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# Customer information packet

## VEL11305

.5HP, 1165RPM, 1PH, 60HZ, 56C, 3524LC, ODTF, F1

Class - None

Division - Not Applicable

## 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
Auxillary Box	No Auxillary Box
Auxillary 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	H
Type	AC
Mech. spec.	35E019
Base	
Status	PRD/A
Elec. spec.	35WGG062
Layout	35LYE019
Eff. date	07-02-2024
CD Diagram	CD0016A01
Poles	06
Leads	7#18
Proprietary	False
Created date	08-01-2022

<b>KVA Code</b>	F
<b>Lifting Lugs</b>	No Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Motor Lead Quantity/Wire Size</b>	7 @ 18 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	3524LC
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	6
<b>Overall Length</b>	13.24 IN
<b>Power Factor</b>	88
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	C-Face
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.25
<b>Shaft Diameter</b>	0.625 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1165 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP3155L</b>									
<b>CAT.NO.</b>	VEL11305								
<b>SPEC.</b>	35E019G062								
<b>HP</b>	.5								
<b>VOLTS</b>	115/230								
<b>AMP</b>	4.9/2.8								
<b>RPM</b>	1165								
<b>FRAME</b>	56C		<b>HZ</b>	60		<b>PH</b>	1		
<b>SER.F.</b>	1.25	<b>CODE</b>	F	<b>DES</b>	N	<b>CL</b>	F		
<b>F.L. AVG. EFF.</b>	75.3	<b>PF</b>	88						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>									
<b>DE</b>	6205		<b>ODE</b>	6203					
<b>ENCL</b>	ODTF	<b>SN</b>							
	SFA 5.6/2.8								

**AC Induction Motor Performance Data**

Record # 83845

Typical performance - not guaranteed values

Winding: 35WGG062-R001		Type: 3524LC	Enclosure: OPEN		
<b>Nameplate Data</b>			<b>115 V, 60 Hz: High Voltage, Low Speed Connection</b>		
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. @ 25°C	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

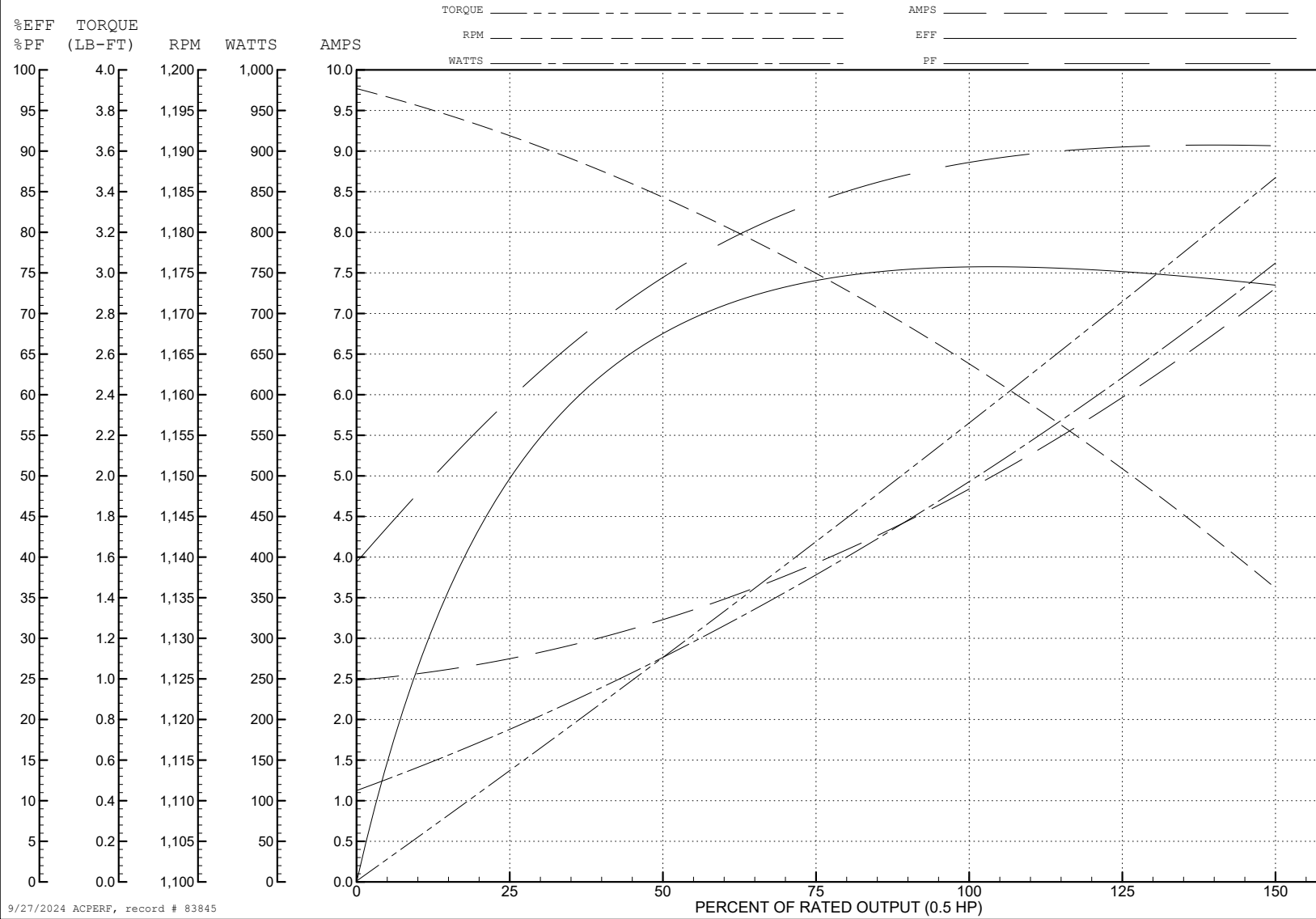
ABB Motors and Mechanical Inc.

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



9/27/2024 ACPERF, record # 83845

**AC Induction Motor Performance Data**

Record # 83847

Typical performance - not guaranteed values

Winding: 35WGG062-R001		Type: 3524LC	Enclosure: OPEN	
<b>Nameplate Data</b>			<b>230 V, 60 Hz: High Voltage Connection</b>	
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. @ 25°C	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

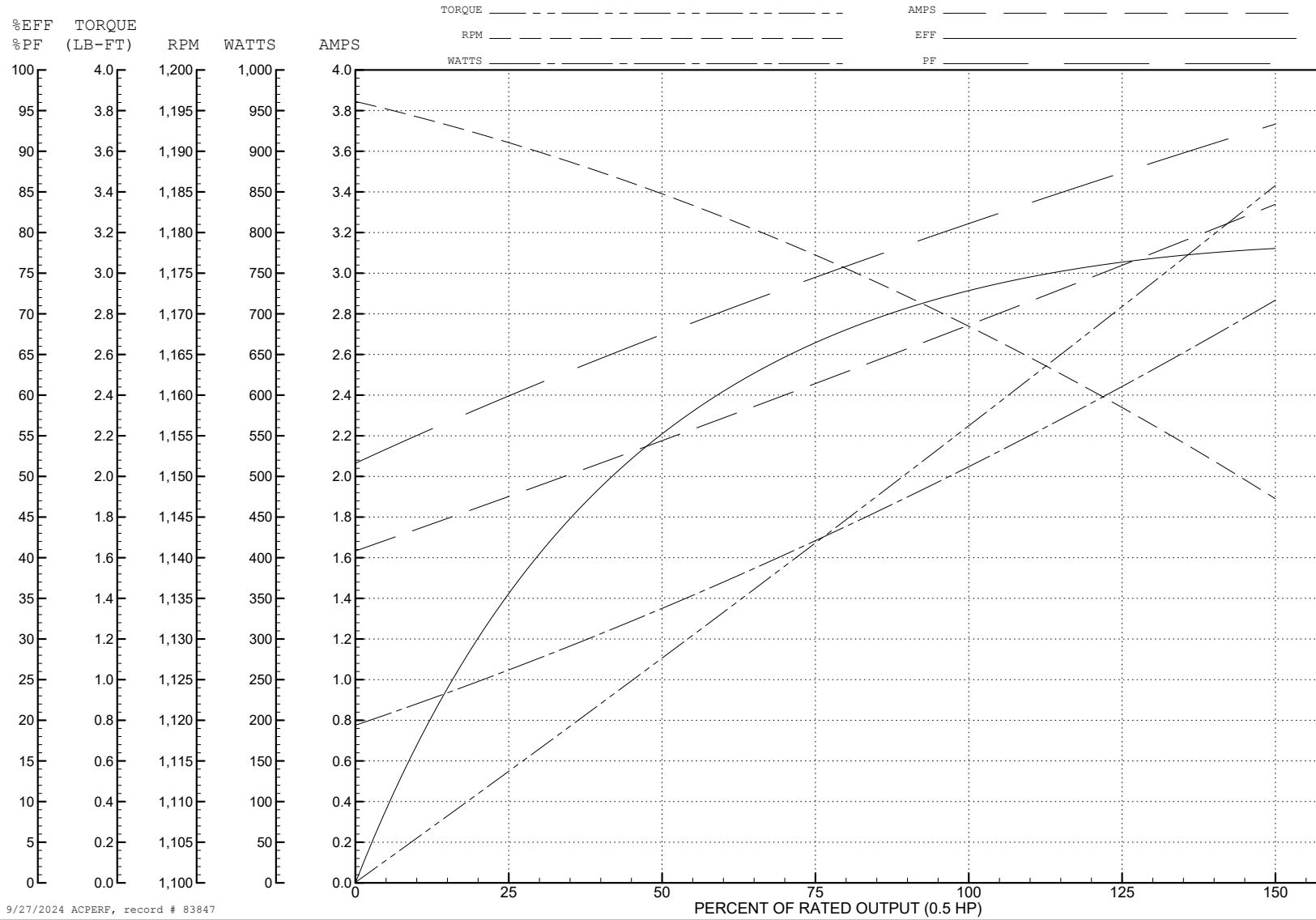
ABB Motors and Mechanical Inc.

WINDING # 35WGG062

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

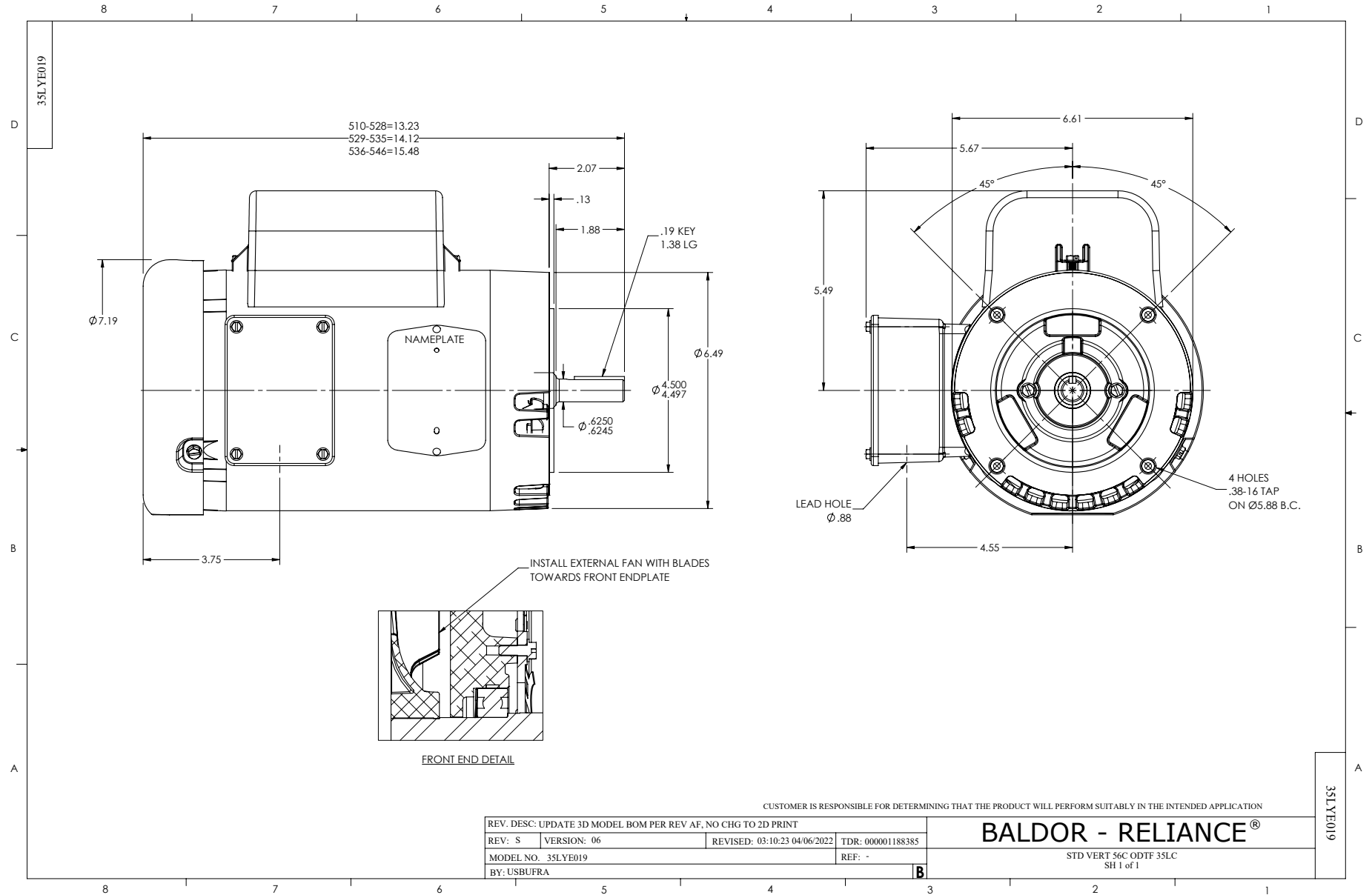
Typical performance - not guaranteed values.

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

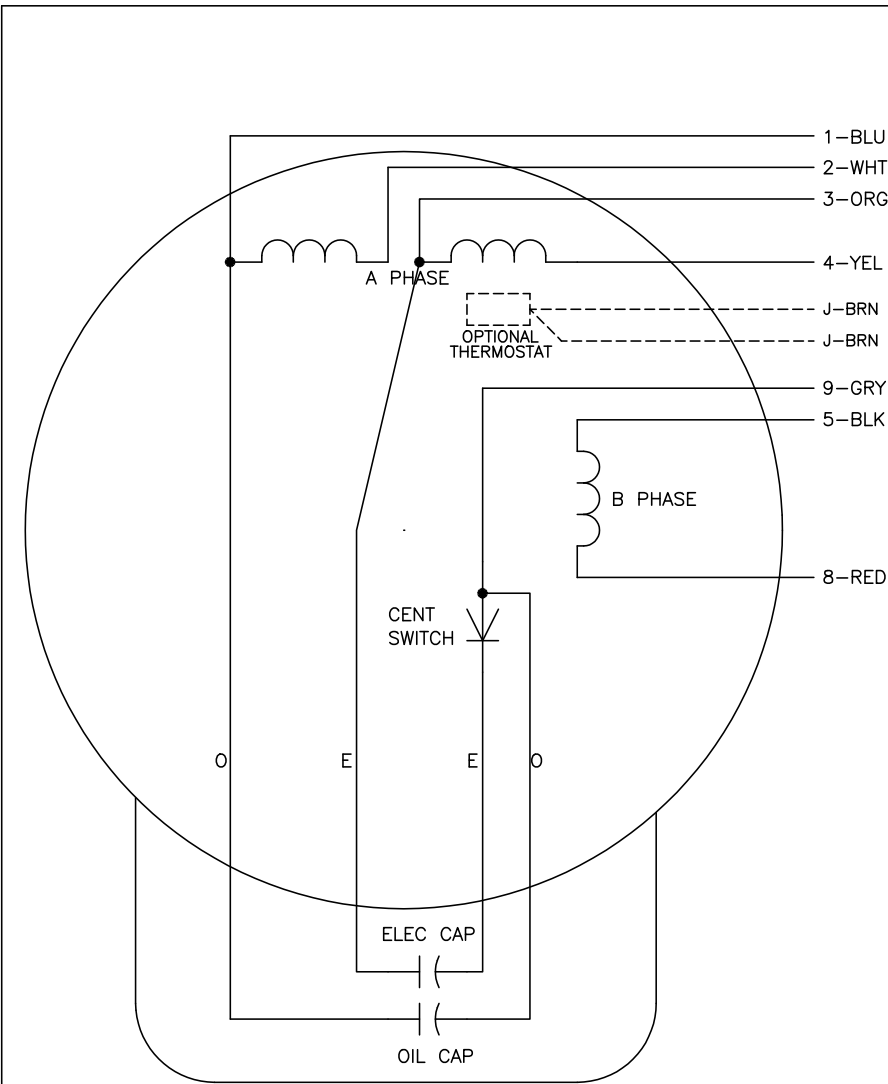


9/27/2024 ACPERF, record # 83847





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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 04/09/99 1:19	TDR: 0178636
10A91000		FILE: AAA00007410	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

TYPE LC, DV, REV, OIL CAP ACR. LINE, 7 LEADS

CD0016A01