

ABB BALDOR RELIANCE III

Customer information packet

EHM3311T-8

7.5HP, 1770RPM, 3PH, 60HZ, 213T, 3734M, OPSB, F

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	213T
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	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	200.0 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	23.300 A @ 200.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
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	23.3 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	L
Type	AC
Mech. spec.	37J637
Base	
Status	PRD/A
Elec. spec.	37WGZ613
Layout	37LYJ637
Eff. date	07-10-2025
CD Diagram	CD0006
Poles	04
Leads	3#12
Proprietary	False
Created date	03-14-2016

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 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3734M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.32 IN
Power Factor	77
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 Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 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

NP2094E06B03											
CAT.NO.	EHM3311T-8										
SPEC.	37J637Z613G1										
HP	7.5										
VOLTS	200										
AMPS	23.3										
RPM	1770										
FRAME	213T		HZ	60			PH	3			
SER.F.	1.15	CODE	J	DES	A		CL	F			
NEMA-NOM-EFF	91		PF	77							
RATING	40C AMB-CONT										
CC	010A		USABLE AT 208V					N/A			
DE	6307		ODE	6206							
AUTO	N	MANUAL		N	NONE	Y					
ENCL	OPSB	SN									
BLANK	SFA 26										

Parts List

Part number	Description	Quantity
SA317329	SA 37J637Z613G1	1.000 ea
RA304941	RA 37J637Z613G1	1.000 ea
HA6361A01	LIFTING LUG FOR 37, 39 & 40 FRAME ZINC	2.000 ea
37CB3006	37 CB CASTING W/1.38 LEAD HOLE @ 6:00	1.000 ea
51XW2520A10	.25-20 X .62, TAPTITE II, HEX WSHR SLTD	4.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
37EP3203D00	MASTER,ODE,206 BRG,GREASER,RELIEF	1.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
37EP3204A00	MASTER,DE,307 BRG,GREASER,RELIEF,AEGIS H	1.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
91XN0540J08	SCREW, 5-40 X 1/2", FHC, AS	4.000 ea
91XN0632J04	SCREW, 6-32 X 1/4", FHC, AS	2.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
37CB4516	LIPPED LID FOR 37 FRAME NEC KOBX	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501F21	KEY, 5/16 SQ X 2.375	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.028 ga
37AD2001A01	BAFFLE PLATE, PLASTIC 0.63" WIDTH	2.000 ea
HA3104A39	THRUBOLT-5/16-18 X 12.250	4.000 ea
LC0006	CONNECTION LABEL	1.000 ea
NP2094E06B03	NP LABEL W/BARCODE (PREM EFF HVAC MTR)	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data

Record # 57432

Typical performance - not guaranteed values

Winding: 37WGZ613-R001			Type: 3734M		Enclosure: OPSB			
Nameplate Data			200 V, 60 Hz: Single Voltage Motor					
Rated Output (HP)		7.5	Full Load Torque		22.2 LB-FT			
Volts		200	Start Configuration		direct on line			
Full Load Amps		23.3	Breakdown Torque		72 LB-FT			
R.P.M.		1770	Pull-up Torque		34 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		42.9 LB-FT		
NEMA Design Code		A	KVA Code	J	Starting Current		168 A	
Service Factor (S.F.)		1.15	No-load Current		11.8 A			
NEMA Nom. Eff.		91	Power Factor		77	Line-line Res. @ 25°C		0.29 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		35°C
S.F. Amps						Temp. Rise @ S.F. Load		43°C
						Locked-rotor Power Factor		39.9
						Rotor inertia		0.836 LB-FT ²

Load Characteristics 200 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	59	71	77	81	82	79
Efficiency	84.6	90.2	91.1	91.1	90.5	89	90.7
Speed	1794	1788	1780	1774	1765	1755	1769
Line amperes	12.8	15.2	18.8	22.9	27.6	32.9	25.7

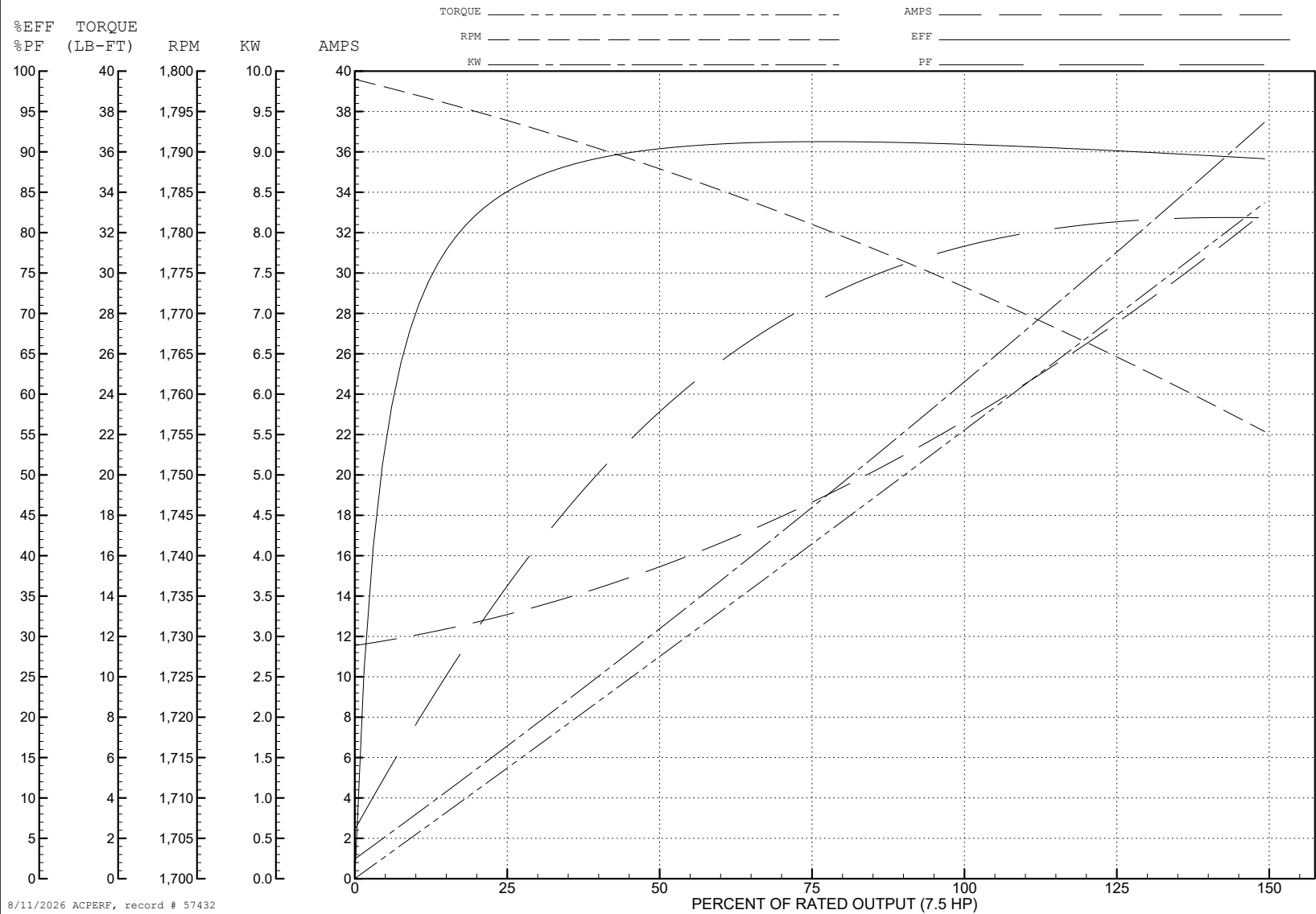
ABB Motors and Mechanical Inc.

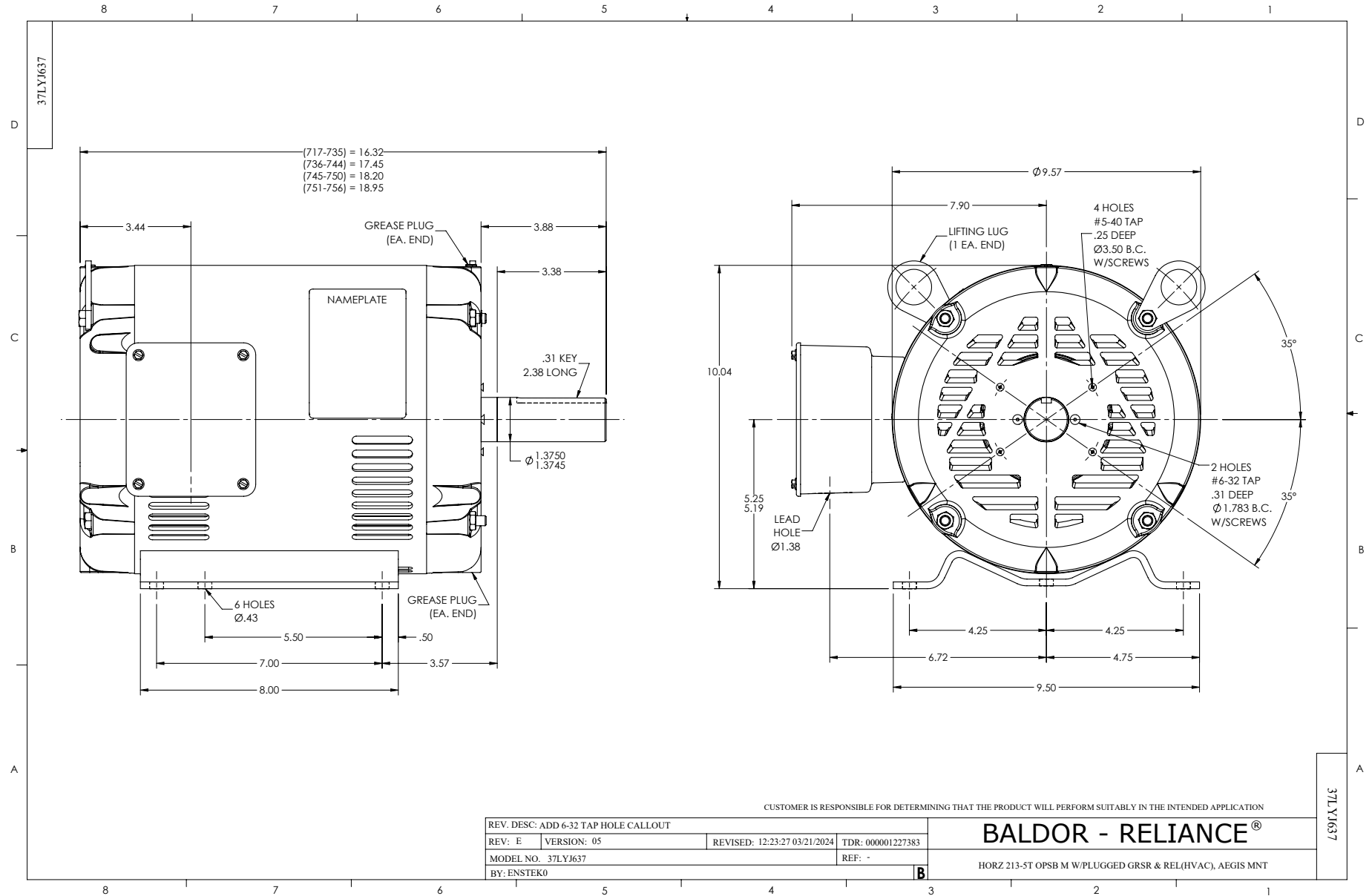
WINDING # 37WGZ613

Typical performance - not guaranteed values.

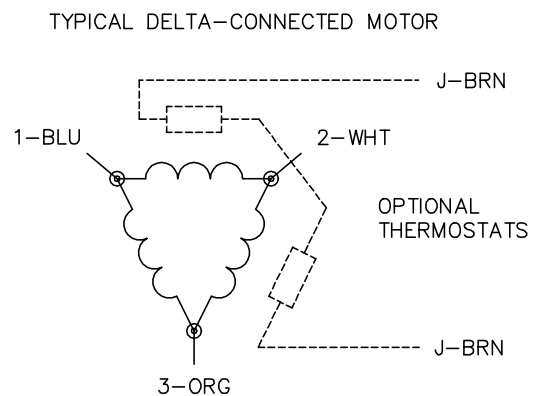
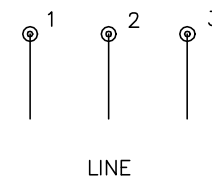
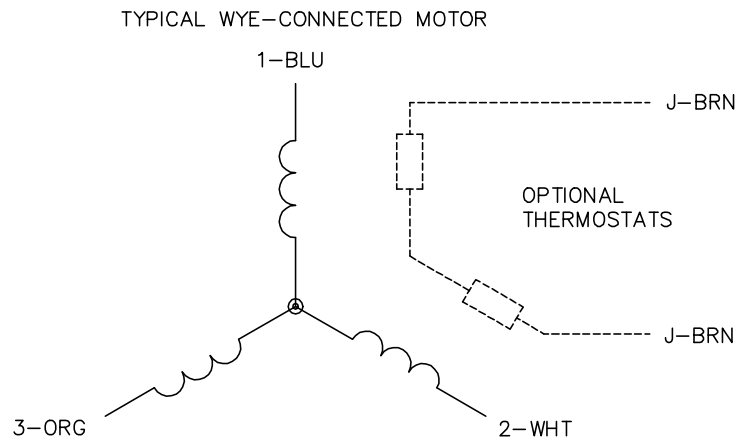
7.5 HP 3 PH 60 HZ 1770 RPM 200 V 3734M

TORQUES (LB-FT) : PO=72 PU=34 LR=42.9 LRA=168





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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