

ABB BALDOR RELIANCE III

Customer information packet

EM3313T

10HP, 1768RPM, 3PH, 60HZ, 215T, 3738M, OPSB, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
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	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM
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	12.700 A @ 460.0 V 25.400 A @ 230.0 V 28.000 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	12.7 a

Part Detail

Revision	A
Type	AC
Mech. spec.	37F614
Base	
Status	PRD/A
Elec. spec.	37WGZ710
Layout	37LYF614
Eff. date	01-22-2026
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	11-07-2025

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3738M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.45 IN
Power Factor	81
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	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1768 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

NP3553LUA									
CAT.NO.	EM3313T								
SPEC.	37F614Z710								
HP	10								
VOLTS	230/460								
AMPS	25.4/12.7								
RPM	1768								
FRAME	215T		HZ	60		PH	3		
SF	1.15	CODE	H	DES	B	CLASS	F		
NEMA NOM. EFF	91.7	PF	81						
RATING	40C AMB-CONT								
CC	010A								
ENCL	OPSB	SN							
DE	6307		ODE	6206					
VPWM INVERTER READY		SFA 28.8/14.4							
CT30-60(2:1) VT3-60(20:1)									
USABLE AT	50HZ 7.5HP 190/380V 23.4/11.7A								SF1.0

Accessories

Part number	Description	Multiplier
37-1404	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 115744

Typical performance - not guaranteed values

Winding: 37WGZ710-R001				Type: 3738M		Enclosure: OPSB	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		10		Full Load Torque		29.77 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		25.4/12.7		Breakdown Torque		108 LB-FT	
R.P.M.		1768		Pull-up Torque		40.7 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		52.3 LB-FT	
NEMA Design Code		B	KVA Code	Starting Current		87.6 A	
Service Factor (S.F.)		1.15		No-load Current		5.88 A	
NEMA Nom. Eff.		91.7	Power Factor	Line-line Res. @ 25°C		1.1433 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		40°C	
S.F. Amps		28.8/14.4		Temp. Rise @ S.F. Load		50°C	
				Locked-rotor Power Factor		37.2	

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	40	62	74	79	82	83	81
Efficiency	88	91.9	92.3	91.7	90.7	89.3	91.1
Speed	1792.7	1785.4	1777.2	1768.4	1757.8	1747.3	1762
Line amperes	6.58	8.16	10.3	12.9	15.8	18.9	14.6

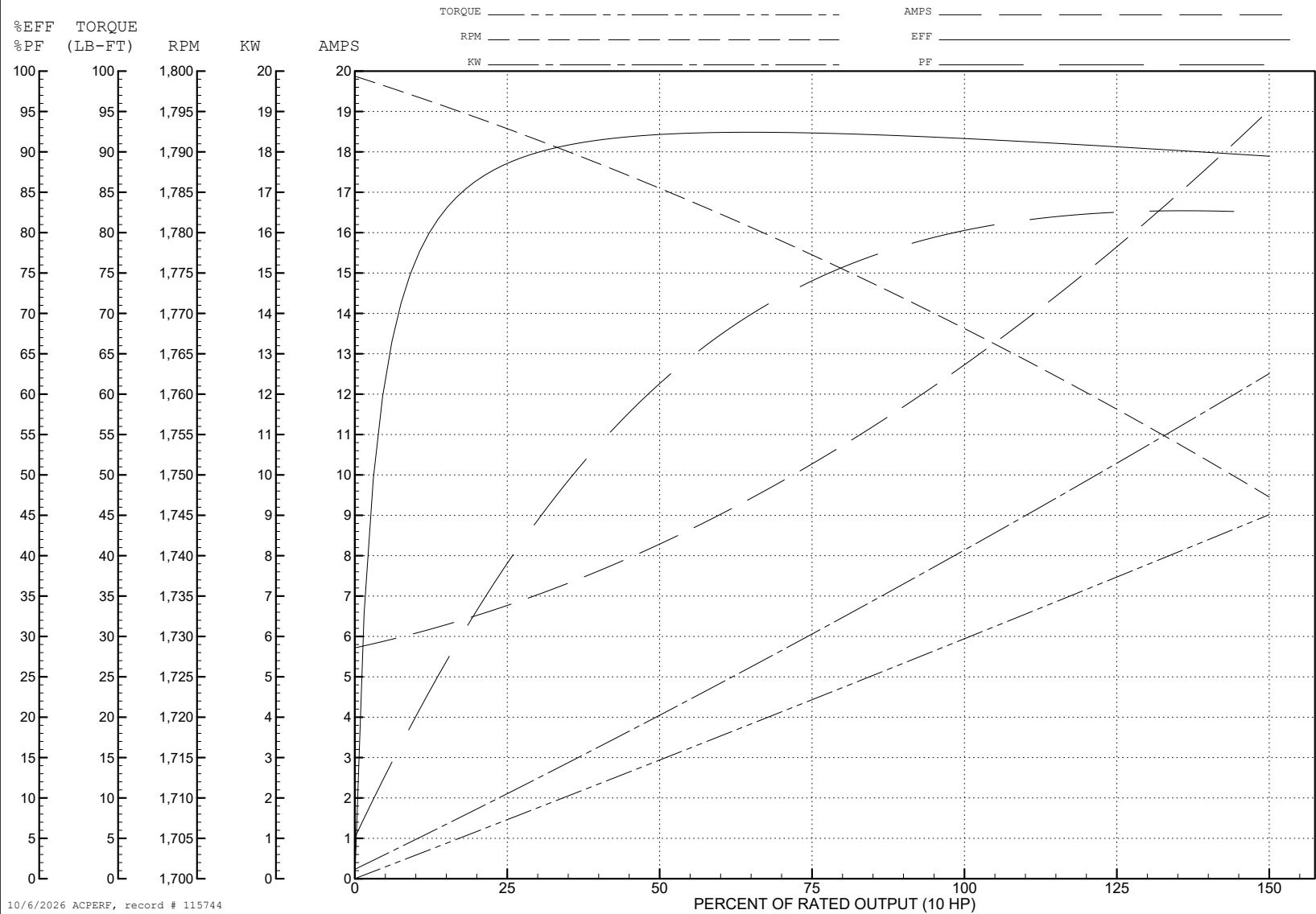
ABB Motors and Mechanical Inc.

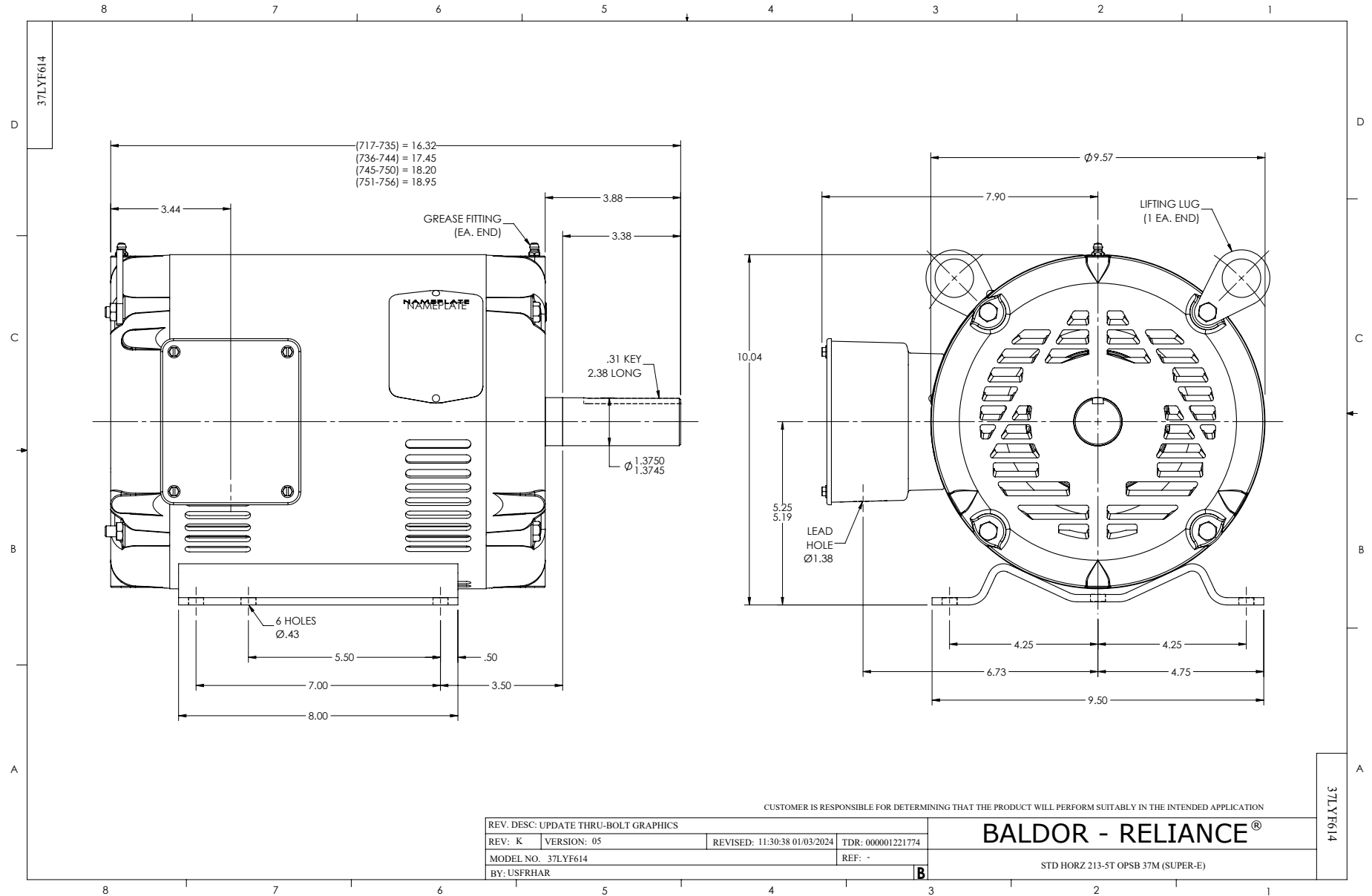
WINDING # 37WGZ710

Typical performance - not guaranteed values.

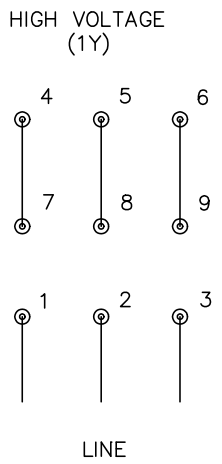
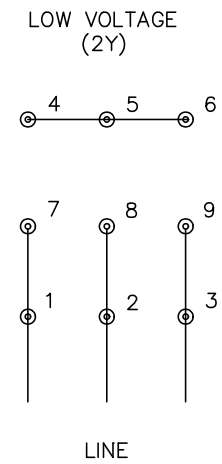
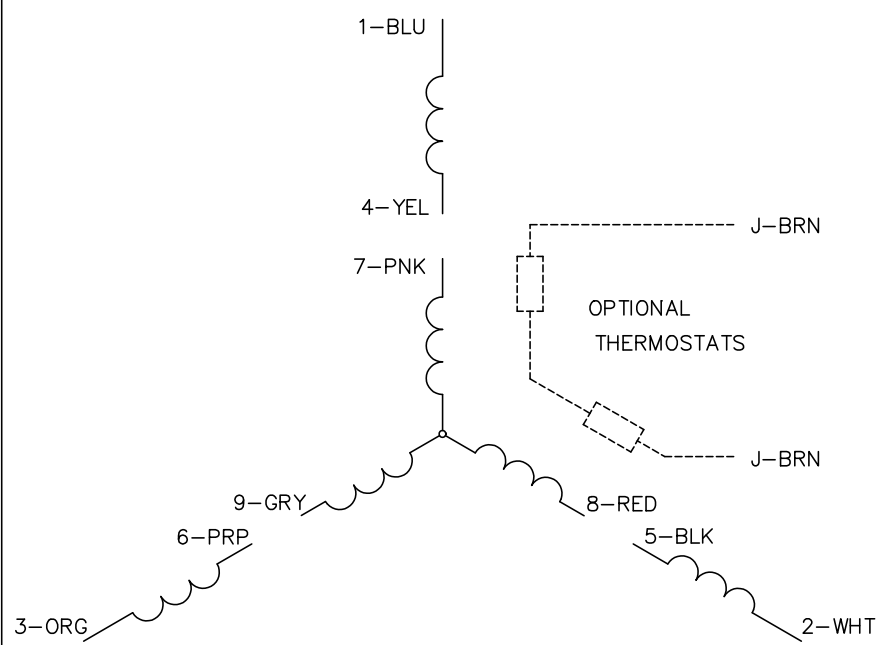
10 HP 3 PH 60 HZ 1768 RPM 460 V 3738M

TORQUES (LB-FT): PO=108 PU=40.7 LR=52.3 LRA=87.6





CD0005



- 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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005