

ABB BALDOR RELIANCE III

Customer information packet

EHFM3311T-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	22.200 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	22.2 a
Insulation Class	B
Inverter Code	Inverter Ready

Part Detail

Revision	J
Type	AC
Mech. spec.	37L724
Base	
Status	PRD/A
Elec. spec.	37WGS797
Layout	37LYL724
Eff. date	07-22-2026
CD Diagram	CD0006
Poles	04
Leads	3#12
Proprietary	False
Created date	02-18-2010

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	F2
Number of Poles	4
Overall Length	16.32 IN
Power Factor	79
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
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.	EHFM3311T-8										
SPEC.	37L724S797G1										
HP	7.5										
VOLTS	200										
AMPS	22.2										
RPM	1770										
FRAME	213T		HZ	60				PH	3		
SER.F.	1.15	CODE	J		DES	A		CL	B		
NEMA-NOM-EFF	91		PF	79							
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 25.7										

AC Induction Motor Performance Data

Record # 30489

Typical performance - not guaranteed values

Winding: 37WGS797-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		22.2	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		79	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	82
Efficiency	84.6	90.2	91.1	91.1	90.5	89	90.7
Speed	1794	1788	1780	1774	1765	1755	1766
Line amperes	12.8	15.2	18.8	22.9	27.6	32.9	25.1

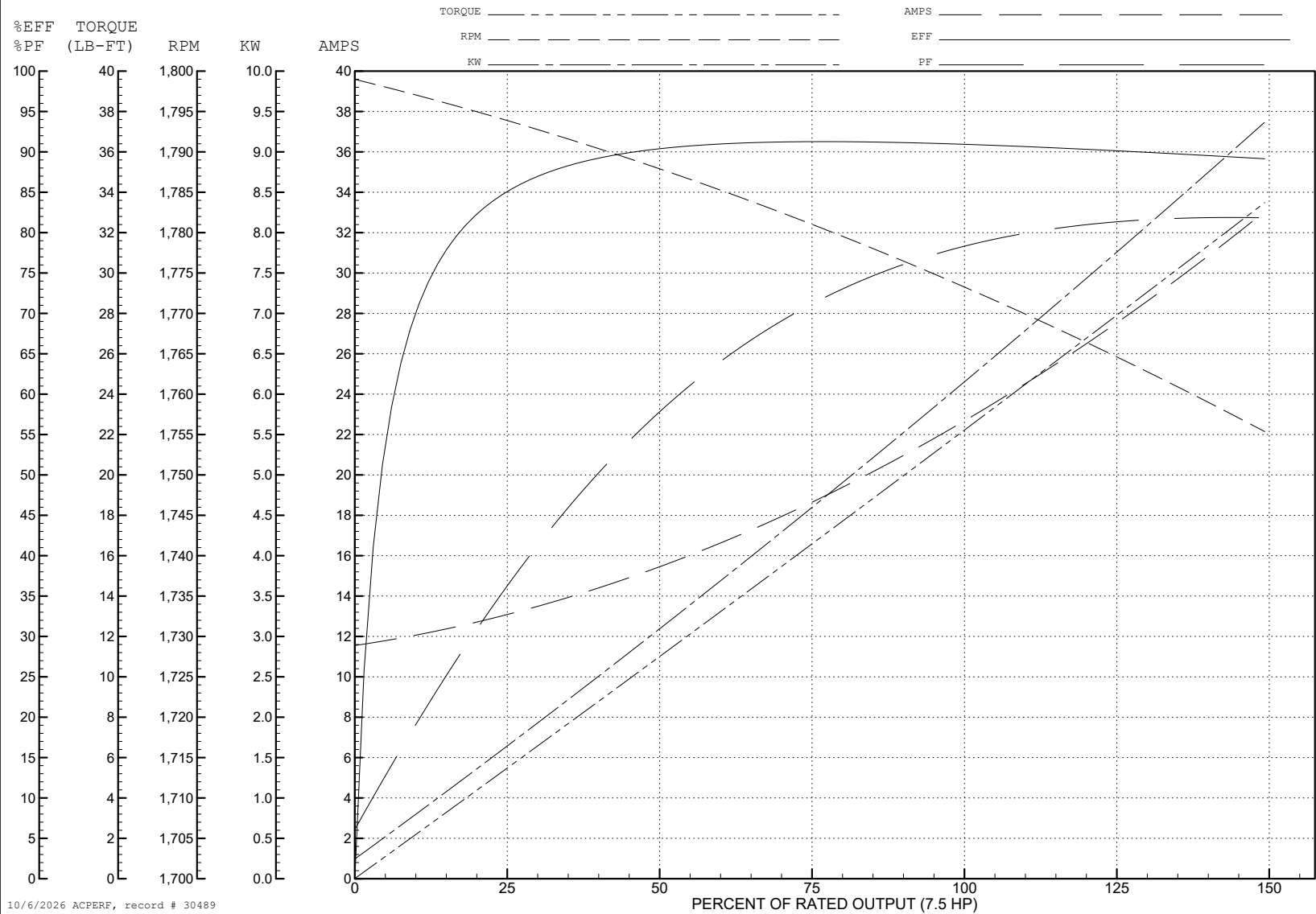
ABB Motors and Mechanical Inc.

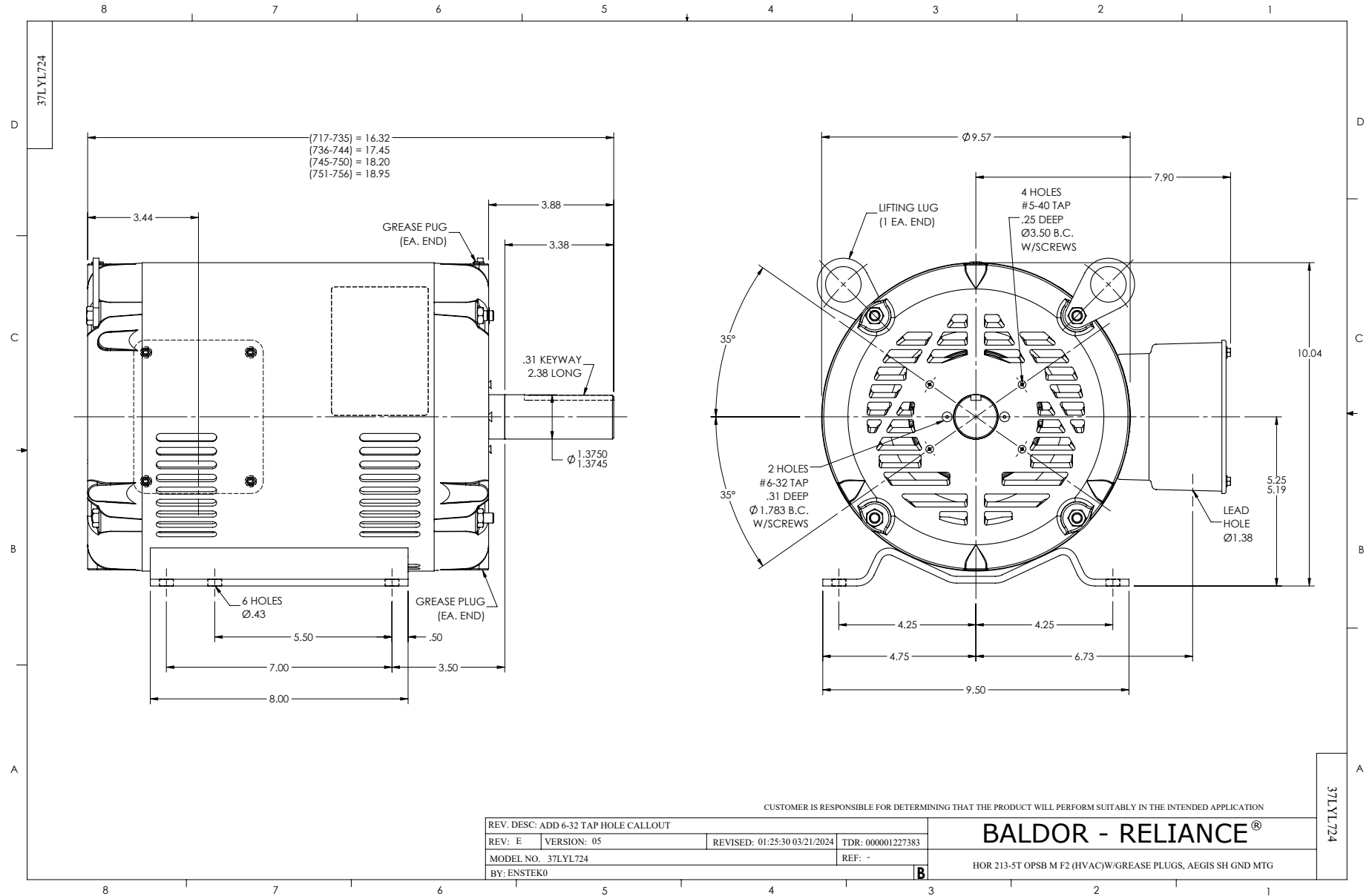
WINDING # 37WGS797

Typical performance - not guaranteed values.

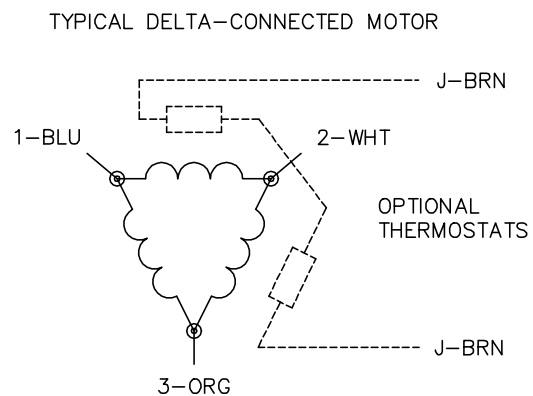
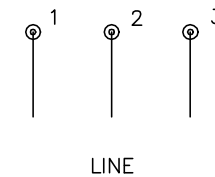
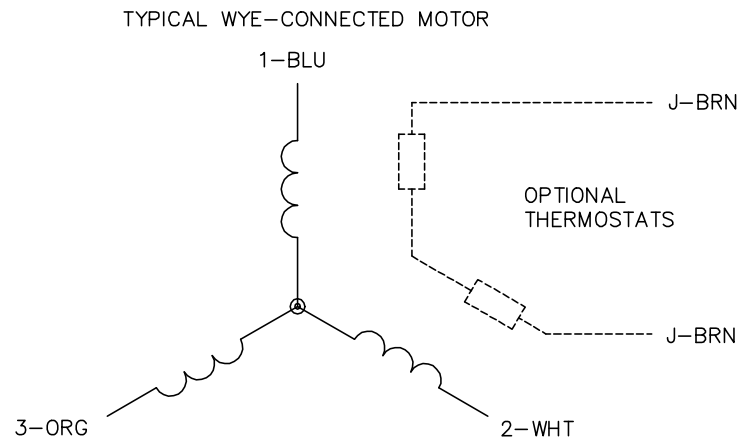
7.5 HP 3 PH 60 HZ 1770 RPM 200 V 3734M

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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