

BALDOR • RELIANCE

Customer information packet

EJMM3311T-5

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

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	213JM
Frame Material	Steel
Frequency	60.00 Hz
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
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	CSA CSA EEV NEMA PREMIUM UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary 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	J
Type	AC
Mech. spec.	37F696
Base	
Status	PRD/A
Elec. spec.	37WGS840
Layout	37LYF696
Eff. date	06-28-2023
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							

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. @ 25°C	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-FT ²	

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

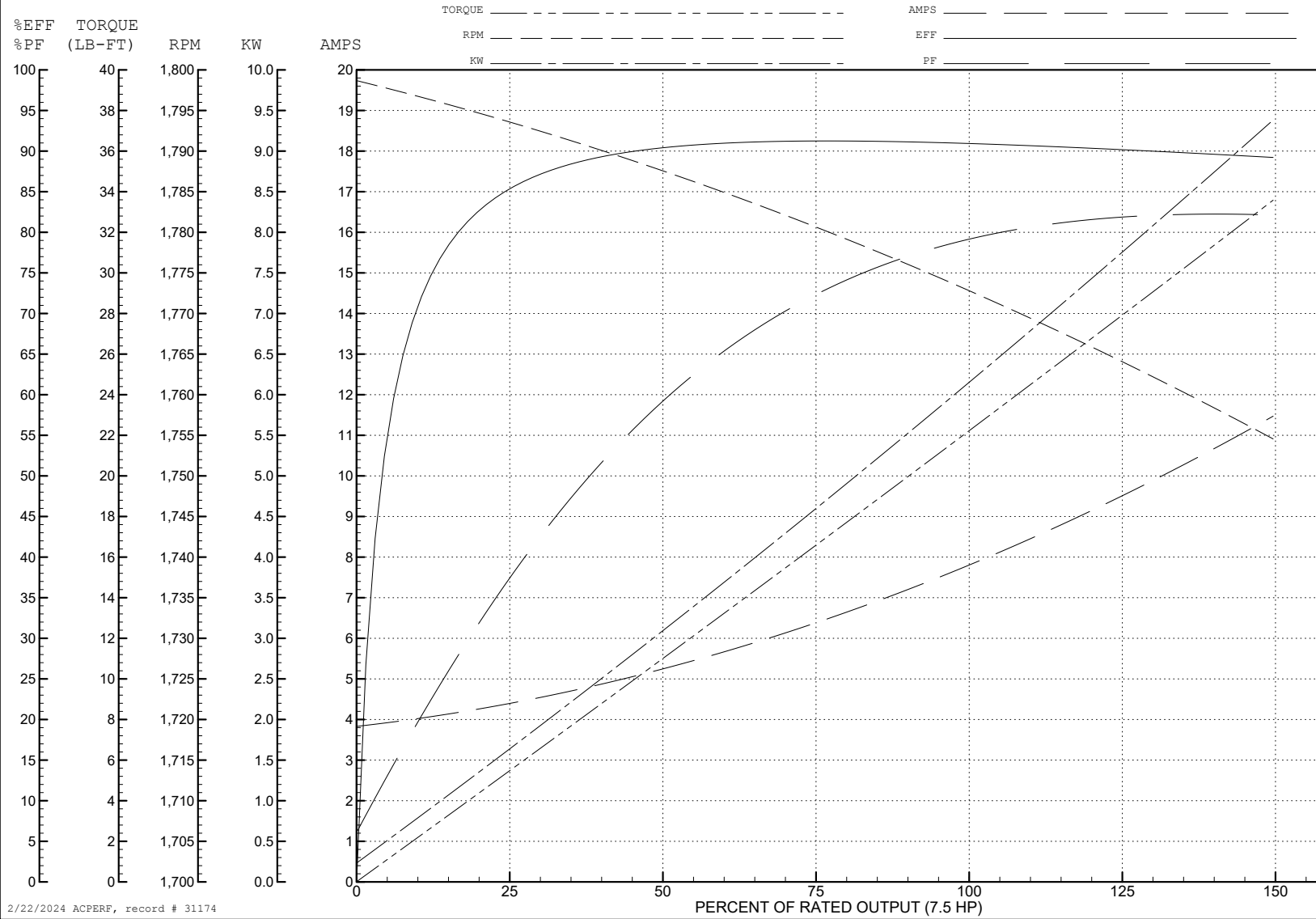
ABB Motors and Mechanical Inc.

WINDING # 37WGS840

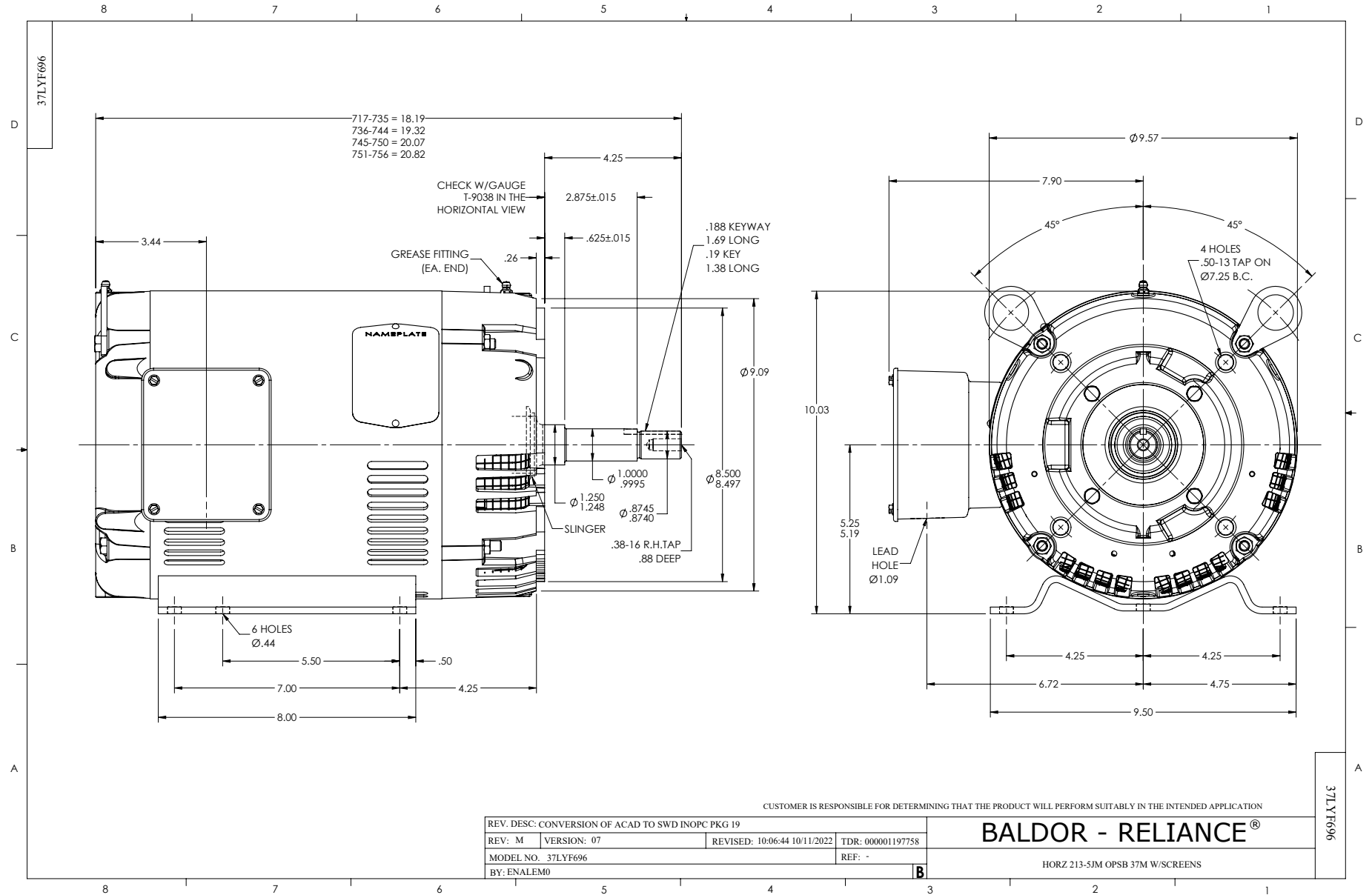
Typical performance - not guaranteed values.

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

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



2/22/2024 ACPERF, record # 31174



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

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

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