ABB BALDOR RELIANCE

Customer information packet

M1024T

5/2.2HP, 1725/1140RPM, 3PH, 60HZ, 215T, 3735M
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	215T
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	5.000 HP @ 60 HZ
	2.200 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	12.800 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 Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	7.0 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	AH
Type	AC
Mech. spec.	37B001
Base	
Status	PRD/A
Elec. spec.	37WGW024
Layout	37LYB001
Eff. date	09-05-2025
CD Diagram	CD0013
Poles	04/06
Leads	6#14
Proprietary	False
Created date	01-01-0001

KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3735M
Mounting Arrangement	F1
Number of Poles	4
	6
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 Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1140 rpm
	1725 rpm
Speed Code	2S-2W-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.	M1024T								
SPEC.	37B01W24								
HP	5/2.2								
VOLTS	230								
AMP	12.8/7								
RPM	1725/1140								
FRAME	215T	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	J	**DES**	B	**CLASS**	F		
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 # 37312
Typical performance - not guaranteed values

Winding: 37WGW024-R003	**Type:** 3735M	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: High Speed Connection**	
Rated Output (HP)			5/2.2	**Full Load Torque**	15 LB-FT
Volts			230	**Start Configuration**	direct on line
Full Load Amps			12.8/7	**Breakdown Torque**	50 LB-FT
R.P.M.			1725/1140	**Pull-up Torque**	38 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	49 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	92 A
Service Factor (S.F.)			1.15	**No-load Current**	4.6 A
NEMA Nom. Eff.	0	**Power Factor**	0	**Line-line Res. @ 25ºC**	1.05 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	57°C
S.F. Amps				**Temp. Rise @ S.F. Load**	70°C

Load Characteristics 230 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	56	73	83	86	88	91	87
Efficiency	76.3	82.4	83.2	81.6	80	76.9	80.6
Speed	1779	1759	1738	1715	1689	1658	1699
Line amperes	5.6	7.8	10.2	13	16	19	14.8

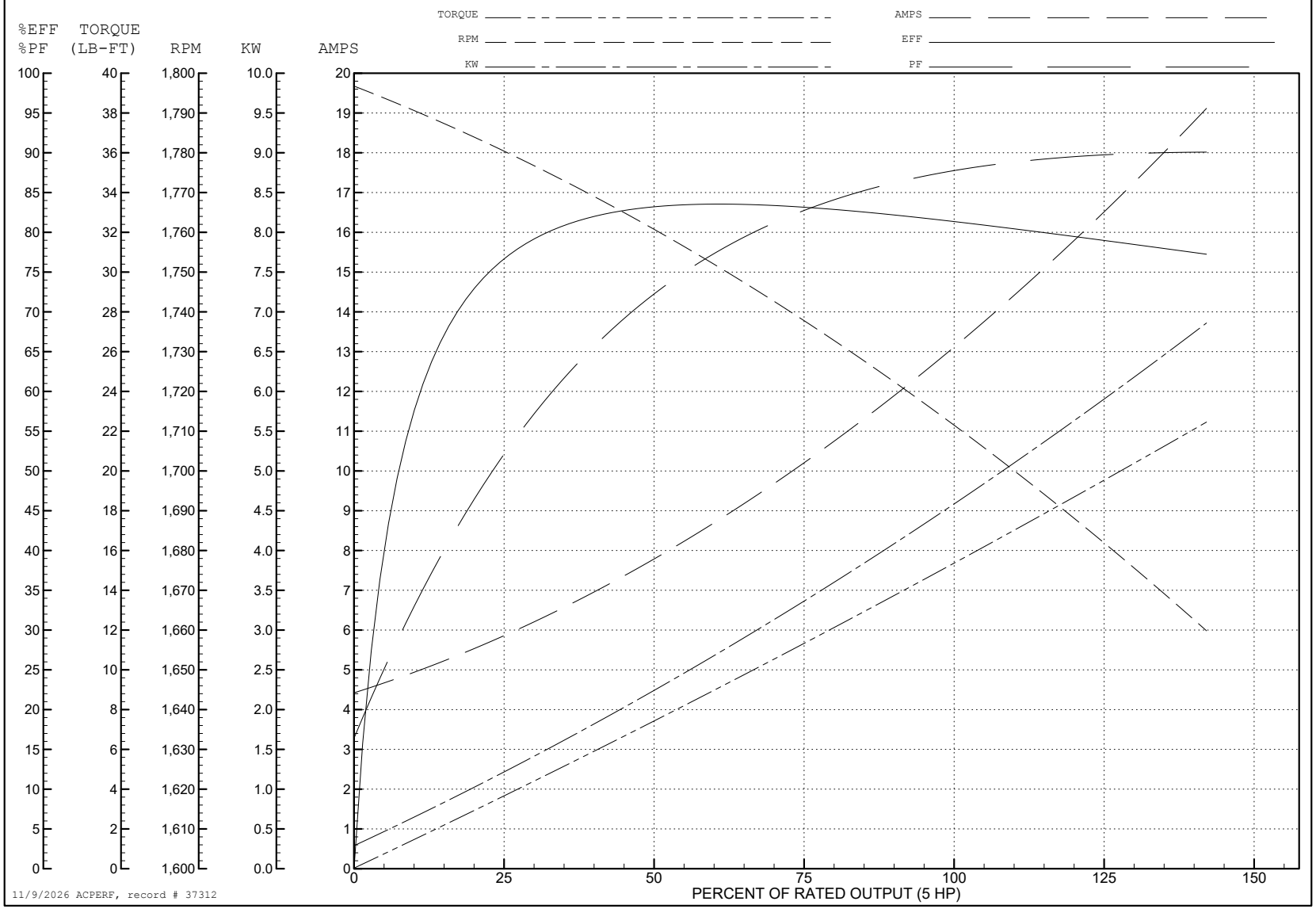
ABB Motors and Mechanical Inc.

WINDING # 37WGW024

5 HP 3 PH 60 HZ 1715 RPM 230 V 3735M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=50 PU=38 LR=49 LRA=92



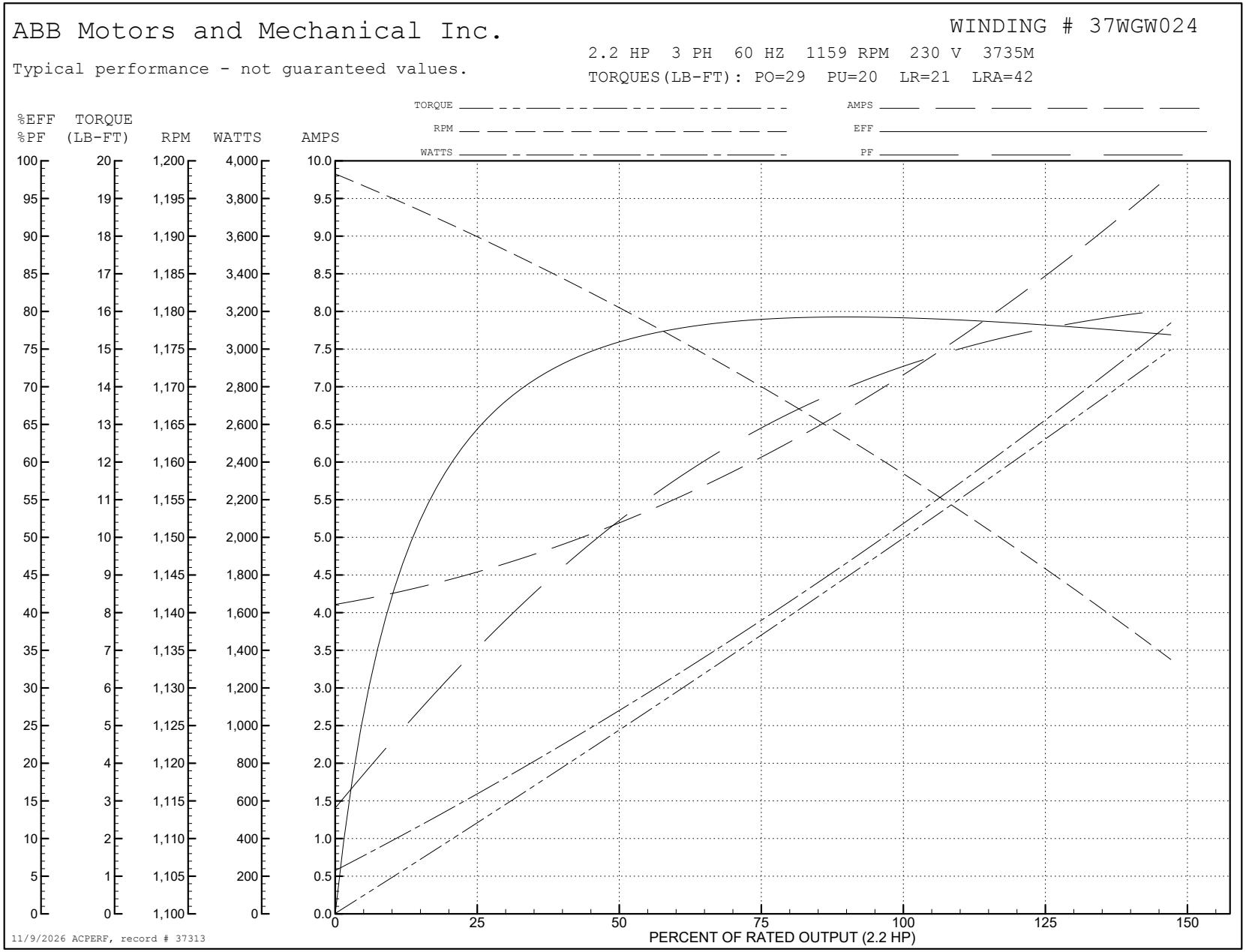
AC Induction Motor Performance Data
Record # 37313
Typical performance - not guaranteed values

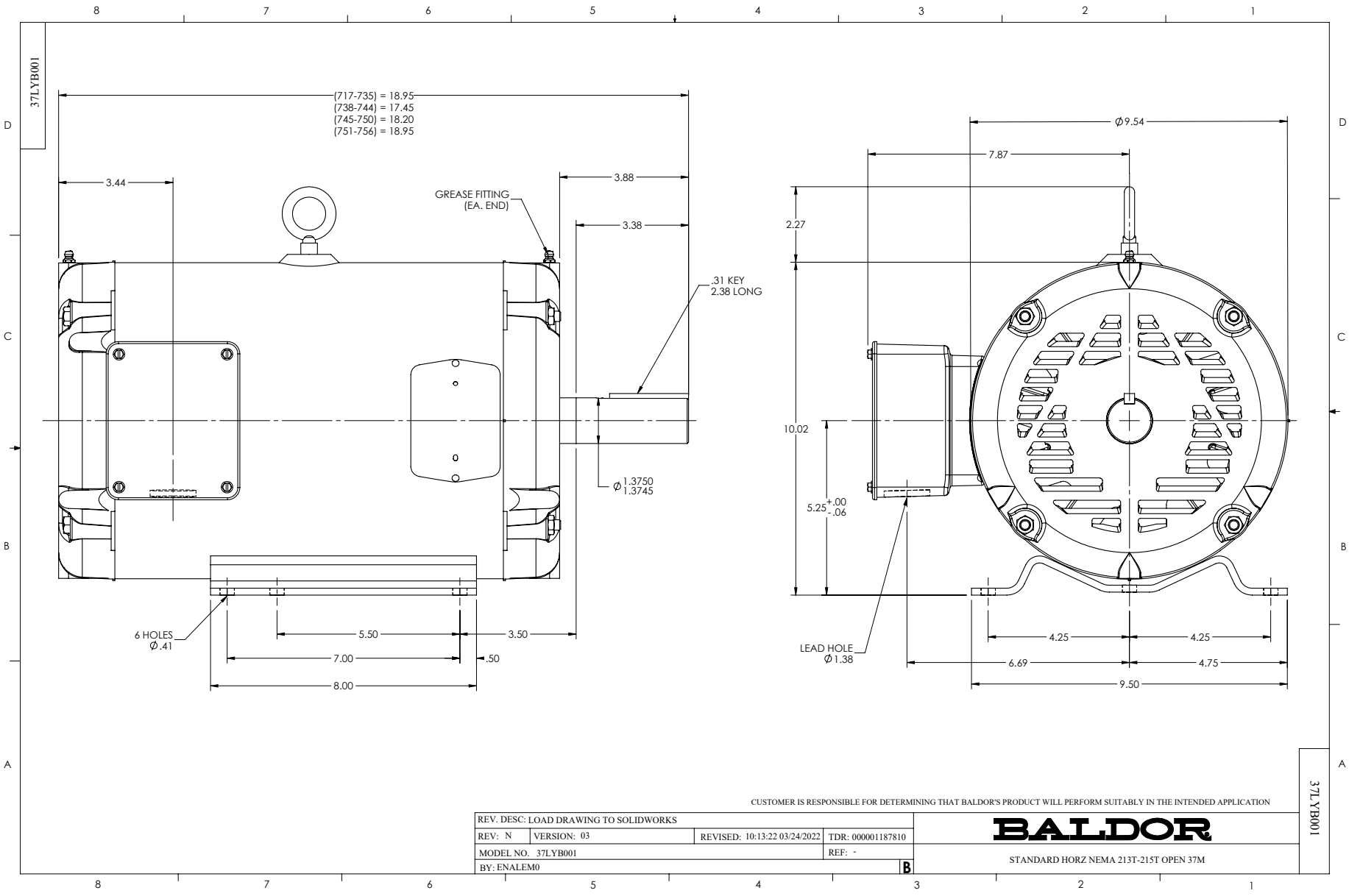
Winding: 37WGW024-R003	**Type:** 3735M	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: Low Speed Connection**	
Rated Output (HP)			5/2.2	**Full Load Torque**	10 LB-FT
Volts			230	**Start Configuration**	direct on line
Full Load Amps			12.8/7	**Breakdown Torque**	29 LB-FT
R.P.M.			1725/1140	**Pull-up Torque**	20 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	21 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	42 A
Service Factor (S.F.)			1.15	**No-load Current**	4.2 A
NEMA Nom. Eff.	0	**Power Factor**	0	**Line-line Res. @ 25ºC**	2.17 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	33°C
S.F. Amps				**Temp. Rise @ S.F. Load**	39°C

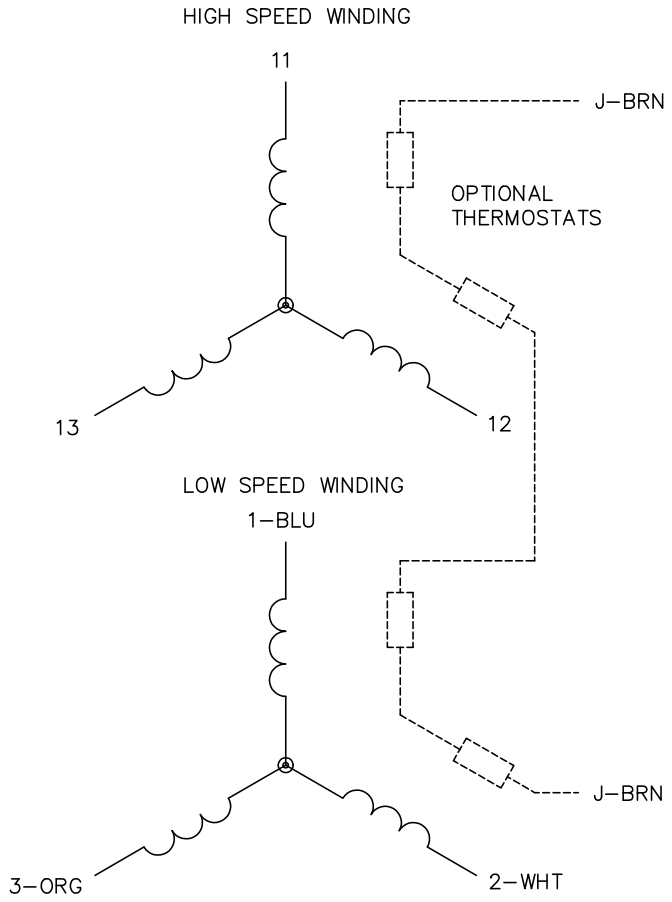
Load Characteristics 230 V, 60 Hz, 2.2 HP

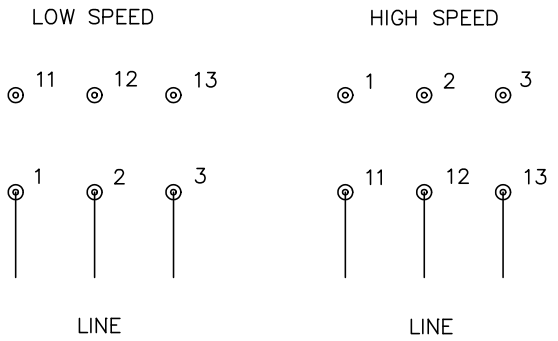
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	37	53	64	73	78	81	76
Efficiency	65.9	76.2	78.6	79.1	78.5	76.8	78.7
Speed	1189	1179	1170	1159	1147	1133	1152
Line amperes	4.4	5.2	6.2	7.2	8.4	9.8	7.92


ABB Motors and Mechanical Inc.
WINDING # 37WGW024
Typical performance - not guaranteed values.
2.2 HP 3 PH 60 HZ 1159 RPM 230 V 3735M
TORQUES(LB-FT): PO=29 PU=20 LR=21 LRA=42
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (2.2 HP)
11/9/2026 ACPERF, record # 37313


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

CD0013





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 VARY.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 01/22/99 8:50	TDR: 0171435
CD0013		FILE: AAA00005143	MDL: –
		MTL: –	3PH, SV, 6 LEADS, 2–SPEED 2–WINDING

CD0013