ABB BALDOR RELIANCE

Customer information packet

EM3116T-5

1HP, 1774RPM, 3PH, 60HZ, 143T, 3522M, OPSB, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPSB
Frame	143T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	NEMA PREMIUM
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.300 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.3 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	M

Part Detail

Revision	F
Type	AC
Mech. spec.	35BB101
Base	
Status	PRD/A
Elec. spec.	35WGG119
Layout	35LYBB101
Eff. date	06-11-2024
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	01-10-2022

Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3522M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.62 IN
Power Factor	70
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1775 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

NP3553L											
CAT.NO.	EM3116T-5										
SPEC	35BB101G119G1										
HP	1										
VOLTS	575										
AMPS	1.3										
RPM	1775										
FRAME	143T		**HZ**	60			**PH**	3			
SF	1.15	**CODE**	M	**DES**	B	**CLASS**	F				
NEMA NOM. EFF	85.5	**PF**	70								
RATING	40C AMB-CONT										
CC	010A										
ENCL	OPSB	**SER**									
DE	6205		**ODE**	6203							
VPWM INVERTER READY		SFA 1.34									
CT30-60(2:1) VT3-60(20:1)											

Accessories

Part number	Description	Multiplier
35-8764	C FACE KIT	A8
35EP1604A01SP	D-FLANGE KIT	

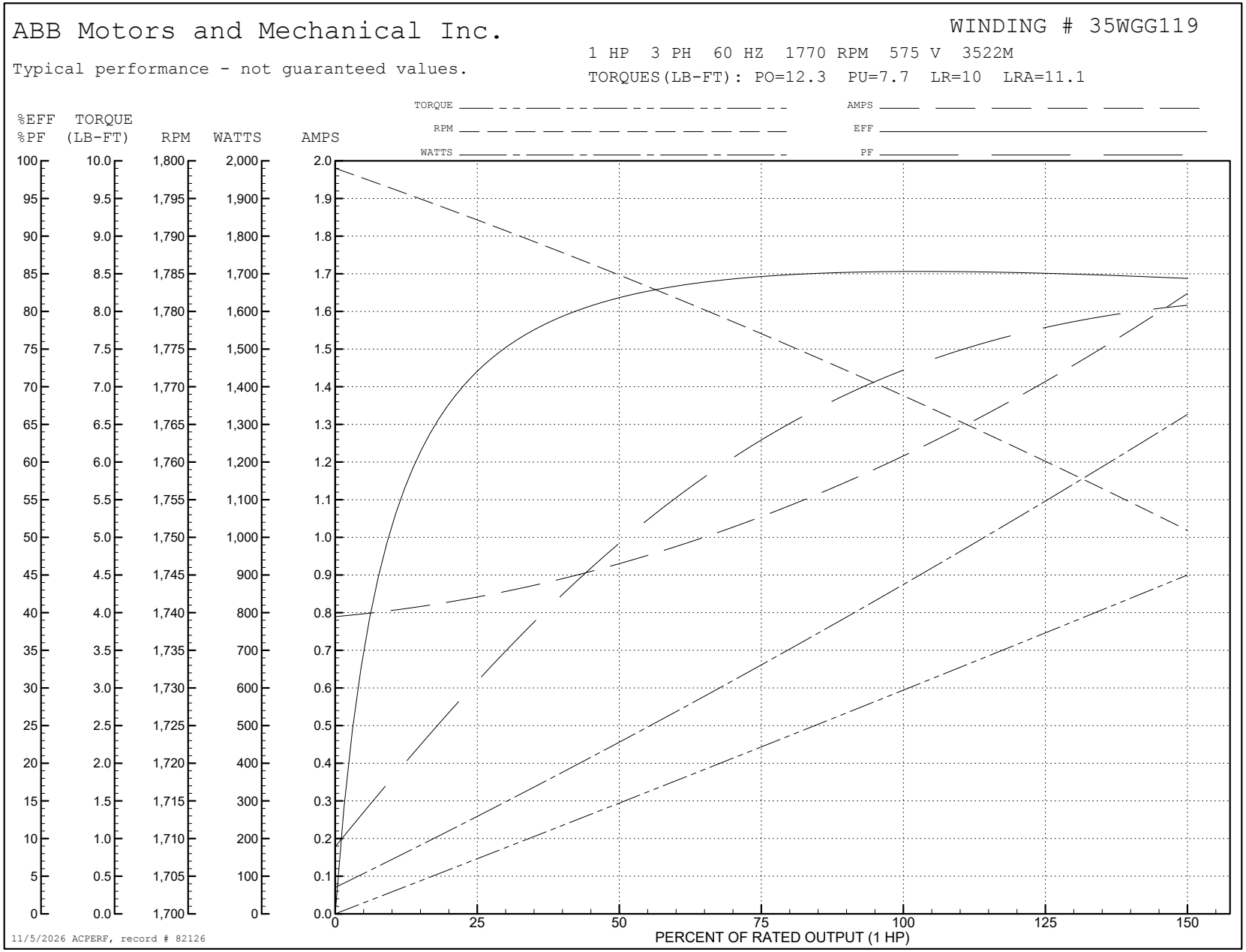
AC Induction Motor Performance Data
Record # 82126
Typical performance - not guaranteed values

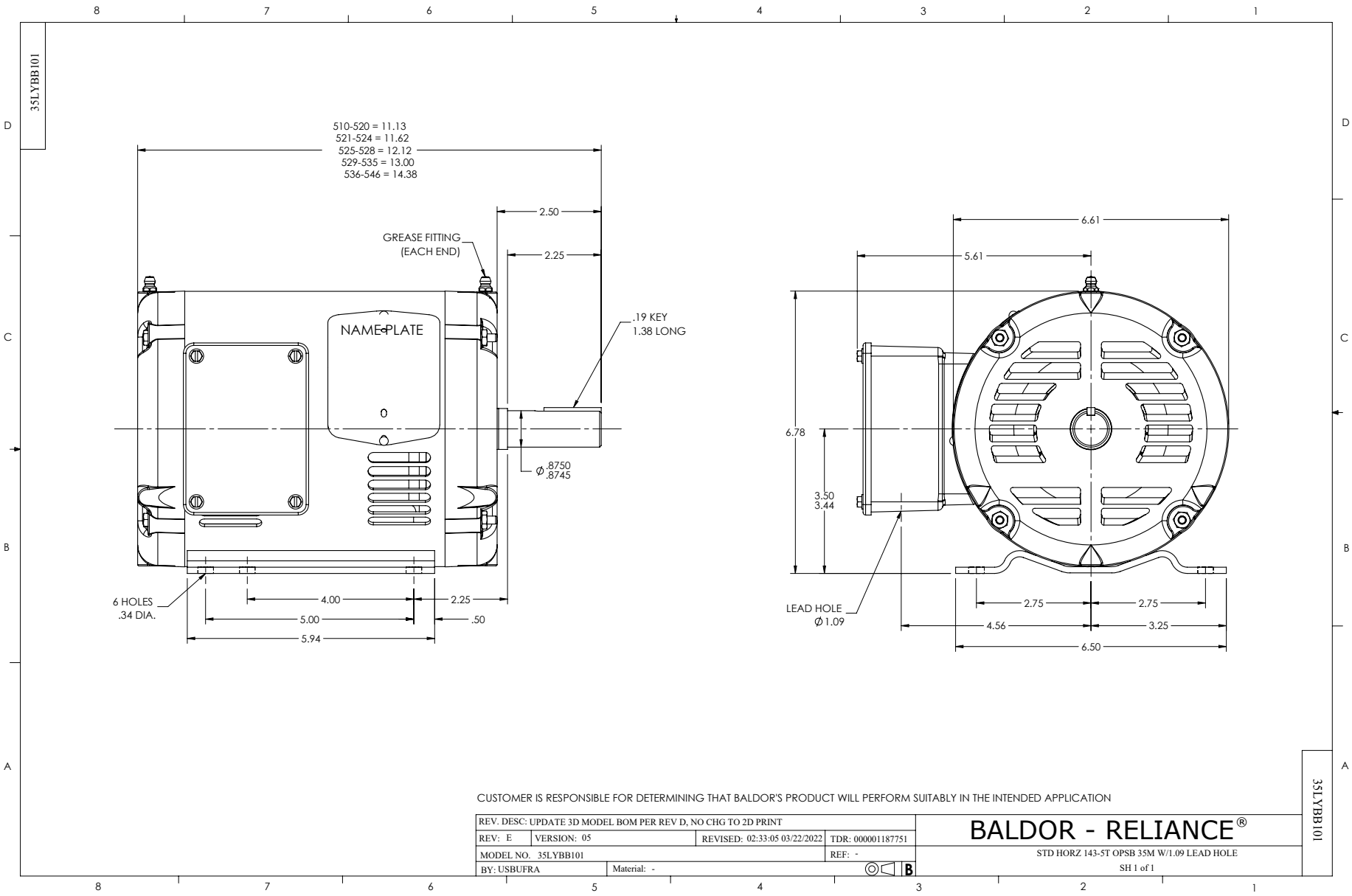
Winding: 35WGG119-R004	**Type:** 3522M	**Enclosure:** OPEN

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			1	**Full Load Torque**	2.95 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			1.2	**Breakdown Torque**	12.3 LB-FT
R.P.M.			1770	**Pull-up Torque**	7.7 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	10 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	11.1 A
Service Factor (S.F.)			1.15	**No-load Current**	0.8 A
NEMA Nom. Eff.	85.5	**Power Factor**	73	**Line-line Res. @ 25ºC**	30.8 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	31°C
S.F. Amps			1.3	**Temp. Rise @ S.F. Load**	36°C
				Locked-rotor Power Factor	62.7
				Rotor inertia	0.159 lb-ft²

Load Characteristics 575 V, 60 Hz, 1 HP

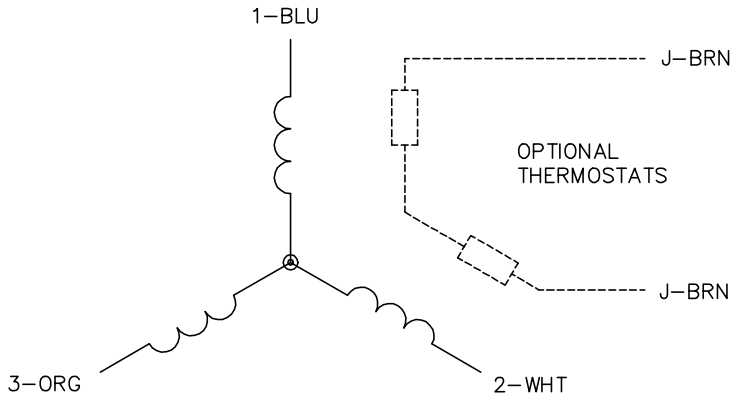
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	32	50	63	71	77	81	75
Efficiency	71.9	81.5	84.7	85.4	85	84.3	85.3
Speed	1792	1785	1777	1769	1760	1751	1767
Line amperes	0.83	0.92	1.06	1.22	1.42	1.64	1.34

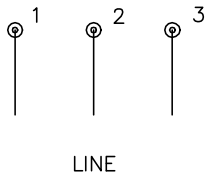

ABB Motors and Mechanical Inc.
WINDING # 35WGG119
1 HP 3 PH 60 HZ 1770 RPM 575 V 3522M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=12.3 PU=7.7 LR=10 LRA=11.1
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1 HP)
11/5/2026 ACPERF, record # 82126


35LYBB101
510-520 = 11.13
521-524 = 11.62
525-528 = 12.12
529-535 = 13.00
536-546 = 14.38
2.50
2.25
GREASE FITTING
(EACH END)
NAMEPLATE
.19 KEY
1.38 LONG
Ø.8750
.8745
6 HOLES
.34 DIA.
4.00
2.25
5.00
.50
5.94
6.61
5.61
6.78
3.50
3.44
LEAD HOLE
Ø1.09
2.75
2.75
4.56
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV D, NO CHG TO 2D PRINT
REV: E
VERSION: 05
REVISED: 02:33:05 03/22/2022
TDR: 000001187751
MODEL NO. 35LYBB101
REF: -
BY: USBUFRA
Material: -
B
BALDOR - RELIANCE®
STD HORZ 143-5T OPSB 35M W/1.09 LEAD HOLE
SH 1 of 1
35LYBB101

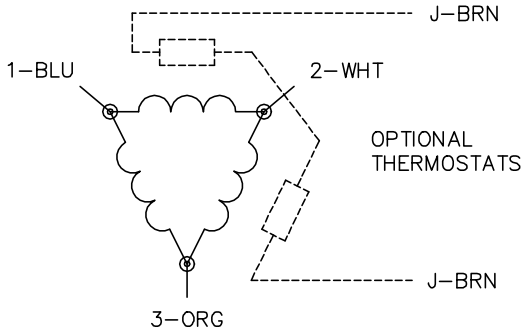
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1