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# Customer information packet

## EM31112-5

0.75HP, 1765RPM, 3PH, 60HZ, 56, 3514M, OPEN, F1

Class - None

Division - Not Applicable

## Specifications

Enclosure	OPEN
Frame	56
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	.750 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CURUSEEV
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	.960 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.0 a
Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	K

## Part detail

Revision	F
Type	AC
Mech. spec.	35B011
Base	
Status	PRD/A
Elec. spec.	35WGG123
Layout	35LYB011
Eff. date	07-01-2024
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	03-11-2022

<b>Lifting Lugs</b>	No Lifting Lugs
<b>Locked Bearing Indicator</b>	No Locked Bearing
<b>Motor Lead Quantity/Wire Size</b>	3 @ 18 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	3514M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	11.07 IN
<b>Power Factor</b>	71
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	Standard
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.25
<b>Shaft Diameter</b>	0.625 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1765 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP3155L</b>									
<b>CAT.NO.</b>	EM31112-5								
<b>SPEC.</b>	35B011G123G1								
<b>HP</b>	0.75								
<b>VOLTS</b>	575								
<b>AMP</b>	0.93								
<b>RPM</b>	1765								
<b>FRAME</b>	56		<b>HZ</b>	60		<b>PH</b>	3		
<b>SER.F.</b>	1.25	<b>CODE</b>	K	<b>DES</b>	B	<b>CL</b>	F		
<b>F.L. AVG. EFF.</b>	82.5	<b>PF</b>	73						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>									
<b>DE</b>	6205		<b>ODE</b>	6203					
<b>ENCL</b>	OPEN	<b>SN</b>							
	SFA 1.04								

**AC Induction Motor Performance Data**

Record # 82202

Typical performance - not guaranteed values

Winding: 35WGG123-R001		Type: 3514M		Enclosure: OPEN			
<b>Nameplate Data</b>			<b>575 V, 60 Hz: Single Voltage Motor</b>				
Rated Output (HP)	.75	Full Load Torque	2.25 LB-FT				
Volts	575	Start Configuration	direct on line				
Full Load Amps	.91	Breakdown Torque	7.36 LB-FT				
R.P.M.	1765	Pull-up Torque	4.05 LB-FT				
Hz	60 Phase	3	Locked-rotor Torque	4.68 LB-FT			
NEMA Design Code	B	KVA Code	K	Starting Current	6.16 A		
Service Factor (S.F.)	1.25	No-load Current	0.589 A				
NEMA Nom. Eff.	82.5	Power Factor	74	Line-line Res. @ 25°C	50.2 Ω		
Rating - Duty	40C	AMB-CONT	Temp. Rise @ Rated Load				24°C
S.F. Amps	1.07	Temp. Rise @ S.F. Load				32°C	
			Locked-rotor Power Factor			65.3	
			Rotor inertia			0.101 lb-ft <sup>2</sup>	

**Load Characteristics 575 V, 60 Hz, 0.75 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	52	65	74	80	83	80
Efficiency	71.1	80.8	83.1	83.6	82.8	81	82.8
Speed	1790	1782	1773	1763	1753	1740	1753
Line amperes	0.61	0.682	0.782	0.913	1.07	1.26	1.07

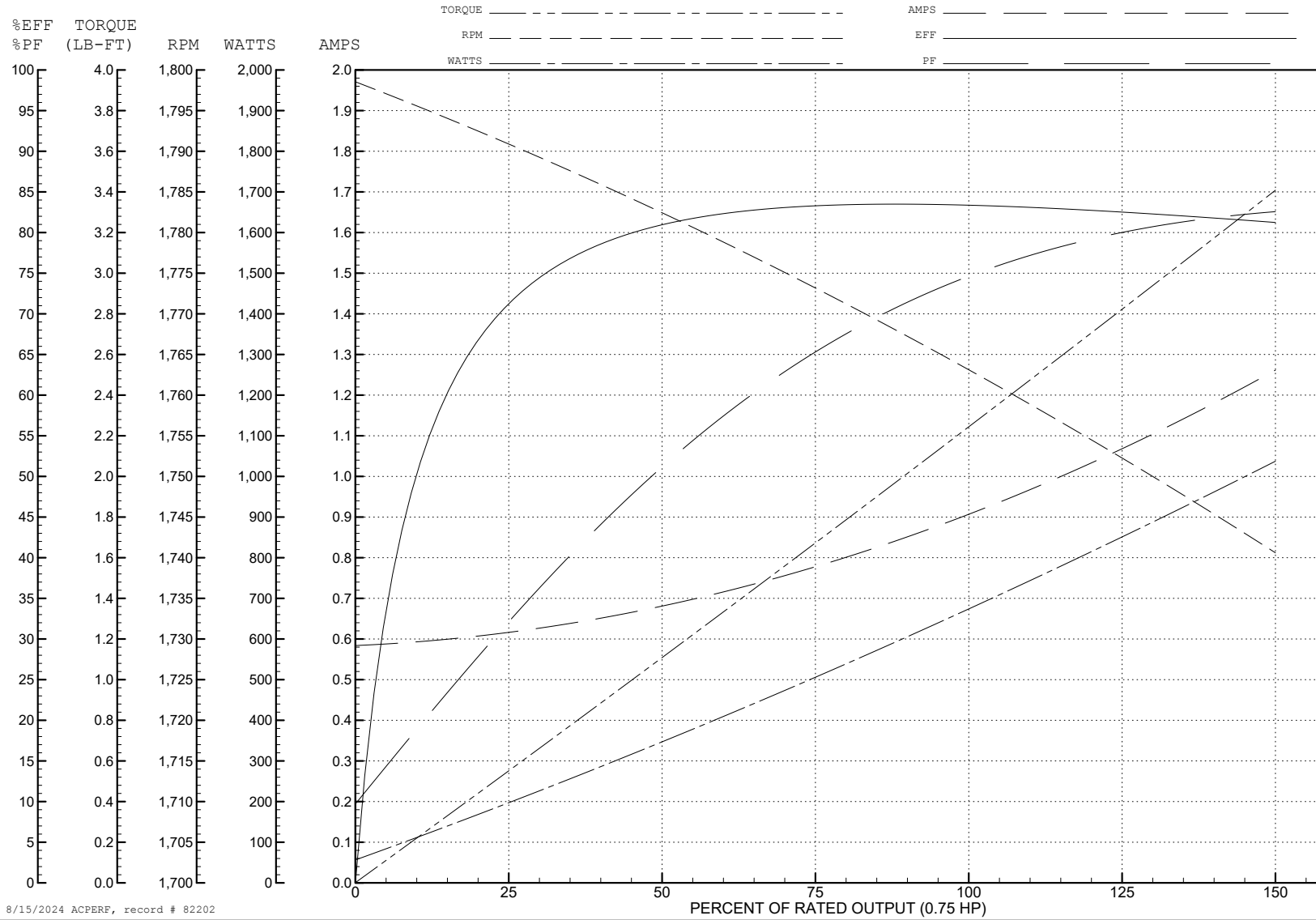
ABB Motors and Mechanical Inc.

WINDING # 35WGG123

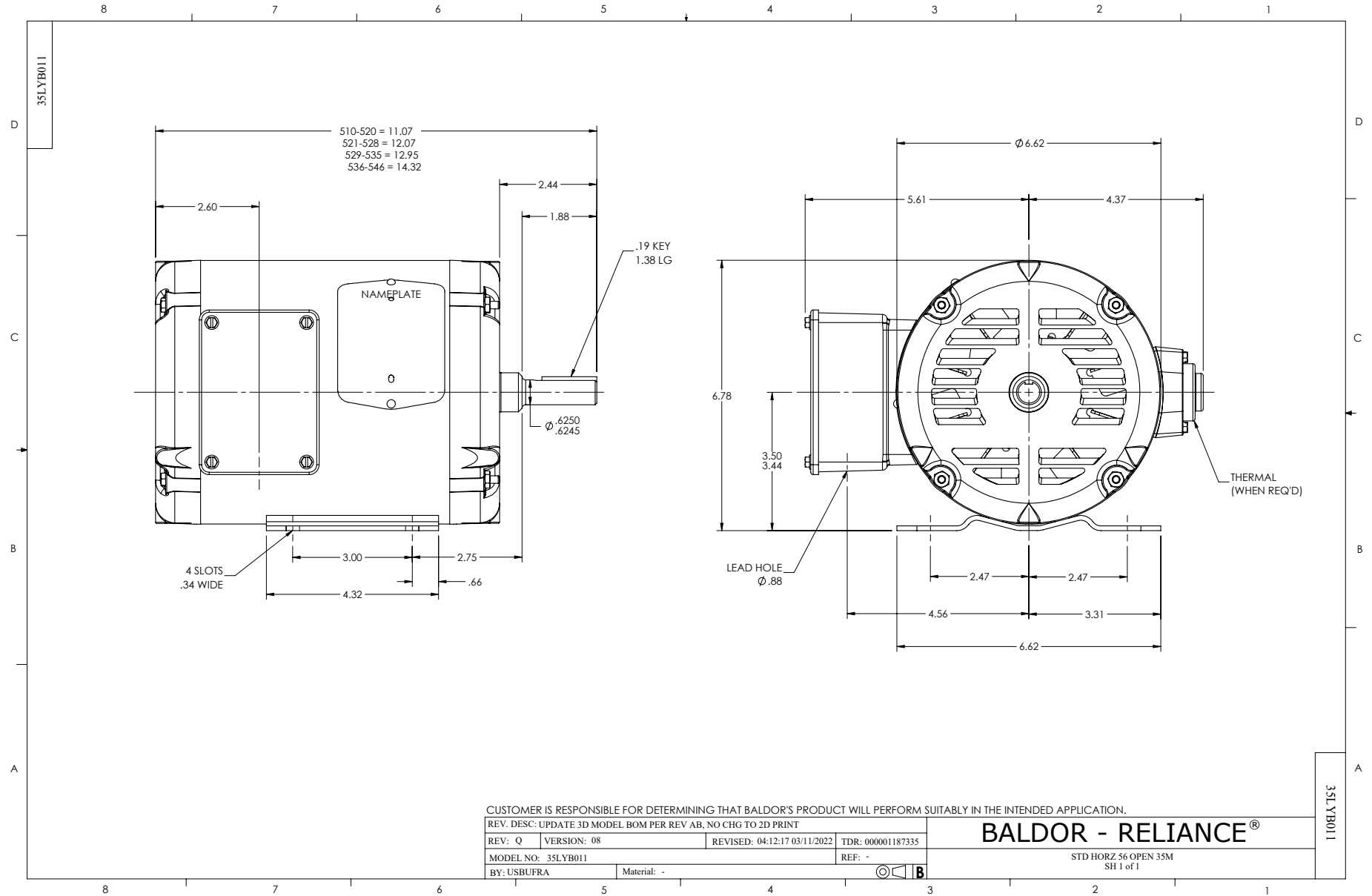
0.75 HP 3 PH 60 HZ 1765 RPM 575 V 3514M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=7.36 PU=4.05 LR=4.68 LRA=6.16



8/15/2024 ACPERF, record # 82202



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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