ABB BALDOR RELIANCE

Customer information packet

EJMM3311T-5

7.5HP, 1770RPM, 3PH, 60HZ, 213JM, 3734M, OPSB
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPSB
Frame	213JM
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	575.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	NEMA PREMIUM
	UR
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	7.800 A @ 575.0 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	7.8 a

Part Detail

Revision	M
Type	AC
Mech. spec.	37F696
Base	
Status	PRD/A
Elec. spec.	37WGS840
Layout	37LYF696
Eff. date	06-10-2026
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	08-14-2015

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	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	3734M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.19 IN
Power Factor	79
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft 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

NP1259L									
CAT.NO.	EJMM3311T-5								
SPEC.	37F696S840G1								
HP	7.5								
VOLTS	575								
AMP	7.8								
RPM	1770								
FRAME	213JM	**HZ**	60				**PH**	3	
SER.F.	1.15	**CODE**	J	**DES**	A	**CL**	F		
NEMA-NOM-EFF	91	**PF**	79						
RATING	40C AMB-CONT								
CC	010A								
DE	6309	**ODE**	6206						
ENCL	OPSB	**SN**							
	SFA 1.95								

AC Induction Motor Performance Data
Record # 31174
Typical performance - not guaranteed values

Winding: 37WGS840-R001	**Type:** 3734M	**Enclosure:** OPSB

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			7.5	**Full Load Torque**	22.14 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			7.8	**Breakdown Torque**	70.38 LB-FT
R.P.M.			1770	**Pull-up Torque**	32.95 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	41.68 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	56.8 A
Service Factor (S.F.)			1.15	**No-load Current**	3.91 A
NEMA Nom. Eff.	91	**Power Factor**	79	**Line-line Res. @ 25ºC**	2.39 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	39.3
				Rotor inertia	0.836 LB-FT2

Load Characteristics 575 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	39	60	72	78	82	83	81
Efficiency	85	90.2	91.1	91	90.6	89	90.6
Speed	1793	1788	1780	1773	1765	1754	1767
Line amperes	4.3	5.18	6.41	7.89	9.49	11.44	8.77

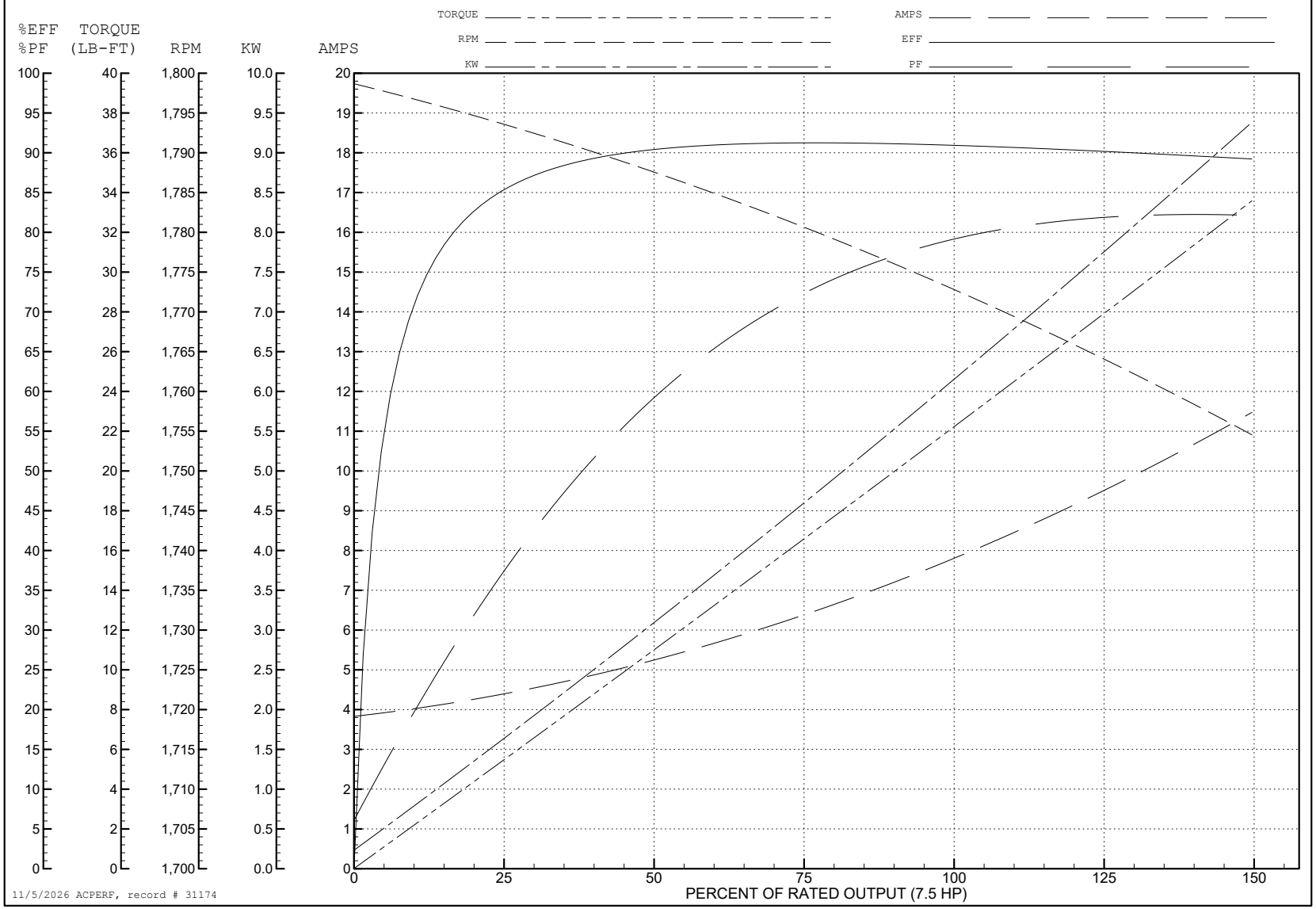
ABB Motors and Mechanical Inc.

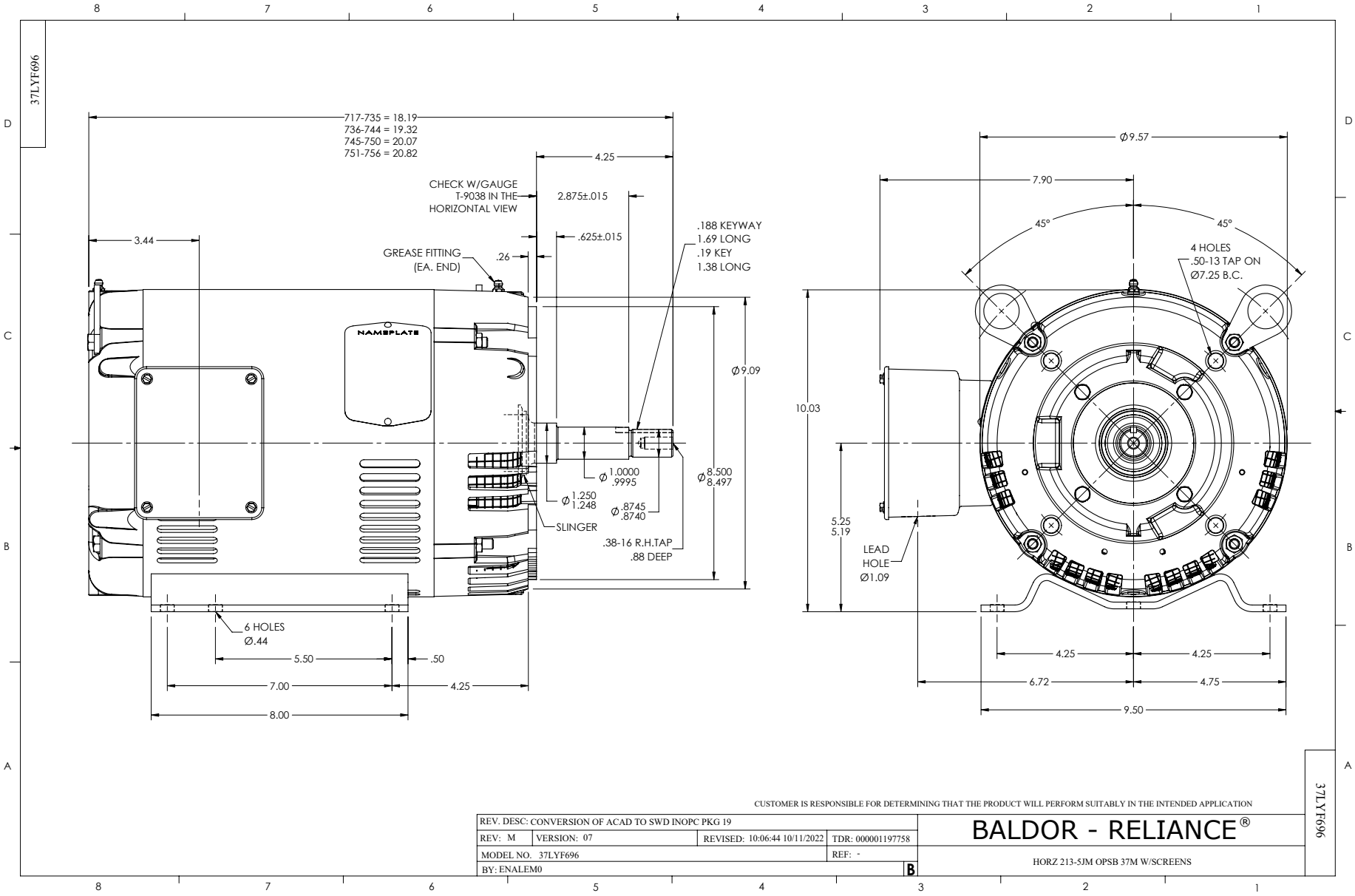
WINDING # 37WGS840

7.5 HP 3 PH 60 HZ 1770 RPM 575 V 3734M

Typical performance - not guaranteed values.

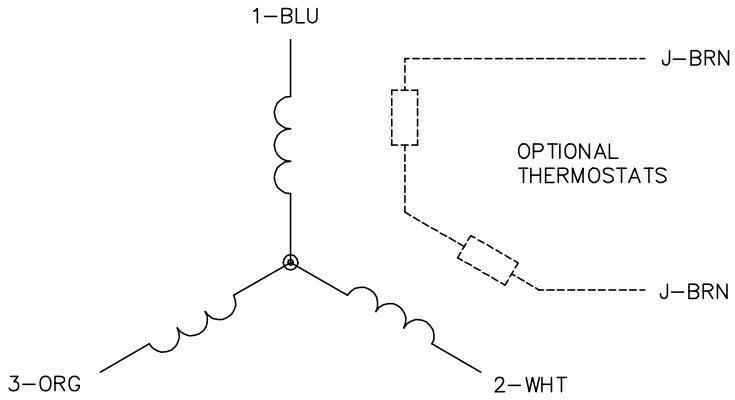
TORQUES(LB-FT): PO=70.38 PU=32.95 LR=41.68 LRA=56.8

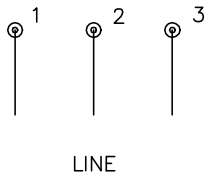



37LYF696
717-735 = 18.19
736-744 = 19.32
745-750 = 20.07
751-756 = 20.82
4.25
CHECK W/GAUGE
T-9038 IN THE
HORIZONTAL VIEW
2.875±.015
.625±.015
.188 KEYWAY
1.69 LONG
.19 KEY
1.38 LONG
3.44
GREASE FITTING
(EA. END)
.26
NAMEPLATE
Ø9.09
Ø 1.0000
.9995
Ø 8.500
8.497
Ø 1.250
1.248
Ø .8745
.8740
SLINGER
.38-16 R.H.TAP
.88 DEEP
6 HOLES
Ø.44
5.50
.50
7.00
4.25
8.00
Ø9.57
7.90
45°
45°
4 HOLES
.50-13 TAP ON
Ø7.25 B.C.
10.03
5.25
5.19
LEAD
HOLE
Ø1.09
4.25
4.25
6.72
4.75
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERSION OF ACAD TO SWD INOPC PKG 19
REV: M
VERSION: 07
REVISED: 10:06:44 10/11/2022
TDR: 000001197758
MODEL NO. 37LYF696
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 213-5JM OPSB 37M W/SCREENS
37LYF696

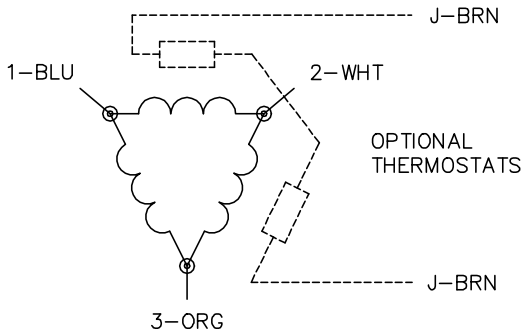
CD0006

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: –		

BALDOR - RELIANCE®

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

SH 1 of 1