ABB BALDOR RELIANCE

Customer information packet

M1009T

7.5/1.9HP, 1730/860RPM, 3PH, 60HZ, 213T, 3734
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	213T
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	7.500 HP @ 60 HZ
	1.900 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	230.0 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	18.600 A @ 230.0 V
Design Code	B
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	7.3 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	J

Part Detail

Revision	C
Type	AC
Mech. spec.	37B001
Base	
Status	PRD/A
Elec. spec.	37WGZ660
Layout	37LYB001
Eff. date	09-05-2025
CD Diagram	CD0032
Poles	04/08
Leads	6#12
Proprietary	False
Created date	12-14-2020

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3734M
Mounting Arrangement	F1
Number of Poles	4
	8
Overall Length	16.32 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	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1730 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.	M1009T								
SPEC.	37B001Z660								
HP	7.5/1.9								
VOLTS	230								
AMP	18.6/7.3								
RPM	1730/860								
FRAME	213T	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	J	**DES**	B	**CLASS**	B		
NEMA-NOM-EFF		**PF**							
RATING	40C AMB-CONT								
CC									
DE	6307	**ODE**	6206						
ENCL	OPEN	**SN**							

Accessories

Part number	Description	Multiplier
37-1404	C FACE KIT	A8

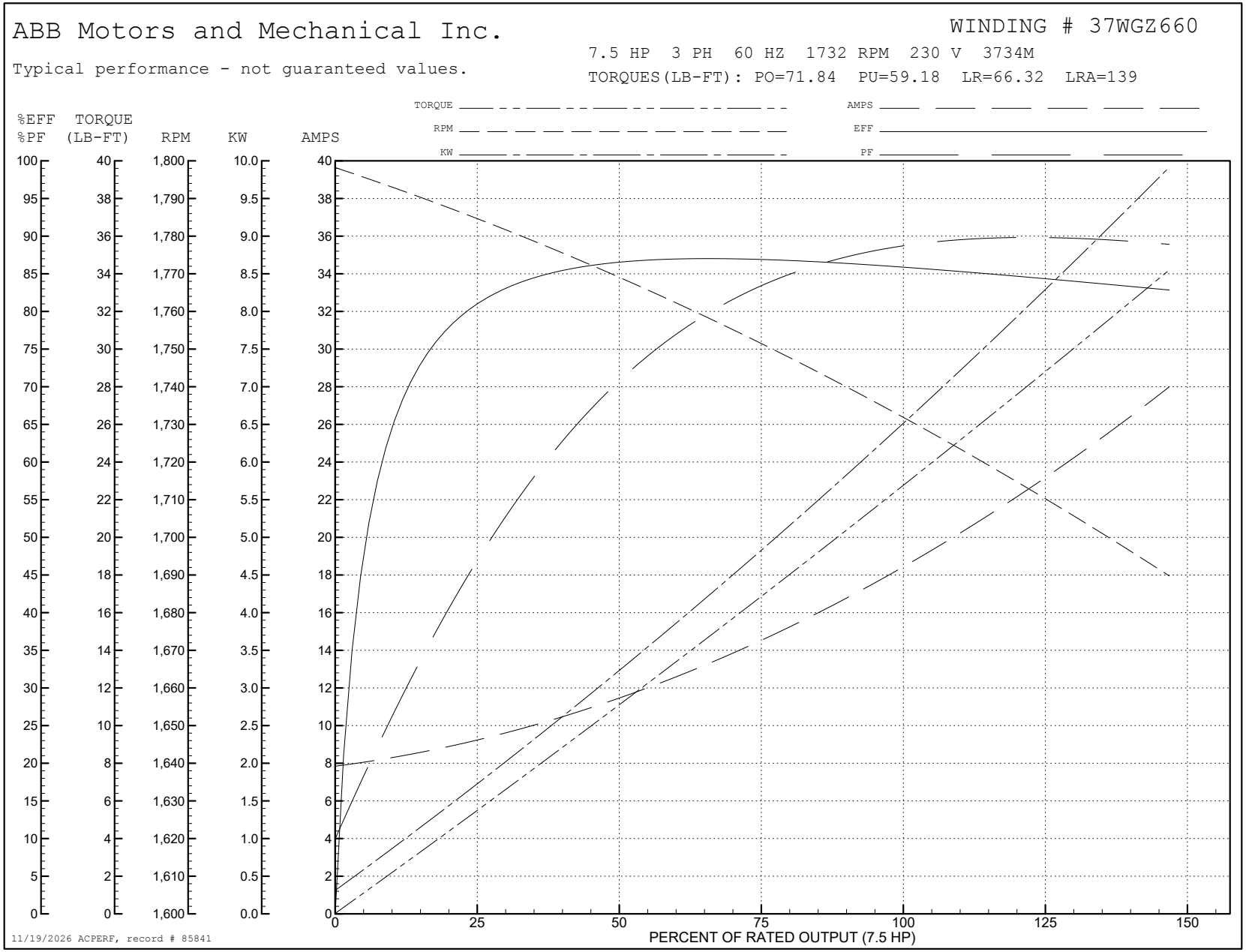
AC Induction Motor Performance Data
Record # 85841
Typical performance - not guaranteed values

Winding: 37WGZ660-R001	**Type:** 3734M	**Enclosure:** OPEN

Nameplate Data				**230 V, 60 Hz: High Speed Connection**	
Rated Output (HP)			7.5/1.9	**Full Load Torque**	22.8 LB-FT
Volts			230	**Start Configuration**	direct on line
Full Load Amps			18.6/7.3	**Breakdown Torque**	71.84 LB-FT
R.P.M.			1730/860	**Pull-up Torque**	59.18 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	66.32 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	139 A
Service Factor (S.F.)			1.15	**No-load Current**	8.03 A
NEMA Nom. Eff.	0	**Power Factor**	0	**Line-line Res. @ 25ºC**	0.639 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	56°C
S.F. Amps				**Temp. Rise @ S.F. Load**	70°C
				Locked-rotor Power Factor	56.6
				Rotor inertia	0.836 lb-ft²

Load Characteristics 230 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	50	73	83	88	89	89	86
Efficiency	80.4	86.1	86.8	86.1	84.7	82.6	84.7
Speed	1783	1768	1751	1732	1712	1689	1712
Line amperes	9.03	11.48	14.77	18.62	23	27.9	22.1


ABB Motors and Mechanical Inc.
WINDING # 37WGZ660
7.5 HP 3 PH 60 HZ 1732 RPM 230 V 3734M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=71.84 PU=59.18 LR=66.32 LRA=139
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (7.5 HP)
11/19/2026 ACPERF, record # 85841

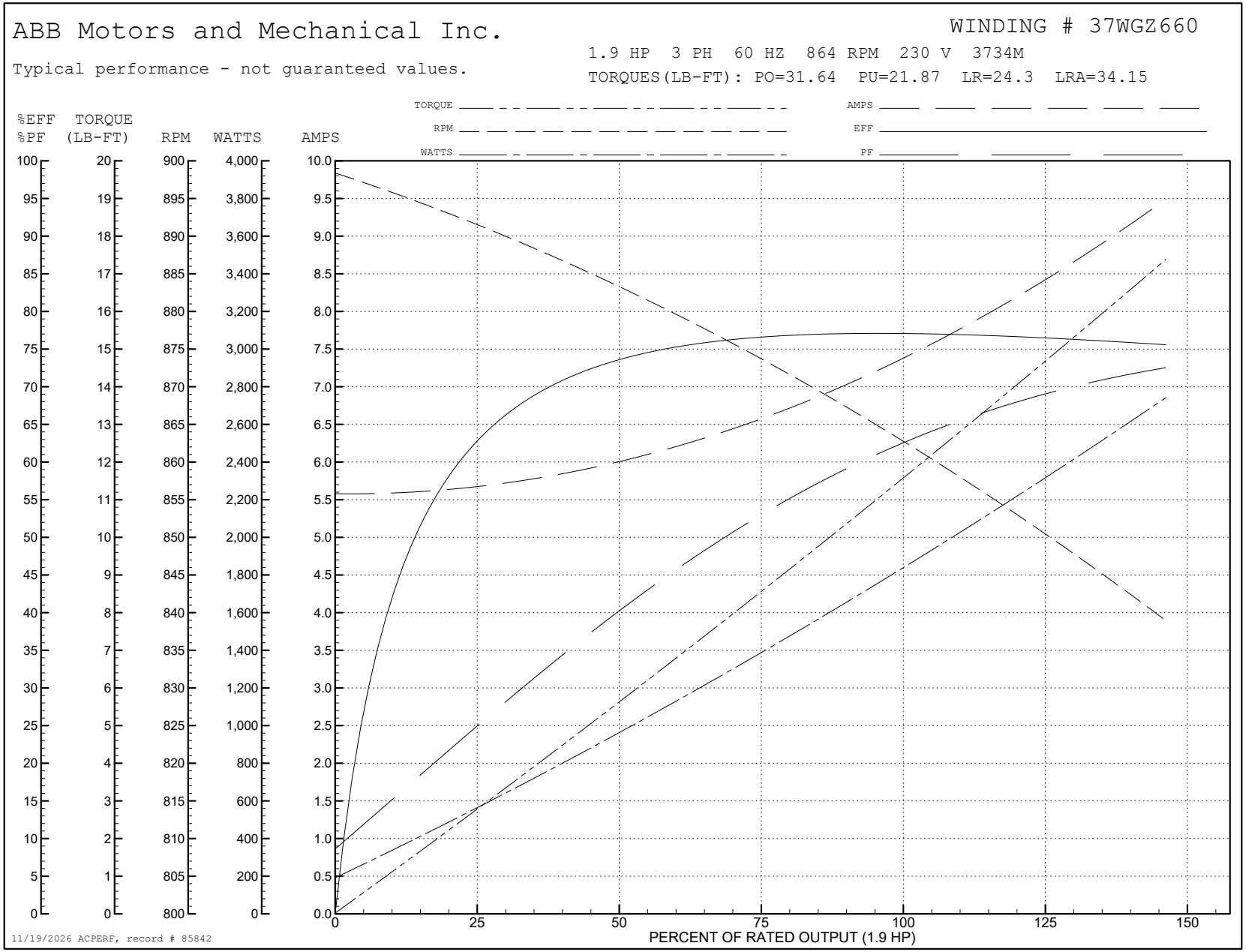
AC Induction Motor Performance Data
Record # 85842
Typical performance - not guaranteed values

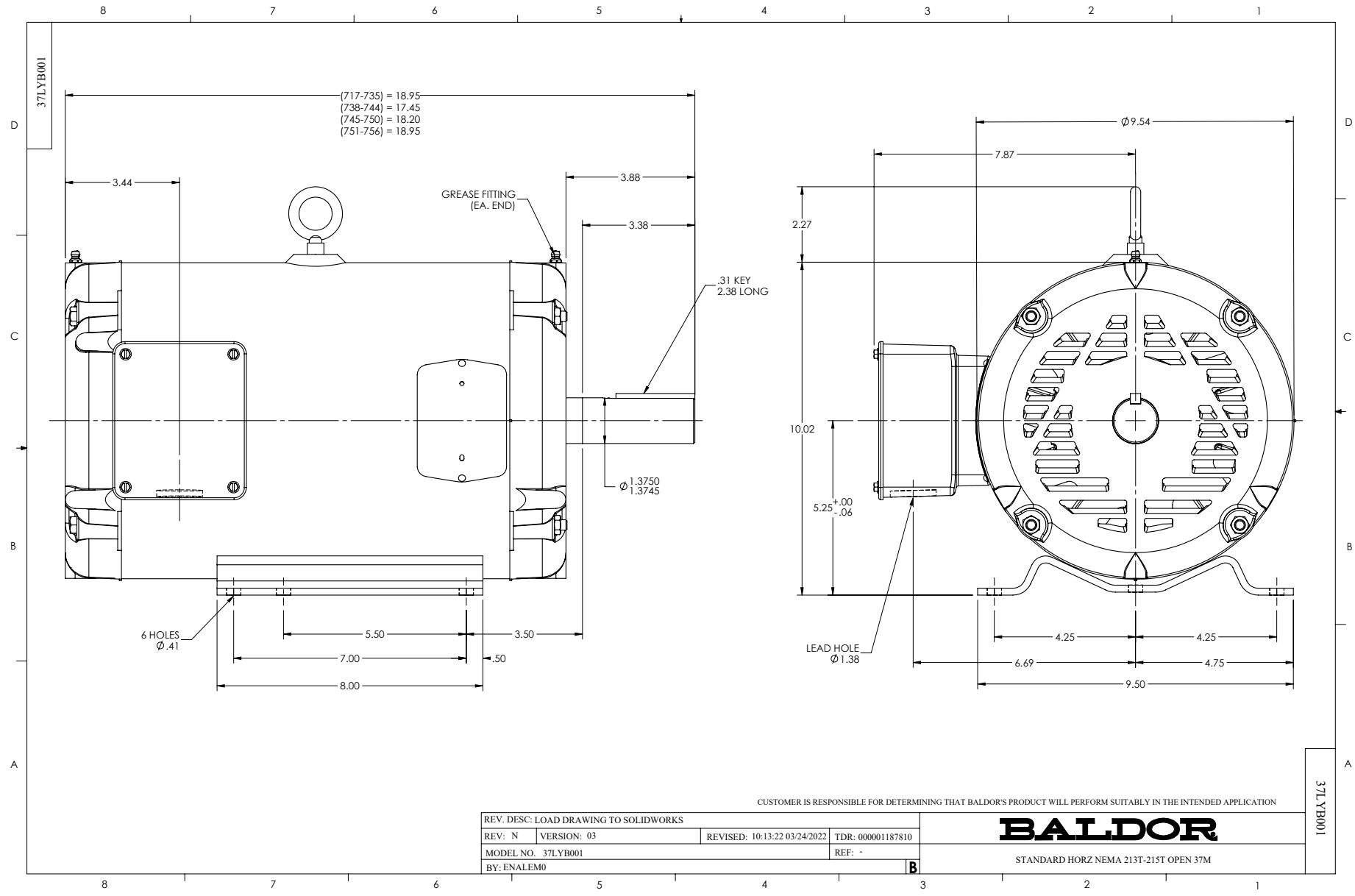
Winding: 37WGZ660-R001	**Type:** 3734M	**Enclosure:** OPEN

Nameplate Data				**230 V, 60 Hz: Low Speed Connection**	
Rated Output (HP)			7.5/1.9	**Full Load Torque**	11.55 LB-FT
Volts			230	**Start Configuration**	direct on line
Full Load Amps			18.6/7.3	**Breakdown Torque**	31.64 LB-FT
R.P.M.			1730/860	**Pull-up Torque**	21.87 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	24.3 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	34.15 A
Service Factor (S.F.)			1.15	**No-load Current**	5.55 A
NEMA Nom. Eff.	0	**Power Factor**	0	**Line-line Res. @ 25ºC**	2.56 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	52°C
S.F. Amps				**Temp. Rise @ S.F. Load**	62°C
				Locked-rotor Power Factor	50.9
				Rotor inertia	0.836 lb-ft²

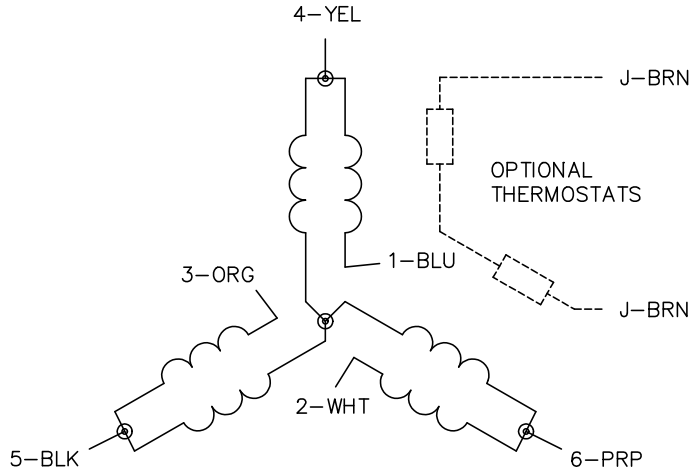
Load Characteristics 230 V, 60 Hz, 1.9 HP

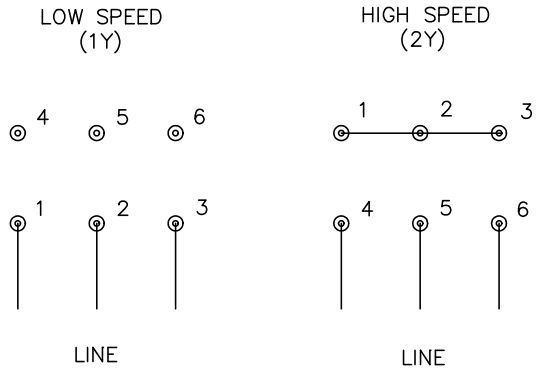
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	26	41	53	63	69	73	61
Efficiency	62	73.2	76.7	77.4	76.8	75.3	78.5
Speed	891	882	873	864	852	838	848
Line amperes	5.71	6.05	6.59	7.35	8.33	9.52	8.55


ABB Motors and Mechanical Inc.
WINDING # 37WGZ660
1.9 HP 3 PH 60 HZ 864 RPM 230 V 3734M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=31.64 PU=21.87 LR=24.3 LRA=34.15
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1.9 HP)
11/19/2026 ACPERF, record # 85842


37LYB001
(717-735) = 18.95
(738-744) = 17.45
(745-750) = 18.20
(751-756) = 18.95
3.44
3.88
3.38
GREASE FITTING
(EA. END)
.31 KEY
2.38 LONG
Ø1.3750
1.3745
6 HOLES
Ø.41
5.50
3.50
7.00
.50
8.00
Ø9.54
7.87
2.27
10.02
5.25 +.00 -.06
LEAD HOLE
Ø1.38
4.25
4.25
6.69
4.75
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: N
VERSION: 03
REVISED: 10:13:22 03/24/2022
TDR: 000001187810
MODEL NO. 37LYB001
REF: -
BY: ENALEM0
B
BALDOR
STANDARD HORZ NEMA 213T-215T OPEN 37M
37LYB001

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