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# Customer information packet

## EM3116T-8G

1HP, 1775RPM, 3PH, 60HZ, 143T, 3520M, OPSB, F1

Class - None

Division - Not Applicable

## Specifications

Enclosure	OPSB
Frame	143T
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	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	200.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM NEMA_PREMIUM UR CSA EEV
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	3.600 A @ 200.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.6 a
Insulation Class	H

## Part detail

Revision	C
Type	AC
Mech. spec.	35Z069
Base	
Status	PRD/A
Elec. spec.	35WGG118
Layout	35LYZ069
Eff. date	09-10-2024
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	03-11-2022

<b>Inverter Code</b>	Inverter Ready
<b>KVA Code</b>	N
<b>Lifting Lugs</b>	No Lifting Lugs
<b>Locked Bearing Indicator</b>	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>	3520M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	11.12 IN
<b>Power Factor</b>	67
<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>	1.15
<b>Shaft Diameter</b>	0.875 IN
<b>Shaft Ground Indicator</b>	Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1775 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>NP3553L</b>									
<b>CAT.NO.</b>	EM3116T-8G								
<b>SPEC</b>	35Z069G118G1								
<b>HP</b>	1								
<b>VOLTS</b>	200								
<b>AMPS</b>	3.6								
<b>RPM</b>	1775								
<b>FRAME</b>	143T		<b>HZ</b>	60		<b>PH</b>	3		
<b>SF</b>	1.15	<b>CODE</b>	N	<b>DES</b>	B	<b>CLASS</b>	H		
<b>NEMA NOM. EFF</b>	85.5	<b>PF</b>	67						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>	010A								
<b>ENCL</b>	OPSB	<b>SER</b>							
<b>DE</b>	6205		<b>ODE</b>	6203					
<b>VPWM INVERTER READY</b>		SFA 3.9							
<b>CT30-60(2:1) VT3-60(20:1)</b>									

**AC Induction Motor Performance Data**

Record # 82130

Typical performance - not guaranteed values

Winding: 35WGG118-R003		Type: 3520M		Enclosure: OPEN			
<b>Nameplate Data</b>			<b>200 V, 60 Hz: Single Voltage Motor</b>				
Rated Output (HP)	1	Full Load Torque	2.96 LB-FT				
Volts	200	Start Configuration	direct on line				
Full Load Amps	3.6	Breakdown Torque	12.86 LB-FT				
R.P.M.	1775	Pull-up Torque	7.55 LB-FT				
Hz	60 Phase	3	Locked-rotor Torque	8.76 LB-FT			
NEMA Design Code	B	KVA Code	N	Starting Current	31.78 A		
Service Factor (S.F.)	1.15		No-load Current	2.43 A			
NEMA Nom. Eff.	85.5	Power Factor	67	Line-line Res. @ 25°C	3.43 Ω		
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	21°C			
S.F. Amps			Temp. Rise @ S.F. Load	24°C			
			Locked-rotor Power Factor	61.7			
			Rotor inertia	0.144 lb-ft <sup>2</sup>			

**Load Characteristics 200 V, 60 Hz, 1 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	48	61	70	76	80	74
Efficiency	71.5	81.9	84.9	85.8	85.8	85.2	85.8
Speed	1792	1786	1780	1773	1765	1757	1768
Line amperes	2.51	2.76	3.12	3.58	4.11	4.71	3.9

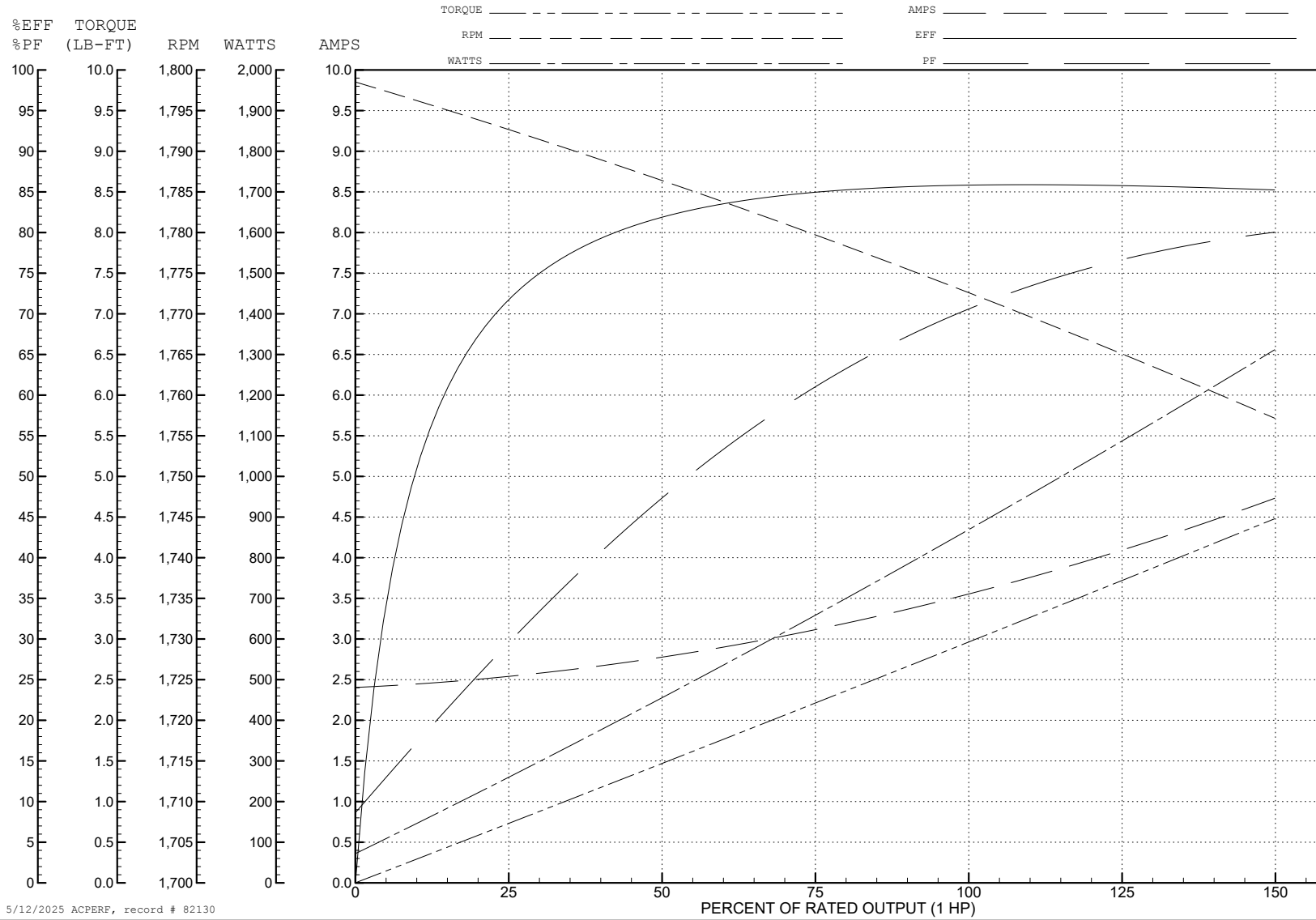
ABB Motors and Mechanical Inc.

WINDING # 35WGG118

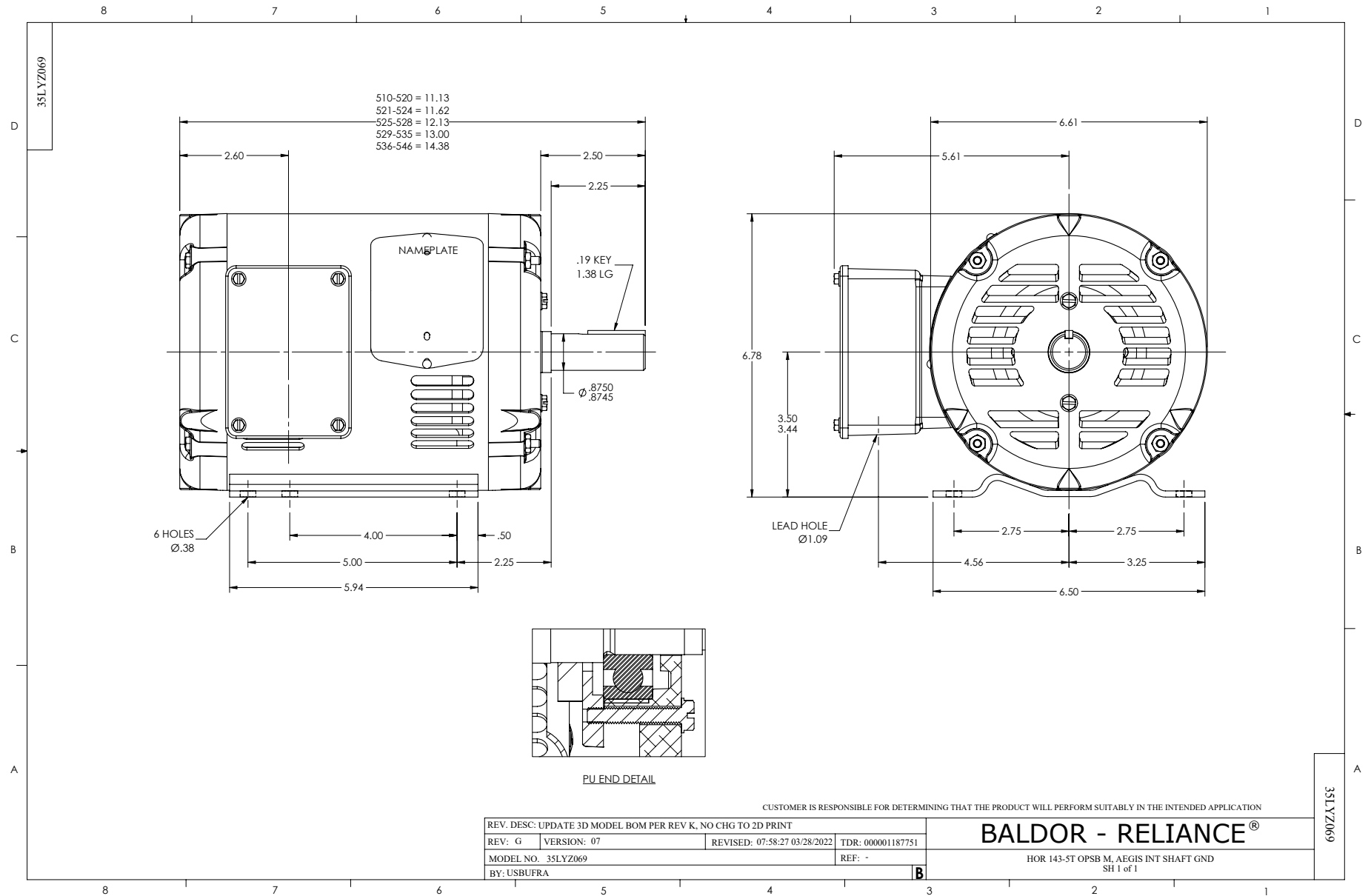
Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1775 RPM 200 V 3520M

TORQUES (LB-FT): PO=12.86 PU=7.55 LR=8.76 LRA=31.78



5/12/2025 ACPERF, record # 82130



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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**BALDOR - RELIANCE®**

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

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