ABB BALDOR RELIANCE

Customer information packet

EL3507

.75HP, 1755RPM, 1PH, 60HZ, 56, 3522LC, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	56
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	.750 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	208.0 V @ 60 HZ
	115.0 V @ 60 HZ
Agency Approvals	C UR US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	6.100 A @ 115.0 V
	3.350 A @ 208.0 V
	3.050 A @ 230.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.1 a

Part Detail

Revision	C
Type	AC
Mech. spec.	35E008
Base	
Status	PRD/A
Elec. spec.	35WGL999
Layout	35LYE008
Eff. date	04-29-2024
CD Diagram	CD0055
Poles	04
Leads	6#18
Proprietary	False
Created date	02-23-2023

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3522LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.25 IN
Power Factor	95
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1755 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	None
Winding Thermal 2	None

Nameplate

NP2116L											
CAT.NO.	EL3507										
SPEC.	35E008L999G1										
HP	.75										
VOLTS	115/208-230										
AMP	6.1/3.35-3.05										
RPM	1755										
FRAME	56		**HZ**	60		**PH**	1				
SER.F.	1.25	**CODE**	L	**DES**	N	**CL**	F				
NEMA-NOM-EFF	82.5	**PF**	95								
RATING	40C AMB-CONT										
CC											
DE	6205	**ODE**	6203								
ENCL	TEFC	**SN**									
	SFA 7.6/4.3-3.8										

Accessories

Part number	Description	Multiplier
35-8762	C FACE KIT	A8
35EP1506A01SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data
Record # 85084
Typical performance - not guaranteed values

Winding: 35WGL999-R002	**Type:** 3522LC	**Enclosure:** OPEN

Nameplate Data			
Rated Output (HP)			.75
Volts			115/208-230
Full Load Amps			6.1/3.3-3.0
R.P.M.			1755
Hz	60	**Phase**	1
NEMA Design Code	N	**KVA Code**	L
Service Factor (S.F.)			1.25
NEMA Nom. Eff.	0	**Power Factor**	0
Rating - Duty			40C AMB-CONT
S.F. Amps			7.7/4.3-3.8

115 V, 60 Hz: Low Voltage Connection	
Full Load Torque	2.25 LB-FT
Start Configuration	direct on line
Breakdown Torque	6.17 LB-FT
Pull-up Torque	5.27 LB-FT
Locked-rotor Torque	9.16 LB-FT
Starting Current	59 A
No-load Current	2.04 A
Line-line Res. @ 25ºC	1.09 Ω A Ph 1.33 Ω B Ph
Temp. Rise @ Rated Load	23°C
Temp. Rise @ S.F. Load	29°C
Locked-rotor Power Factor	99.6
Rotor inertia	0.159 lb-ft²

Load Characteristics 115 V, 60 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	77	91	94	96	95	96	95
Efficiency	60.6	76.6	82	83.2	82.4	80.7	82.4
Speed	1788	1777	1766	1753	1736	1718	1736
Line amperes	2.64	3.52	4.75	6.12	7.74	9.43	7.74

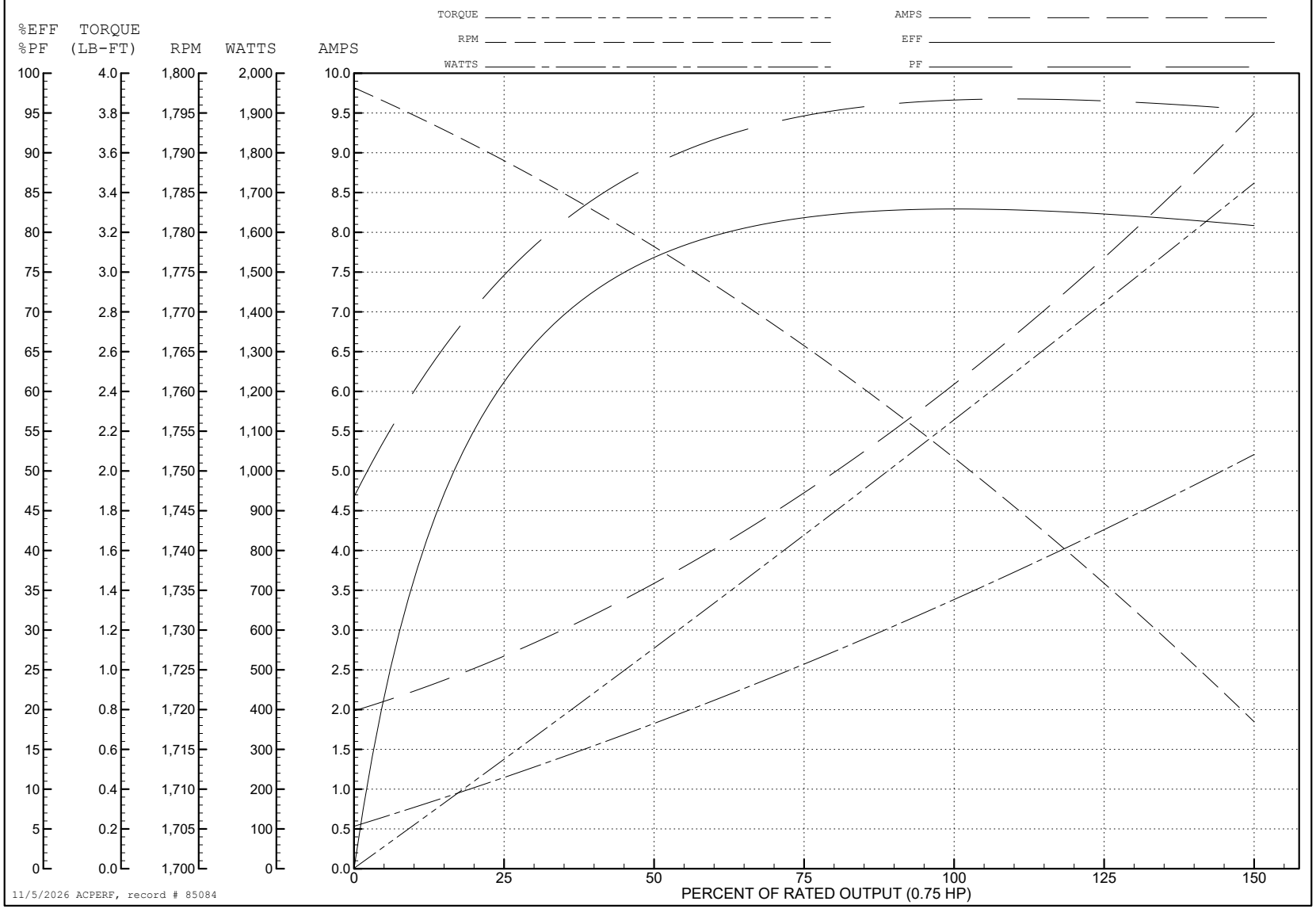
ABB Motors and Mechanical Inc.

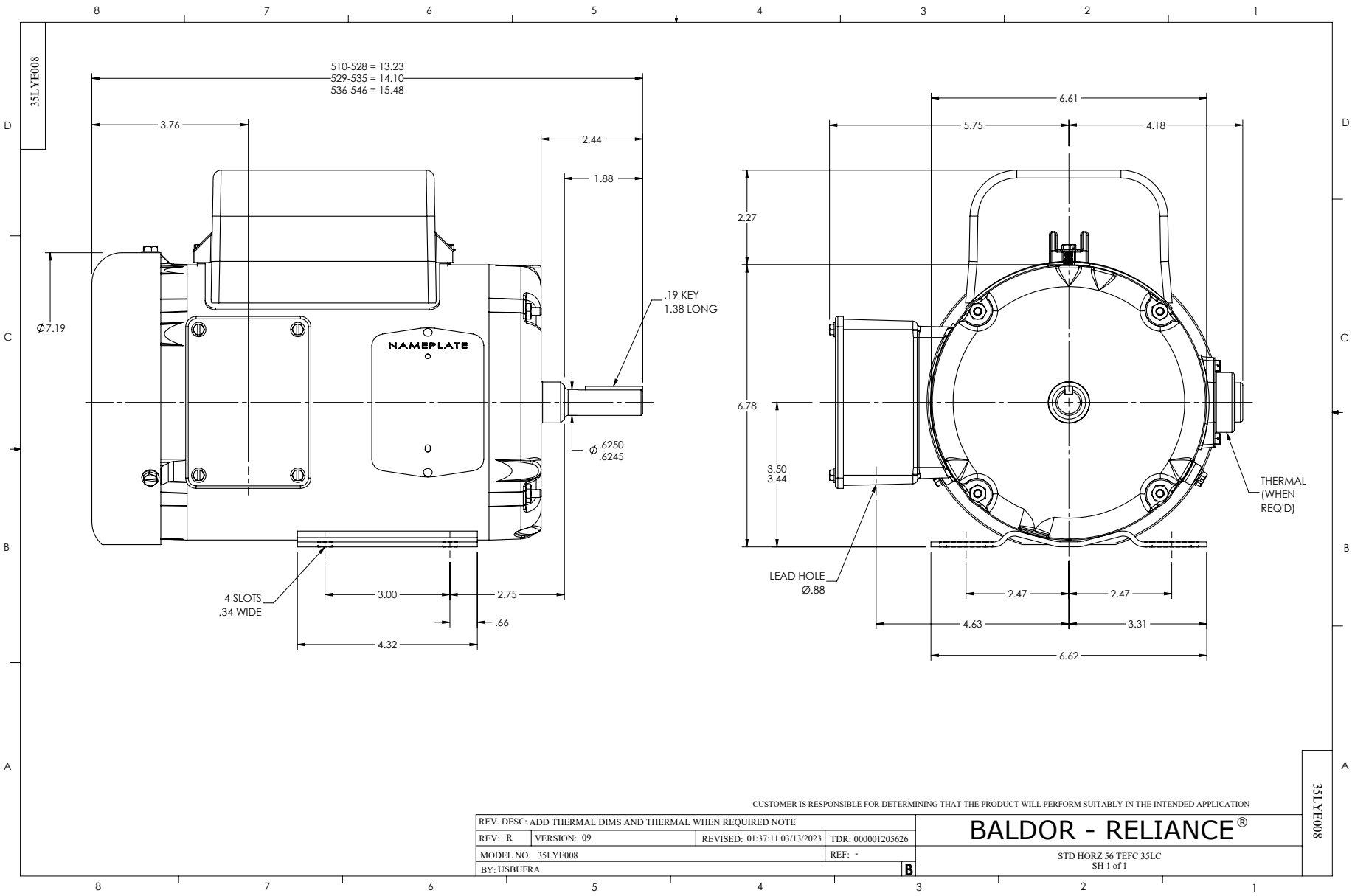
WINDING # 35WGL999

0.75 HP 1 PH 60 HZ 1755 RPM 115 V 3522LC

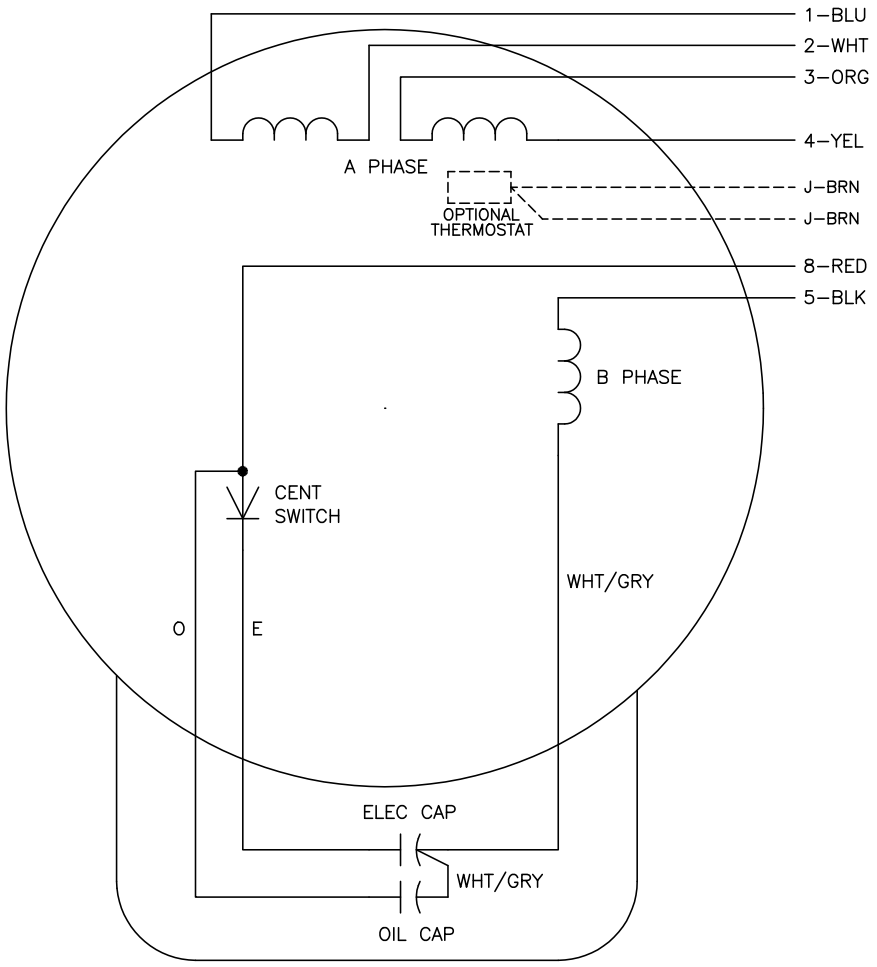
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=6.17 PU=5.27 LR=9.16 LRA=59




35LYE008
510-528 = 13.23
529-535 = 14.10
536-546 = 15.48
3.76
2.44
1.88
Ø7.19
.19 KEY
1.38 LONG
NAMEPLATE
Ø .6250
.6245
4 SLOTS
.34 WIDE
3.00
2.75
.66
4.32
6.61
5.75
4.18
2.27
6.78
3.50
3.44
THERMAL
(WHEN
REQ'D)
LEAD HOLE
Ø.88
2.47
2.47
4.63
3.31
6.62
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: R
VERSION: 09
REVISED: 01:37:11 03/13/2023
TDR: 000001205626
MODEL NO. 35LYE008
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ 56 TEFC 35LC
SH 1 of 1
35LYE008

CD0055



	LINE A	LINE B	JOIN
HIGH STD	1	4,5	2,3,8
HIGH OPP	1	4,8	2,3,5
LOW STD	1,3,8	2,4,5	–
LOW OPP	1,3,5	2,4,8	–

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:17	TDR: 0178636
CD0055		FILE: AAA00007414	MDL: –
		MTL: –	TYPE LC, DV, REV, 6 LEADS

CD0055