 IN
Power Factor	69
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	1.20
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	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.	JL1317A									
SPEC.	35E522W183									
HP	2									
VOLTS	115/230									
AMP	26/13									
RPM	3450									
FRAME	56J			**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

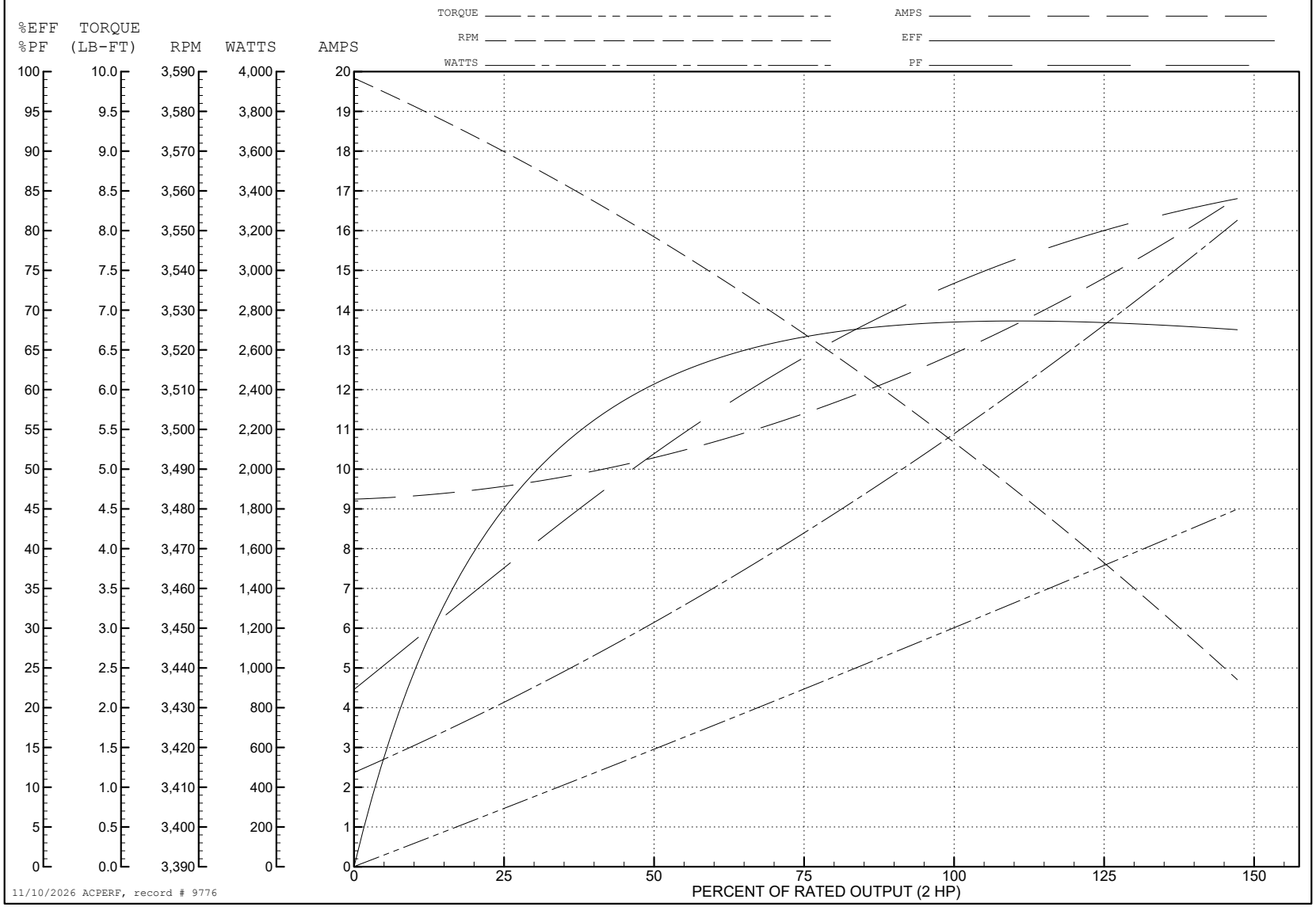
ABB Motors and Mechanical Inc.

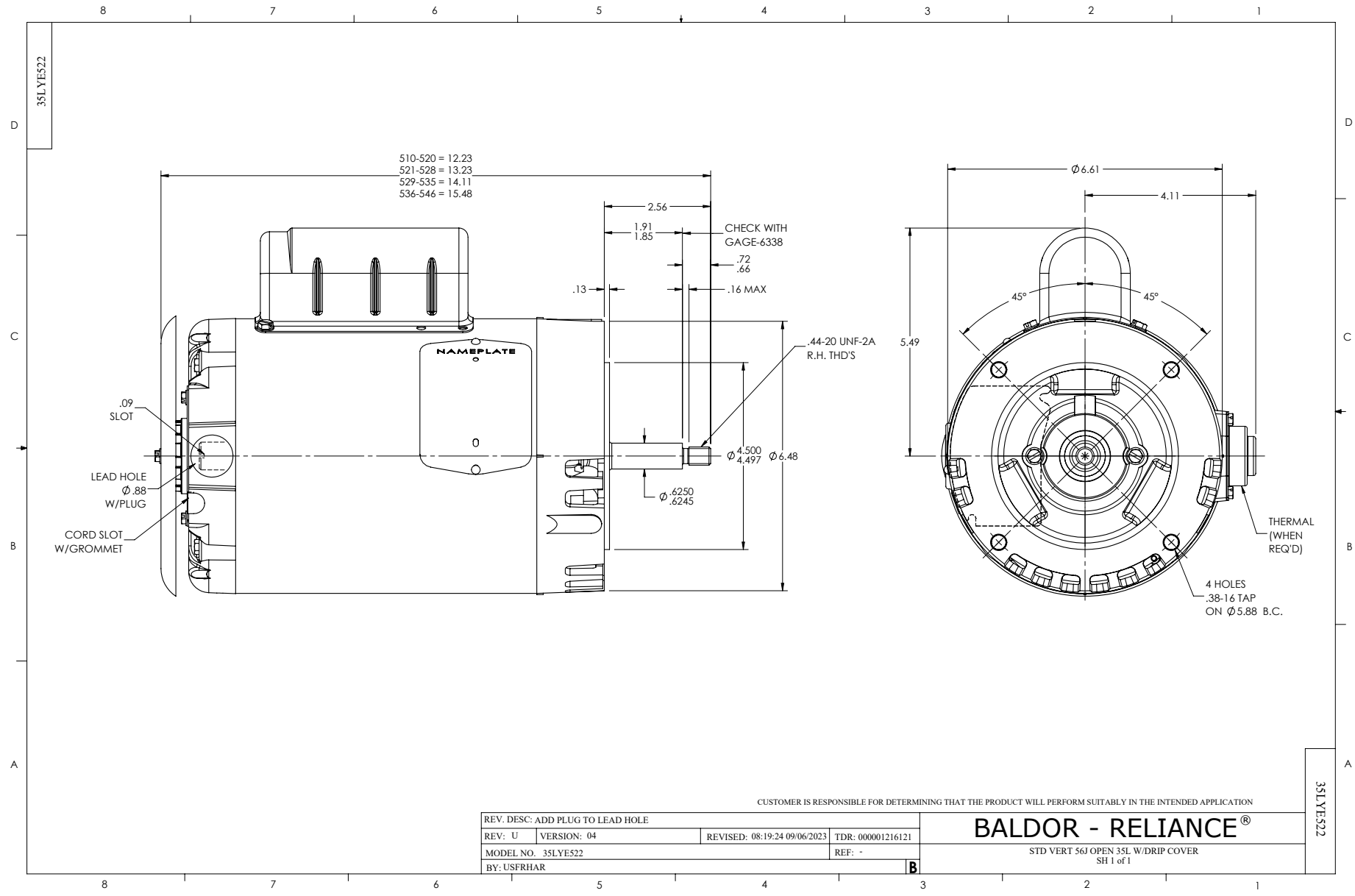
WINDING # 35WGW183

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

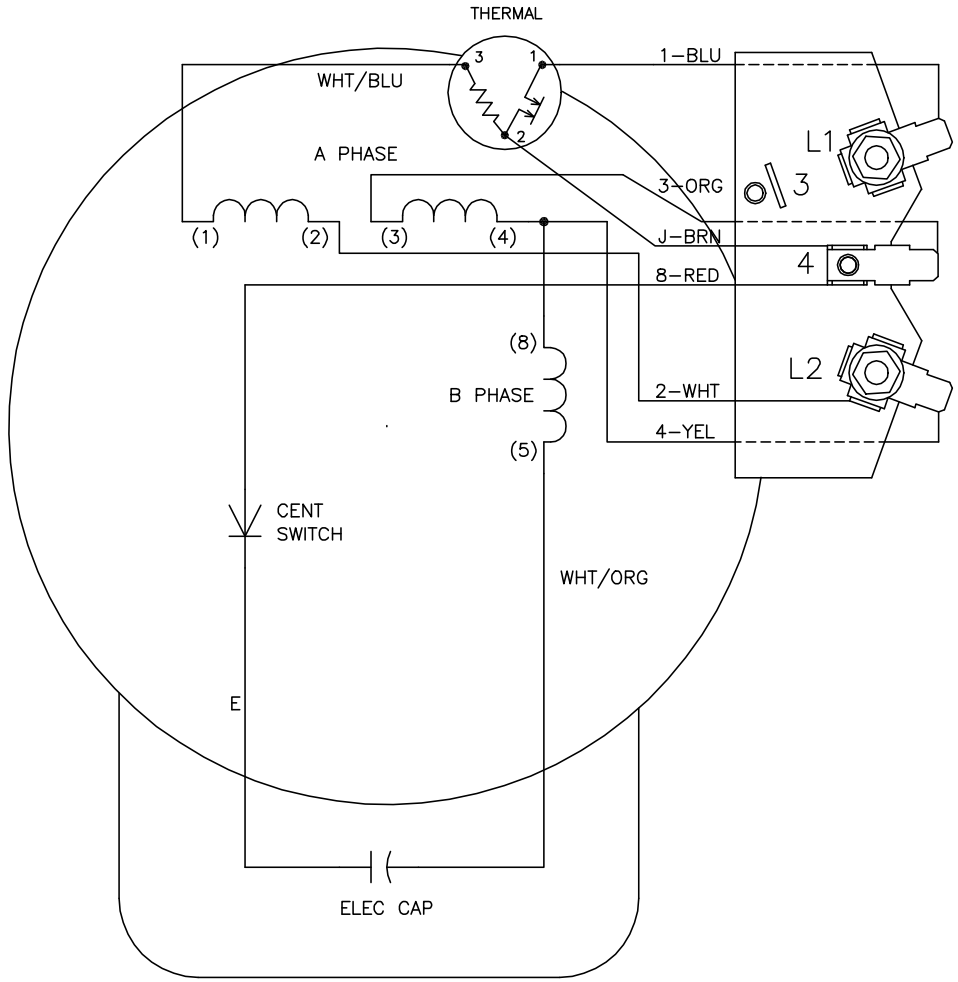
Typical performance - not guaranteed values.

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




35LYE522
510-520 = 12.23
521-528 = 13.23
529-535 = 14.11
536-546 = 15.48
2.56
1.91
1.85
CHECK WITH GAGE-6338
.72
.66
.13
.16 MAX
NAMEPLATE
.44-20 UNF-2A R.H. THD'S
.09 SLOT
LEAD HOLE Ø.88 W/PLUG
CORD SLOT W/GROMMET
Ø4.500
4.497
Ø6.48
Ø.6250
.6245
Ø6.61
4.11
5.49
45°
45°
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 PLUG TO LEAD HOLE
REV: U
VERSION: 04
REVISED: 08:19:24 09/06/2023
TDR: 000001216121
MODEL NO. 35LYE522
REF: -
BY: USFRHAR
B
BALDOR - RELIANCE®
STD VERT 56J OPEN 35L W/DRIP COVER
SH 1 of 1
35LYE522

CD0307



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 OPPOSITE STANDARD ROTATION (CW FACING END OPPOSITE SHAFT EXTENSION). INTERCHANGE 5 AND 8 INTERNALLY FOR STANDARD ROTATION.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0307

REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION			BALDOR ELECTRIC Co.
REV. LTR: F	VERSION: 01	TDR: 000000373039	
CD0307	FILE: \AAA\00007\308	REVISED: 11:45:00 08/11/2005	TYPE L, DV, FIX ROT, THERMAL, TERMINAL PLATE (OPP STD)
	MTL: –	BY: ENJOEP0	