

ABB BALDOR RELIANCE III

Customer information packet

M1705T

1.5/.75HP, 1745/870RPM, 3PH, 60HZ, 145T, 3534

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	1.500 HP @ 60 HZ .750 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	2.100 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	2.1 a
Insulation Class	H
Inverter Code	Not Inverter
KVA Code	J

Part Detail

Revision	F
Type	AC
Mech. spec.	35AA001
Base	
Status	PRD/A
Elec. spec.	35WGG367
Layout	35LYAA001
Eff. date	10-28-2025
CD Diagram	CD0011
Poles	04/08
Leads	6#18 Y
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	3534M
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	1745 rpm 870 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.	M1705T								
SPEC.	35AA001G367G1								
HP	1.5/.75								
VOLTS	460								
AMP	2.1/2.2								
RPM	1725/865								
FRAME	145T		HZ	60			PH	3	
SER.F.	1.15	CODE	H	DES	-	CLASS	H		
NEMA-NOM-EFF		PF							
RATING	40C AMB-CONT								
CC									
DE	6205		ODE	6203					
ENCL	TEFC	SN							
	SFA 2.36								

Accessories

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

AC Induction Motor Performance Data

Record # 87902

Typical performance - not guaranteed values

Winding: 35WGG367-R001			Type: 3534M		Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: High Speed Connection					
Rated Output (HP)		1.5/.75	Full Load Torque		4.55 LB-FT			
Volts		460	Start Configuration		direct on line			
Full Load Amps		2.1/2.2	Breakdown Torque		11.9 LB-FT			
R.P.M.		1725/865	Pull-up Torque		7.7 LB-FT			
Hz		60	Phase		3	Locked-rotor Torque	8.5 LB-FT	
NEMA Design Code		- KVA Code		H	Starting Current		12 A	
Service Factor (S.F.)		1.15		No-load Current		0.85 A		
NEMA Nom. Eff.		0	Power Factor		0	Line-line Res. @ 25°C		20.3 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		57°C		
S.F. Amps				Temp. Rise @ S.F. Load		72°C		
				Locked-rotor Power Factor		75.4		
				Rotor inertia		0.246 lb-ft²		

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	49	70	82	85	88	90	85
Efficiency	77.9	82.8	81.8	79	75.3	71.7	79
Speed	1782	1763	1740	1716	1686	1654	1735
Line amperes	0.95	1.24	1.59	2.08	2.56	3.08	2.36

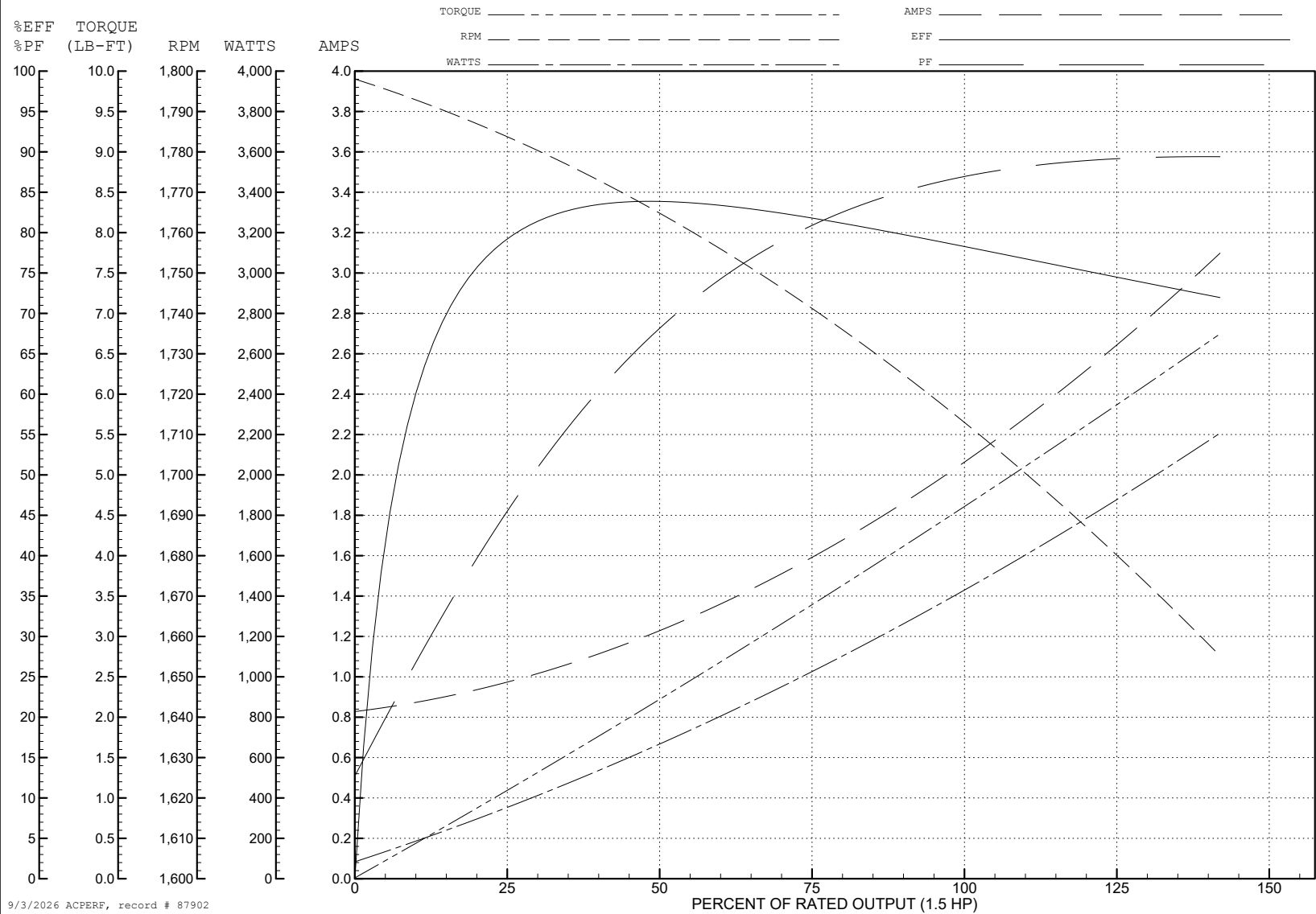
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WINDING # 35WGG367

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 1716 RPM 460 V 3534M

TORQUES (LB-FT): PO=11.9 PU=7.7 LR=8.5 LRA=12



AC Induction Motor Performance Data

Record # 87903

Typical performance - not guaranteed values

Winding: 35WGG367-R001			Type: 3534M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: Low Speed Connection			
Rated Output (HP)		1.5/.75	Full Load Torque		4.47 LB-FT	
Volts		460	Start Configuration		direct on line	
Full Load Amps		2.1/2.2	Breakdown Torque		15.2 LB-FT	
R.P.M.		1725/865	Pull-up Torque		10.4 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		10.6 LB-FT	
NEMA Design Code		- KVA Code	Starting Current		8.3 A	
Service Factor (S.F.)		1.15	No-load Current		2.06 A	
NEMA Nom. Eff.		0 Power Factor	Line-line Res. @ 25°C		27.8 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		94°C	
S.F. Amps			Temp. Rise @ S.F. Load		104°C	
			Locked-rotor Power Factor		70.1	
			Rotor inertia		0.246 lb-ft²	

Load Characteristics 460 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	24	33	42	50	57	63	54
Efficiency	36.3	52.8	59.3	62.5	63.5	63.6	63.1
Speed	892	885	877	867	858	847	862
Line amperes	2.06	2.06	2.11	2.21	2.35	2.5	2.29

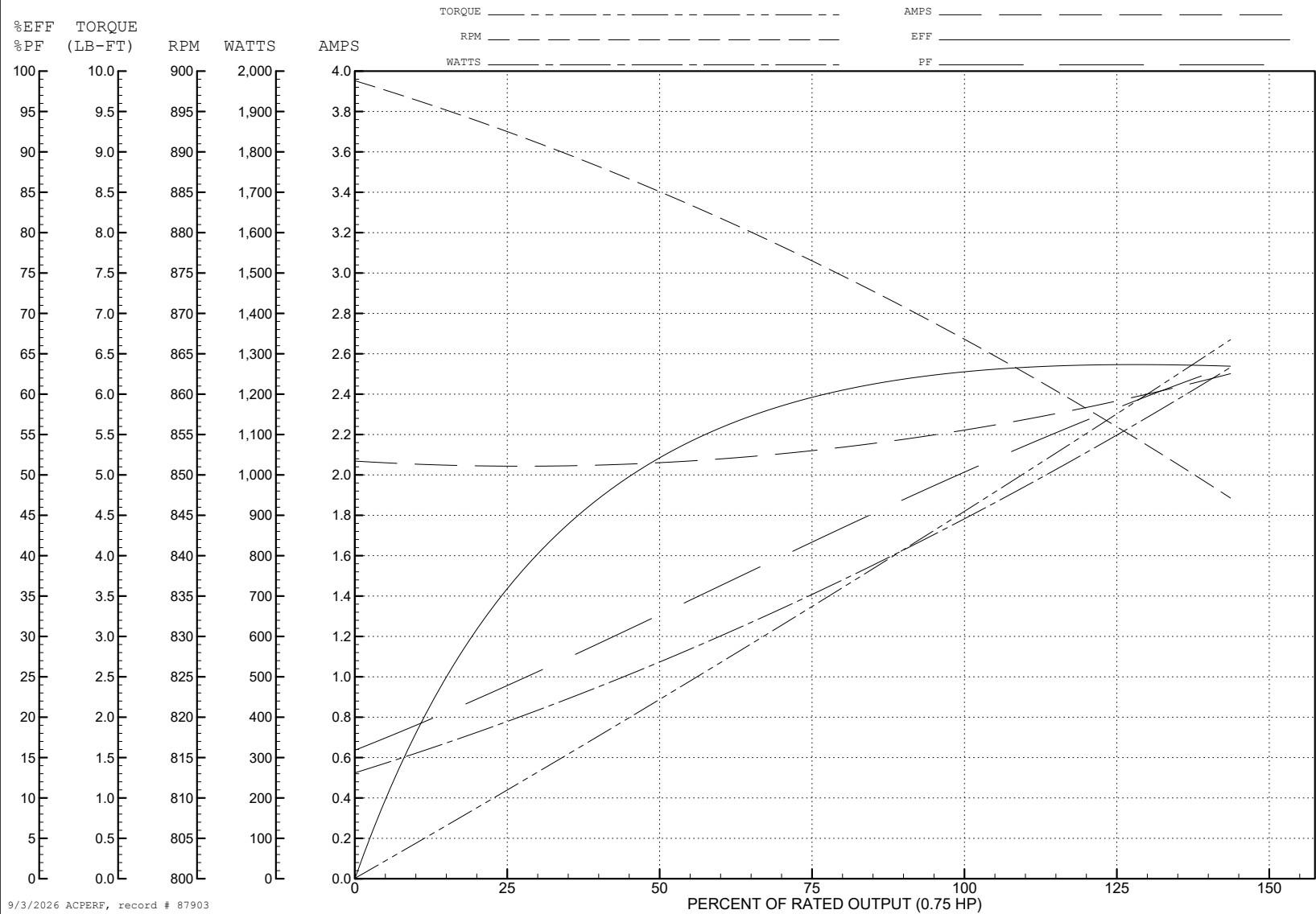
ABB Motors and Mechanical Inc.

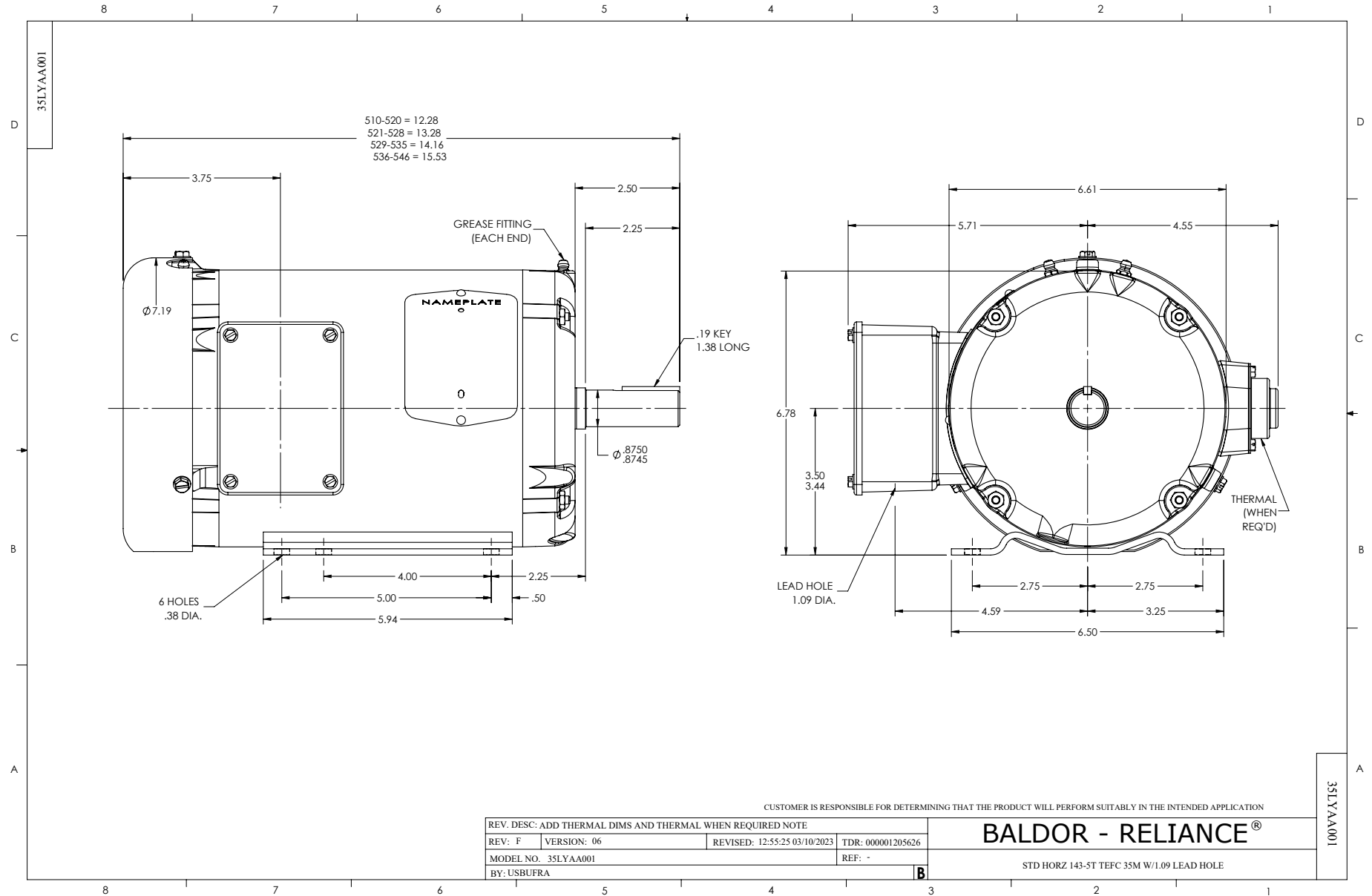
WINDING # 35WGG367

Typical performance - not guaranteed values.

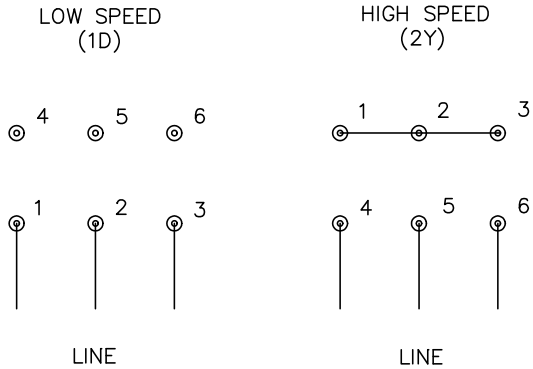
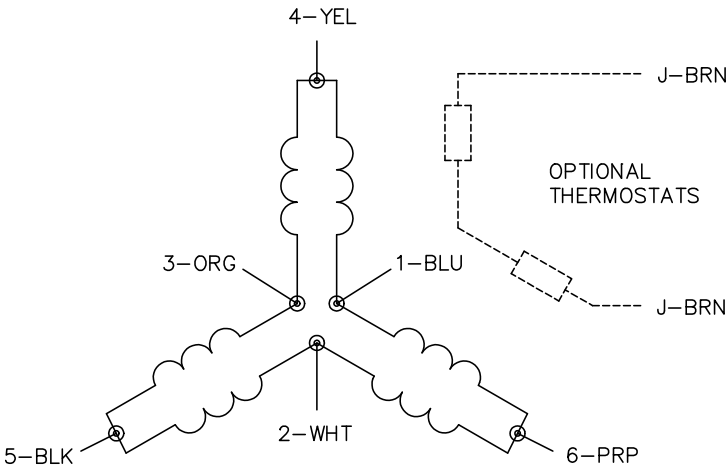
0.75 HP 3 PH 60 HZ 867 RPM 460 V 3534M

TORQUES (LB-FT): PO=15.2 PU=10.4 LR=10.6 LRA=8.3





CD0011



- 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