

ABB BALDOR RELIANCE III

Customer information packet

M1204T

1/.25HP, 1720/860RPM, 3PH, 60HZ, 143T, 3520M

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
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 .250 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	1.520 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	0.8 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J

Part Detail

Revision	C
Type	AC
Mech. spec.	35BB001
Base	
Status	PRD/A
Elec. spec.	35WGG361
Layout	35LYBB001
Eff. date	07-02-2024
CD Diagram	CD0032
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	3520M
Mounting Arrangement	F1
Number of Poles	4 8
Overall Length	11.13 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	1720 rpm 860 rpm
Speed Code	2S-1W-VT
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.	M1204T										
SPEC.	35BB001G361										
HP	1/.25										
VOLTS	460										
AMP	1.52/.77										
RPM	1720/860										
FRAME	143T		HZ	60			PH	3			
SER.F.	1.15		CODE	J	DES	-	CLASS	F			
NEMA-NOM-EFF			PF								
RATING	40C AMB-CONT										
CC											
DE	6205		ODE	6203							
ENCL	OPEN	SN									
	SFA 1.75										

Accessories

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

AC Induction Motor Performance Data

Record # 87863

Typical performance - not guaranteed values

Winding: 35WGG361-R001			Type: 3520M		Enclosure: OPEN	
Nameplate Data			460 V, 60 Hz: High Speed Connection			
Rated Output (HP)		1/.25	Full Load Torque		2.97 LB-FT	
Volts		460	Start Configuration		direct on line	
Full Load Amps		1.52/.77	Breakdown Torque		9.37 LB-FT	
R.P.M.		1720/860	Pull-up Torque		7.48 LB-FT	
Hz		60	Phase		3	
NEMA Design Code			- KVA Code		J	
Service Factor (S.F.)		1.15	No-load Current		0.893 A	
NEMA Nom. Eff.		0	Power Factor		0	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps			Temp. Rise @ S.F. Load		33°C	
			Locked-rotor Power Factor		83.1	
			Rotor inertia		0.144 lb-ft²	

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	51	65	77	78	79	78
Efficiency	71.6	78.3	79.4	78.1	75.5	72.7	76.5
Speed	1780	1762	1742	1719	1695	1668	1705
Line amperes	0.983	1.17	1.34	1.52	1.9	2.27	1.75

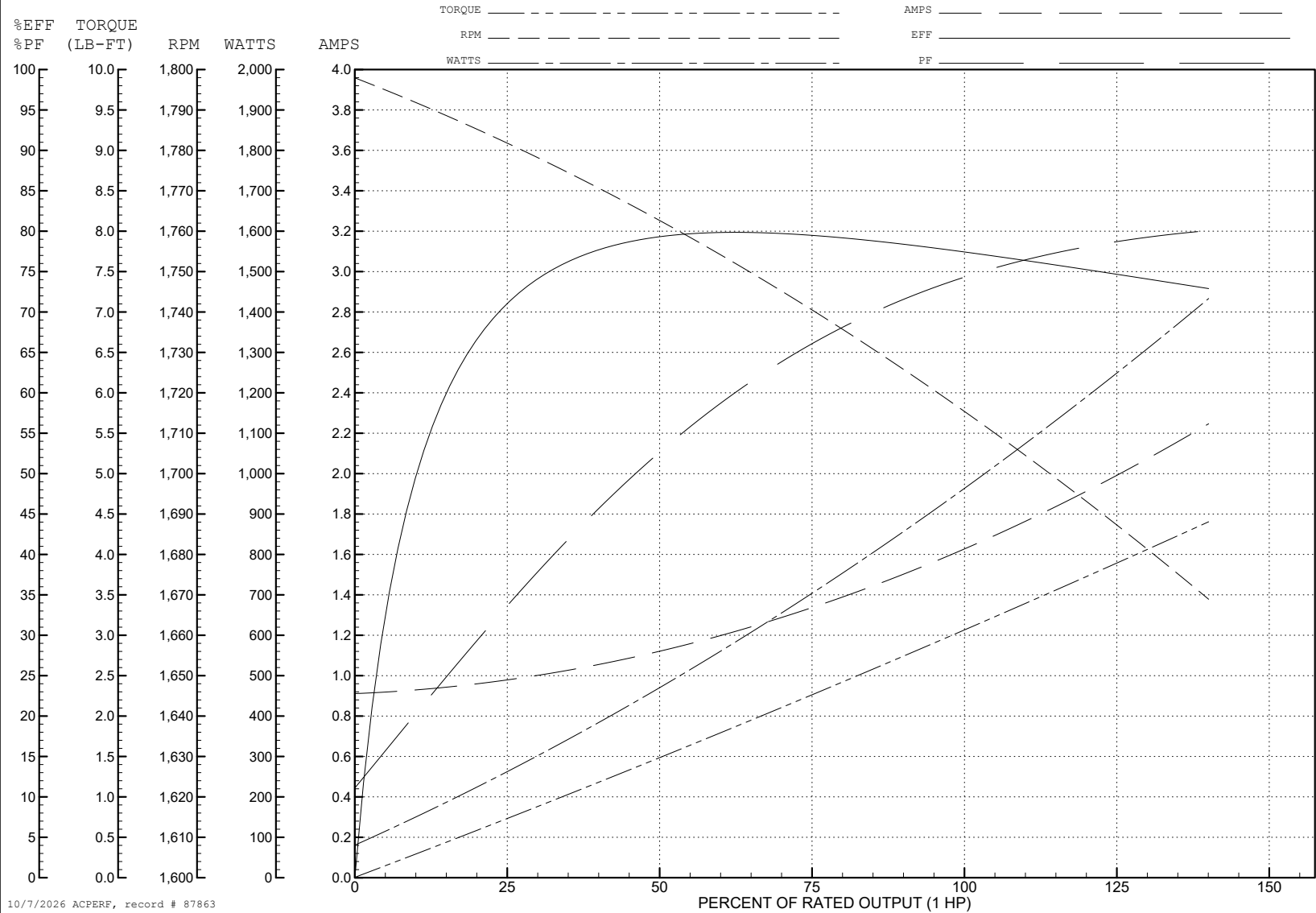
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WINDING # 35WGG361

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1719 RPM 460 V 3520M

TORQUES (LB-FT) : PO=9.37 PU=7.48 LR=7.98 LRA=9.28



AC Induction Motor Performance Data

Record # 87864

Typical performance - not guaranteed values

Winding: 35WGG361-R001			Type: 3520M		Enclosure: OPEN			
Nameplate Data			460 V, 60 Hz: Low Speed Connection					
Rated Output (HP)		1/.25	Full Load Torque		1.52 LB-FT			
Volts		460	Start Configuration		direct on line			
Full Load Amps		1.52/.77	Breakdown Torque		4.87 LB-FT			
R.P.M.		1720/860	Pull-up Torque		2.55 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		3.56 LB-FT		
NEMA Design Code		-	KVA Code	J	Starting Current		2.44 A	
Service Factor (S.F.)		1.15	No-load Current		0.616 A			
NEMA Nom. Eff.		0	Power Factor		0	Line-line Res. @ 25°C		109 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load			
					Locked-rotor Power Factor			83.1
					Rotor inertia			0.144 lb-ft²

Load Characteristics 460 V, 60 Hz, 0.25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	27	36	46	54	62	69	59
Efficiency	35.7	51.6	59.7	64	66	66.4	65.2
Speed	890.9	883.2	874.9	865.7	855.3	843.4	859
Line amperes	0.615	0.623	0.642	0.672	0.714	0.77	0.697

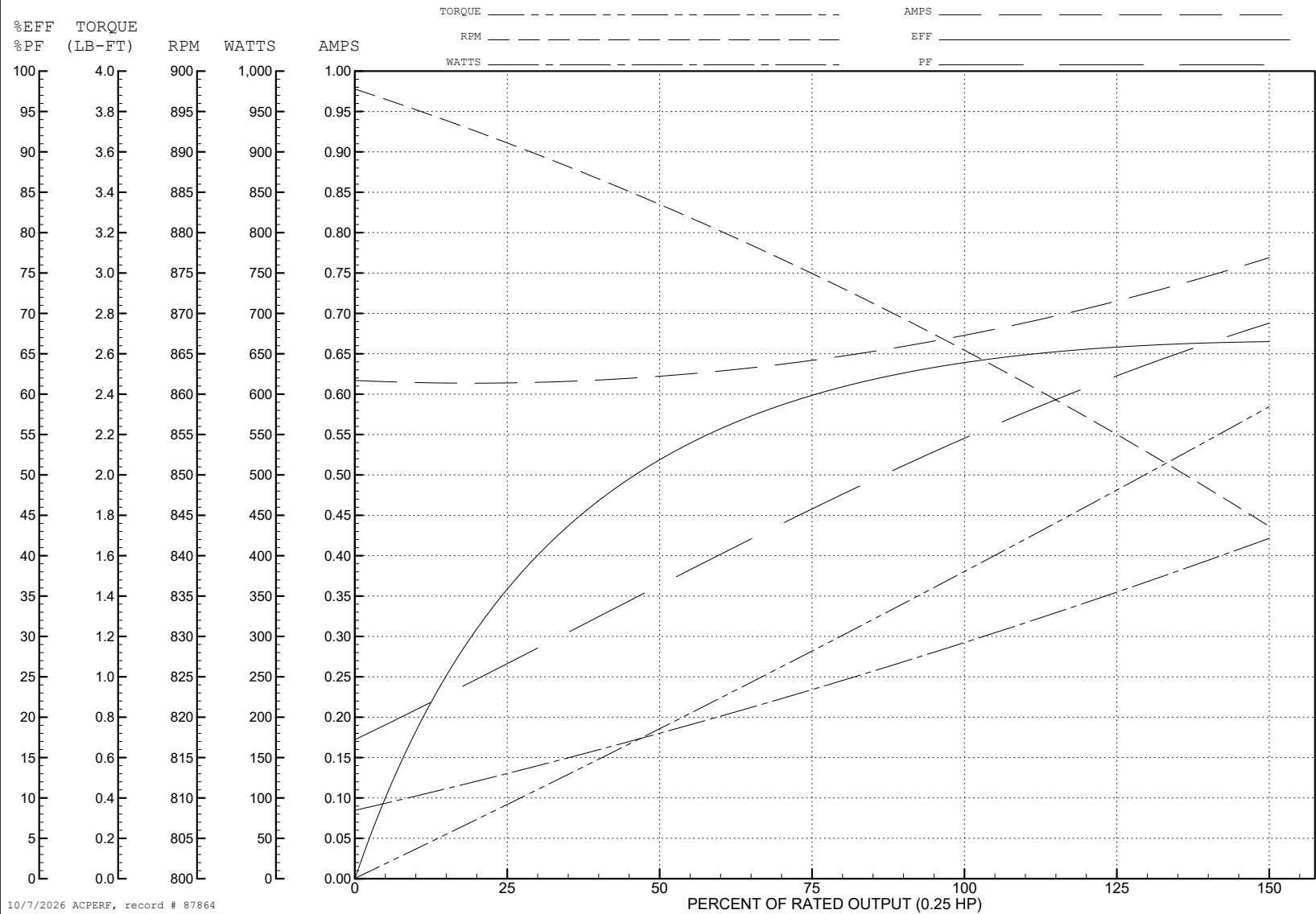
ABB Motors and Mechanical Inc.

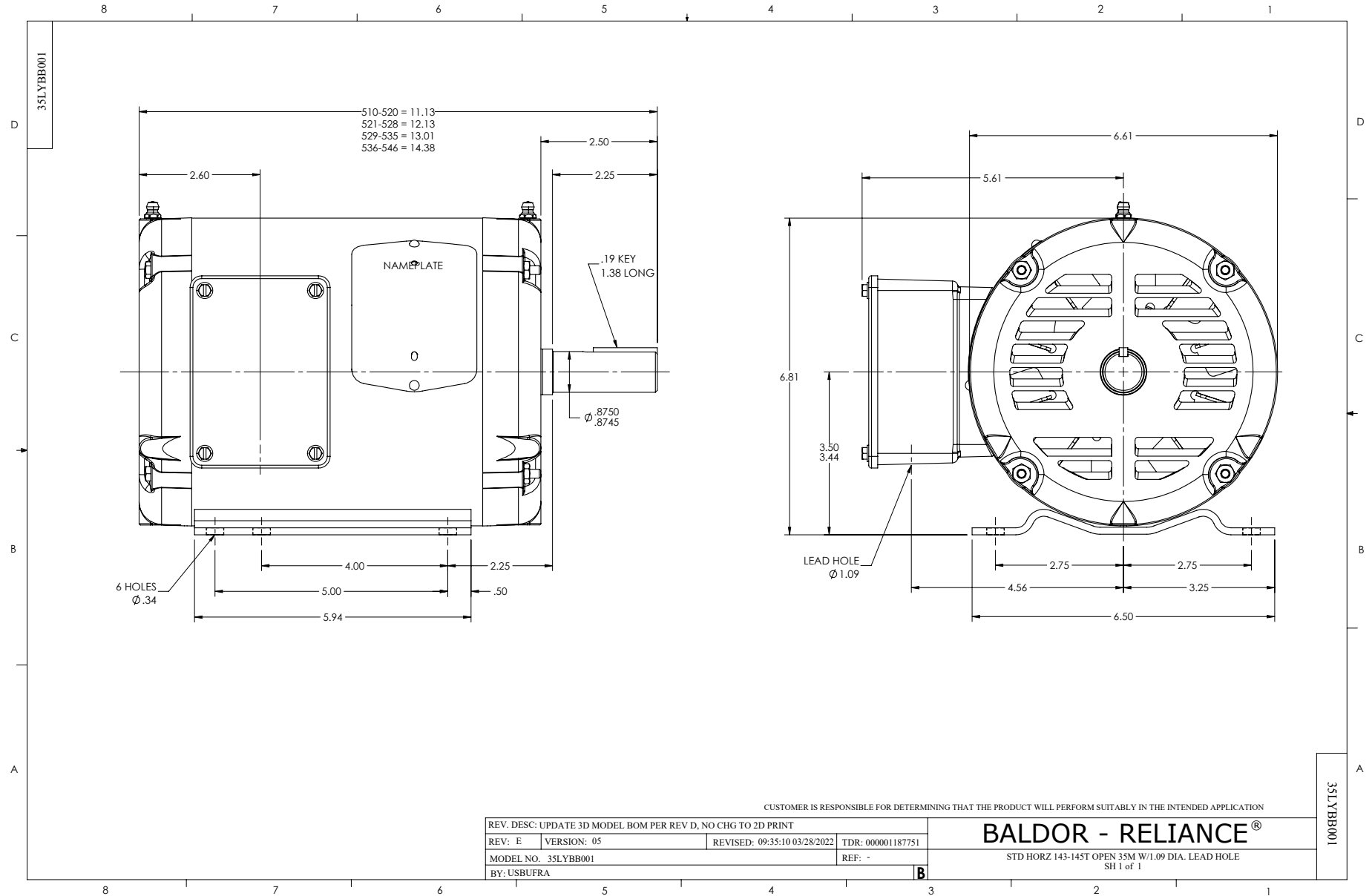
WINDING # 35WGG361

Typical performance - not guaranteed values.

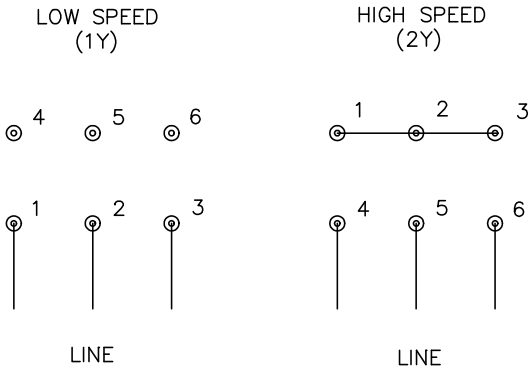
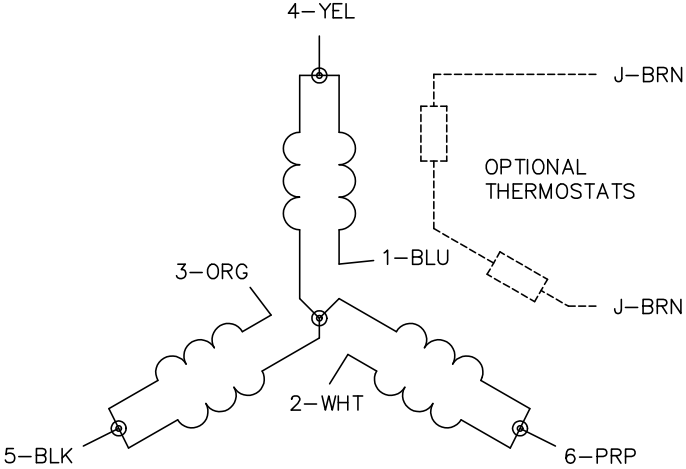
0.25 HP 3 PH 60 HZ 865.7 RPM 460 V 3520M

TORQUES (LB-FT) : PO=4.87 PU=2.55 LR=3.56 LRA=2.44





CD0032



- 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: E	BY: JLP	REVISED: 01/22/99 8:27	TDR: 0171435
CD0032		FILE: AAA00005145	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

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

CD0032