ABB BALDOR RELIANCE

Customer information packet

M1204T

1/.25HP, 1720/860RPM, 3PH, 60HZ, 143T, 3520M
Class - None
Division - Not Applicable

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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

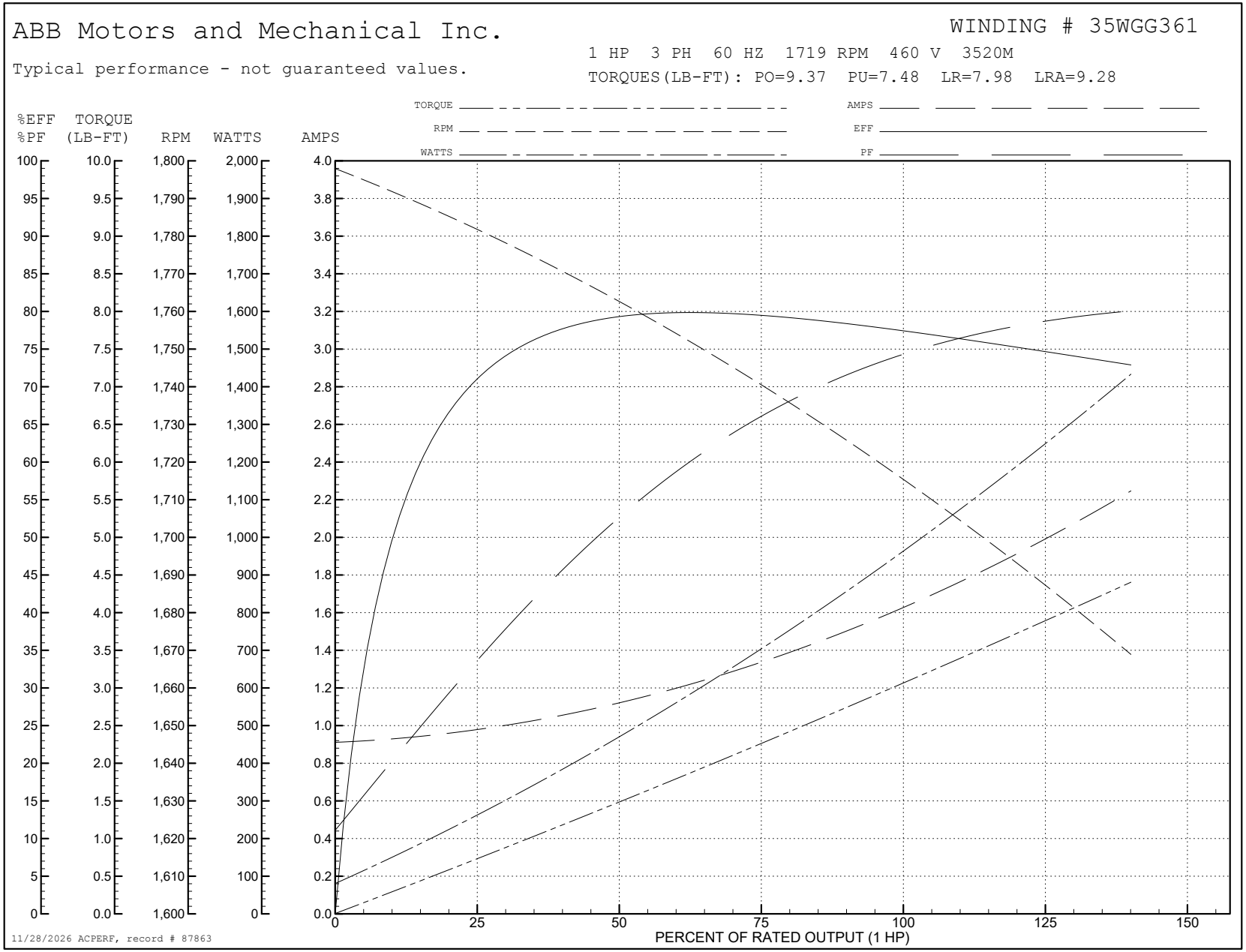
Winding: 35WGG361-R001	**Type:** 3520M	**Enclosure:** OPEN

Nameplate Data			
Rated Output (HP)			1/.25
Volts			460
Full Load Amps			1.52/.77
R.P.M.			1720/860
Hz	60	**Phase**	3
NEMA Design Code	-	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	0	**Power Factor**	0
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Speed Connection	
Full Load Torque	2.97 LB-FT
Start Configuration	direct on line
Breakdown Torque	9.37 LB-FT
Pull-up Torque	7.48 LB-FT
Locked-rotor Torque	7.98 LB-FT
Starting Current	9.28 A
No-load Current	0.893 A
Line-line Res. @ 25ºC	27.3 Ω
Temp. Rise @ Rated Load	27°C
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


ABB Motors and Mechanical Inc.
WINDING # 35WGG361
1 HP 3 PH 60 HZ 1719 RPM 460 V 3520M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=9.37 PU=7.48 LR=7.98 LRA=9.28
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1 HP)
11/28/2026 ACPERF, record # 87863

AC Induction Motor Performance Data
Record # 87864
Typical performance - not guaranteed values

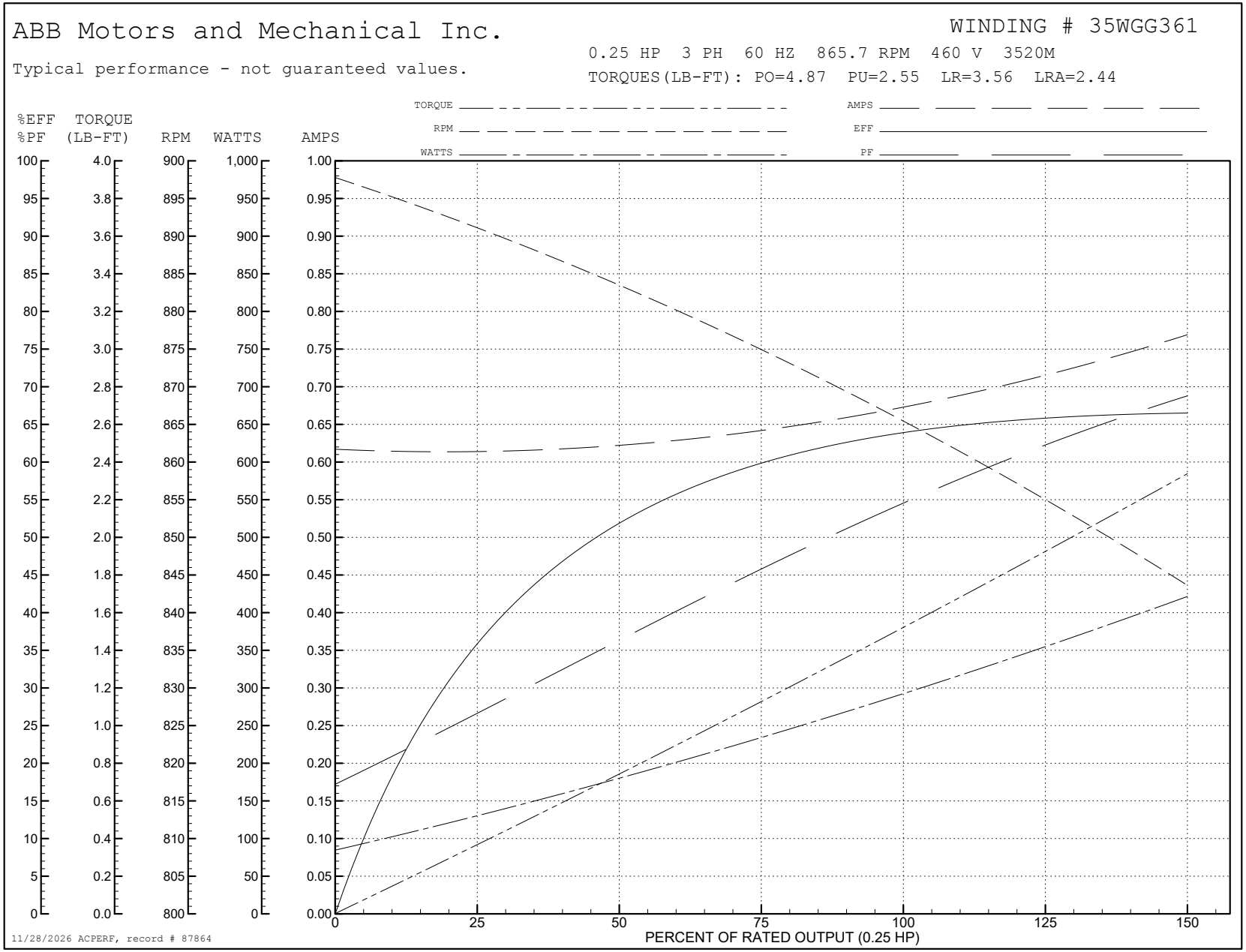
Winding: 35WGG361-R001	**Type:** 3520M	**Enclosure:** OPEN

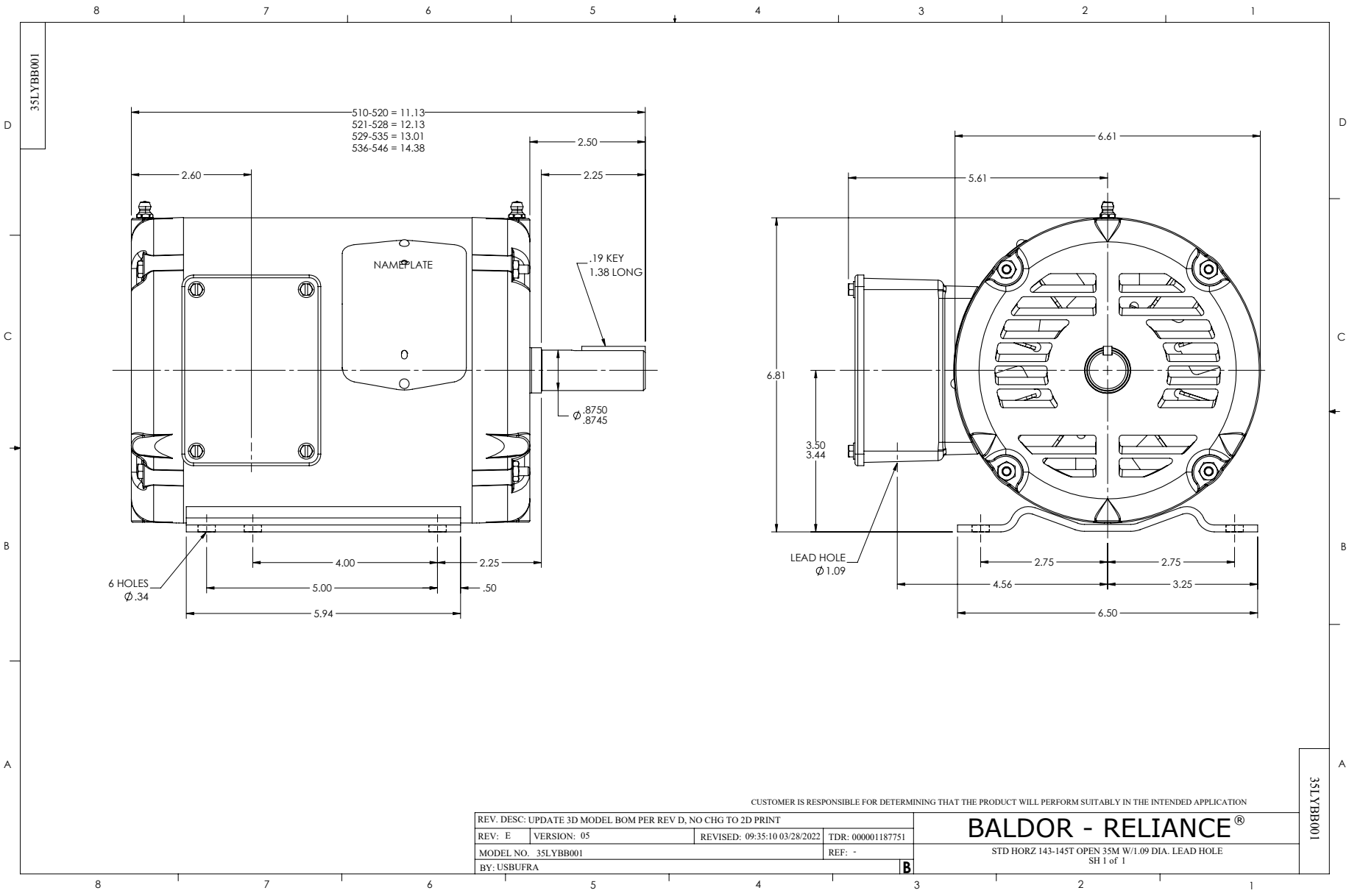
Nameplate Data			
Rated Output (HP)			1/.25
Volts			460
Full Load Amps			1.52/.77
R.P.M.			1720/860
Hz	60	**Phase**	3
NEMA Design Code	-	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	0	**Power Factor**	0
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: Low Speed Connection	
Full Load Torque	1.52 LB-FT
Start Configuration	direct on line
Breakdown Torque	4.87 LB-FT
Pull-up Torque	2.55 LB-FT
Locked-rotor Torque	3.56 LB-FT
Starting Current	2.44 A
No-load Current	0.616 A
Line-line Res. @ 25ºC	109 Ω
Temp. Rise @ Rated Load	
Locked-rotor Power Factor	83.1
Rotor inertia	0.144 lb-ft²

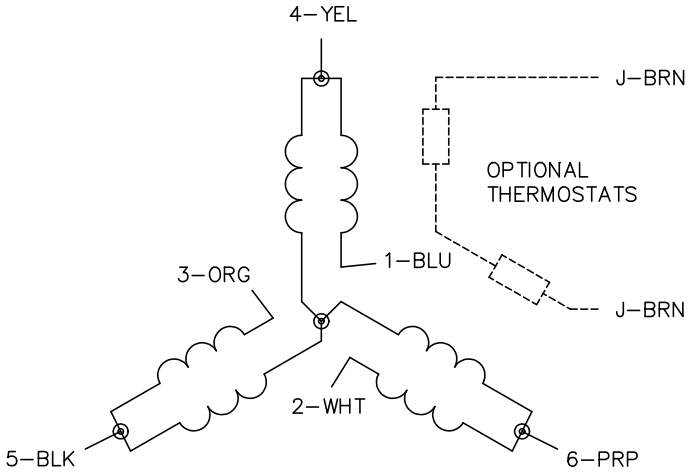
Load Characteristics 460 V, 60 Hz, 0.25 HP

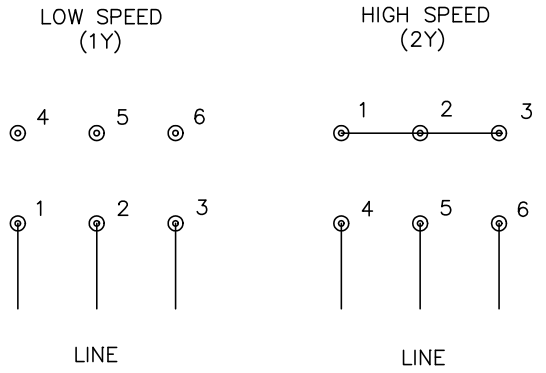
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	27	36	46	54	62	69	59
Efficiency	35.7	51.6	59.7	64	66	66.4	65.2
Speed	890.9	883.2	874.9	865.7	855.3	843.4	859
Line amperes	0.615	0.623	0.642	0.672	0.714	0.77	0.697


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
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.25 HP)
11/28/2026 ACPERF, record # 87864


35LYBB001
510-520 = 11.13
521-528 = 12.13
529-535 = 13.01
536-546 = 14.38
2.50
2.60
2.25
NAMEPLATE
.19 KEY
1.38 LONG
Ø .8750
.8745
6 HOLES
Ø .34
4.00
2.25
5.00
.50
5.94
6.61
5.61
6.81
3.50
3.44
LEAD HOLE
Ø 1.09
2.75
2.75
4.56
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV D, NO CHG TO 2D PRINT
REV: E
VERSION: 05
REVISED: 09:35:10 03/28/2022
TDR: 000001187751
MODEL NO. 35LYBB001
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ 143-145T OPEN 35M W/1.09 DIA. LEAD HOLE
SH 1 of 1
35LYBB001

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.

CD0032

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/22/99 8:27	TDR: 0171435
CD0032		FILE: AAA00005145	MDL: –
		MTL: –	3PH, SV, 6 LEADS, 2–SPEED 1–WINDING VARIABLE TORQUE