ABB BALDOR RELIANCE

Customer information packet

VL1322T

2HP, 1735RPM, 1PH, 60HZ, 145TC, 3538LC, OPEN, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	145TC
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	2.000 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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	9.200 A @ 208.0 V
	8.500 A @ 230.0 V
	19.500 A @ 115.0 V
Design Code	L
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	8.5 a

Part Detail

Revision	G
Type	AC
Mech. spec.	35EE018
Base	
Status	PRD/A
Elec. spec.	35WGG469
Layout	35LYEE018
Eff. date	12-02-2025
CD Diagram	CD0016A01
Poles	04
Leads	4#16 A PH,3#18 B PH Y
Proprietary	False
Created date	02-23-2023

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	4 @ 16 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3538LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.54 IN
Power Factor	98
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	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1735 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

NP1256L										
CAT.NO.	VL1322T									
SPEC.	35EE018G469									
HP	2									
VOLTS	115/208-230									
AMP	19.5/9.2-8.5									
RPM	1735									
FRAME	145TC		**HZ**	60			**PH**	1		
SER.F.	1.15	**CODE**	G	**DES**	L	**CLASS**		F		
NEMA-NOM-EFF	78.5	**PF**	98							
RATING	40C AMB-CONT									
CC										
DE	6205		**ODE**	6203						
ENCL	OPEN	**SN**								
	SFA 20.4/11.2-10.2									

AC Induction Motor Performance Data
Record # 104654
Typical performance - not guaranteed values

Winding: 35WGG469-R004	**Type:** 3538LC	**Enclosure:** OPEN

Nameplate Data				**115 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	5.98 LB-FT
Volts			115/208-230	**Start Configuration**	direct on line
Full Load Amps			18.2/9.2-8.2	**Breakdown Torque**	15.4 LB-FT
R.P.M.			1735	**Pull-up Torque**	14.1 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	16.1 LB-FT
NEMA Design Code	L	**KVA Code**	G	**Starting Current**	126 A
Service Factor (S.F.)			1.15	**No-load Current**	7.98 A
NEMA Nom. Eff.	78.5	**Power Factor**	98	**Line-line Res. @ 25ºC**	0.357 Ω A Ph 0.894 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	48°C
S.F. Amps			20.4/11.2-10.2	**Temp. Rise @ S.F. Load**	58°C
				Locked-rotor Power Factor	92.1
				Rotor inertia	0.275 lb-ft²

Load Characteristics 115 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	58	77	88	93	95	99	94
Efficiency	65.8	79.8	81.6	81.1	79.1	77.6	79.9
Speed	1783	1769	1754	1734	1713	1704	1721
Line amperes	8.68	10.7	13.51	18.2	21.05	22.84	19.9

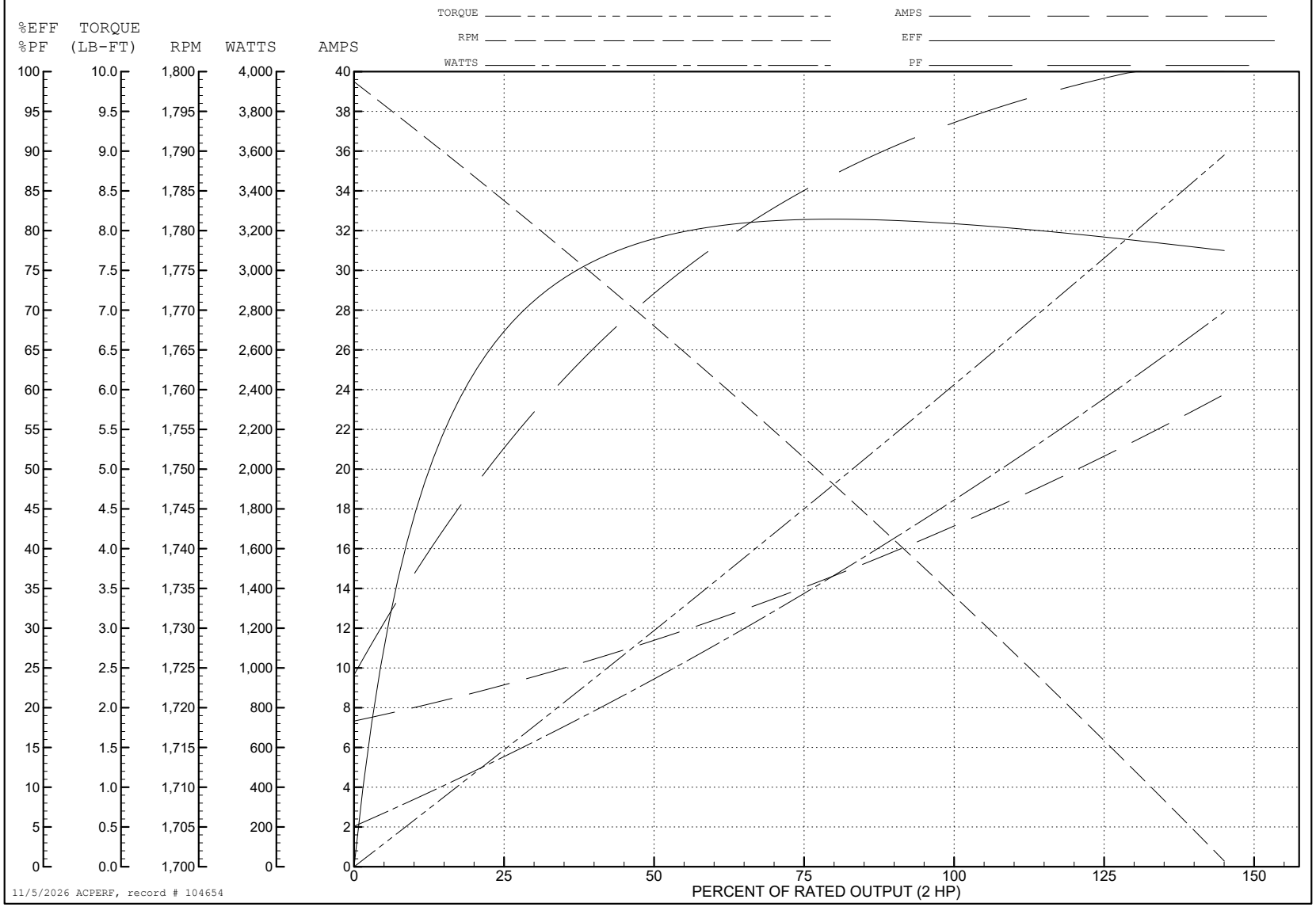
ABB Motors and Mechanical Inc.

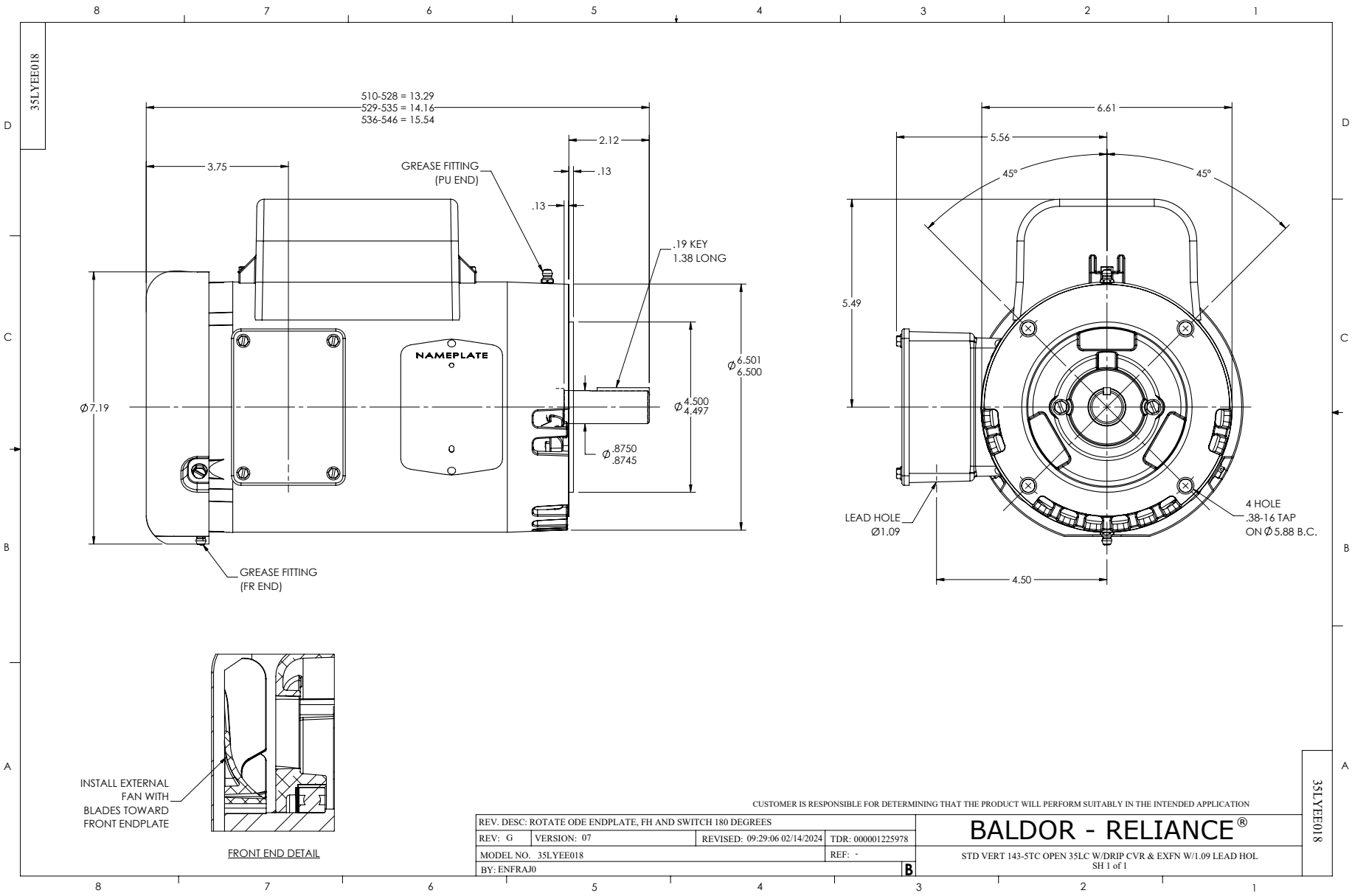
WINDING # 35WGG469

2 HP 1 PH 60 HZ 1735 RPM 115 V 3538LC

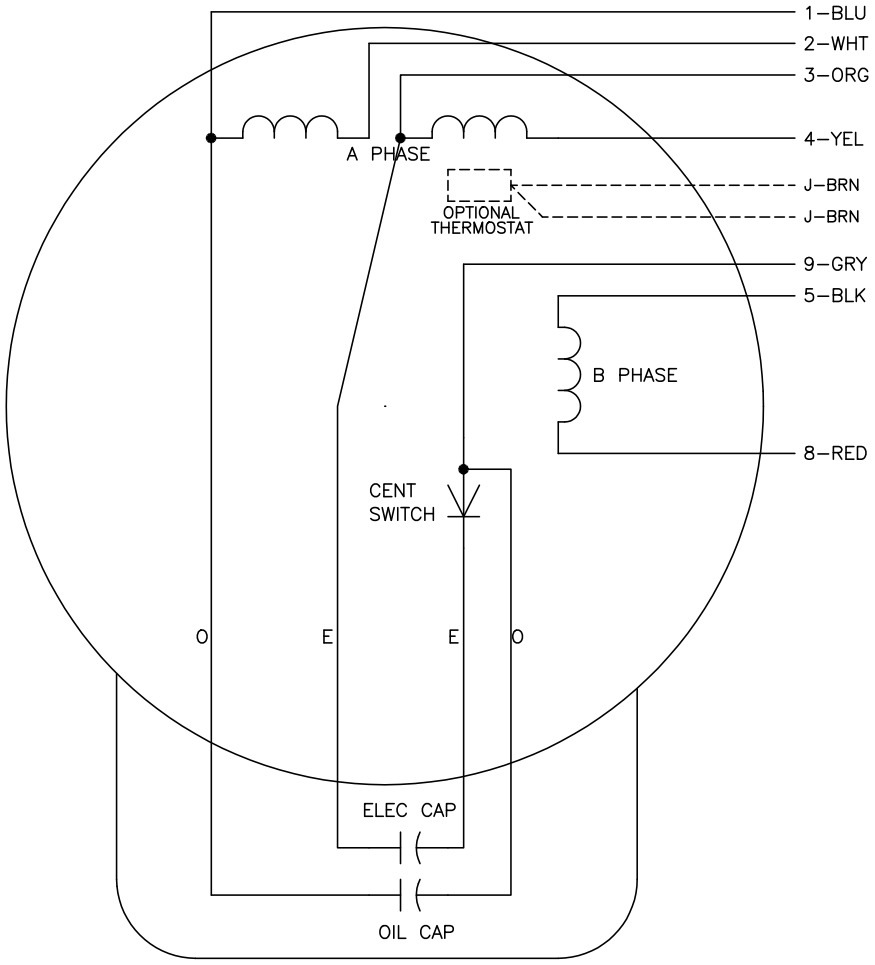
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=15.4 PU=14.1 LR=16.1 LRA=126




35LYEE018
510-528 = 13.29
529-535 = 14.16
536-546 = 15.54
3.75
2.12
.13
.13
GREASE FITTING
(PU END)
.19 KEY
1.38 LONG
NAMEPLATE
Ø7.19
Ø6.501
6.500
Ø4.500
4.497
Ø.8750
.8745
GREASE FITTING
(FR END)
6.61
5.56
45°
45°
5.49
LEAD HOLE
Ø1.09
4 HOLE
.38-16 TAP
ON Ø5.88 B.C.
4.50
INSTALL EXTERNAL
FAN WITH
BLADES TOWARD
FRONT ENDPLATE
FRONT END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ROTATE ODE ENDPLATE, FH AND SWITCH 180 DEGREES
REV: G
VERSION: 07
REVISED: 09:29:06 02/14/2024
TDR: 000001225978
MODEL NO. 35LYEE018
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
STD VERT 143-5TC OPEN 35LC W/DRIP CVR & EXFN W/1.09 LEAD HOL
SH 1 of 1
35LYEE018

CD0016A01



	LINE A	LINE B	JOIN	JOIN
HIGH STD	1	4,5	2,3	8,9
HIGH OPP	1	4,8	2,3	5,9
LOW STD	1,3	2,4,5	8,9	–
LOW OPP	1,3	2,4,8	5,9	–

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.

CD0016A01

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 04/09/99 1:19	TDR: 0178636
CD0016A01		FILE: AAA00007410	MDL: –
		MTL: –	TYPE LC, DV, REV, OIL CAP ACR. LINE, 7 LEADS