

ABB BALDOR RELIANCE III

Customer information packet

M1704T

1/.5HP, 1760/860RPM, 3PH, 60HZ, 143T, 3530M, T

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
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 .500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UR CSA
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	1.280 A @ 460.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
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	Not Inverter
KVA Code	K

Part Detail

Revision	E
Type	AC
Mech. spec.	35AA001
Base	
Status	PRD/A
Elec. spec.	35WGG369
Layout	35LYAA001
Eff. date	10-28-2025
CD Diagram	CD0011
Poles	04/08
Leads	6#18
Proprietary	False
Created date	02-23-2023

Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3530M
Mounting Arrangement	F1
Number of Poles	4 8
Overall Length	14.19 IN
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	1760 rpm 860 rpm
Speed Code	2S-1W-CT
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.	M1704T								
SPEC.	35AA001G369								
HP	1/.5								
VOLTS	460								
AMP	1.3/1.7								
RPM	1760/860								
FRAME	143T		HZ	60			PH	3	
SER.F.	1.15	CODE	K	DES	-	CLASS	F		
NEMA-NOM-EFF		PF							
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6203					
ENCL	TEFC	SN							
	SFA 1.46								

Parts List

Part number	Description	Quantity
SA414915	SA 35AA001G369	1.000 ea
RA406684	RA 35AA001G369	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
HA3100A22	THRUBOLT 10-32 X 10.125	4.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.017 ga
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0032	CONNECTION LABEL	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	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

Accessories

Part number	Description	Multiplier
35-8762	C FACE KIT	A8
35EP1506A01SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data

Record # 87906

Typical performance - not guaranteed values

Winding: 35WGG369-R001			Type: 3530M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Speed Connection			
Rated Output (HP)		1/.5		Full Load Torque		3.04 LB-FT	
Volts		460		Start Configuration		direct on line	
Full Load Amps		1.28/1.55		Breakdown Torque		10.3 LB-FT	
R.P.M.		1760/860		Pull-up Torque		4.82 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		6.54 LB-FT	
NEMA Design Code		- KVA Code		Starting Current		10.08 A	
Service Factor (S.F.)		1.15		No-load Current		0.571 A	
NEMA Nom. Eff.		0	Power Factor	0	Line-line Res. @ 25°C		29.1 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		22°C	
S.F. Amps				Temp. Rise @ S.F. Load		28°C	
				Locked-rotor Power Factor		78.6	
				Rotor inertia		0.217 lb-ft²	

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	72	85	89	90	91	90
Efficiency	81.8	84.3	84.1	84.2	82.8	80.1	83.4
Speed	1793	1782	1772	1762	1749	1737	1754
Line amperes	0.642	0.801	1.03	1.28	1.58	1.9	1.46

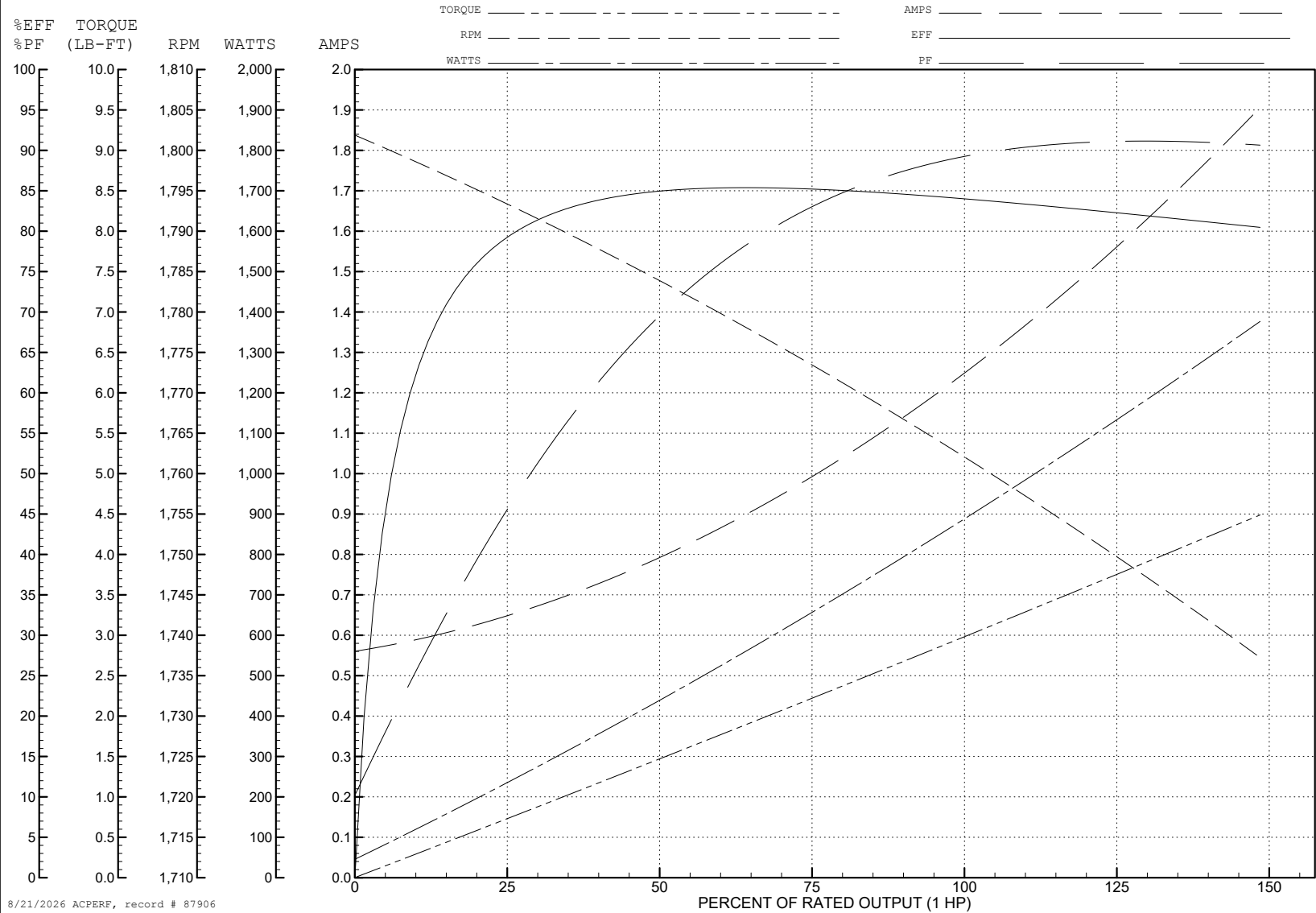
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WINDING # 35WGG369

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1762 RPM 460 V 3530M

TORQUES (LB-FT): PO=10.3 PU=4.82 LR=6.54 LRA=10.08



AC Induction Motor Performance Data

Record # 87907

Typical performance - not guaranteed values

Winding: 35WGG369-R001			Type: 3530M		Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: Low Speed Connection					
Rated Output (HP)		1/.5	Full Load Torque		2.99 LB-FT			
Volts		460	Start Configuration		direct on line			
Full Load Amps		1.28/1.55	Breakdown Torque		13.6 LB-FT			
R.P.M.		1760/860	Pull-up Torque		11.56 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		9.11 LB-FT		
NEMA Design Code		-	KVA Code	K	Starting Current		6.96 A	
Service Factor (S.F.)		1.15	No-load Current		1.7 A			
NEMA Nom. Eff.		0	Power Factor		0	Line-line Res. @ 25°C		39.8 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load			
				Locked-rotor Power Factor			78.6	
				Rotor inertia			0.217 lb-ft ²	

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	23	30	37	44	50	56	48
Efficiency	30.6	46.3	55.5	61.2	64.7	66.9	63.3
Speed	894.8	890.4	885.7	880.8	875.5	869.8	878
Line amperes	1.69	1.7	1.72	1.75	1.8	1.87	1.78

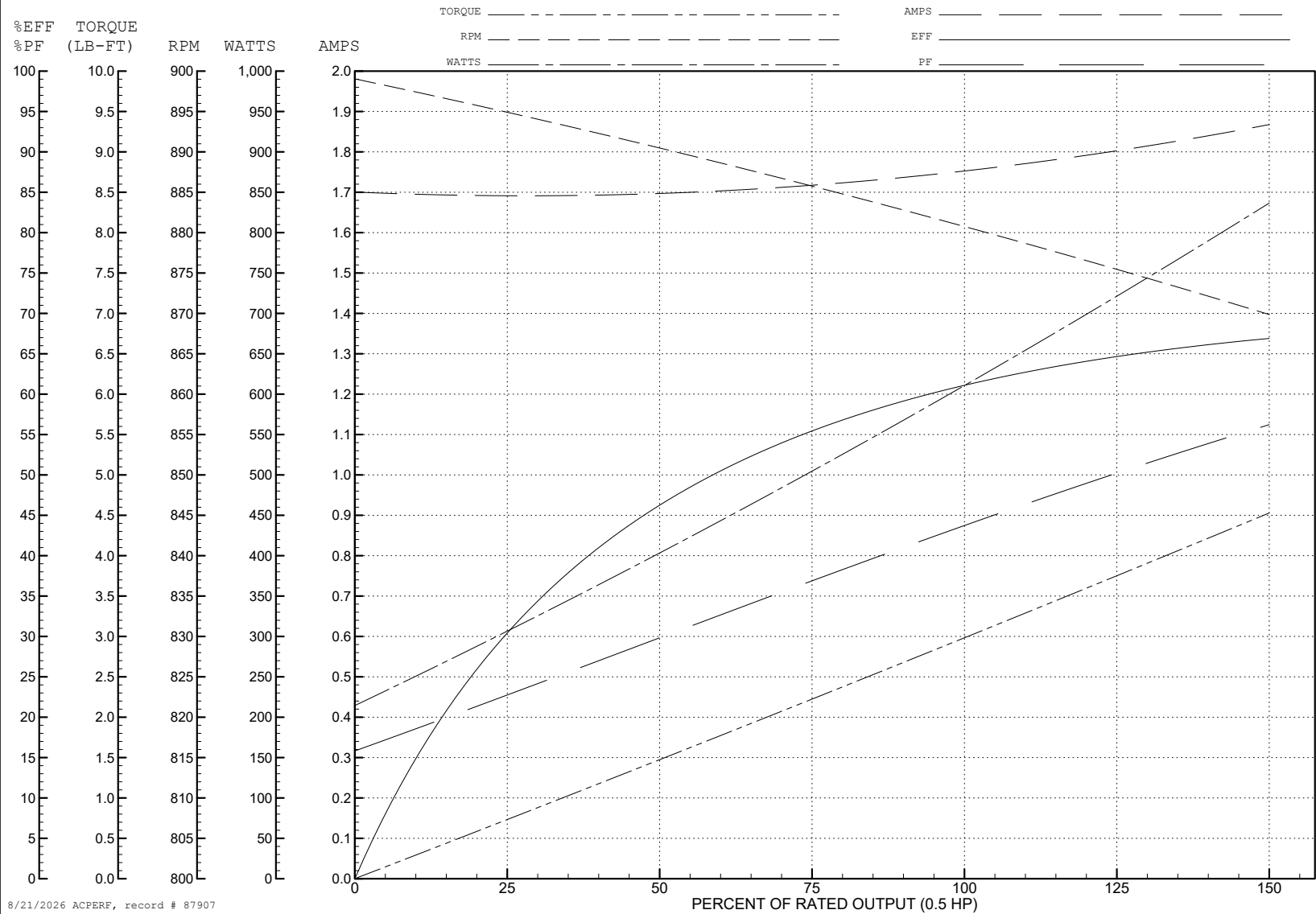
ABB Motors and Mechanical Inc.

WINDING # 35WGG369

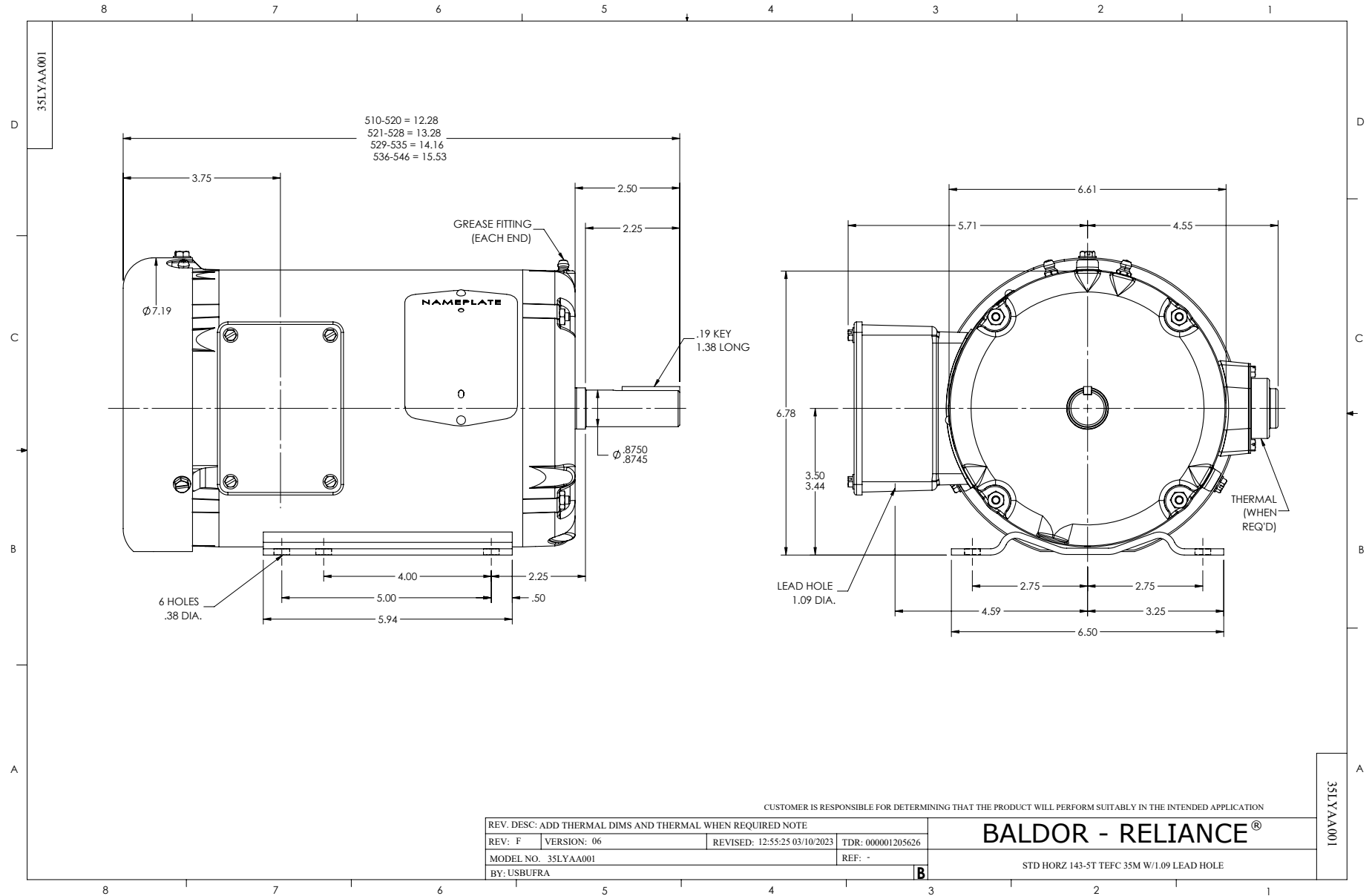
Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 880.8 RPM 460 V 3530M

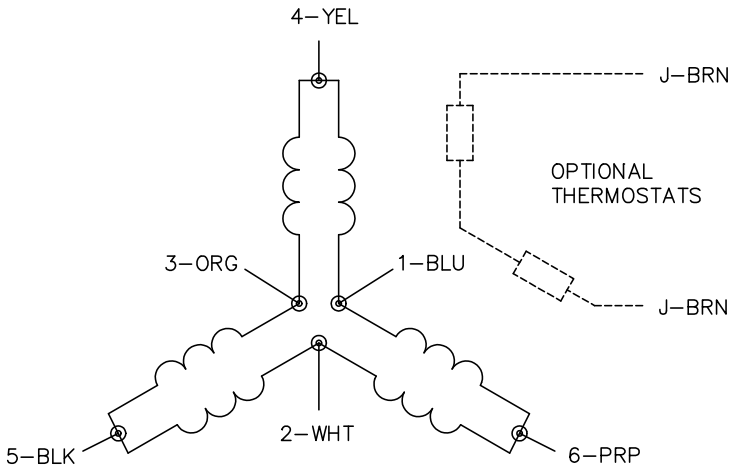
TORQUES (LB-FT): PO=13.6 PU=11.56 LR=9.11 LRA=6.96



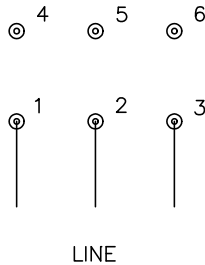
8/21/2026 ACPERF, record # 87907



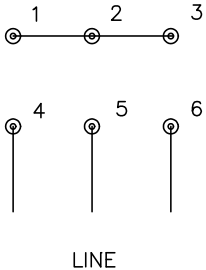
CD0011



LOW SPEED
(1D)



HIGH SPEED
(2Y)



- NOTES:
- 1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 - 2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
 - 3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
 - 4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: F	BY: JLP	REVISED: 01/21/99 5:04	TDR: 0171435
110000		FILE: DWG\142.wg	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, SV, 6 LEADS, 2-SPEED 1-WINDING CONSTANT TORQUE

CD0011