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# Customer information packet

## EFM3311T-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
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
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	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

## Part detail

Revision	G
Type	AC
Mech. spec.	37B106
Base	
Status	PRD/A
Elec. spec.	37WGZ613
Layout	37LYB106
Eff. date	07-02-2019
CD Diagram	CD0006
Poles	04
Leads	3#12
Proprietary	False
Created date	03-14-2016

Insulation Class	F
Inverter Code	Inverter Ready
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	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**

<b>NP3553L</b>										
<b>CAT.NO.</b>	EFM3311T-8									
<b>SPEC</b>	37B106Z613G1									
<b>HP</b>	7.5									
<b>VOLTS</b>	200									
<b>AMPS</b>	23.3									
<b>RPM</b>	1770									
<b>FRAME</b>	213T		<b>HZ</b>	60		<b>PH</b>	3			
<b>SF</b>	1.15	<b>CODE</b>	J	<b>DES</b>	A	<b>CLASS</b>	F			
<b>NEMA NOM. EFF</b>	91	<b>PF</b>	77							
<b>RATING</b>	40C AMB-CONT									
<b>CC</b>	010A		<b>USABLE AT 208V</b>							
<b>ENCL</b>	OPSB	<b>SER</b>								
<b>DE</b>	6307		<b>ODE</b>	6206						
<b>VPWM INVERTER READY</b>										
<b>CT30-60(2:1) VT3-60(20:1)</b>										

**Accessories**

<b>Part number</b>	<b>Description</b>	<b>Multiplier</b>
37-1404	C FACE KIT	A8

**AC Induction Motor Performance Data**

Record # 57432

Typical performance - not guaranteed values

Winding: 37WGZ613-R001		Type: 3734M	Enclosure: OPSB		
<b>Nameplate Data</b>			<b>200 V, 60 Hz: Single Voltage Motor</b>		
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 <sup>2</sup>	

**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

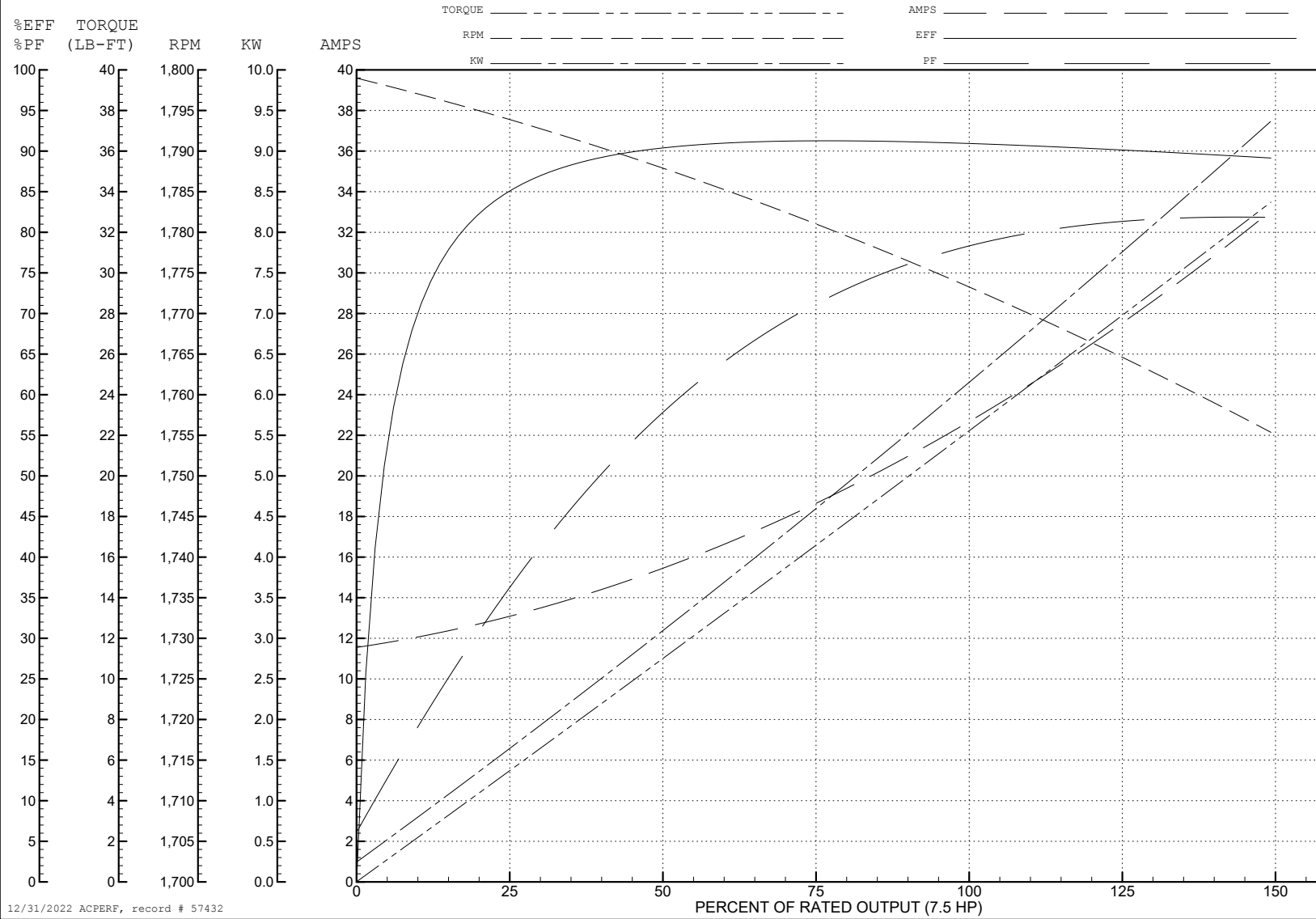
ABB Motors and Mechanical Inc.

WINDING # 37WGZ613

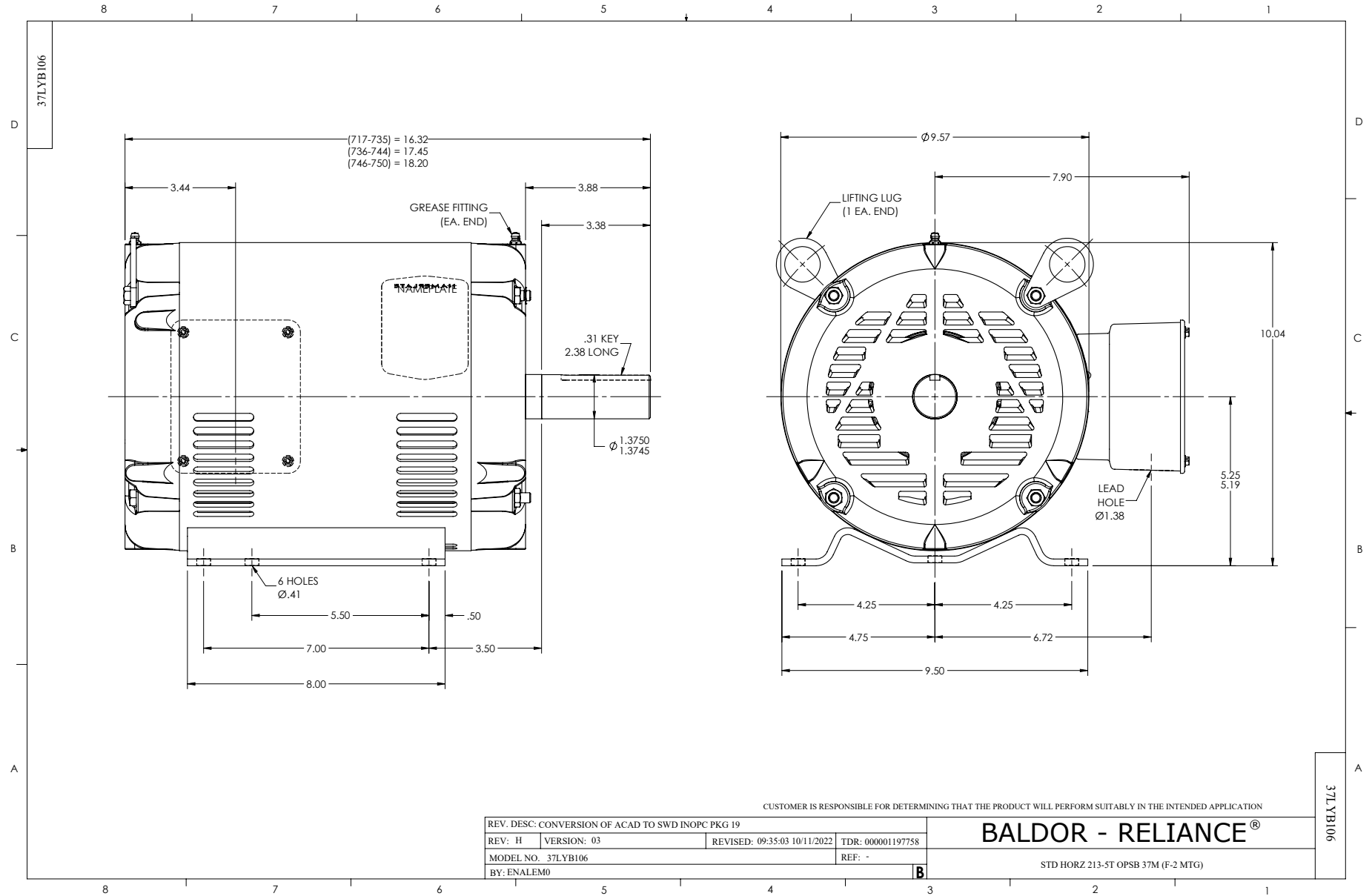
Typical performance - not guaranteed values.

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

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

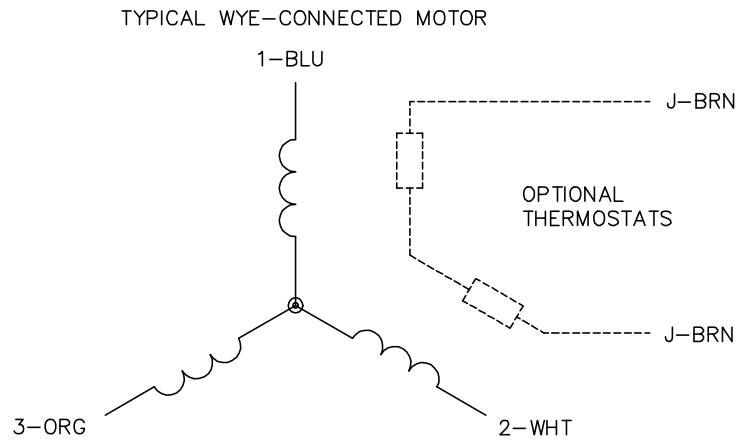


12/31/2022 ACPERF, record # 57432





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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