ABB BALDOR RELIANCE

Customer information packet

ECTM3708T-5

5 AIR OVERHP, 1160RPM, 3PH, 60HZ, 213TZ, 3750
Class - None
Division - Not Applicable

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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. @ 25ºC**	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

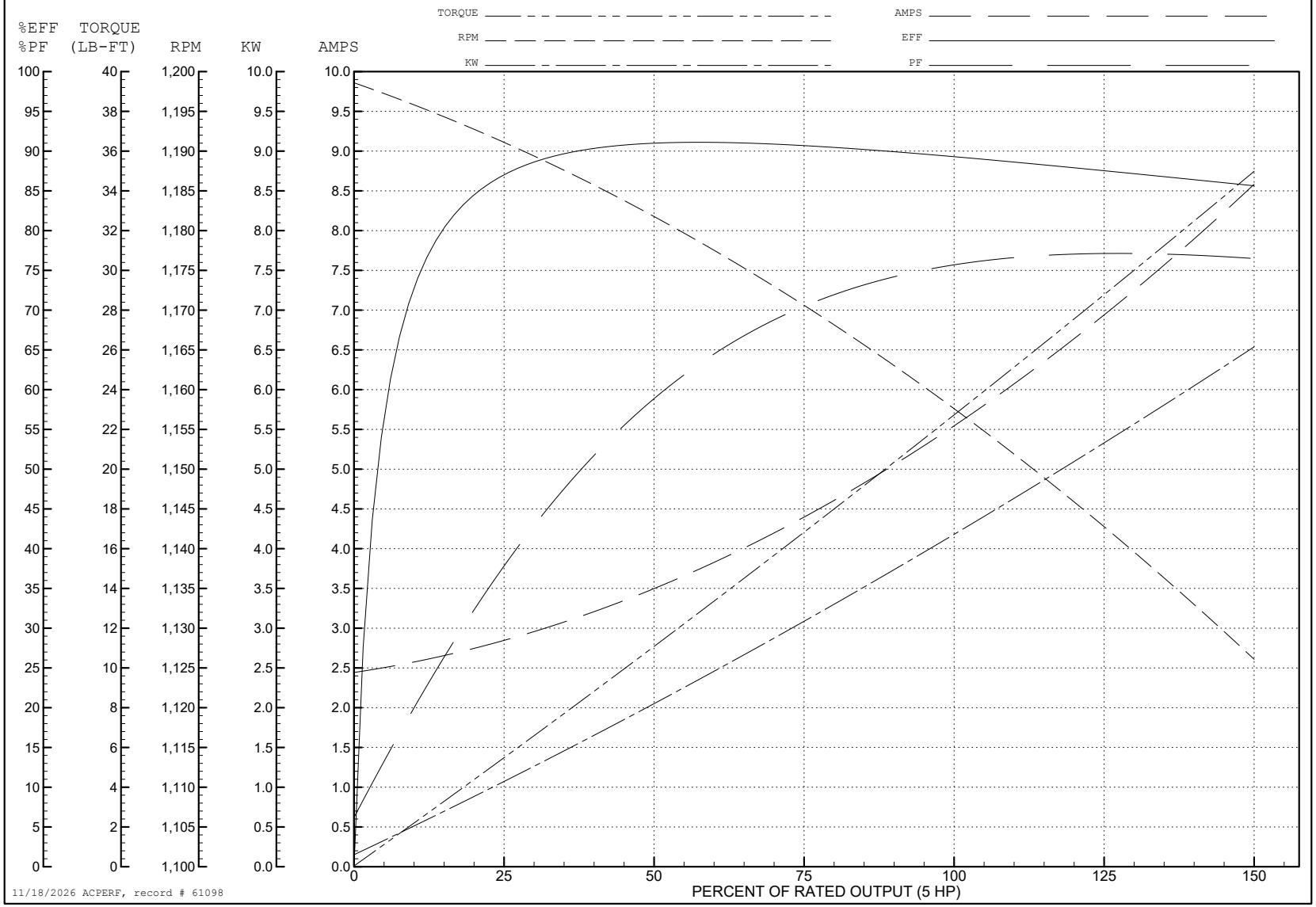
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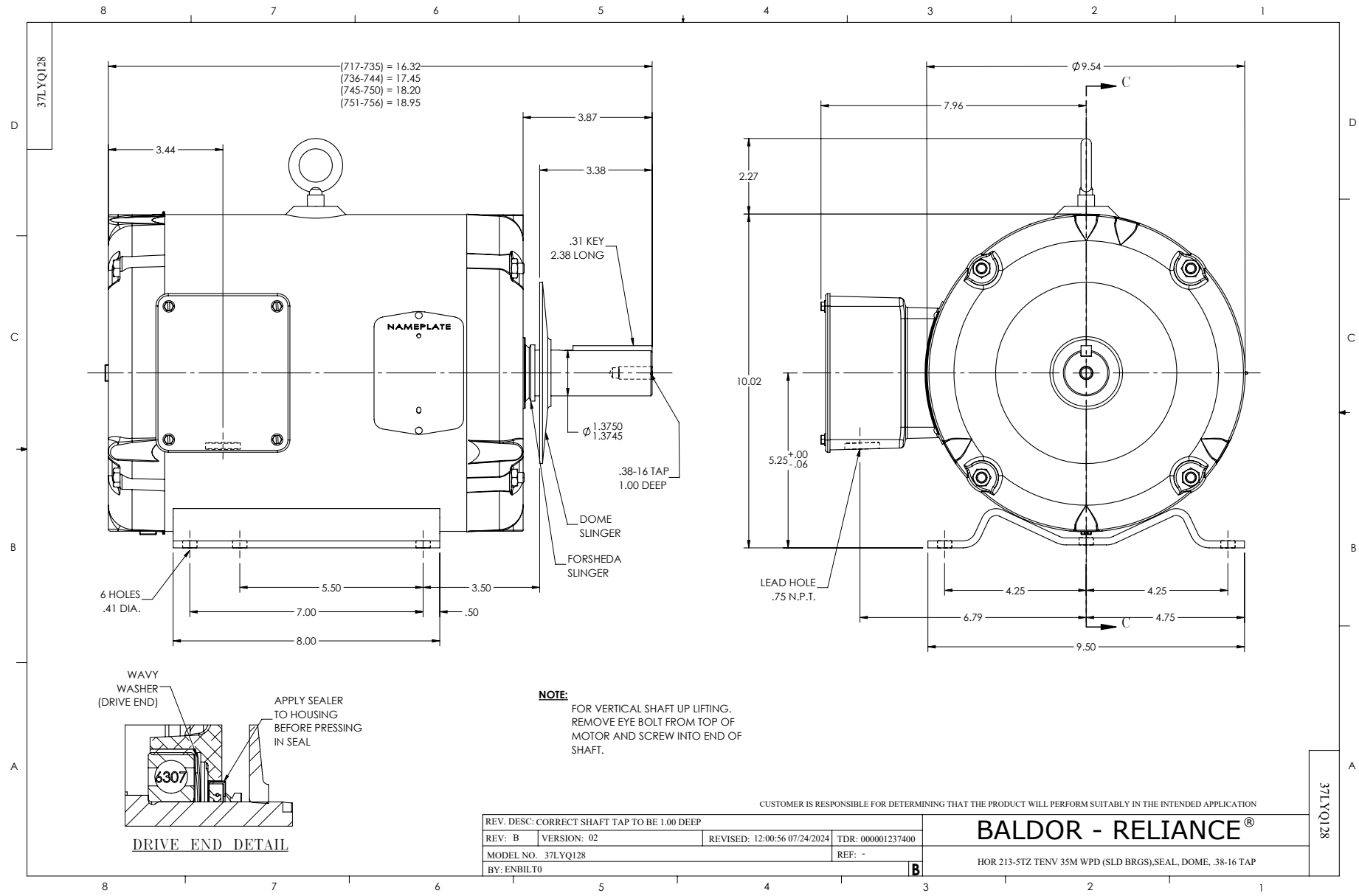
WINDING # 37WGQ036

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

Typical performance - not guaranteed values.

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





NOTE:
FOR VERTICAL SHAFT UP LIFTING. REMOVE EYE BOLT FROM TOP OF MOTOR AND SCREW INTO END OF SHAFT.

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: CORRECT SHAFT TAP TO BE 1.00 DEEP			
REV: B	VERSION: 02	REVISED: 12:00:56 07/24/2024	TDR: 000001237400
MODEL NO. 37LYQ128			REF: -
BY: ENBILT0			B

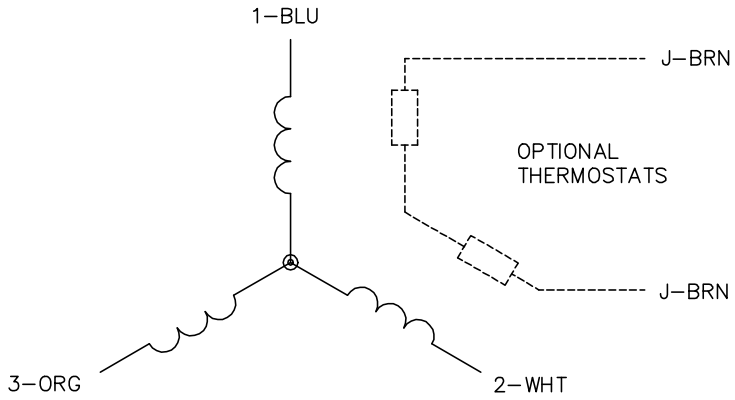
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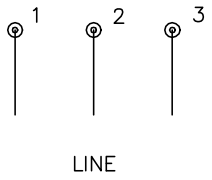
HOR 213-5TZ TENV 35M WPD (SLD BRGS),SEAL, DOME, .38-16 TAP

37LYQ128

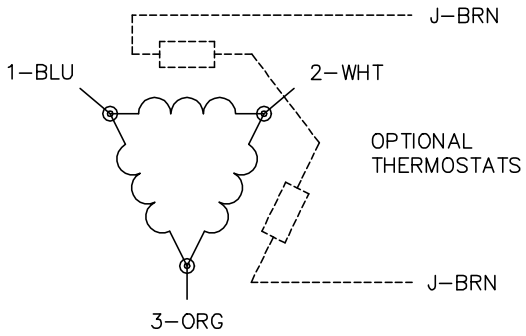
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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: ENBRIR0
MTL: –		

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

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