ABB BALDOR RELIANCE

Customer information packet

M1508T

44M 4/8P TEFC HOR 215T
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
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
	2.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ
	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	10.400 A @ 230.0 V
	13.000 A @ 208.0 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	10.4 a

Part Detail

Revision	R
Type	AC
Mech. spec.	37A001
Base	
Status	PRD/A
Elec. spec.	37WGS145
Layout	37LYA001
Eff. date	11-05-2025
CD Diagram	CD0011
Poles	04/08
Leads	6#14
Proprietary	False
Created date	08-03-2006

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
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	3744M
Mounting Arrangement	F1
Number of Poles	4
	8
Overall Length	19.01 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	1725 rpm
	850 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.	M1508T										
SPEC.	37A001S145										
HP	5/2.5										
VOLTS	208-230										
AMP	13/10.4										
RPM	1725/850										
FRAME	215T		**HZ**	60			**PH**	3			
SER.F.	1.15	**CODE**	K	**DES**	B	**CLASS**	F				
NEMA-NOM-EFF		**PF**									
RATING	40C AMB-CONT										
CC											
DE	6307		**ODE**	6206							
ENCL	TEFC	**SN**									

Accessories

Part number	Description	Multiplier
37-3301	C FACE KIT	P1

AC Induction Motor Performance Data
Record # 61404
Typical performance - not guaranteed values

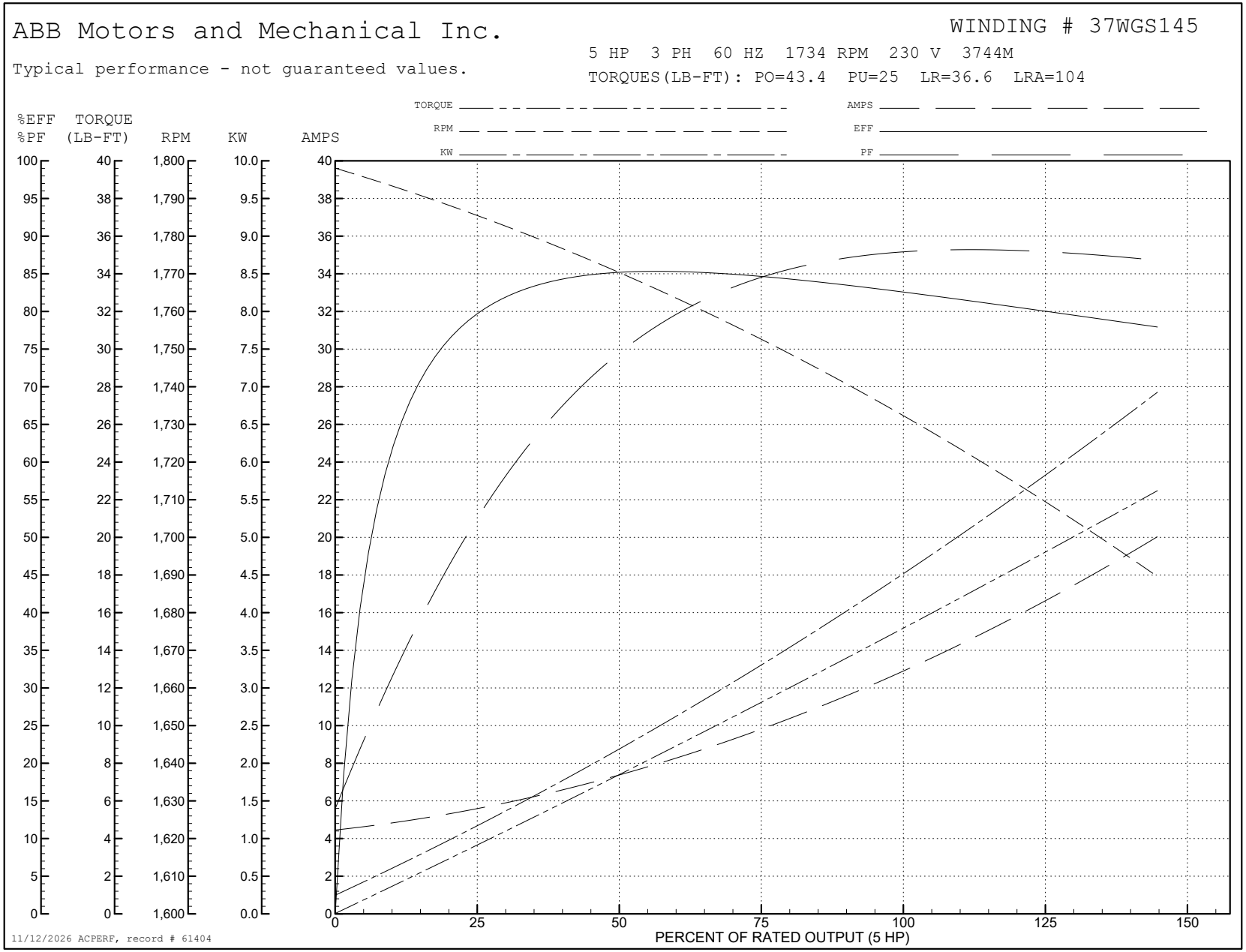
Winding: 37WGS145-R003	**Type:** 3744M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			5/2.5
Volts			208-230
Full Load Amps			13/10.4
R.P.M.			1725/850
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	0	**Power Factor**	0
Rating - Duty			40C AMB-CONT
S.F. Amps			

230 V, 60 Hz: High Speed Connection	
Full Load Torque	15 LB-FT
Start Configuration	direct on line
Breakdown Torque	43.4 LB-FT
Pull-up Torque	25 LB-FT
Locked-rotor Torque	36.6 LB-FT
Starting Current	104 A
No-load Current	4.58 A
Line-line Res. @ 25ºC	0.738 Ω
Temp. Rise @ Rated Load	71°C
Temp. Rise @ S.F. Load	85°C
Locked-rotor Power Factor	49.1

Load Characteristics 230 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	56	75	84	87	88	87	88
Efficiency	78.8	84.2	84.8	82.9	80.7	77.7	81.6
Speed	1784	1769	1753	1734	1712	1689	1721
Line amperes	5.4	7.44	9.88	12.9	16.2	20	14.9


ABB Motors and Mechanical Inc.
WINDING # 37WGS145
5 HP 3 PH 60 HZ 1734 RPM 230 V 3744M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=43.4 PU=25 LR=36.6 LRA=104
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
11/12/2026 ACPERF, record # 61404

AC Induction Motor Performance Data
Record # 61405
Typical performance - not guaranteed values

Winding: 37WGS145-R003	**Type:** 3744M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			5/2.5
Volts			208-230
Full Load Amps			13/10.4
R.P.M.			1725/850
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	K
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	0	**Power Factor**	0
Rating - Duty			40C AMB-CONT
S.F. Amps			

230 V, 60 Hz: Low Speed Connection	
Full Load Torque	15 LB-FT
Start Configuration	direct on line
Breakdown Torque	48.1 LB-FT
Pull-up Torque	30.6 LB-FT
Locked-rotor Torque	37.3 LB-FT
Starting Current	55.5 A
No-load Current	7.6 A
Line-line Res. @ 25ºC	1.01 Ω
Temp. Rise @ Rated Load	66°C
Temp. Rise @ S.F. Load	74°C
Locked-rotor Power Factor	36.3

Load Characteristics 230 V, 60 Hz, 2.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	25	39	50	58	63	67	61
Efficiency	61.1	73.9	78.2	79.1	78.9	77.5	79
Speed	891	884	875	866	857	845	861
Line amperes	7.61	8.22	9.05	10.1	11.5	13.1	10.9

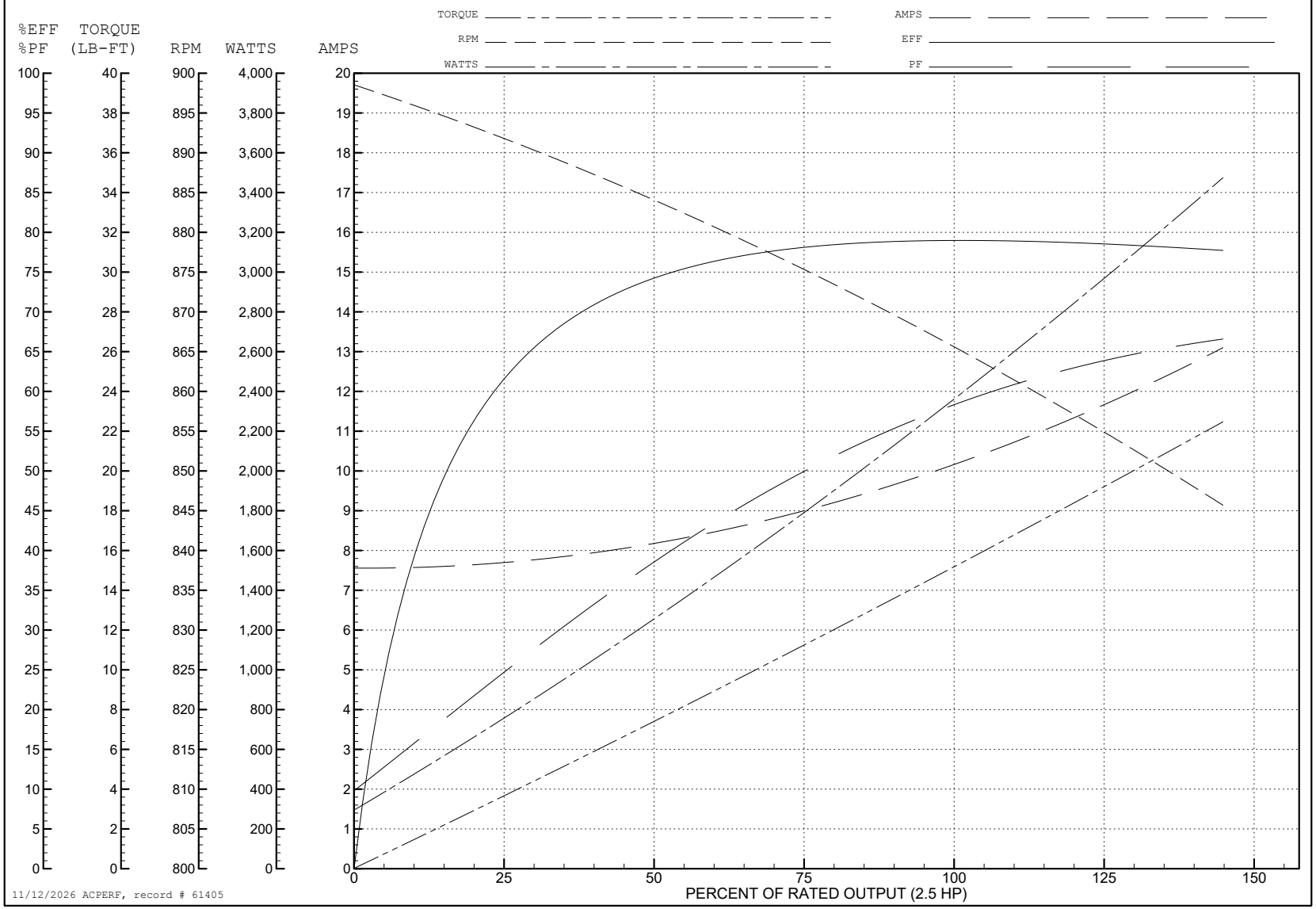
ABB Motors and Mechanical Inc.

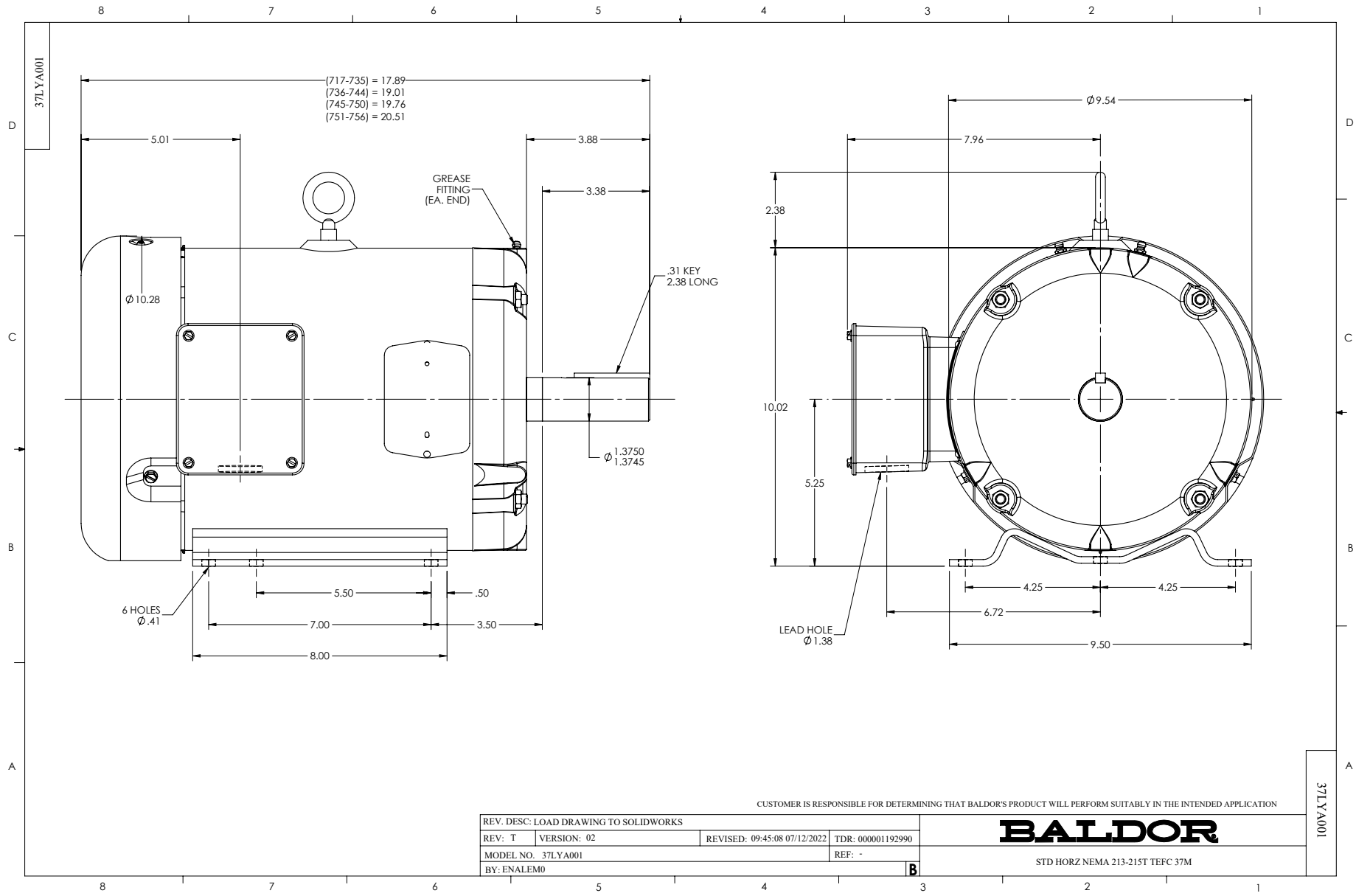
WINDING # 37WGS145

2.5 HP 3 PH 60 HZ 866 RPM 230 V 3744M

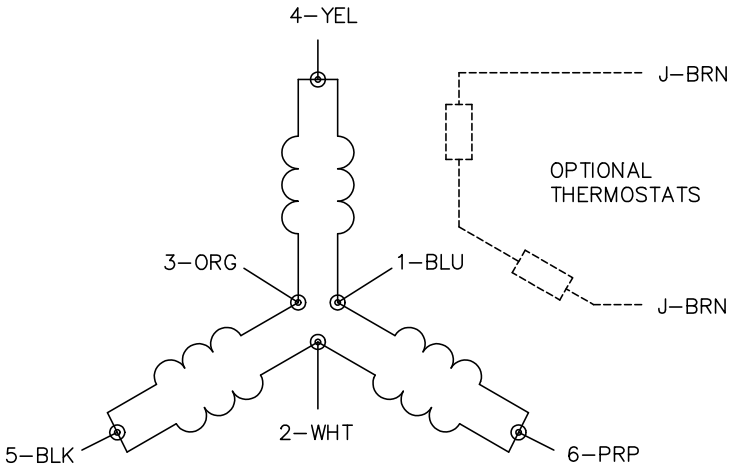
Typical performance - not guaranteed values.

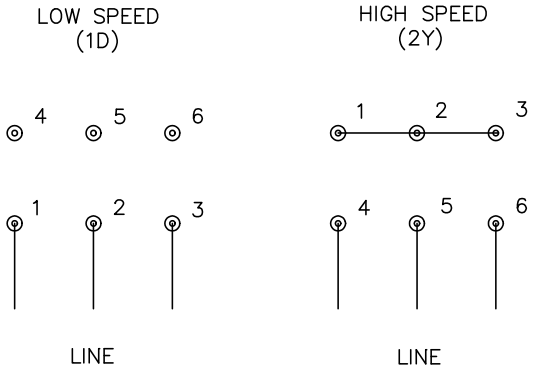
TORQUES(LB-FT): PO=48.1 PU=30.6 LR=37.3 LRA=55.5




37LYA001
(717-735) = 17.89
(736-744) = 19.01
(745-750) = 19.76
(751-756) = 20.51
5.01
3.88
3.38
GREASE FITTING (EA. END)
.31 KEY 2.38 LONG
Ø10.28
Ø 1.3750 1.3745
6 HOLES Ø.41
5.50
.50
7.00
3.50
8.00
Ø9.54
7.96
2.38
10.02
5.25
4.25
4.25
6.72
LEAD HOLE Ø1.38
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: T
VERSION: 02
REVISED: 09:45:08 07/12/2022
TDR: 000001192990
MODEL NO. 37LYA001
REF: -
BY: ENALEM0
B
BALDOR
STD HORZ NEMA 213-215T TEFC 37M
37LYA001

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.

CD0011

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: F	BY: JLP	REVISED: 01/21/99 5:04	TDR: 0171435
CD0011		FILE: DWG\142.wg	MDL: –
		MTL: –	3PH, SV, 6 LEADS, 2–SPEED 1–WINDING CONSTANT TORQUE