Customer information packet

EM3556T-5

1HP, 1170RPM, 3PH, 60HZ, 145T, 3526M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	145T
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	1200 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	1.400 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.4 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J

Part Detail

Revision	D
Type	AC
Mech. spec.	35AA001
Base	
Status	PRD/A
Elec. spec.	35WGG117
Layout	35LYAA001
Eff. date	10-28-2025
CD Diagram	CD0006
Poles	06
Leads	3#18 Y
Proprietary	False
Created date	09-09-2022

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	3526M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	13.31 IN
Power Factor	65
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	1170 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

NP3441L									
CAT.NO.	EM3556T-5								
SPEC.	35AA001G117G1								
HP	1								
VOLTS	575								
AMP	1.4								
RPM	1170								
FRAME	145T	**HZ**	60		**PH**	3			
SER.F.	1.15	**CODE**	J	**DES**	B	**CL**	F		
NEMA-NOM-EFF	82.5	**PF**	65						
RATING	40C AMB-CONT								
CC	010A								
DE	6205	**ODE**	6203						
ENCL	TEFC	**SN**							
VPWM INVERTER READY									
CT6-60H(10:1)VT3-60H(20:1									
	SFA 1.5								

Parts List

Part number	Description	Quantity
SA407314	SA 35AA001G117G1	1.000 ea
RA398813	RA 35AA001G117G1	1.000 ea
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
35CB3009	35 CB W/1.09 DIA. LEAD HOLE @ 6:	1.000 ea
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
35EP3122A00	MASTER ODE,203 BRG,.683SH,#26 DRN,GRSR,F	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3123F00	MASTER DE,205 BRG,.998SH,#26 DRN,GRSR	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
35FH4005A84SP	IEC FH W/GRSR, NO DIMPLES PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
35CB4521GX	CONDUIT BOX LID KIT **ORDER INDIV PARTS	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.017 ga
HA3100A18	THRUBOLT 10-32 X 9.250	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0006	CONNECTION LABEL	1.000 ea
NP3441L	ALUM SUPER-E VPWM INVERTER READY UL EEV	1.000 ea
36PA1000	PKG GRP, PRINT PK1016A08	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

PE-0000001	ZRTG PE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data
Record # 82331
Typical performance - not guaranteed values

Winding: 35WGG117-R001	**Type:** 3526M	**Enclosure:** TEFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			1	**Full Load Torque**	4.48 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			1.34	**Breakdown Torque**	11.99 LB-FT
R.P.M.			1169	**Pull-up Torque**	7.12 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	8.69 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	7.31 A
Service Factor (S.F.)			1.15	**No-load Current**	0.825 A
NEMA Nom. Eff.	82.5	**Power Factor**	67	**Line-line Res. @ 25ºC**	32.9 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	46°C
S.F. Amps				**Temp. Rise @ S.F. Load**	56°C
				Locked-rotor Power Factor	48.5
				Rotor inertia	0.189 lb-ft²

Load Characteristics 575 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	29	47	59	67	72	75	70
Efficiency	73.4	81.8	83.4	83.1	81.6	79.1	82.2
Speed	1193	1186	1178	1169	1159	1147	1163
Line amperes	0.865	0.976	1.13	1.34	1.59	1.88	1.49

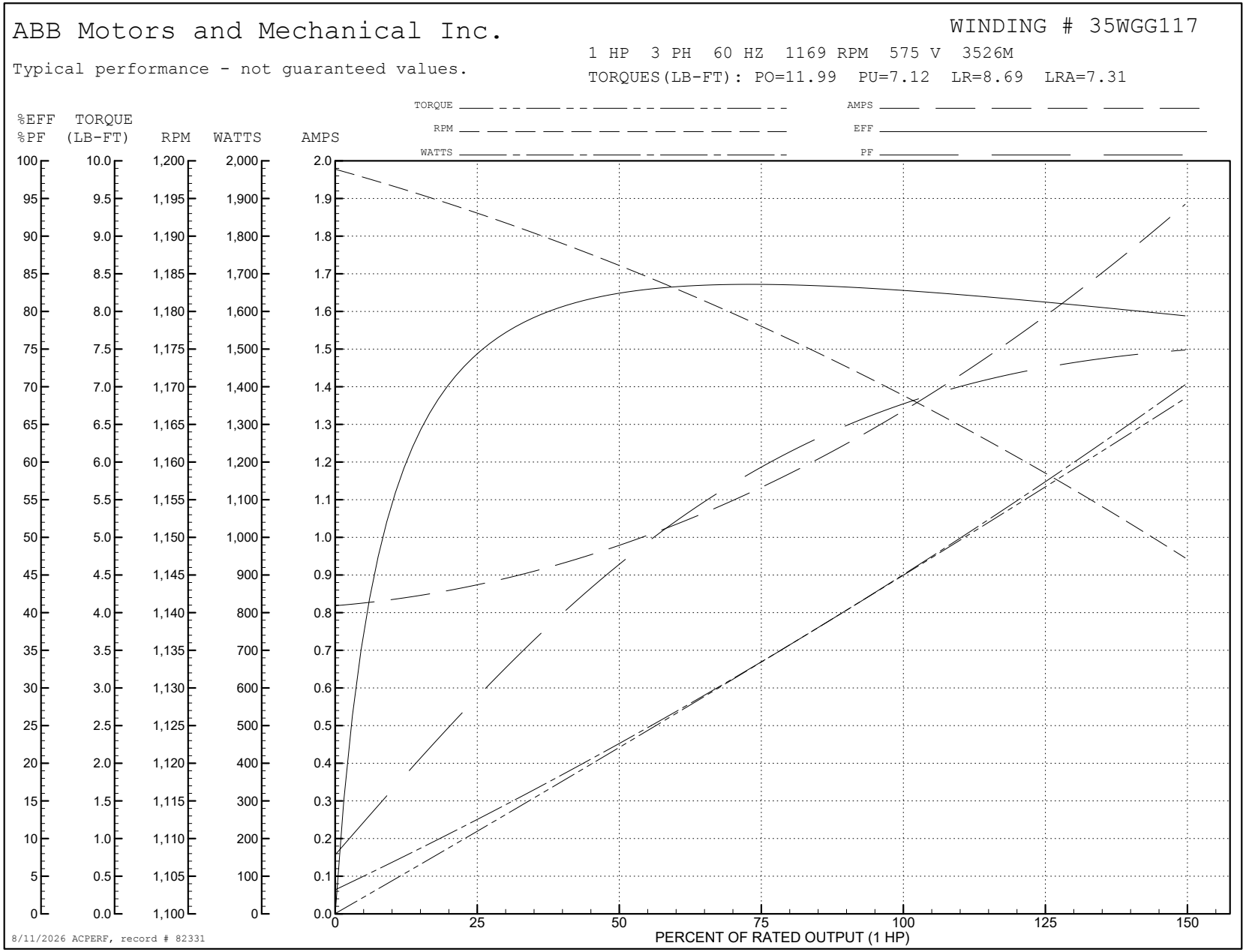


ABB Motors and Mechanical Inc.
WINDING # 35WGG117
1 HP 3 PH 60 HZ 1169 RPM 575 V 3526M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=11.99 PU=7.12 LR=8.69 LRA=7.31
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1 HP)
8/11/2026 ACPERF, record # 82331

AC Induction Motor Performance Data
Record # 95152
Typical performance - not guaranteed values

Winding: 35WGG117-R006	**Type:** 3526M	**Enclosure:** OPAO

Nameplate Data			
Rated Output (HP)			1 AIR OVER
Volts			575//480
Full Load Amps			1.35//1.55
R.P.M.			1170//960
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	82.5	**Power Factor**	67
Rating - Duty			40C AMB-CONT
S.F. Amps			1.5//1.75

575 V, 60 Hz: Single Voltage Motor	
Full Load Torque	4.48 LB-FT
Start Configuration	direct on line
Breakdown Torque	12 LB-FT
Pull-up Torque	7.1 LB-FT
Locked-rotor Torque	8.7 LB-FT
Starting Current	7.3 A
No-load Current	0.825 A
Line-line Res. @ 25ºC	32.9 Ω
Temp. Rise @ Rated Load	46°C
Temp. Rise @ S.F. Load	56°C
Locked-rotor Power Factor	48.5
Rotor inertia	0.189 lb-ft²

Load Characteristics 575 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	29	47	59	67	72	75	70
Efficiency	73.4	81.8	83.4	83.1	81.6	79.1	82.2
Speed	1193	1186	1178	1169	1159	1147	1163
Line amperes	0.865	0.976	1.13	1.34	1.59	1.88	1.49

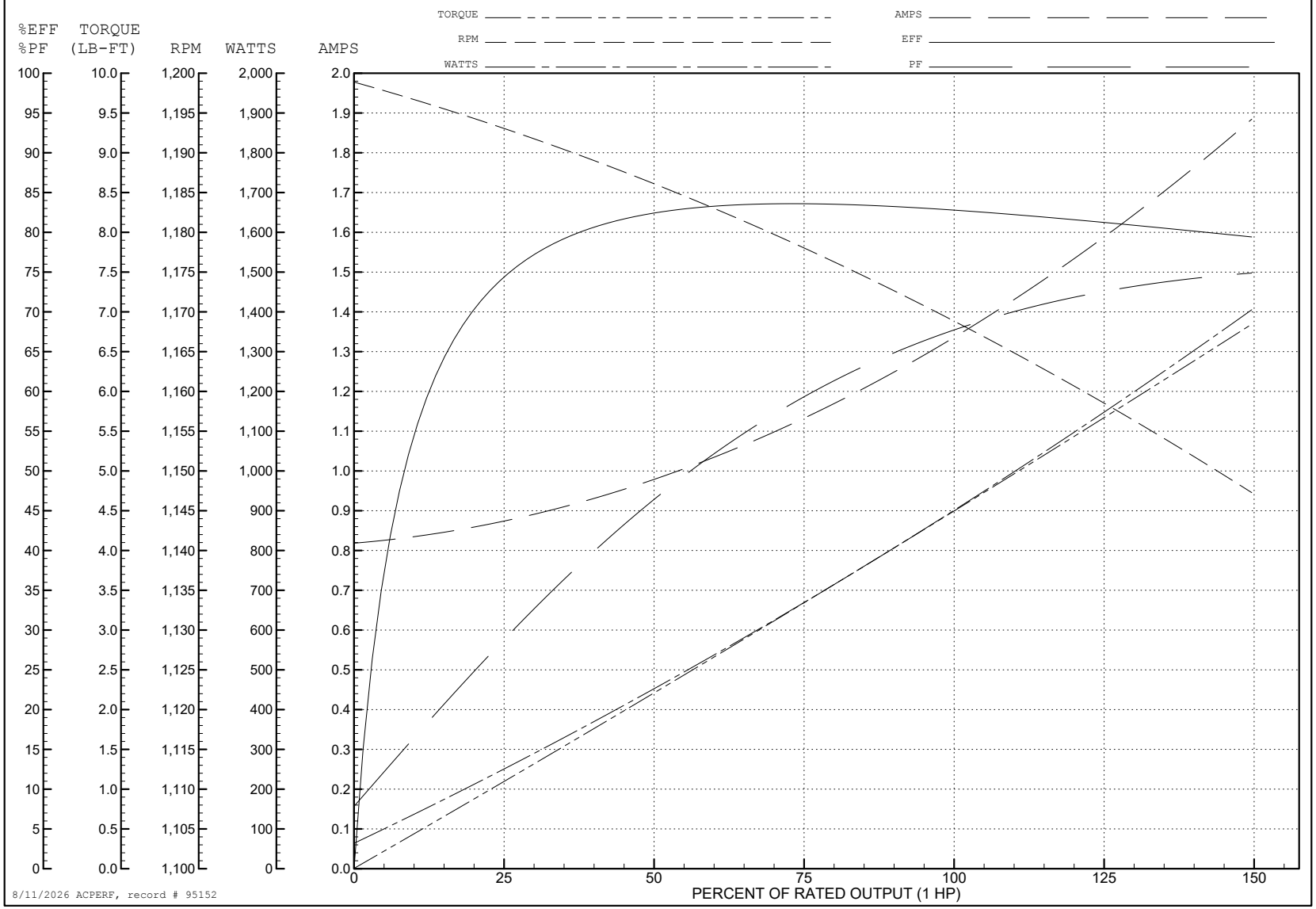
ABB Motors and Mechanical Inc.

WINDING # 35WGG117

1 HP 3 PH 60 HZ 1169 RPM 575 V 3526M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=12 PU=7.1 LR=8.7 LRA=7.3



AC Induction Motor Performance Data
Record # 95154
Typical performance - not guaranteed values

Winding: 35WGG117-R006	**Type:** 3526M	**Enclosure:** OPAO

Nameplate Data			
Rated Output (HP)			1 AIR OVER
Volts			575//480
Full Load Amps			1.35//1.55
R.P.M.			1170//960
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	82.5	**Power Factor**	67
Rating - Duty			40C AMB-CONT
S.F. Amps			1.5//1.75

480 V, 50 Hz: Single Voltage Motor	
Full Load Torque	5.44 LB-FT
Start Configuration	direct on line
Breakdown Torque	11.4 LB-FT
Pull-up Torque	7.2 LB-FT
Locked-rotor Torque	8.8 LB-FT
Starting Current	7 A
No-load Current	0.826 A
Line-line Res. @ 25ºC	32.9 Ω
Temp. Rise @ Rated Load	62°C
Temp. Rise @ S.F. Load	79°C
Locked-rotor Power Factor	53.9
Rotor inertia	0.189 lb-ft²

Load Characteristics 480 V, 50 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	34	53	65	72	76	77	74
Efficiency	74.5	81.8	82	80.5	77.5	72.9	78.7
Speed	992	983	974	962	949	930	954
Line amperes	0.879	1.03	1.25	1.54	1.91	2.38	1.76

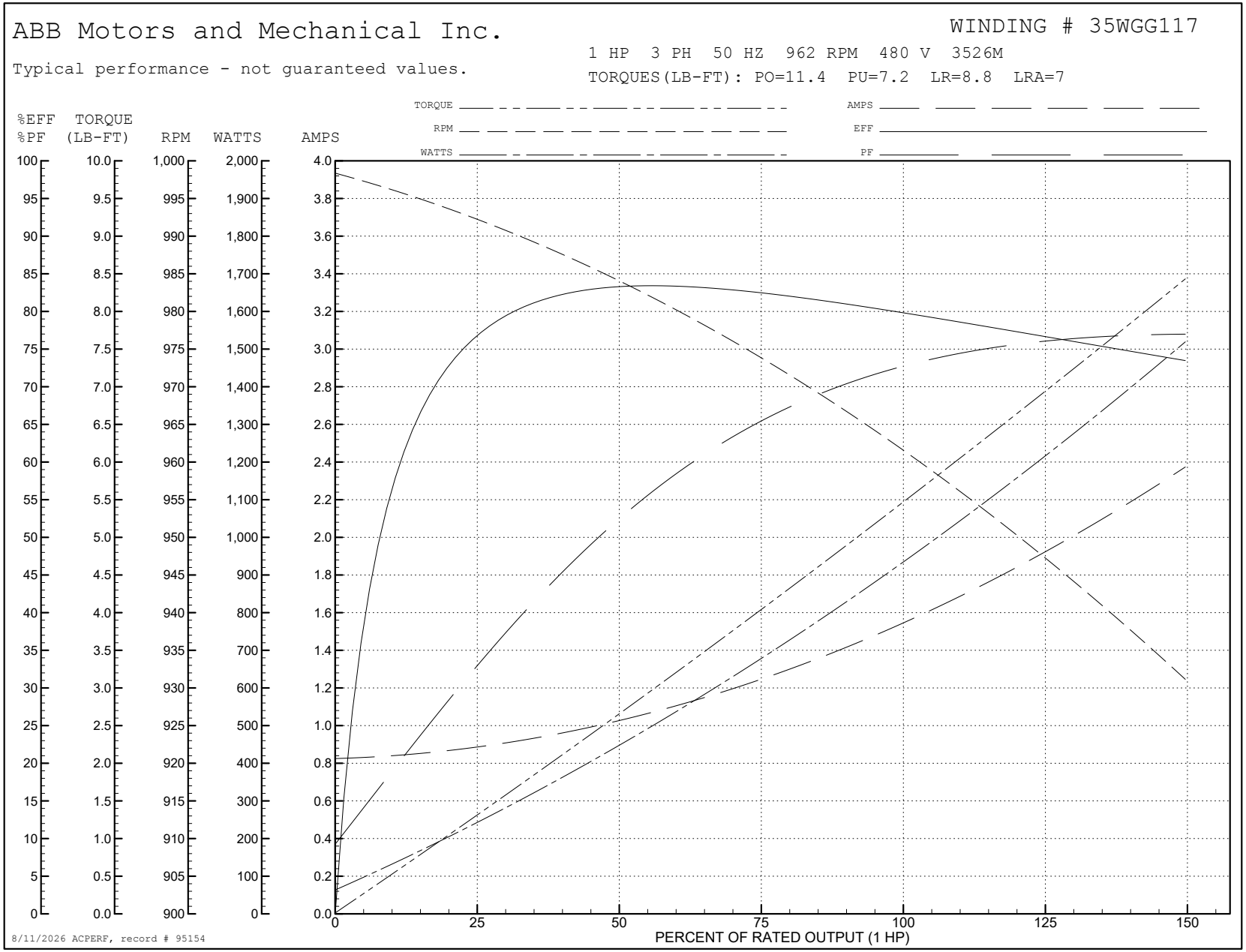
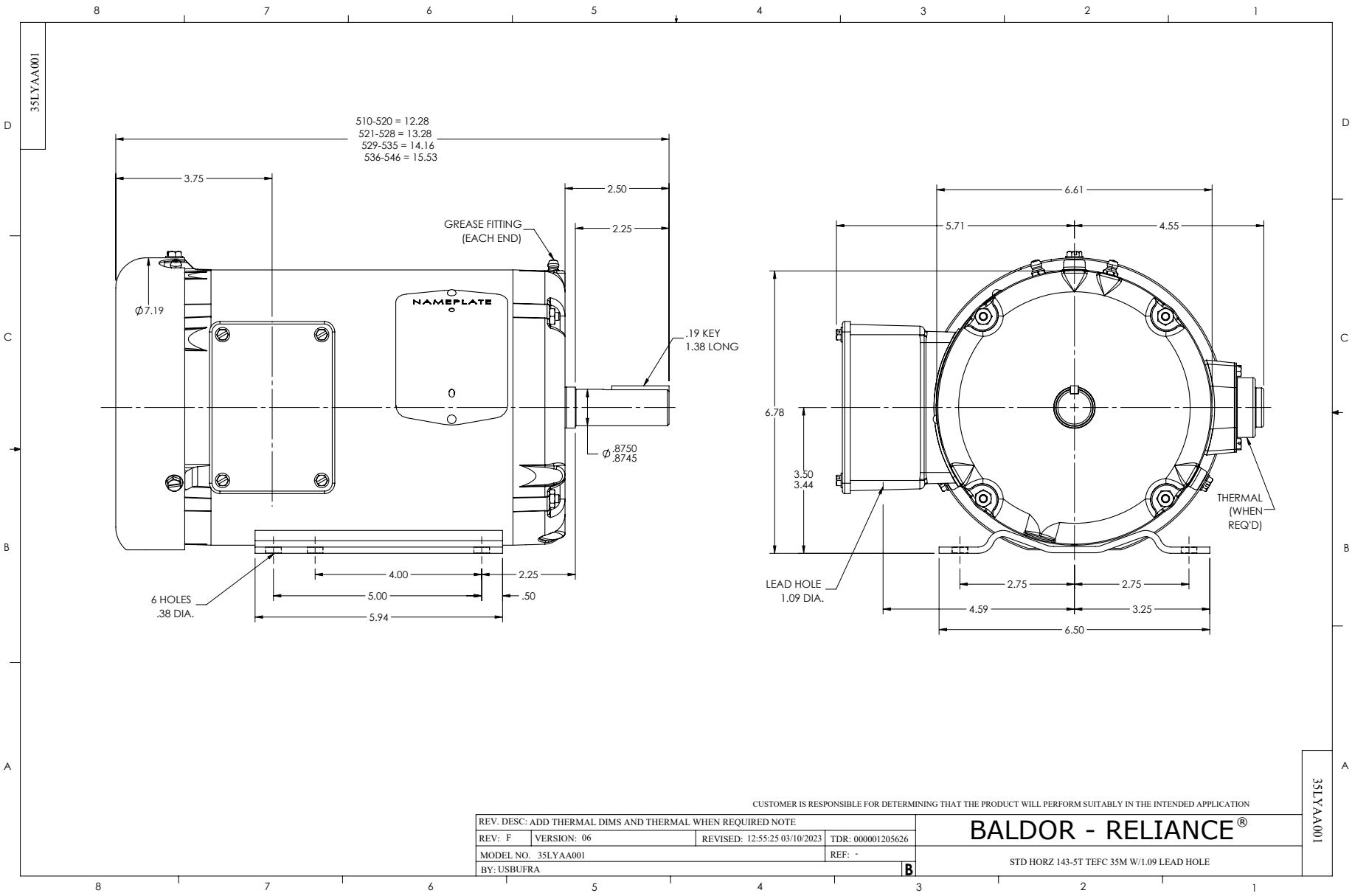
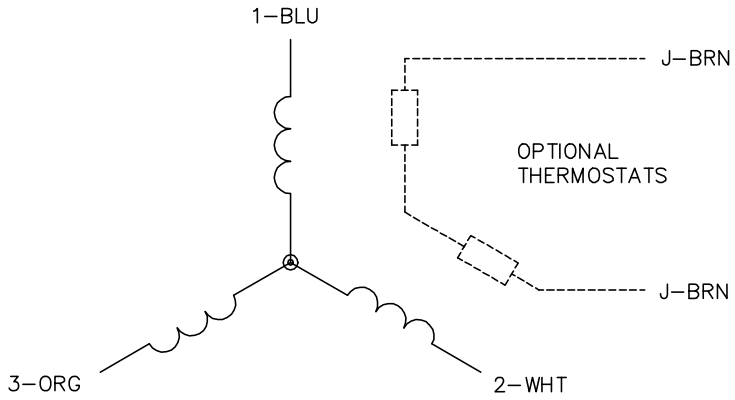


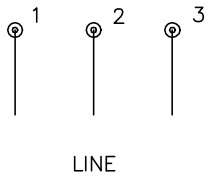
ABB Motors and Mechanical Inc.
WINDING # 35WGG117
Typical performance - not guaranteed values.
1 HP 3 PH 50 HZ 962 RPM 480 V 3526M
TORQUES(LB-FT): PO=11.4 PU=7.2 LR=8.8 LRA=7
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1 HP)
8/11/2026 ACPERF, record # 95154


35LYAA001
510-520 = 12.28
521-528 = 13.28
529-535 = 14.16
536-546 = 15.53
3.75
2.50
2.25
GREASE FITTING
(EACH END)
NAMEPLATE
Ø7.19
.19 KEY
1.38 LONG
Ø .8750
.8745
4.00
2.25
5.00
.50
5.94
6 HOLES
.38 DIA.
6.61
5.71
4.55
6.78
3.50
3.44
THERMAL
(WHEN
REQ'D)
LEAD HOLE
1.09 DIA.
2.75
2.75
4.59
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD THERMAL DIMS AND THERMAL WHEN REQUIRED NOTE
REV: F
VERSION: 06
REVISED: 12:55:25 03/10/2023
TDR: 000001205626
MODEL NO. 35LYAA001
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ 143-5T TEFC 35M W/1.09 LEAD HOLE
35LYAA001

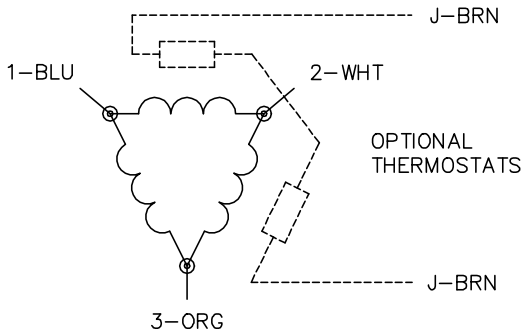
CD0006

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