

BALDOR • RELIANCE

Customer information packet

EM3702

2HP, 865RPM, 3PH, 60HZ, 215, 3744M, TEFC, F1, N

Class - None

Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	215
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	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 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	3.500 A @ 460.0 V 7.000 A @ 230.0 V 7.200 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part detail

Revision	G
Type	AC
Mech. spec.	37A011
Base	
Status	PRD/A
Elec. spec.	37WGR734
Layout	37LYA011
Eff. date	10-02-2024
CD Diagram	CD0005
Poles	08
Leads	9#14
Proprietary	False
Created date	11-13-2015

High Voltage Full Load Amps	3.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3744M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	18.63 IN
Power Factor	61
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	865 rpm
Speed Code	Single Speed
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

NP2116L									
CAT.NO.	EM3702								
SPEC.	37A011R734G1								
HP	2								
VOLTS	230/460								
AMP	7/3.5								
RPM	865								
FRAME	215		HZ	60		PH	3		
SER.F.	1.15	CODE	J	DES	B	CL	F		
NEMA-NOM-EFF	85.5	PF	61						
RATING	40C AMB-CONT								
CC	010A								
DE	6307	ODE	6206						
ENCL	TEFC	SN							

AC Induction Motor Performance Data

Record # 57476

Typical performance - not guaranteed values

Winding: 37WGR734-R003		Type: 3744M	Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	2	Full Load Torque	12.2 LB-FT	
Volts	230/460	Start Configuration	direct on line	
Full Load Amps	7/3.5	Breakdown Torque	36.2 LB-FT	
R.P.M.	865	Pull-up Torque	20.1 LB-FT	
Hz	60 Phase	Locked-rotor Torque	22.2 LB-FT	
NEMA Design Code	B KVA Code	Starting Current	18.7 A	
Service Factor (S.F.)	1.15	No-load Current	2.25 A	
NEMA Nom. Eff.	85.5 Power Factor	Line-line Res. @ 25°C	4.59 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	22°C	
S.F. Amps		Temp. Rise @ S.F. Load	26°C	
		Locked-rotor Power Factor	32.5	
		Rotor inertia	1.09 LB-FT ²	

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	26	42	53	61	65	69	63
Efficiency	77.6	84.9	86.8	87.3	85.9	83.9	86.5
Speed	892	885	877	868	857	846	861
Line amperes	2.37	2.65	3.06	3.57	4.16	4.86	3.92

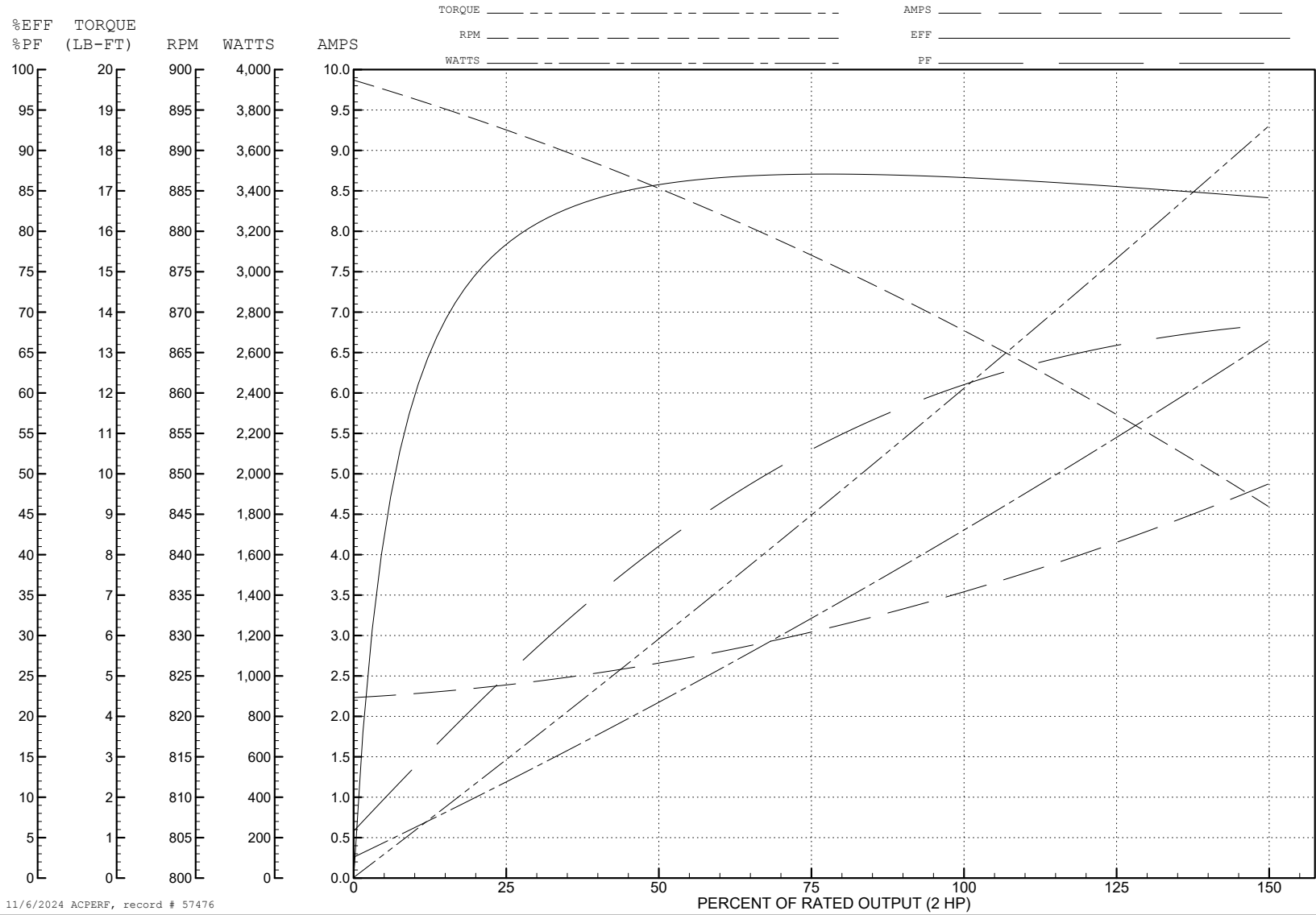
ABB Motors and Mechanical Inc.

WINDING # 37WGR734

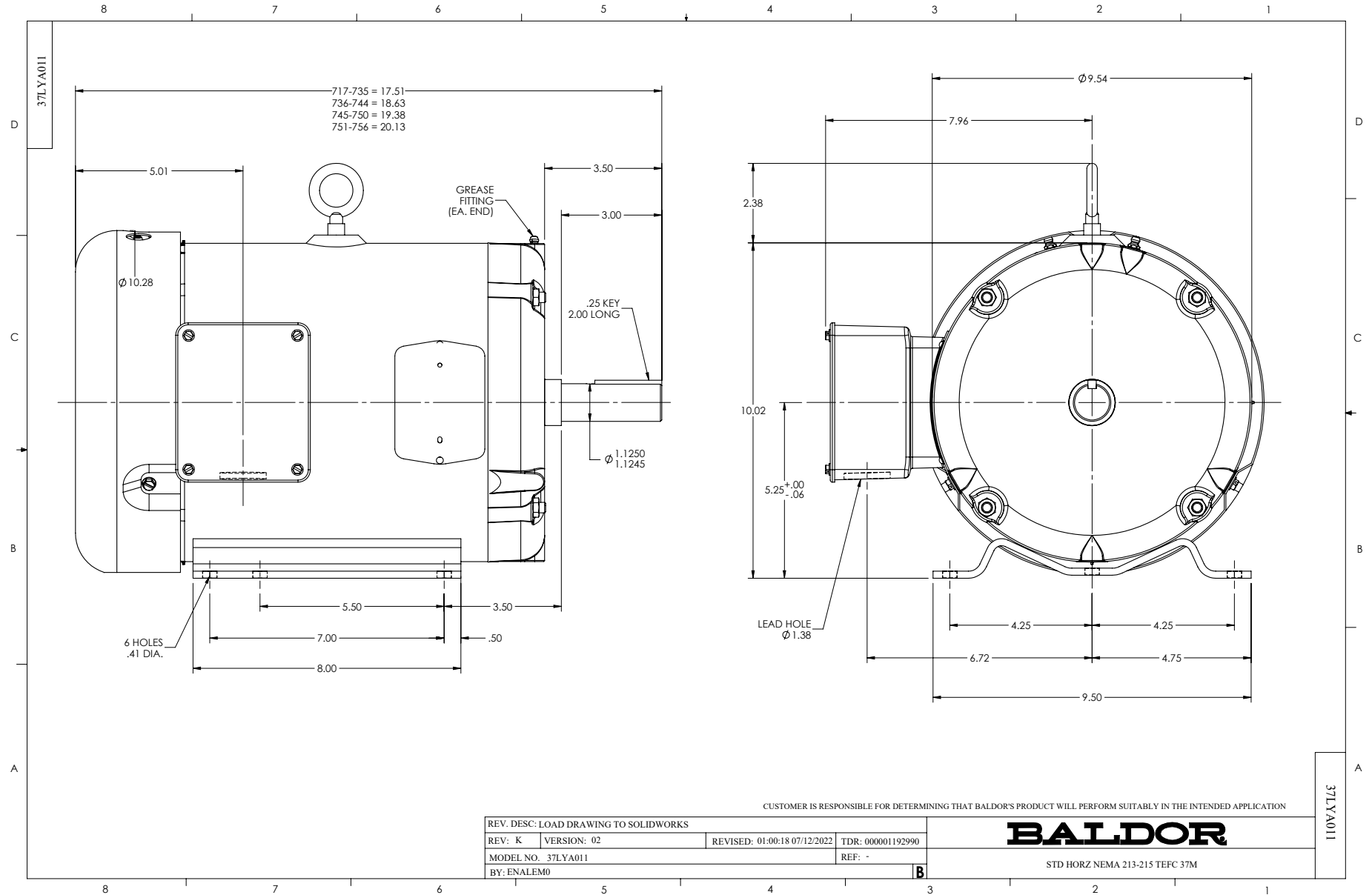
Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 865 RPM 460 V 3744M

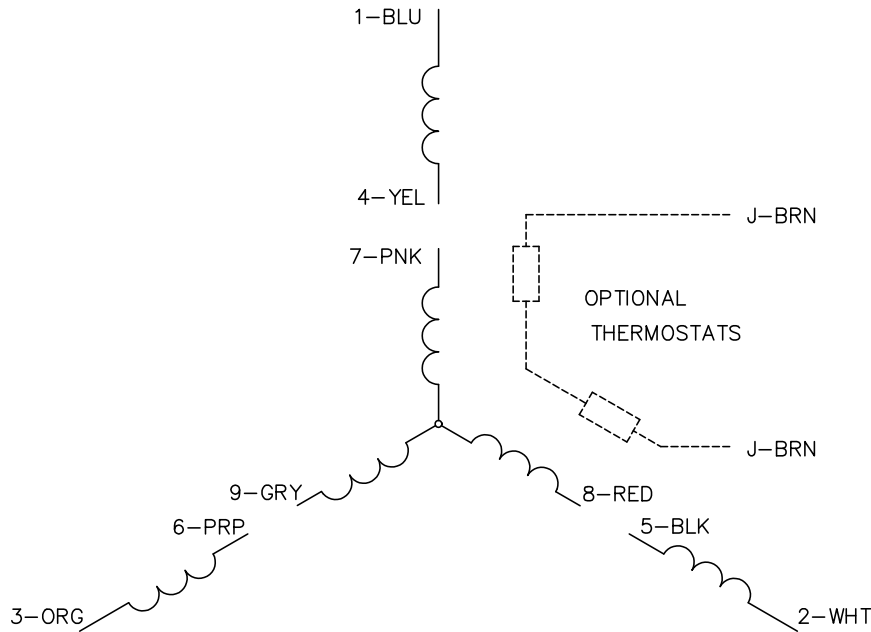
TORQUES (LB-FT): PO=36.2 PU=20.1 LR=22.2 LRA=18.7



11/6/2024 ACPERF, record # 57476



CD0005

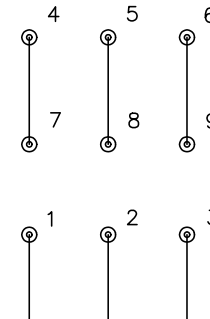


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS