Customer information packet

VEL11305

.5HP, 1165RPM, 1PH, 60HZ, 56C, 3524LC, ODTF, F1
Class - None
Division - Not Applicable

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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	.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1200 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	2.800 A @ 230.0 V
	4.900 A @ 115.0 V
Design Code	N
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.3 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.8 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	J
Type	AC
Mech. spec.	35E019
Base	
Status	PRD/A
Elec. spec.	35WGG062
Layout	35LYE019
Eff. date	04-27-2026
CD Diagram	CD0016A01
Poles	06
Leads	7#18
Proprietary	False
Created date	08-01-2022

KVA Code	F
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	7 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524LC
Mounting Arrangement	F1
Number of Poles	6
Overall Length	13.23 IN
Power Factor	88
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
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	1165 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.	VEL11305								
SPEC.	35E019G062								
HP	.5								
VOLTS	115/230								
AMP	4.9/2.8								
RPM	1165								
FRAME	56C		**HZ**	60			**PH**	1	
SER.F.	1.25	**CODE**	F	**DES**	N	**CL**	F		
F.L. AVG. EFF.	75.3	**PF**	88						
RATING	40C AMB-CONT								
CC									
DE	6205		**ODE**	6203					
ENCL	ODTF	**SN**							
	SFA 5.6/2.8								

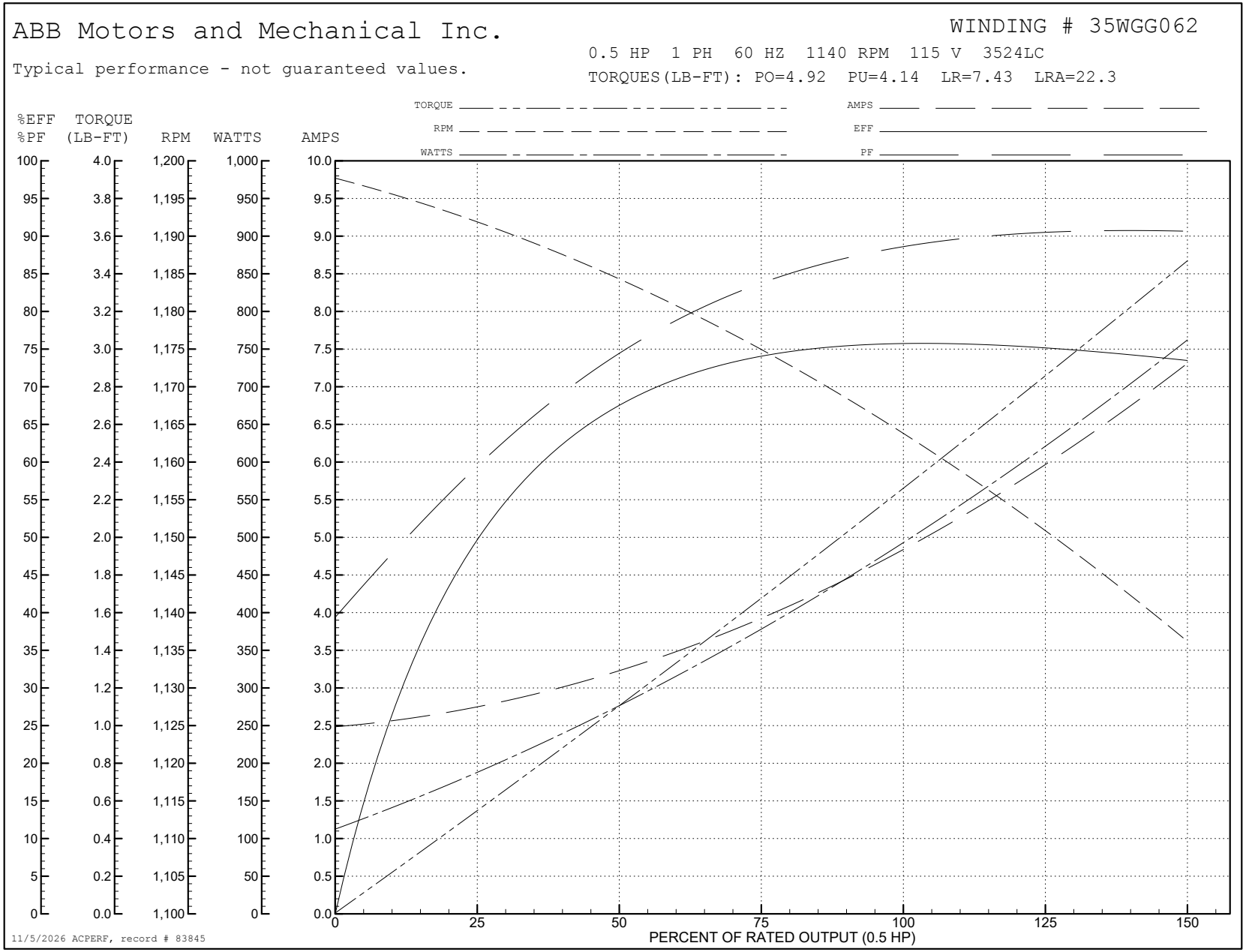
AC Induction Motor Performance Data
Record # 83845
Typical performance - not guaranteed values

Winding: 35WGG062-R001	**Type:** 3524LC	**Enclosure:** OPEN

Nameplate Data				**115 V, 60 Hz: High Voltage, Low Speed Connection**	
Rated Output (HP)			.5	**Full Load Torque**	2.262 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			4.9/2.7	**Breakdown Torque**	4.92 LB-FT
R.P.M.			1140	**Pull-up Torque**	4.14 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	7.43 LB-FT
NEMA Design Code	N	**KVA Code**	K	**Starting Current**	22.3 A
Service Factor (S.F.)			1.25	**No-load Current**	2.5 A
NEMA Nom. Eff.	76.2	**Power Factor**	84	**Line-line Res. @ 25ºC**	1.9537 Ω A Ph 2.4113 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	34°C
S.F. Amps			5.9/3	**Temp. Rise @ S.F. Load**	43°C

Load Characteristics 115 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	61	76	83	88	90	91	90
Efficiency	49.7	66.6	73.7	76.3	76.1	72.9	76.1
Speed	1190.5	1182.9	1174.7	1164.5	1153	1134.4	1153
Line amperes	2.72	3.24	3.97	4.87	5.92	7.34	5.92


ABB Motors and Mechanical Inc.
WINDING # 35WGG062
Typical performance - not guaranteed values.
0.5 HP 1 PH 60 HZ 1140 RPM 115 V 3524LC
TORQUES(LB-FT): PO=4.92 PU=4.14 LR=7.43 LRA=22.3
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
11/5/2026 ACPERF, record # 83845
PERCENT OF RATED OUTPUT (0.5 HP)

AC Induction Motor Performance Data
Record # 83847
Typical performance - not guaranteed values

Winding: 35WGG062-R001	**Type:** 3524LC	**Enclosure:** OPEN

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.5	**Full Load Torque**	2.251 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			4.9/2.7	**Breakdown Torque**	5.72 LB-FT
R.P.M.			1140	**Pull-up Torque**	5.25 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	6.26 LB-FT
NEMA Design Code	N	**KVA Code**	K	**Starting Current**	17.6 A
Service Factor (S.F.)			1.25	**No-load Current**	1.63 A
NEMA Nom. Eff.	76.2	**Power Factor**	84	**Line-line Res. @ 25ºC**	7.8011 Ω A Ph 2.401 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	39°C
S.F. Amps			5.9/3	**Temp. Rise @ S.F. Load**	40°C

Load Characteristics 230 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	61	68	74	81	88	93	88
Efficiency	35.7	55.2	66.5	73.2	76.7	77.8	76.7
Speed	1190.7	1184	1177.2	1169	1158.5	1146.9	1158
Line amperes	1.9	2.19	2.48	2.74	3.01	3.36	3.01

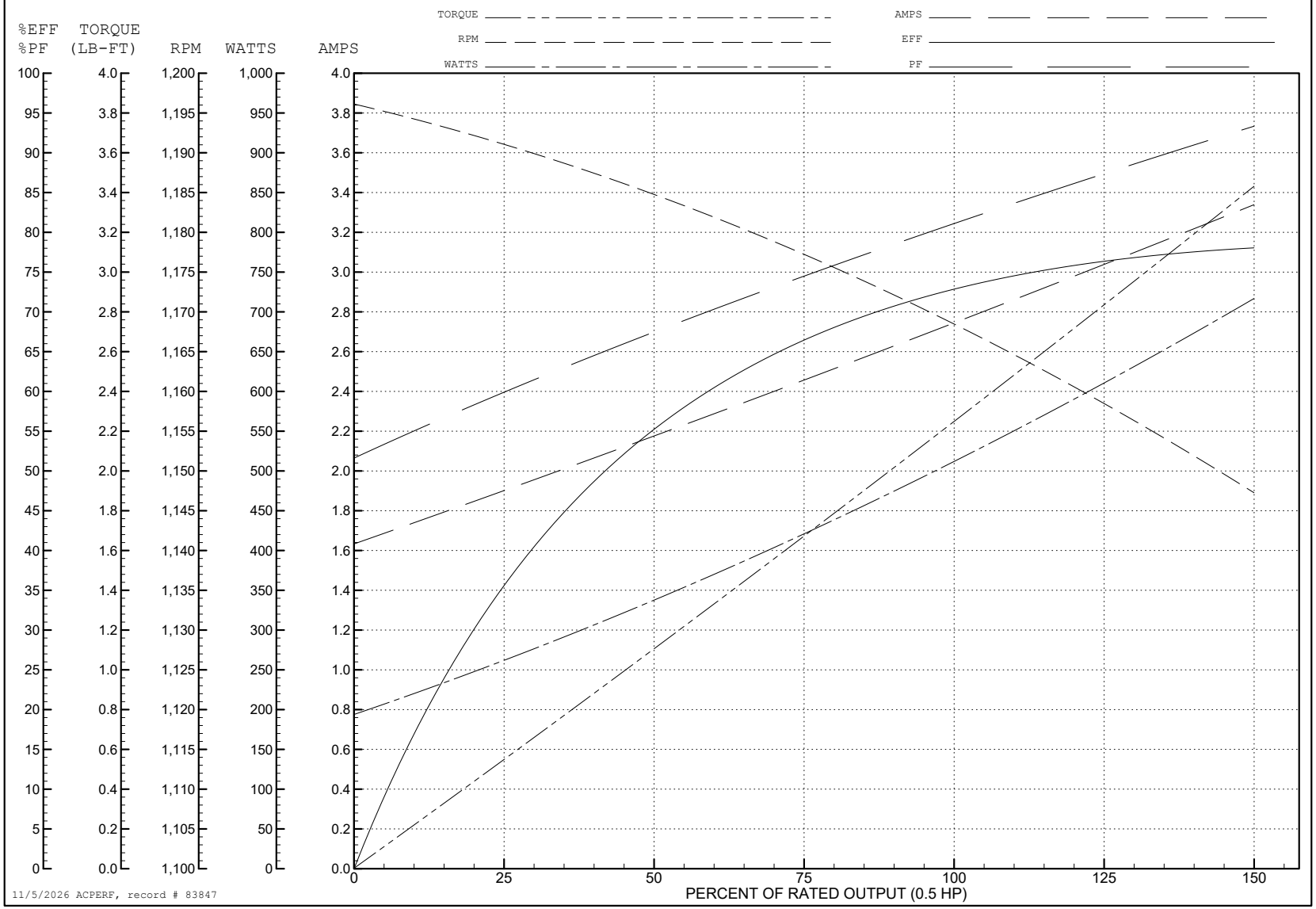
ABB Motors and Mechanical Inc.

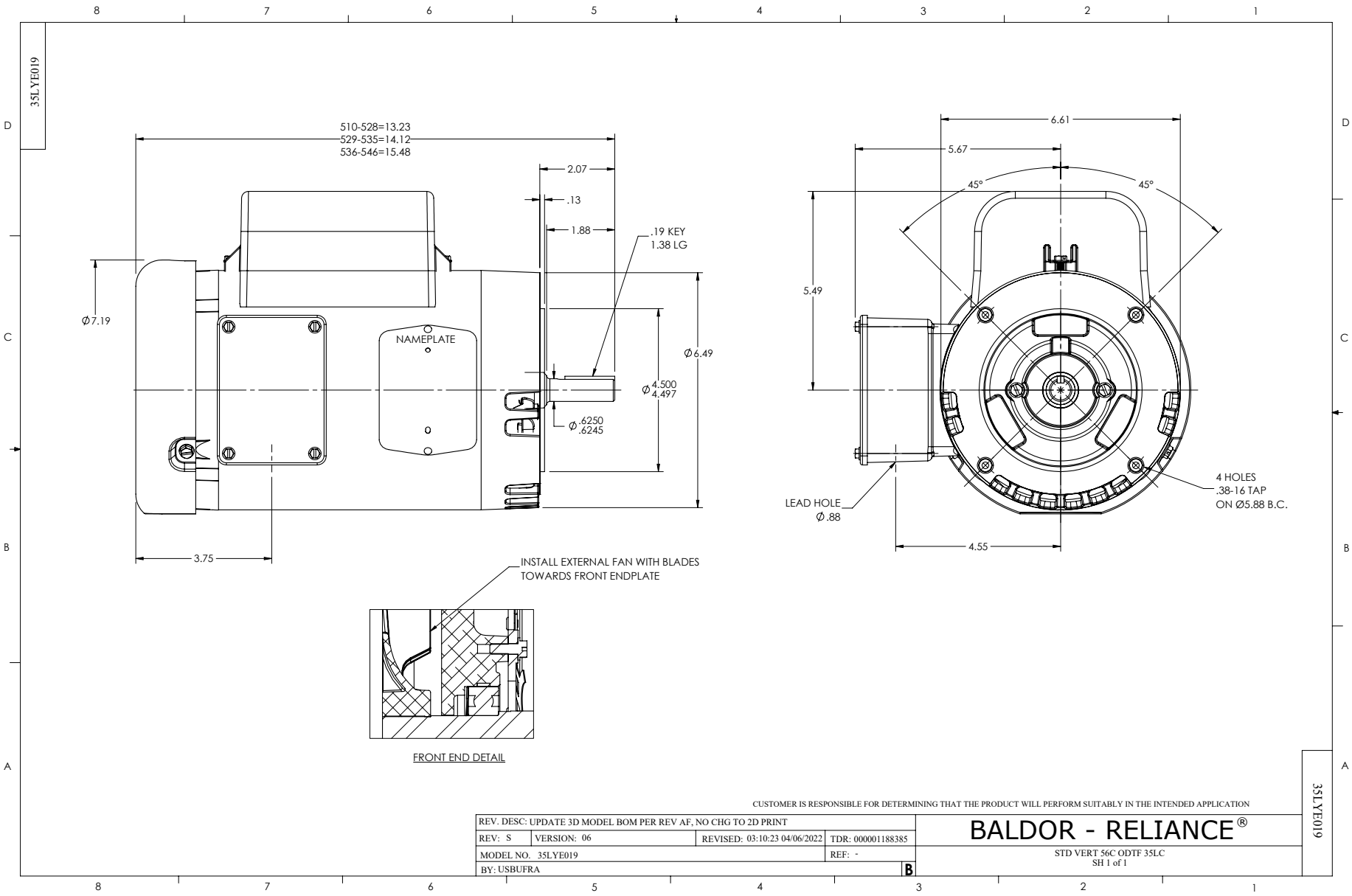
WINDING # 35WGG062

0.5 HP 1 PH 60 HZ 1140 RPM 230 V 3524LC

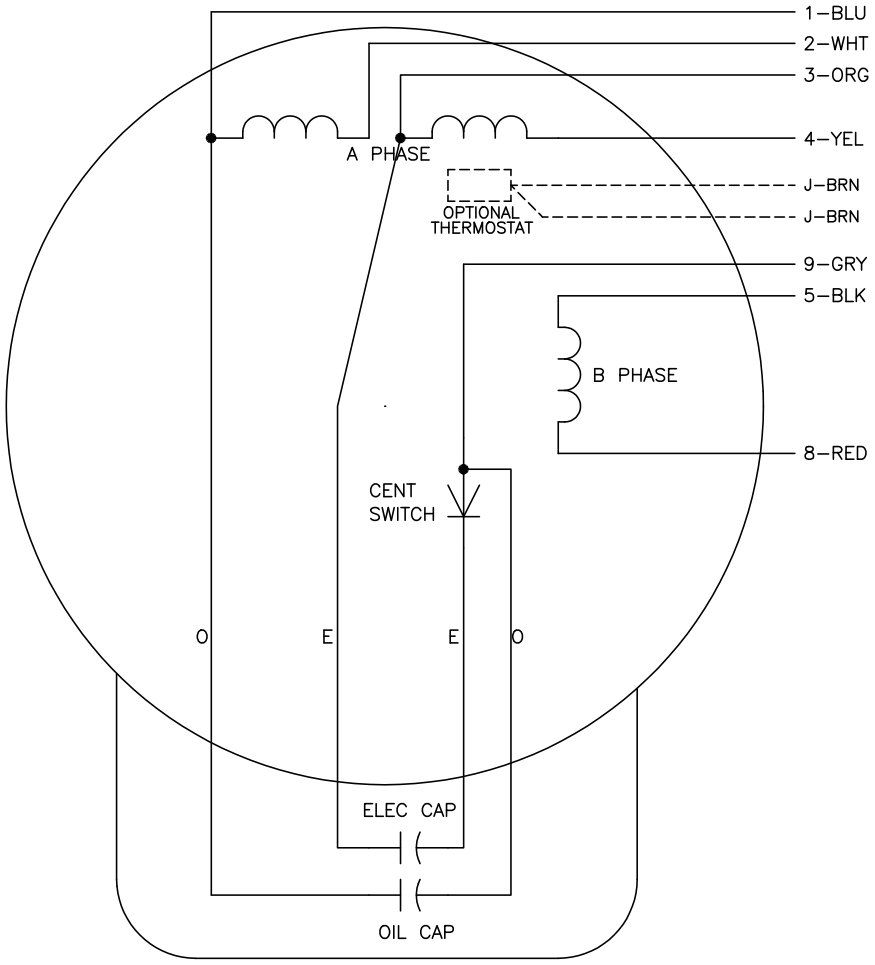
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=5.72 PU=5.25 LR=6.26 LRA=17.6




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

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