

ABB BALDOR RELIANCE III

Customer information packet

EM3556T-5

1HP, 1170RPM, 3PH, 60HZ, 145T, 3526M, TEFC, F1

Class - None

Division - Not Applicable

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								

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. @ 25°C	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

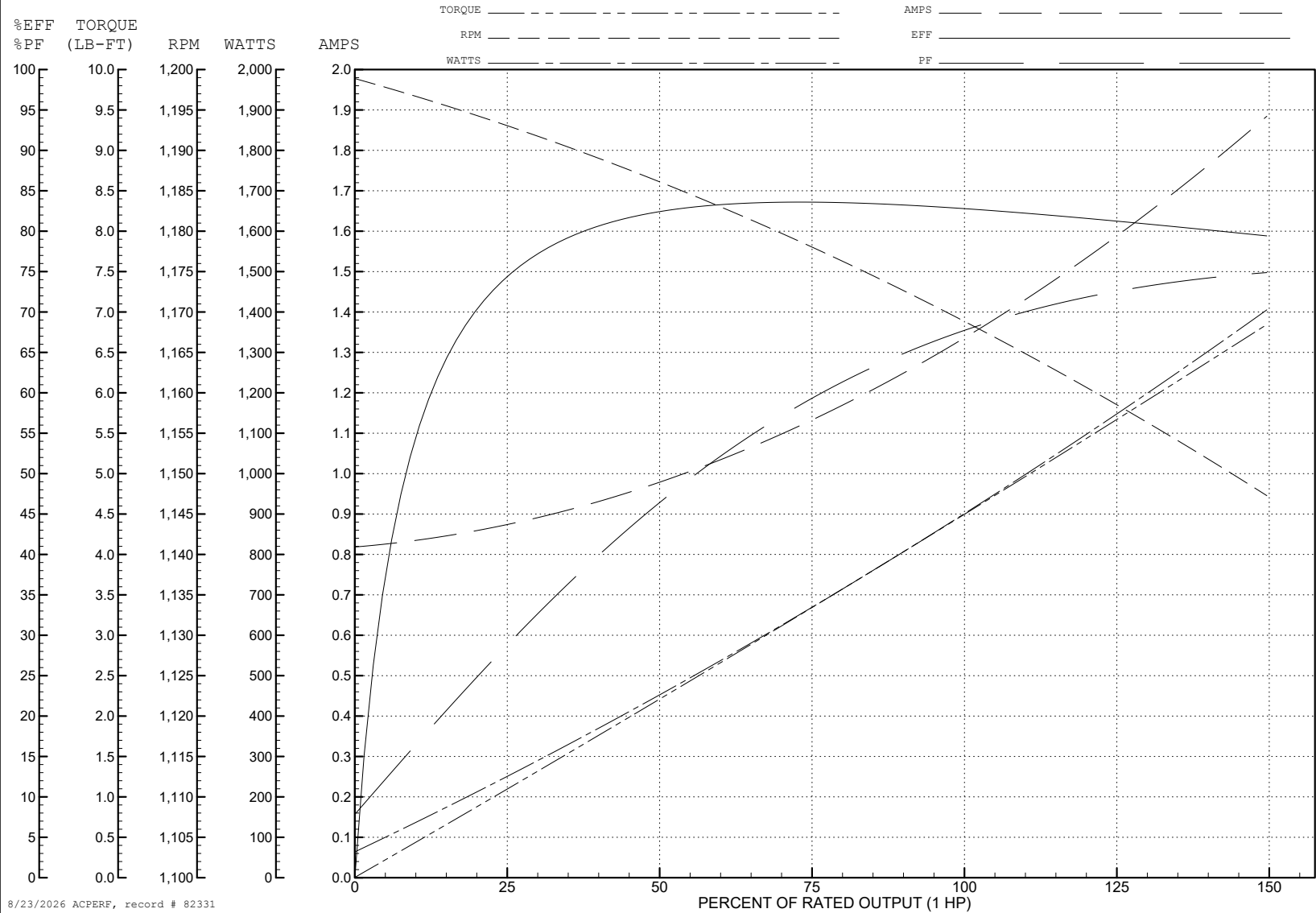
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WINDING # 35WGG117

Typical performance - not guaranteed values.

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

TORQUES (LB-FT): PO=11.99 PU=7.12 LR=8.69 LRA=7.31



AC Induction Motor Performance Data

Record # 95152

Typical performance - not guaranteed values

Winding: 35WGG117-R006				Type: 3526M		Enclosure: OPAO		
Nameplate Data				575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		1 AIR OVER		Full Load Torque		4.48 LB-FT		
Volts		575//480		Start Configuration		direct on line		
Full Load Amps		1.35//1.55		Breakdown Torque		12 LB-FT		
R.P.M.		1170//960		Pull-up Torque		7.1 LB-FT		
Hz	60//50	Phase	3	Locked-rotor Torque		8.7 LB-FT		
NEMA Design Code		B		KVA Code	J		Starting Current	7.3 A
Service Factor (S.F.)		1.15		No-load Current		0.825 A		
NEMA Nom. Eff.		82.5		Power Factor	67		Line-line Res. @ 25°C	32.9 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		46°C		
S.F. Amps		1.5//1.75		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

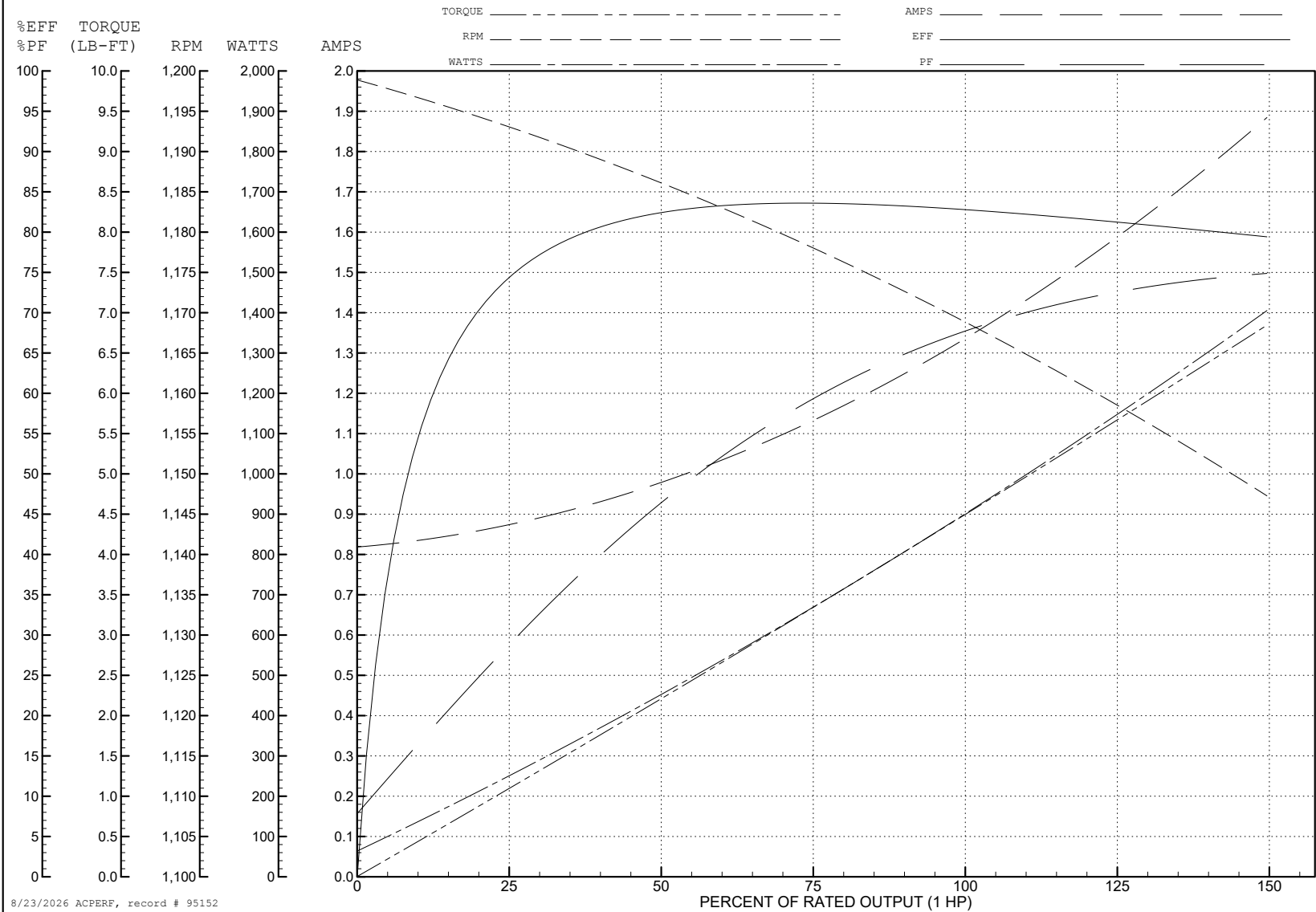
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WINDING # 35WGG117

Typical performance - not guaranteed values.

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

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				480 V, 50 Hz: Single Voltage Motor				
Rated Output (HP)		1 AIR OVER		Full Load Torque		5.44 LB-FT		
Volts		575//480		Start Configuration		direct on line		
Full Load Amps		1.35//1.55		Breakdown Torque		11.4 LB-FT		
R.P.M.		1170//960		Pull-up Torque		7.2 LB-FT		
Hz	60//50	Phase	3	Locked-rotor Torque		8.8 LB-FT		
NEMA Design Code		B		KVA Code	J		Starting Current	7 A
Service Factor (S.F.)		1.15		No-load Current		0.826 A		
NEMA Nom. Eff.		82.5		Power Factor	67		Line-line Res. @ 25°C	32.9 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		62°C		
S.F. Amps		1.5//1.75		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

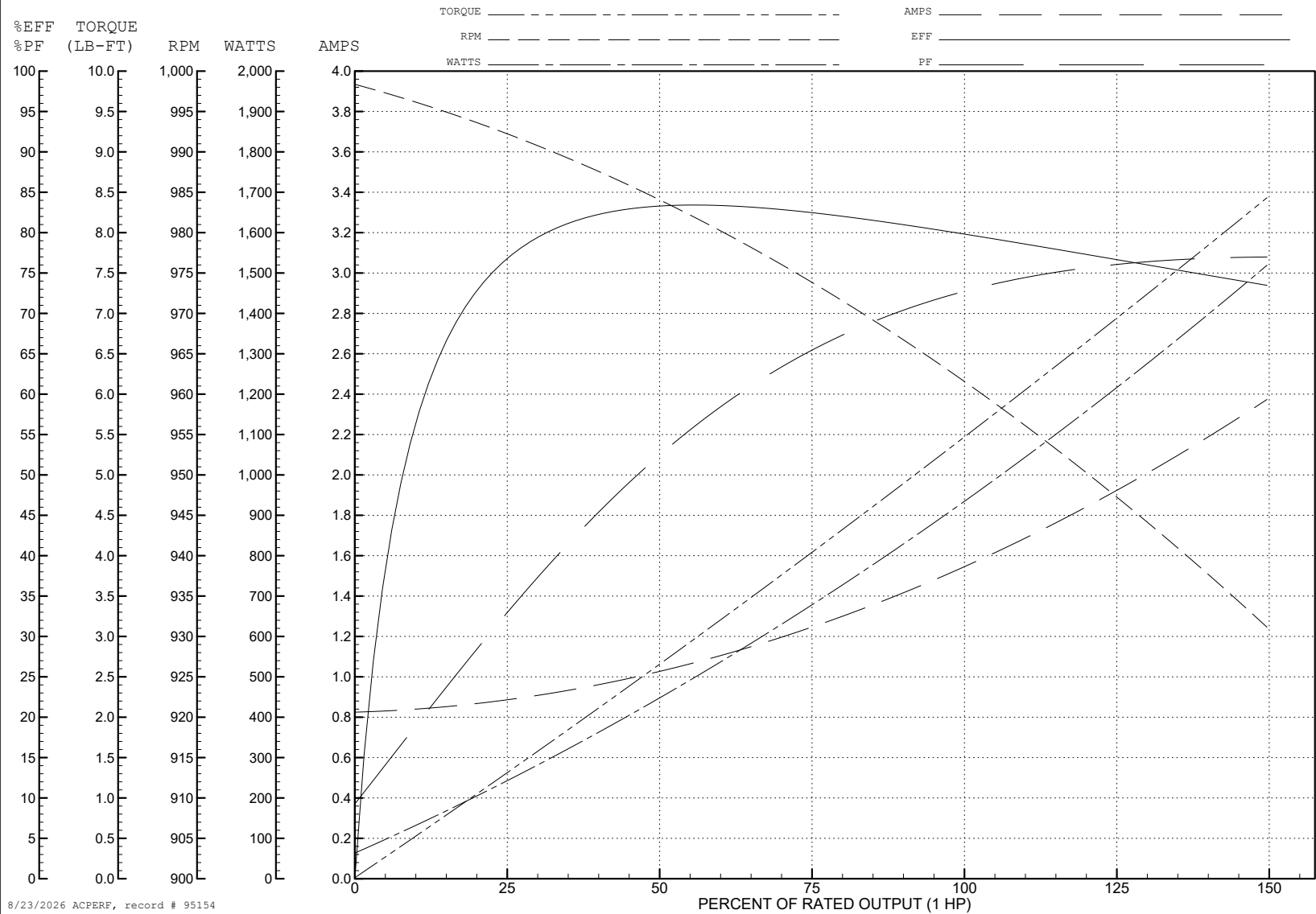
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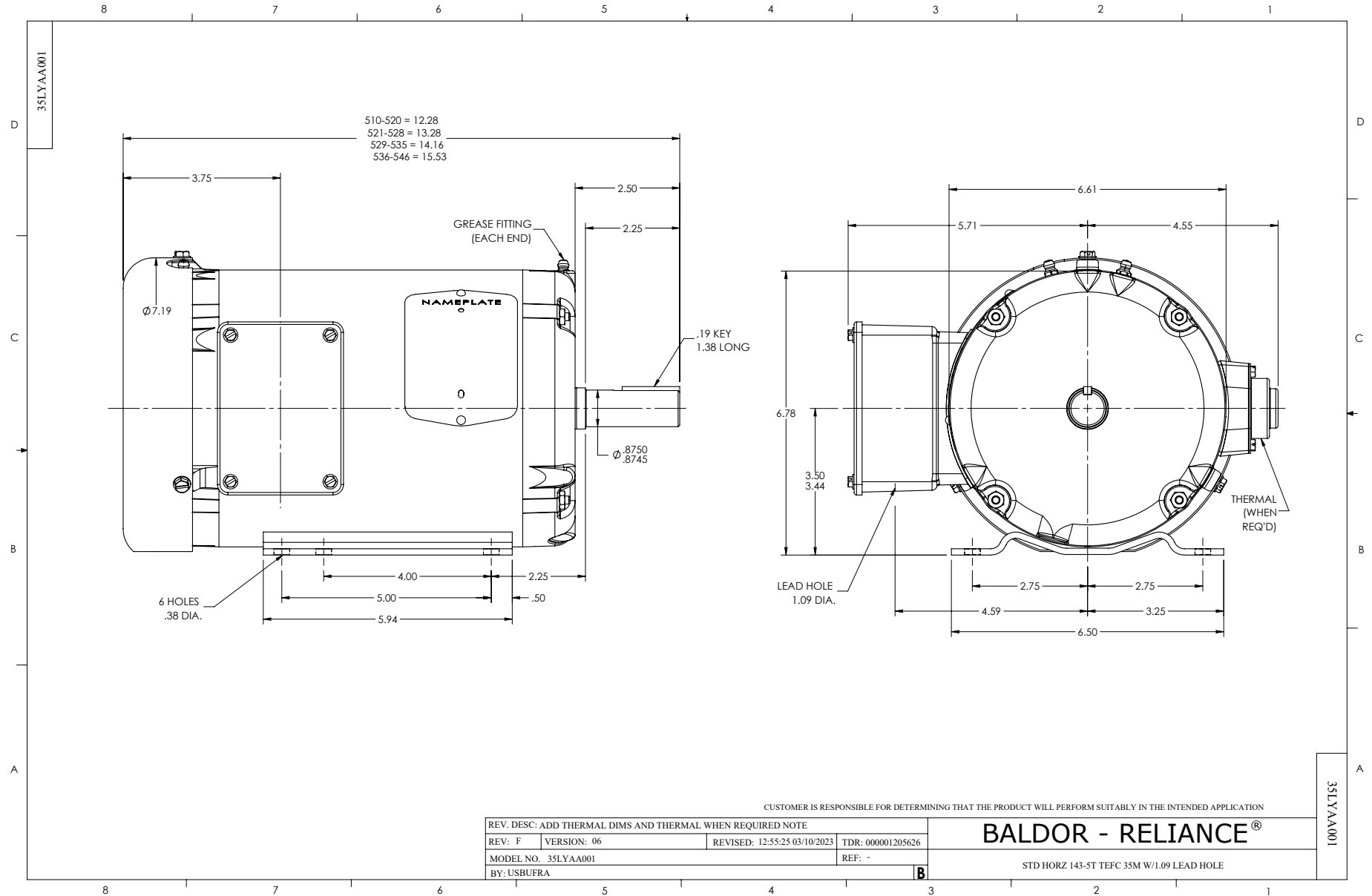
WINDING # 35WGG117

Typical performance - not guaranteed values.

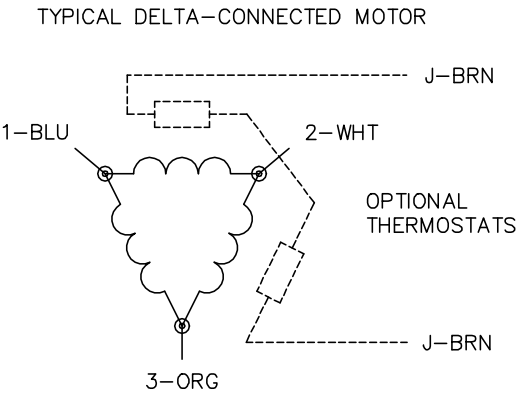
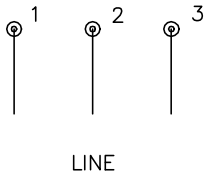
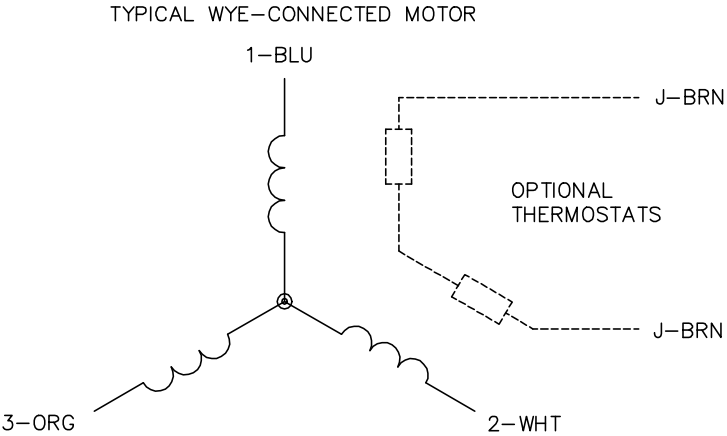
1 HP 3 PH 50 HZ 962 RPM 480 V 3526M

TORQUES (LB-FT): PO=11.4 PU=7.2 LR=8.8 LRA=7





CD0006



- 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: ENBRIRO
MTL: —		

BALDOR - RELIANCE®

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

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