

ABB BALDOR RELIANCE III

Customer information packet

ECTM3615T-57

3 AIR OVERHP, 1160RPM, 3PH, 60HZ, 213TZ, 3738

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
Frame	213TZ
Frame Material	Steel
Frequency	50.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	230.0 V @ 50 HZ 380.0 V @ 50 HZ 415.0 V @ 50 HZ
Agency Approvals	CSA CE UR
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	13.000 A @ 230.0 V 7.400 A @ 415.0 V 7.700 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	J
Type	AC
Mech. spec.	37Q128
Base	
Status	PRD/A
Elec. spec.	37WGL441
Layout	37LYQ128
Eff. date	05-14-2024
CD Diagram	CD0022
Poles	04
Leads	6#14
Proprietary	False
Created date	03-07-2017

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	7.4 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	6 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3736M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.45 IN
Power Factor	77
Product Family	WP Below Decks Marine Duty
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1460 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

NP2735L									
CAT NO	ECTM3615T-57								
SPEC.	37Q128L441G1								
HP	5/3.7KW AIR OVER						PH	3	
VOLTS	230/380-415								
AMP	13/7.7-7.4								
RPM	1460 1/MIN								
FRAME	213TZ		HZ	50			I.P.	55	
SER.F.	1.00	CODE	J	DES	B	CL	F		
NOM.EFF.	88.5		% (100%)						
PF	77	USABLE AT 208V					N/A		
RATING	40C AMB-S1 CONT				CC				
DE BRG	6307		ODE	6206					
ENCL	TEAO	SN							
BLANK	IE3-90.7(75%)91.7(50%)								
	IC418 61KG								

AC Induction Motor Performance Data

Record # 62992

Typical performance - not guaranteed values

Winding: 37WGL441-R001			Type: 3736M		Enclosure: TEAO	
Nameplate Data			415 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		5 AIR OVER	Full Load Torque		17.75 LB-FT	
Volts		230/380-415	Start Configuration		direct on line	
Full Load Amps		13/7.7-7.4	Breakdown Torque		56.34 LB-FT	
R.P.M.		1460	Pull-up Torque		33.81 LB-FT	
Hz	50 Phase	3	Locked-rotor Torque		41.28 LB-FT	
NEMA Design Code		B KVA Code	J	Starting Current		55.15 A
Service Factor (S.F.)		1	No-load Current		3.55 A	
NEMA Nom. Eff.		88.5 Power Factor	77	Line-line Res. @ 25°C		2.3 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		42°C	
			Locked-rotor Power Factor		45.5	
			Rotor inertia		0.885 LB-FT2	

Load Characteristics 415 V, 50 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	39	60	72	77	81	82
Efficiency	85.3	89.7	90.6	90.3	89.6	87.3
Speed	1492	1486	1478	1471	1462	1452
Line amperes	3.9	4.74	5.91	7.37	8.98	10.83

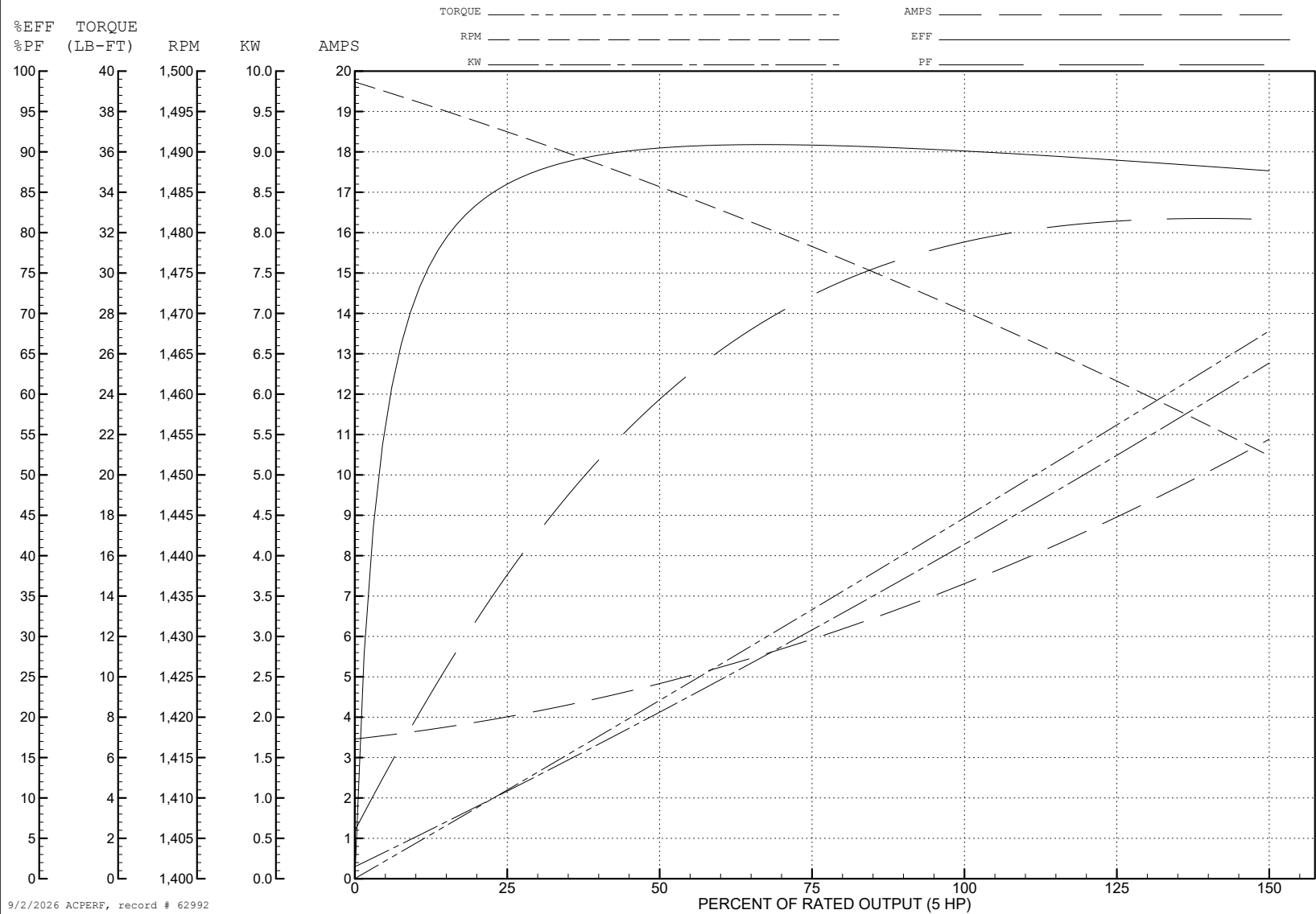
ABB Motors and Mechanical Inc.

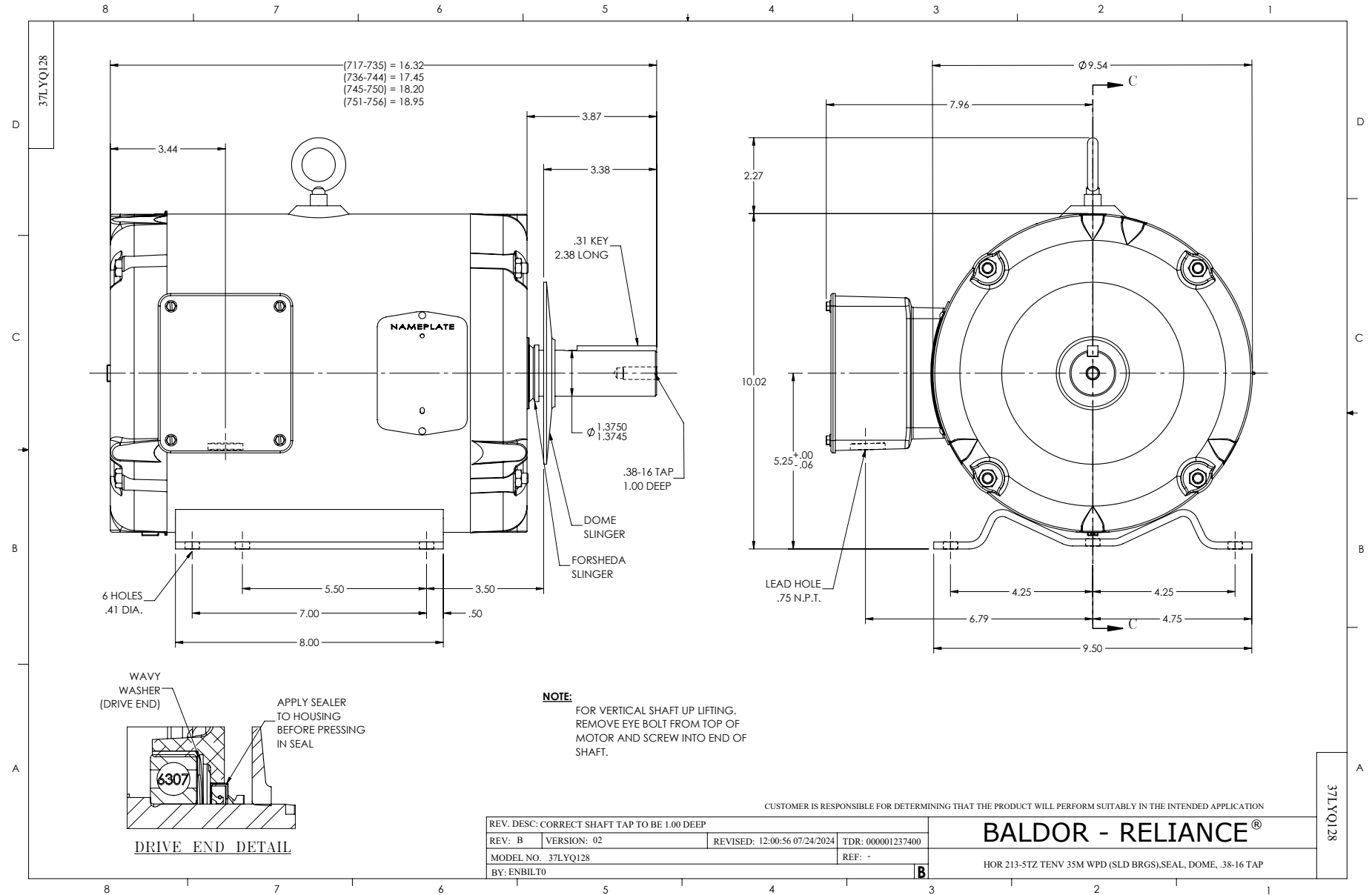
WINDING # 37WGL441

Typical performance - not guaranteed values.

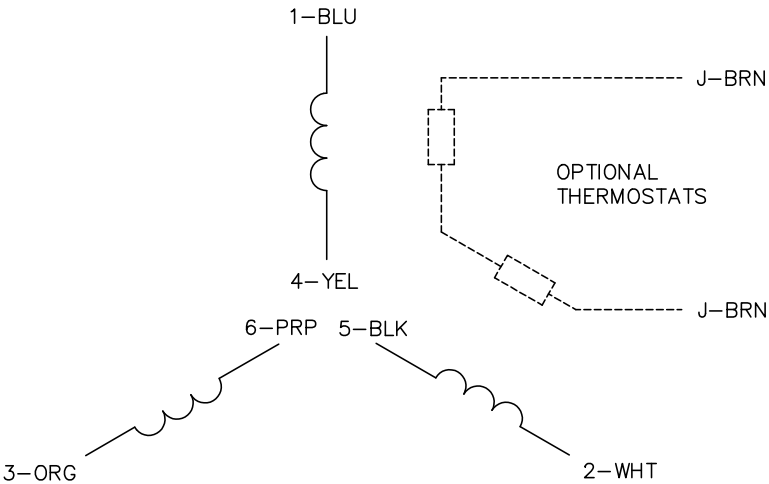
5 HP 3 PH 50 HZ 1460 RPM 415 V 3736M

TORQUES (LB-FT) : PO=56.34 PU=33.81 LR=41.28 LRA=55.15

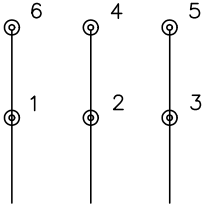




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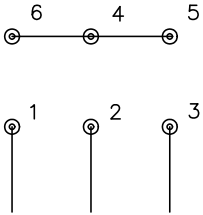


LOW VOLTAGE
(1D)



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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: F

BY: JLP

REVISED: 01/21/99 3:54

TDR: 0171435

CD0022

FILE: AAA00005144

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 6 LEADS, DELTA/WYE CONNECTION

CD0022