

BALDOR • RELIANCE

Customer information packet

M1508T

44M 4/8P TEFC HOR 215T

Class - None

Division - Not Applicable

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
Auxillary Box	No Auxillary Box
Auxillary 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	P
Type	AC
Mech. spec.	37A001
Base	
Status	PRD/A
Elec. spec.	37WGS145
Layout	37LYA001
Eff. date	05-01-2024
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				230 V, 60 Hz: High Speed Connection				
Rated Output (HP)	5/2.5		Full Load Torque	15 LB-FT				
Volts	208-230		Start Configuration	direct on line				
Full Load Amps	13/10.4		Breakdown Torque	43.4 LB-FT				
R.P.M.	1725/850		Pull-up Torque	25 LB-FT				
Hz	60	Phase	3	Locked-rotor Torque	36.6 LB-FT			
NEMA Design Code	B	KVA Code	K	Starting Current	104 A			
Service Factor (S.F.)	1.15		No-load Current	4.58 A				
NEMA Nom. Eff.	0	Power Factor	0	Line-line Res. @ 25°C	0.738 Ω			
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	71°C				
S.F. Amps			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

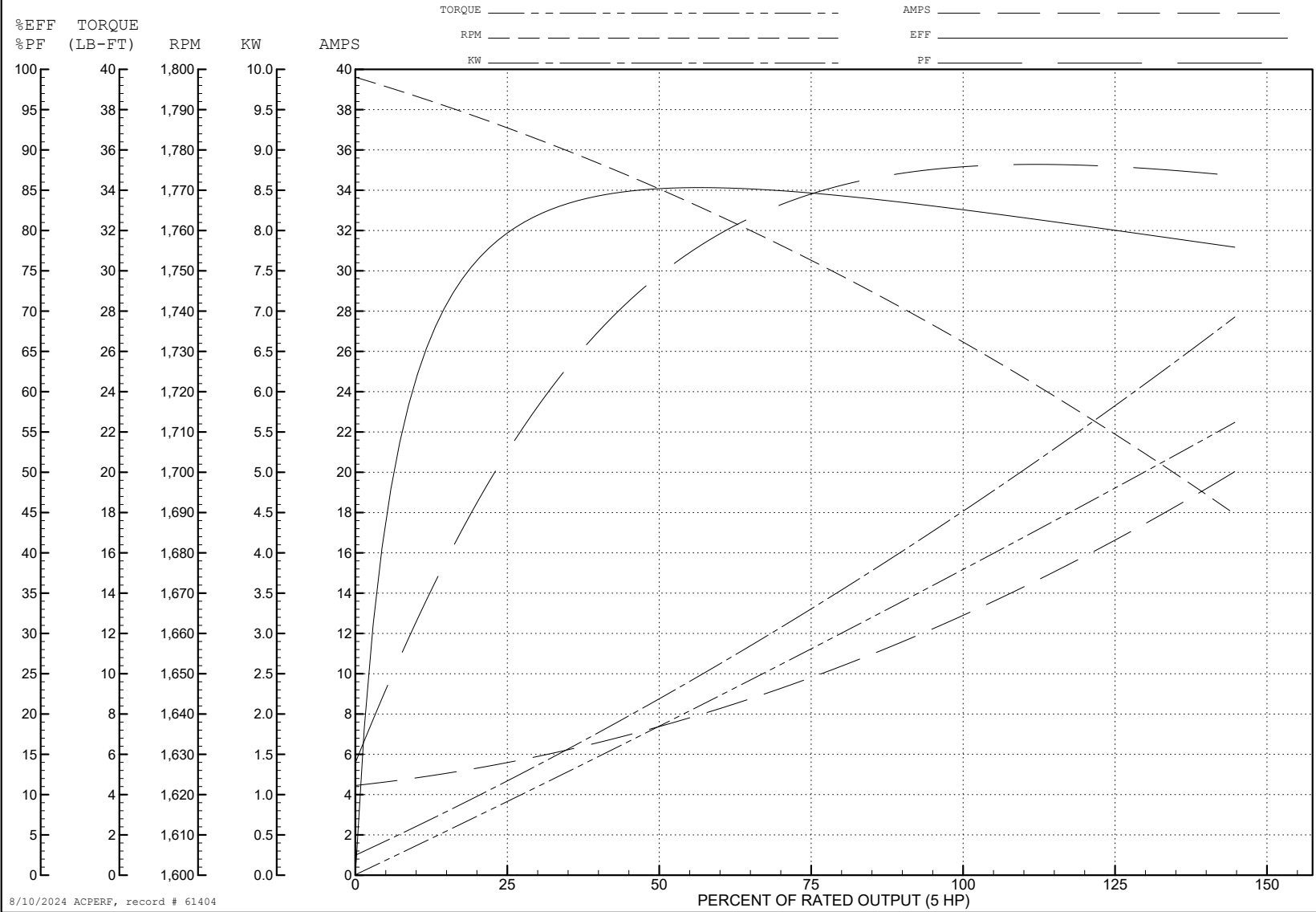
ABB Motors and Mechanical Inc.

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



8/10/2024 ACPERF, record # 61404

AC Induction Motor Performance Data

Record # 61405

Typical performance - not guaranteed values

Winding: 37WGS145-R003			Type: 3744M			Enclosure: TEFC		
Nameplate Data				230 V, 60 Hz: Low Speed Connection				
Rated Output (HP)	5/2.5		Full Load Torque	15 LB-FT				
Volts	208-230		Start Configuration	direct on line				
Full Load Amps	13/10.4		Breakdown Torque	48.1 LB-FT				
R.P.M.	1725/850		Pull-up Torque	30.6 LB-FT				
Hz	60	Phase	3	Locked-rotor Torque	37.3 LB-FT			
NEMA Design Code	B	KVA Code	K	Starting Current	55.5 A			
Service Factor (S.F.)	1.15		No-load Current	7.6 A				
NEMA Nom. Eff.	0	Power Factor	0	Line-line Res. @ 25°C	1.01 Ω			
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	66°C				
S.F. Amps			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

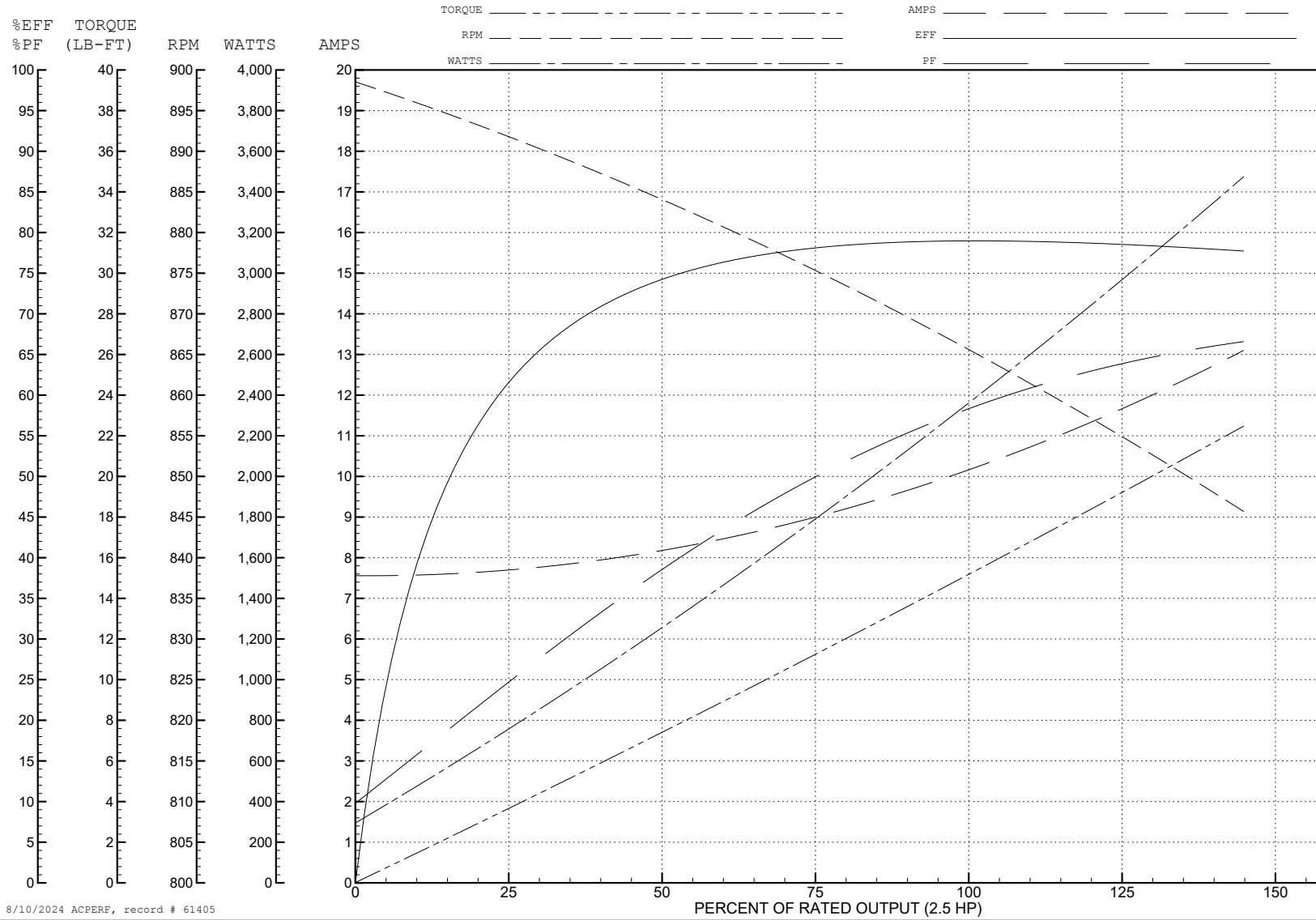
ABB Motors and Mechanical Inc.

WINDING # 37WGS145

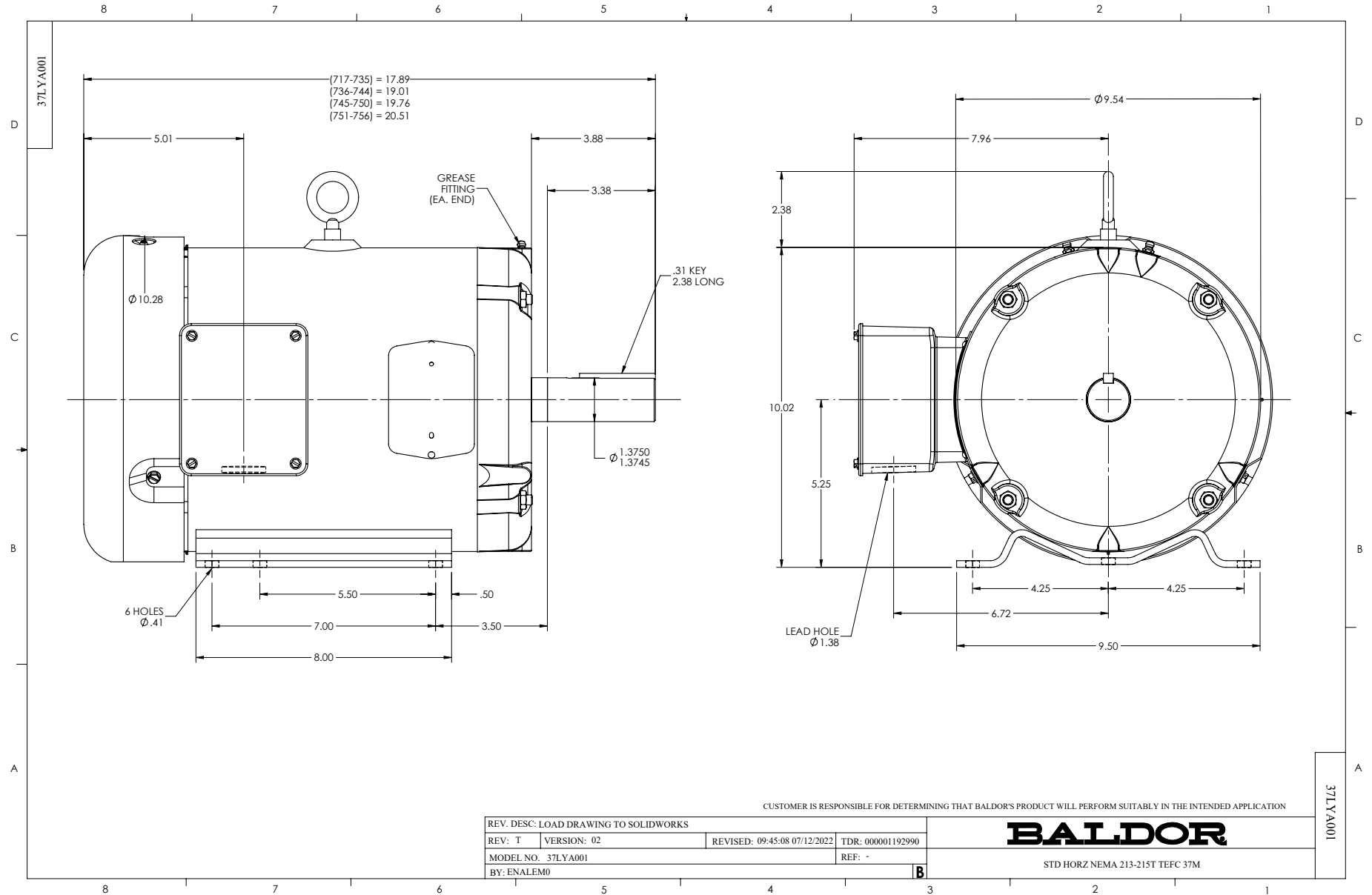
2.5 HP 3 PH 60 HZ 866 RPM 230 V 3744M

Typical performance - not guaranteed values.

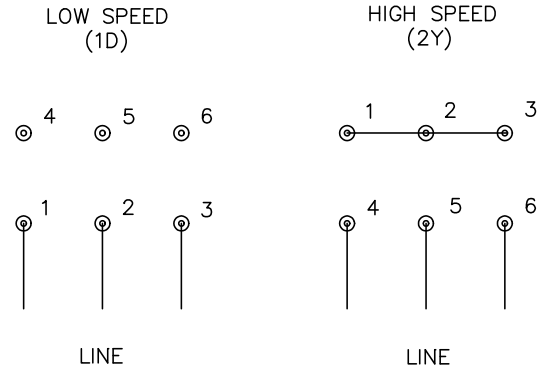
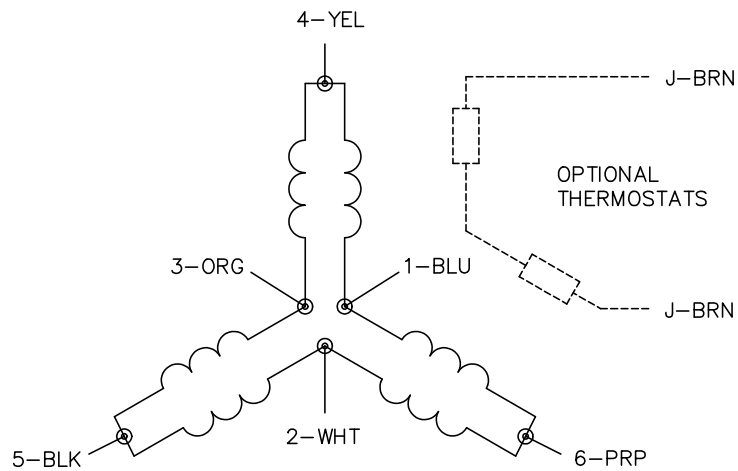
TORQUES (LB-FT): PO=48.1 PU=30.6 LR=37.3 LRA=55.5



8/10/2024 ACPERF, record # 61405



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			
REV. LTR: F	BY: JLP	REVISED: 01/21/99 5:04	TDR: 0171435
110000		FILE: DWG\142.wg	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

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