ABB BALDOR RELIANCE

Customer information packet

VBL3510

1HP, 1740RPM, 1PH, 60HZ, 56C, 3526LC, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
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	CSA
	UR
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	9.250 A @ 115.0 V
	4.650 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.7 a
Insulation Class	F

Part Detail

Revision	E
Type	AC
Mech. spec.	35F021
Base	
Status	PRD/A
Elec. spec.	35WGG241
Layout	35LYF021
Eff. date	03-03-2026
CD Diagram	CD0055
Poles	04
Leads	6#18
Proprietary	False
Created date	08-01-2022

Inverter Code	Not Inverter
KVA Code	J
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	3526LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.80 IN
Power Factor	85
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	1740 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.	VBL3510								
SPEC.	35F021G241								
HP	1								
VOLTS	115/230								
AMP	9.25/4.65								
RPM	1740								
FRAME	56C	**HZ**	60			**PH**	1		
SER.F.	1.25	**CODE**	J	**DES**	L	**CLASS**	F		
NEMA-NOM-EFF	80	**PF**	85						
RATING	40C AMB-CONT								
CC									
DE	6205	**ODE**	6203						
ENCL	TEFC	**SN**							
	SFA 11.4/5.7								

AC Induction Motor Performance Data
Record # 88915
Typical performance - not guaranteed values

Winding: 35WGG241-R001	**Type:** 3526LC	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	3.023 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			9.5/4.75	**Breakdown Torque**	7.77 LB-FT
R.P.M.			1740	**Pull-up Torque**	6.11 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	9.4 LB-FT
NEMA Design Code	L	**KVA Code**	K	**Starting Current**	36.9 A
Service Factor (S.F.)			1.25	**No-load Current**	2.41 A
NEMA Nom. Eff.	80	**Power Factor**	85	**Line-line Res. @ 25ºC**	2.835 Ω A Ph 1.4934 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	54°C
S.F. Amps			11.6/5.8	**Temp. Rise @ S.F. Load**	76°C
				Locked-rotor Power Factor	96

Load Characteristics 230 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	50	68	79	85	89	91	89
Efficiency	63.4	75.5	78.5	78.4	76.2	72.2	76.2
Speed	1784.3	1770.7	1755.4	1737.9	1715.6	1686.4	1716
Line amperes	2.62	3.14	3.89	4.83	5.98	7.41	5.98

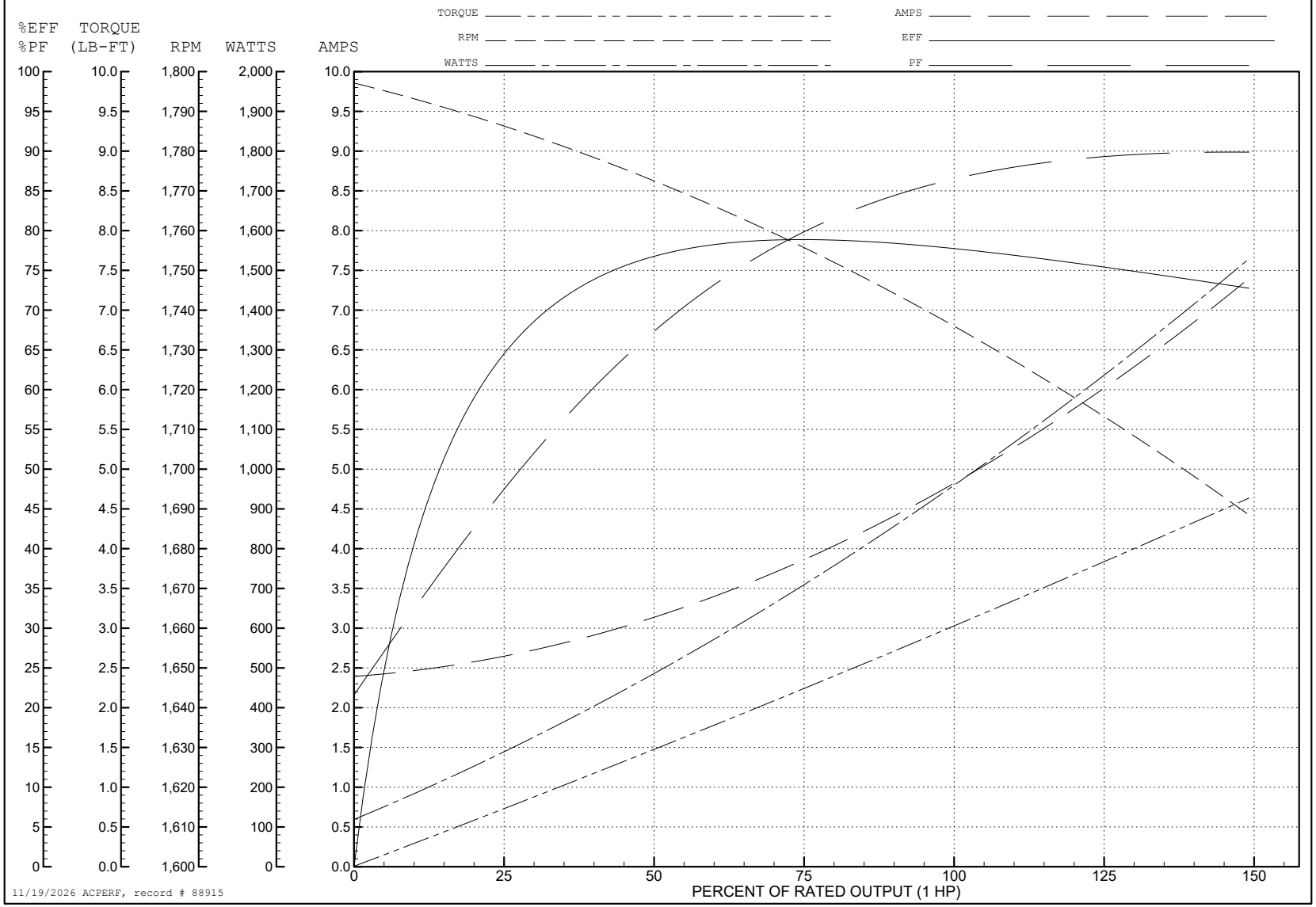
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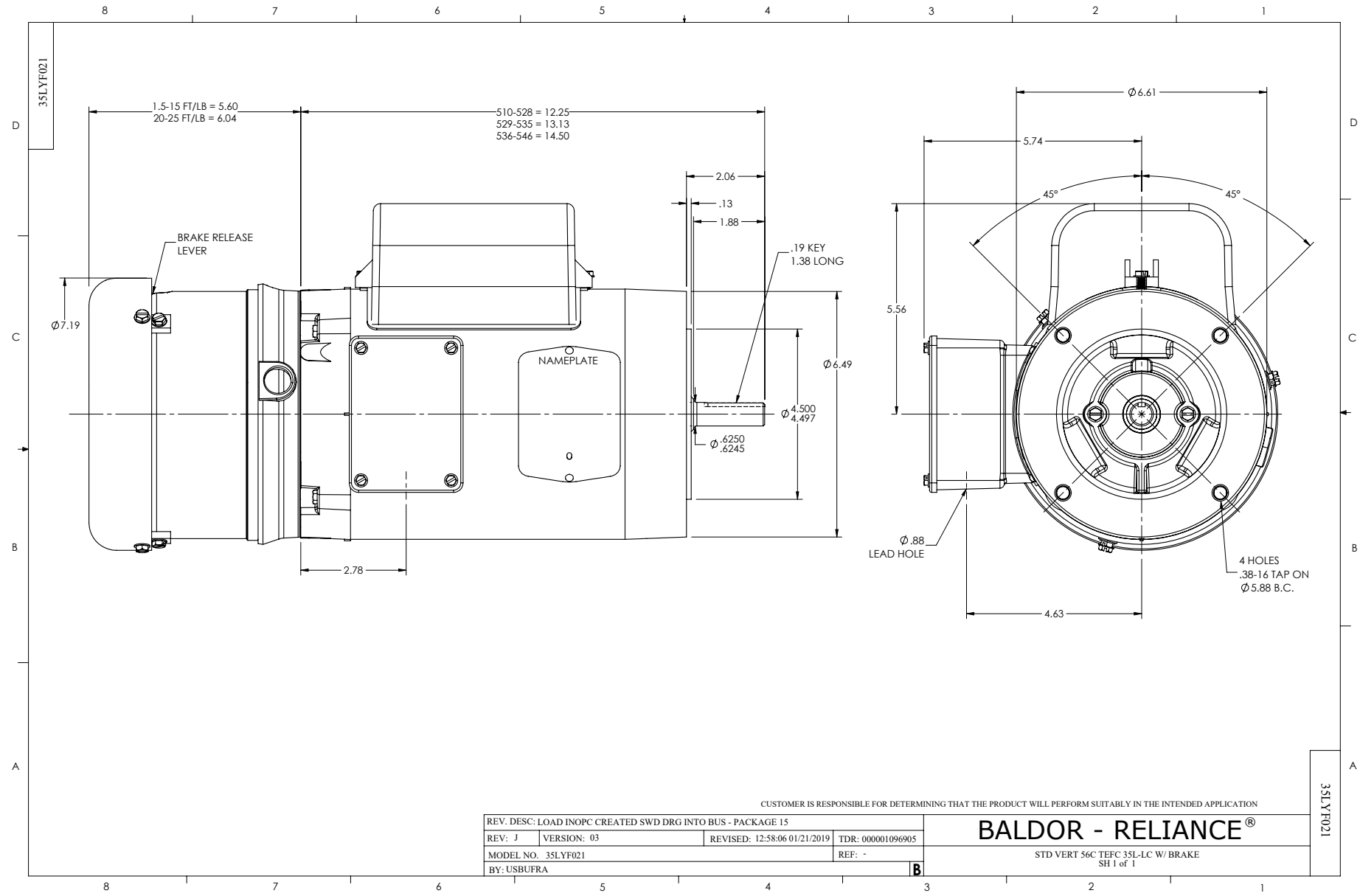
WINDING # 35WGG241

1 HP 1 PH 60 HZ 1740 RPM 230 V 3526LC

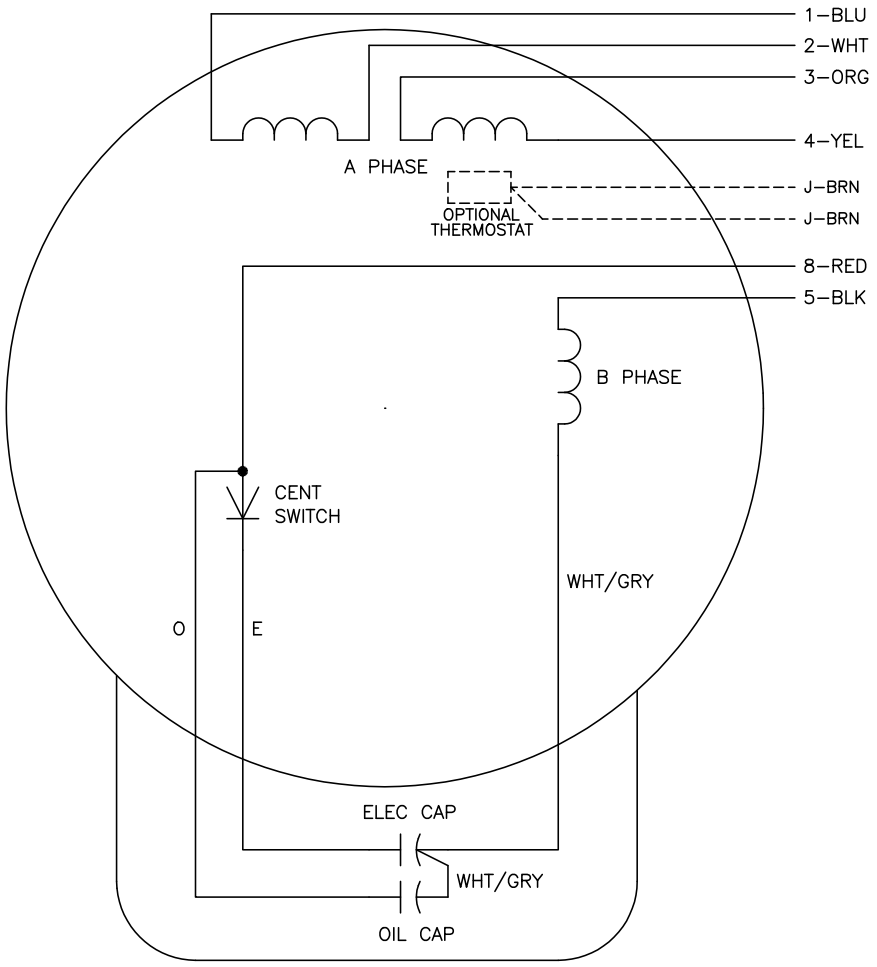
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=7.77 PU=6.11 LR=9.4 LRA=36.9




35LYF021
1.5-15 FT/LB = 5.60
20-25 FT/LB = 6.04
510-528 = 12.25
529-535 = 13.13
536-546 = 14.50
2.06
.13
1.88
BRAKE RELEASE LEVER
.19 KEY
1.38 LONG
Ø7.19
NAMEPLATE
Ø6.49
Ø 4.500
4.497
Ø .6250
.6245
2.78
Ø6.61
5.74
45°
45°
5.56
Ø .88
LEAD HOLE
4 HOLES
.38-16 TAP ON
Ø5.88 B.C.
4.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD INOPC CREATED SWD DRG INTO BUS - PACKAGE 15
REV: J
VERSION: 03
REVISED: 12:58:06 01/21/2019
TDR: 000001096905
MODEL NO. 35LYF021
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD VERT 56C TEFC 35L-LC W/ BRAKE
SH 1 of 1
35LYF021

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