ABB BALDOR RELIANCE

Customer information packet

ECTM3704T

3 AIR OVERHP, 1160RPM, 3PH, 60HZ, 213TZ, 3738
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	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 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	4.600 A @ 460.0 V
	9.200 A @ 230.0 V
	9.600 A @ 208.0 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

Part Detail

Revision	H
Type	AC
Mech. spec.	37Q128
Base	
Status	PRD/A
Elec. spec.	37WGS519
Layout	37LYQ128
Eff. date	06-27-2024
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	01-04-2017

High Voltage Full Load Amps	4.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
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	3738M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	17.45 IN
Power Factor	68
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.	ECTM3704T								
SPEC.	37Q128S519G1								
HP	3 AIR OVER								
VOLTS	230/460								
AMP	9.2/4.6								
RPM	1160								
FRAME	213TZ	**HZ**	60		**PH**	3			
SER.F.	1.00	**CODE**	L	**DES**	B	**CL**	F		
NEMA-NOM-EFF	89.5	**PF**	68						
RATING	40C AMB-CONT								
CC									
DE	6307	**ODE**	6206						
ENCL	TEAO	**SN**							

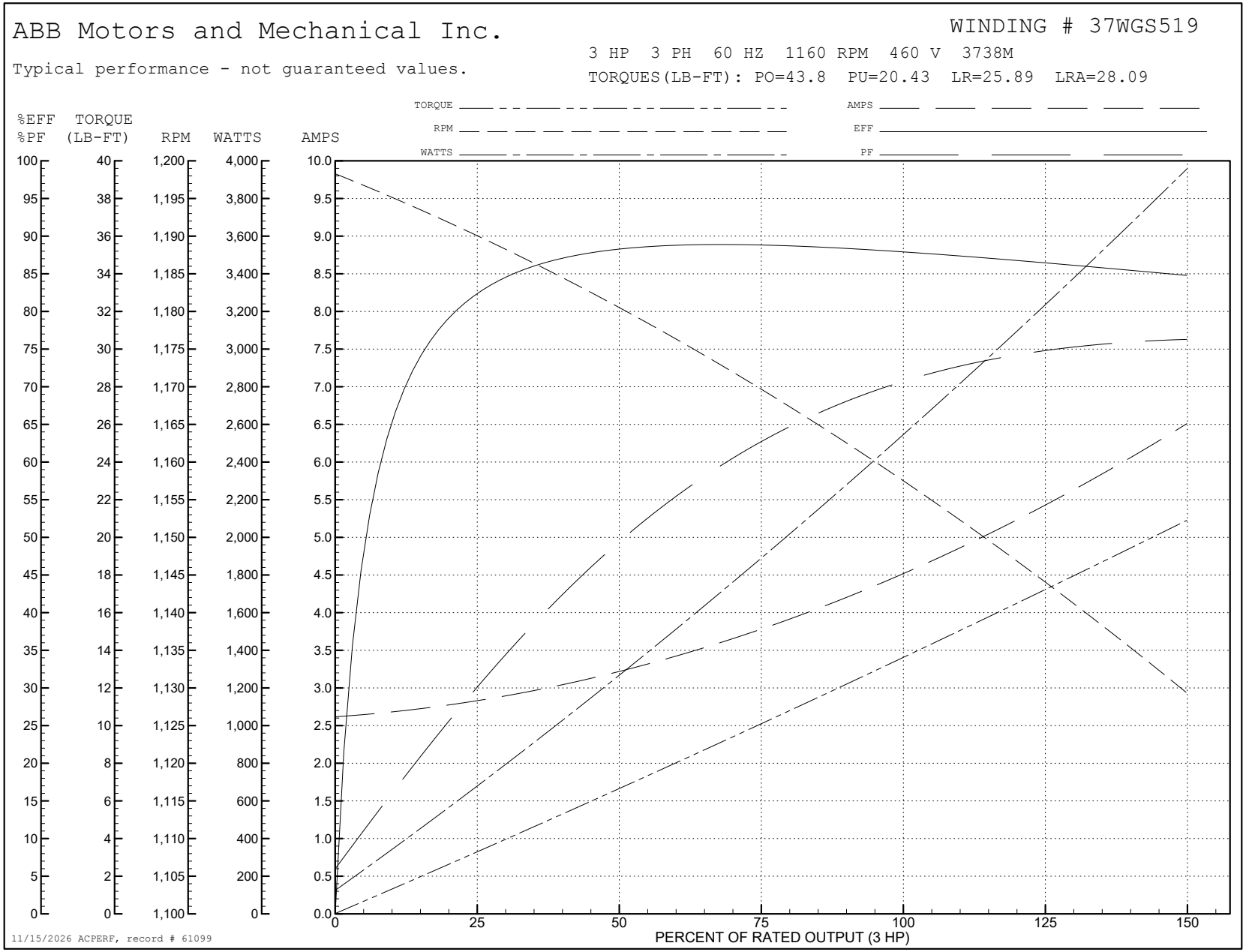
AC Induction Motor Performance Data
Record # 61099
Typical performance - not guaranteed values

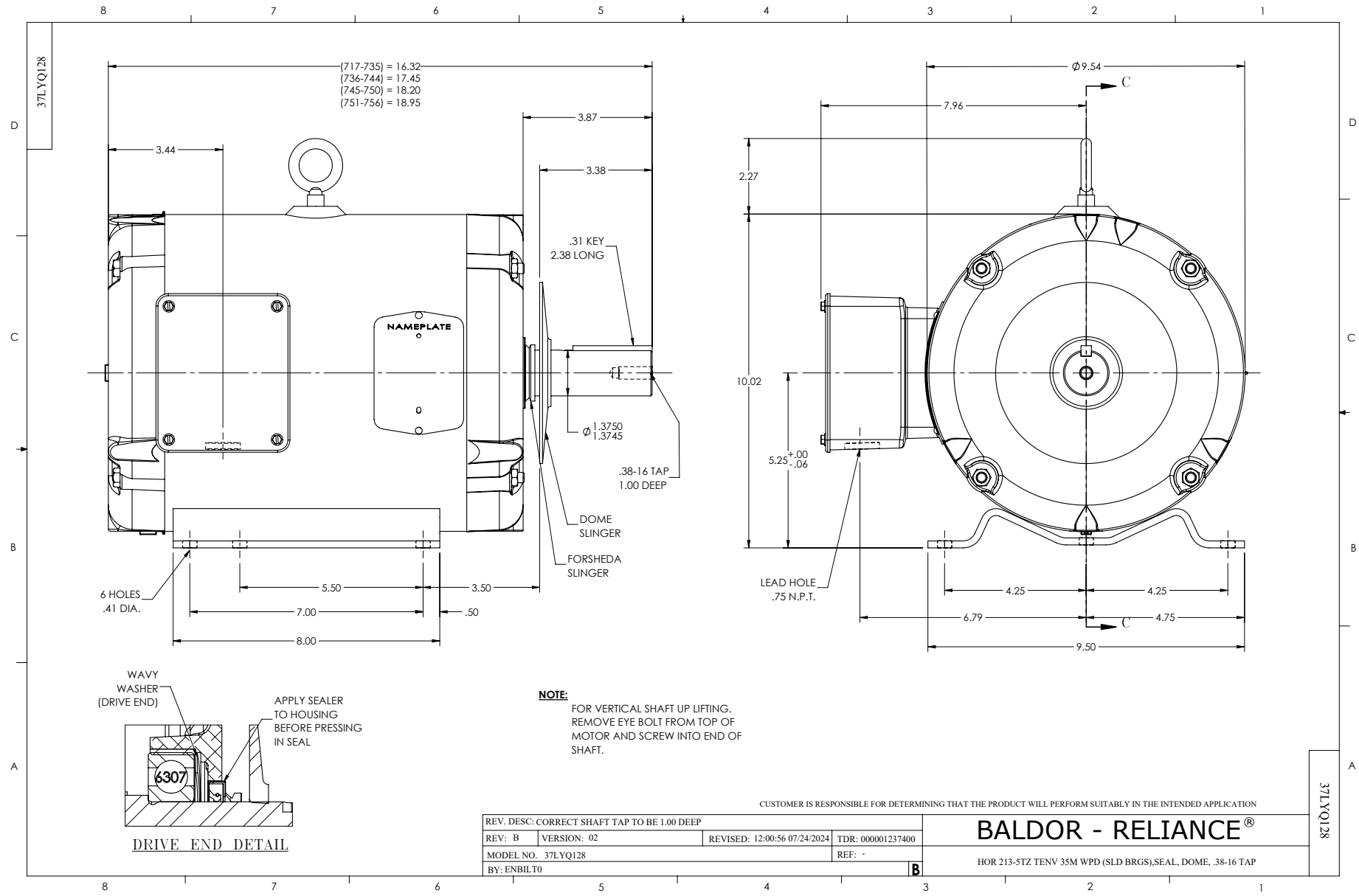
Winding: 37WGS519-R040	**Type:** 3738M	**Enclosure:** TEAO

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3 AIR OVER	**Full Load Torque**	13.61 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			9.2/4.6	**Breakdown Torque**	43.8 LB-FT
R.P.M.			1160	**Pull-up Torque**	20.43 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	25.89 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	28.09 A
Service Factor (S.F.)			1	**No-load Current**	2.67 A
NEMA Nom. Eff.	89.5	**Power Factor**	68	**Line-line Res. @ 25ºC**	2.67 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	
				Locked-rotor Power Factor	22.9
				Rotor inertia	0.945 LB-FT2

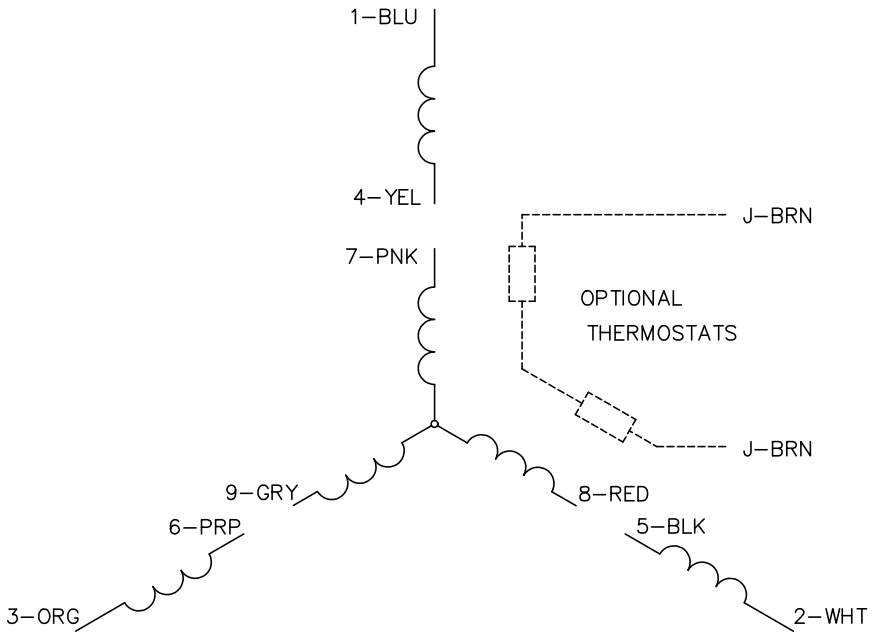
Load Characteristics 460 V, 60 Hz, 3 HP

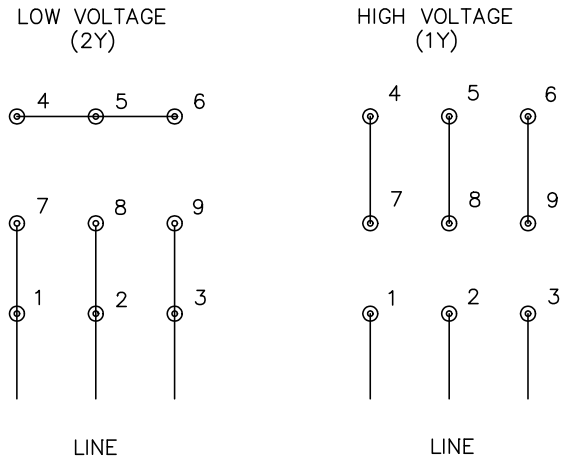
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	31	51	63	70	74	77
Efficiency	81.9	86.9	89	88.2	86.9	84.5
Speed	1189	1180	1170	1158	1144	1129
Line amperes	2.77	3.18	3.8	4.57	5.47	6.47


ABB Motors and Mechanical Inc.
WINDING # 37WGS519
Typical performance - not guaranteed values.
3 HP 3 PH 60 HZ 1160 RPM 460 V 3738M
TORQUES(LB-FT): PO=43.8 PU=20.43 LR=25.89 LRA=28.09
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (3 HP)
11/15/2026 ACPERF, record # 61099


37LYQ128
(717-735) = 16.32
(736-744) = 17.45
(745-750) = 18.20
(751-756) = 18.95
3.87
3.44
3.38
.31 KEY
2.38 LONG
NAMEPLATE
Ø 1.3750
1.3745
.38-16 TAP
1.00 DEEP
DOME
SLINGER
FORSHEDA
SLINGER
6 HOLES
.41 DIA.
5.50
3.50
7.00
.50
8.00
Ø9.54
C
7.96
2.27
10.02
5.25 +.00 -.06
LEAD HOLE
.75 N.P.T.
4.25
4.25
6.79
4.75
9.50
WAVY
WASHER
(DRIVE END)
APPLY SEALER
TO HOUSING
BEFORE PRESSING
IN SEAL
6307
DRIVE END DETAIL
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
BALDOR - RELIANCE®
HOR 213-5TZ TENV 35M WPD (SLD BRGS),SEAL, DOME, .38-16 TAP
37LYQ128

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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS