

ABB BALDOR RELIANCE III

Customer information packet

ECTM3708T-5

5 AIR OVERHP, 1160RPM, 3PH, 60HZ, 213TZ, 3750

Class - None

Division - Not Applicable

Specifications

Enclosure	TEAO
Frame	213TZ
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
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	5.600 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
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	5.6 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	J
Type	AC
Mech. spec.	37Q128
Base	
Status	PRD/A
Elec. spec.	37WGQ036
Layout	37LYQ128
Eff. date	06-27-2024
CD Diagram	CD0006
Poles	06
Leads	3#14
Proprietary	False
Created date	01-04-2017

KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3750M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	18.20 IN
Power Factor	75
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	1160 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

NP2117L									
CAT.NO.	ECTM3708T-5								
SPEC.	37Q128Q036G1								
HP	5 AIR OVER								
VOLTS	575								
AMP	5.6								
RPM	1160								
FRAME	213TZ		HZ	60		PH		3	
SER.F.	1.00		CODE	J	DES	B		CL	F
NEMA-NOM-EFF	89.5		PF	75					
RATING	40C AMB-CONT								
CC									
DE	6307		ODE	6206					
ENCL	TEAO		SN						

AC Induction Motor Performance Data

Record # 61098

Typical performance - not guaranteed values

Winding: 37WGQ036-R001			Type: 3750M		Enclosure: TEAO			
Nameplate Data			575 V, 60 Hz: Single Voltage Motor					
Rated Output (HP)		5 AIR OVER	Full Load Torque		22.79 LB-FT			
Volts		575	Start Configuration		direct on line			
Full Load Amps		5.6	Breakdown Torque		64.92 LB-FT			
R.P.M.		1160	Pull-up Torque		43.16 LB-FT			
Hz		60	Phase		3	Locked-rotor Torque	48.19 LB-FT	
NEMA Design Code		B	KVA Code		J	Starting Current		36.52 A
Service Factor (S.F.)					1	No-load Current		2.49 A
NEMA Nom. Eff.		89.5	Power Factor		75	Line-line Res. @ 25°C		2.94 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		56°C		
				Locked-rotor Power Factor		21.6		
				Rotor inertia		1.24 LB-FT2		

Load Characteristics 575 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	40	60	70	75	77	77
Efficiency	85.9	90	90.2	89.8	88.2	85.2
Speed	1191	1181	1170	1158	1144	1125
Line amperes	2.77	3.48	4.46	5.58	6.93	8.59

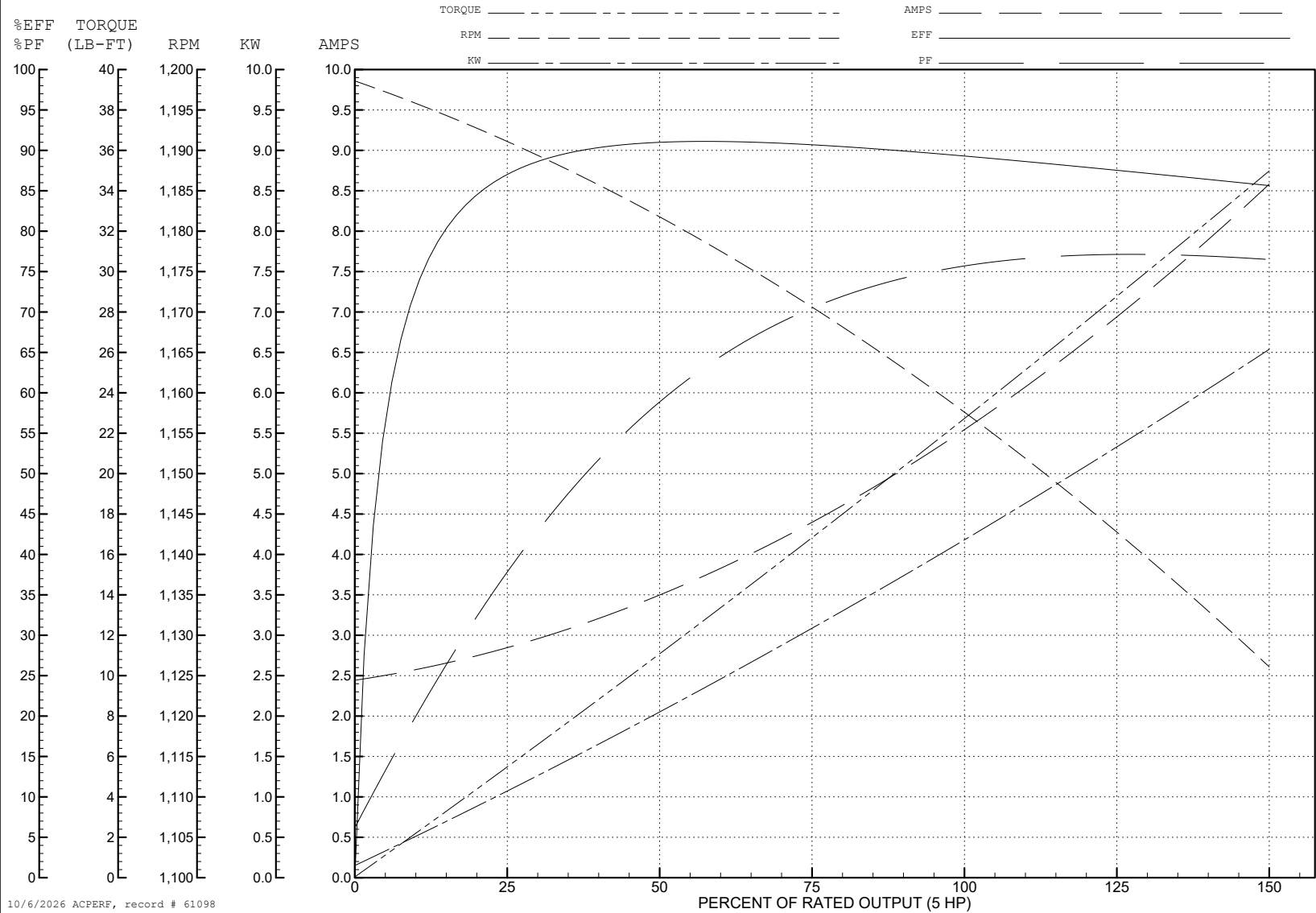
ABB Motors and Mechanical Inc.

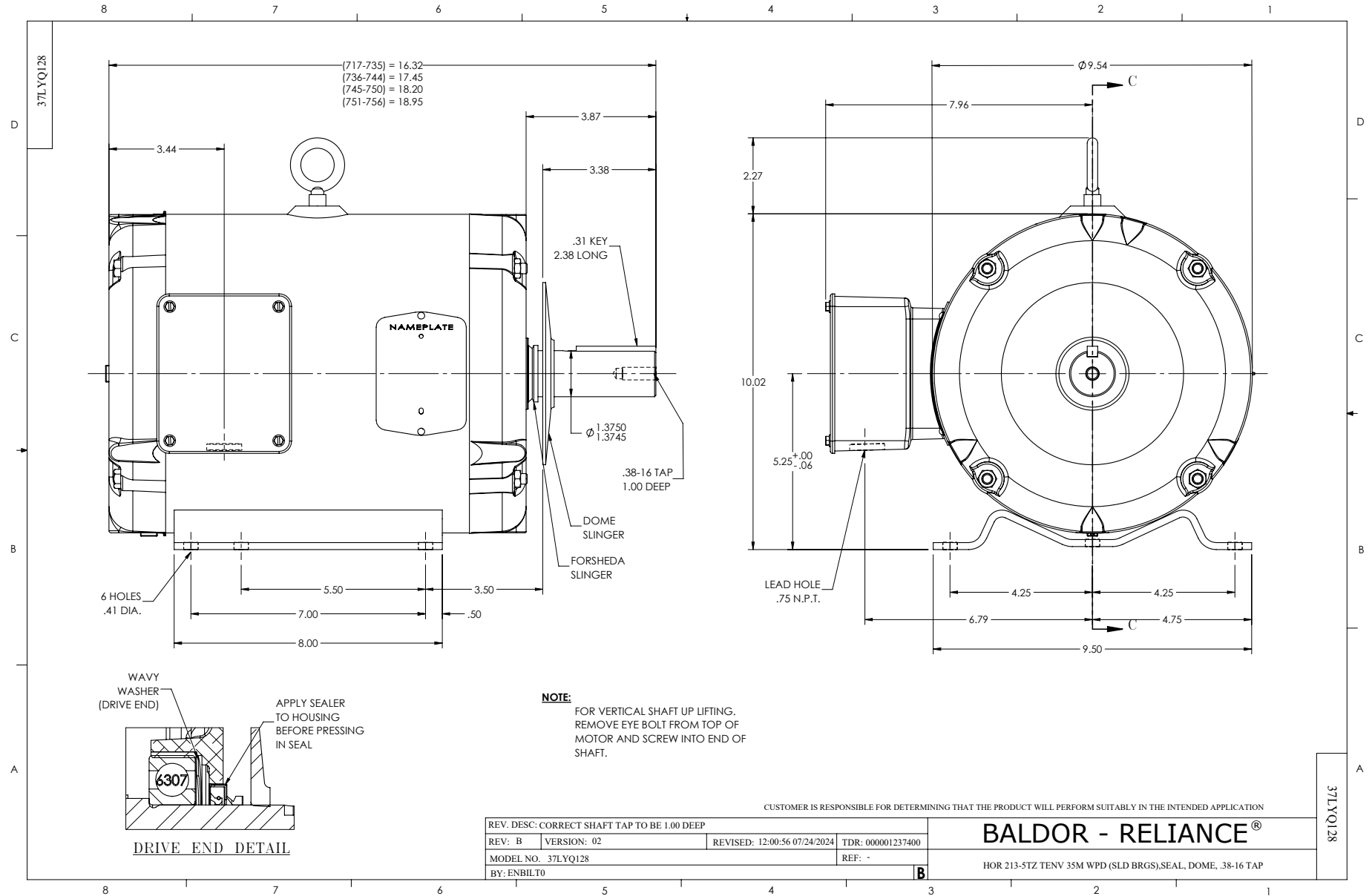
WINDING # 37WGQ036

Typical performance - not guaranteed values.

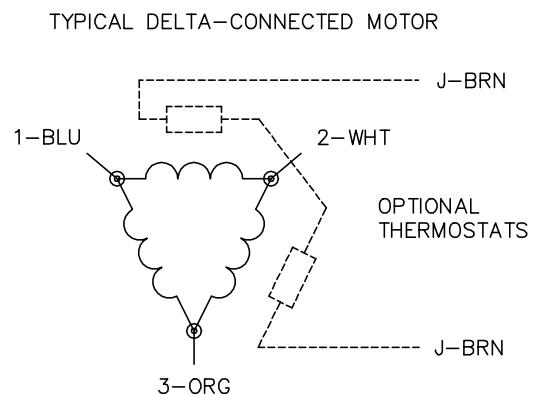
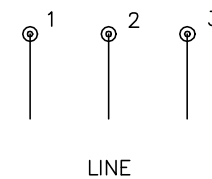
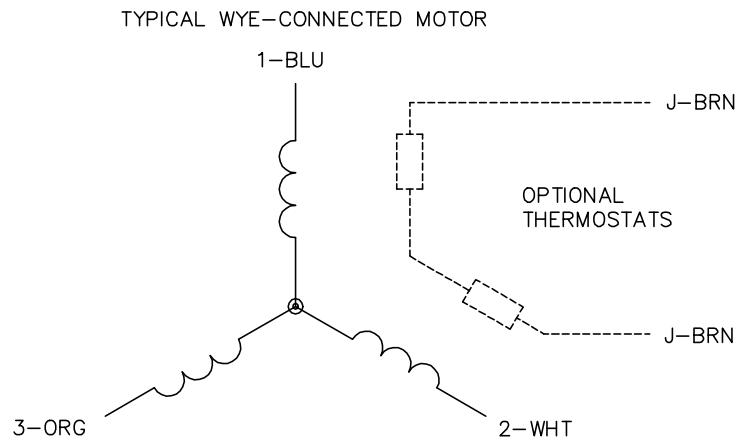
5 HP 3 PH 60 HZ 1160 RPM 575 V 3750M

TORQUES (LB-FT) : PO=64.92 PU=43.16 LR=48.19 LRA=36.52





CD0006


NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10:24:49 02/19/2019

BY: ENBRIRO

MTL: -


BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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