ABB BALDOR RELIANCE

Customer information packet

VEL11318

1HP, 1750RPM, 1PH, 60HZ, 56C, 3528LC, ODTF, F1
Class - None
Division - Not Applicable

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9/7/2026 9:26:38 AM

Specifications

Enclosure	ODTF
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, Cap Run
Output @ Frequency	1.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CURUSEEV
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	4.400 A @ 230.0 V
	8.800 A @ 115.0 V
Design Code	L
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.4 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	F
Type	AC
Mech. spec.	35E019
Base	
Status	PRD/A
Elec. spec.	35WGG109
Layout	35LYE019
Eff. date	07-02-2024
CD Diagram	CD0055
Poles	04
Leads	6#18
Proprietary	False
Created date	08-01-2022

KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.23 IN
Power Factor	89
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1750 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

NP3155L										
CAT.NO.	VEL11318									
SPEC.	35E019G109									
HP	1									
VOLTS	115/230									
AMP	8.8/4.4									
RPM	1750									
FRAME	56C		**HZ**	60			**PH**	1		
SER.F.	1.15	**CODE**	K	**DES**	L	**CL**	F			
F.L. AVG. EFF.	82.6	**PF**	89							
RATING	40C AMB-CONT									
CC										
DE	6205		**ODE**	6203						
ENCL	ODTF	**SN**								

AC Induction Motor Performance Data
Record # 108226
Typical performance - not guaranteed values

Winding: 35WGG109-R001	**Type:** 3528LC	**Enclosure:** OPEN

Nameplate Data				**115 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	3.006 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			8.8/4.4	**Breakdown Torque**	9.12 LB-FT
R.P.M.			1750	**Pull-up Torque**	6.8 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	13.7 LB-FT
NEMA Design Code	L	**KVA Code**	K	**Starting Current**	75.2 A
Service Factor (S.F.)			1.15	**No-load Current**	4.53 A
NEMA Nom. Eff.	82.6	**Power Factor**	89	**Line-line Res. @ 25ºC**	0.57842 Ω A Ph 1.1449 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	22°C
S.F. Amps				**Temp. Rise @ S.F. Load**	27°C

Load Characteristics 115 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	51	69	80	86	89	91	88
Efficiency	65.7	78.3	82.3	82.7	81.4	78.7	81.9
Speed	1783.2	1769.4	1753.1	1736.2	1716	1689.1	1724
Line amperes	4.86	5.88	7.33	9.06	11.1	13.6	10.3

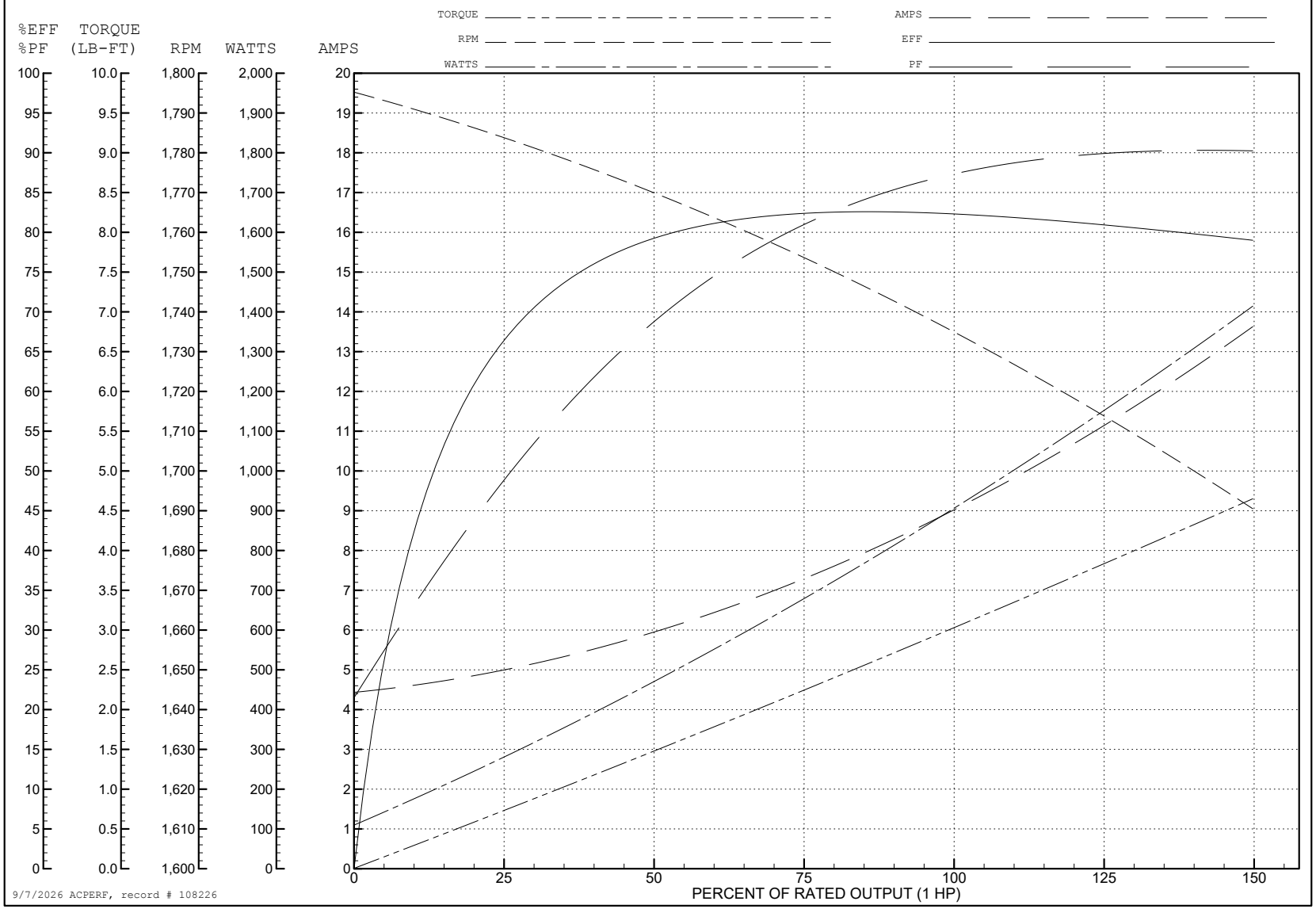
ABB Motors and Mechanical Inc.

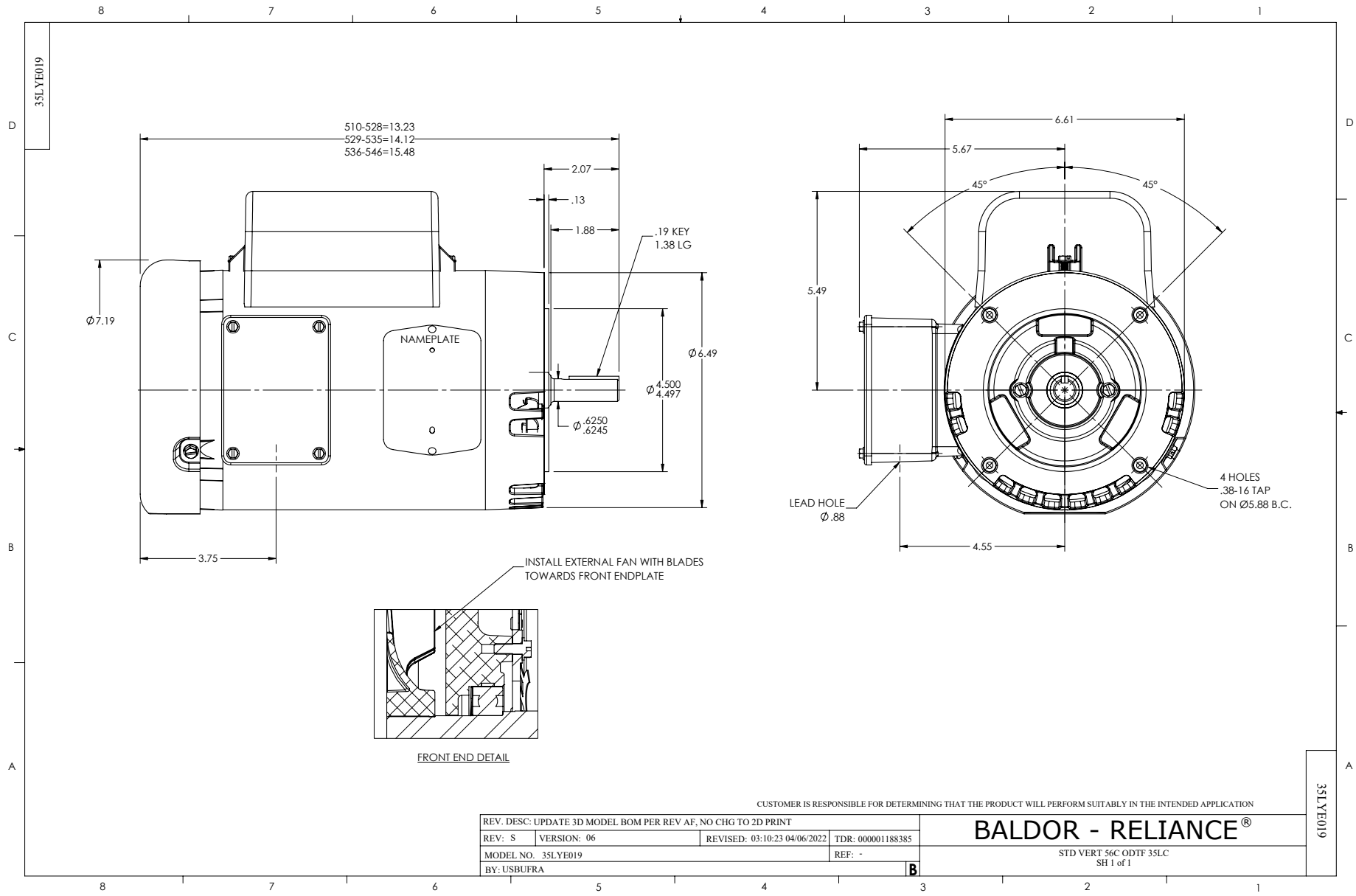
WINDING # 35WGG109

1 HP 1 PH 60 HZ 1750 RPM 115 V 3528LC

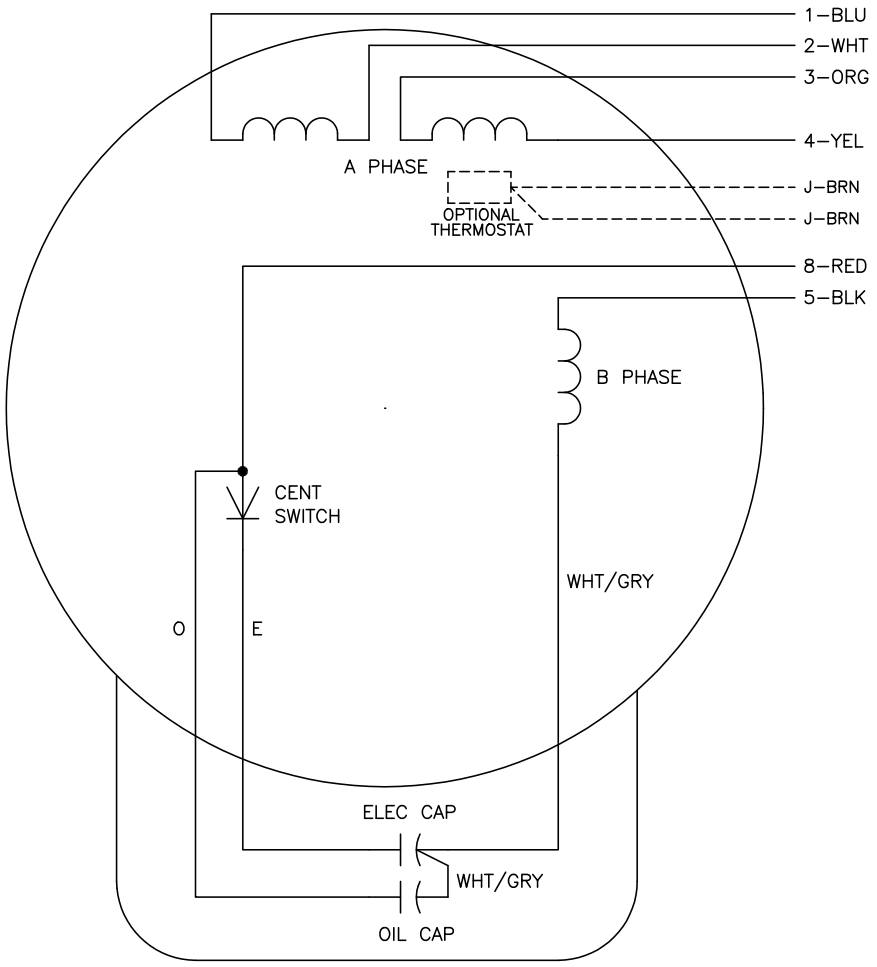
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=9.12 PU=6.8 LR=13.7 LRA=75.2




35LYE019
510-528=13.23
529-535=14.12
536-546=15.48
2.07
.13
1.88
.19 KEY
1.38 LG
Ø7.19
NAMEPLATE
Ø6.49
Ø4.500
Ø4.497
Ø.6250
Ø.6245
3.75
6.61
5.67
45°
45°
5.49
4 HOLES
.38-16 TAP
ON Ø5.88 B.C.
LEAD HOLE
Ø.88
4.55
INSTALL EXTERNAL FAN WITH BLADES
TOWARDS FRONT ENDPLATE
FRONT END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV AF, NO CHG TO 2D PRINT
REV: S
VERSION: 06
REVISED: 03:10:23 04/06/2022
TDR: 000001188385
MODEL NO. 35LYE019
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD VERT 56C ODTF 35LC
SH 1 of 1
35LYE019

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.

CD0055

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