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# Customer information packet

## M3160

.5HP, 865RPM, 3PH, 60HZ, 56, 3522M, OPEN, F1, N

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	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA 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	2.400 A @ 230.0 V 1.200 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	70.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.2 a
Insulation Class	F

## Part detail

Revision	F
Type	AC
Mech. spec.	35B011
Base	
Status	PRD/A
Elec. spec.	35WGG341
Layout	35LYB011
Eff. date	07-31-2024
CD Diagram	CD0005
Poles	08
Leads	9#18 Y
Proprietary	False
Created date	02-23-2023

<b>Inverter Code</b>	Not Inverter
<b>KVA Code</b>	K
<b>Lifting Lugs</b>	No Lifting Lugs
<b>Locked Bearing Indicator</b>	No Locked Bearing
<b>Motor Lead Quantity/Wire Size</b>	9 @ 18 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	3522M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	8
<b>Overall Length</b>	12.07 IN
<b>Power Factor</b>	57
<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>	0.625 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	865 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>NP1256L</b>									
<b>CAT.NO.</b>	M3160								
<b>SPEC.</b>	35B011G341G1								
<b>HP</b>	.5								
<b>VOLTS</b>	230/460								
<b>AMP</b>	2.4/1.2								
<b>RPM</b>	865								
<b>FRAME</b>	56		<b>HZ</b>	60		<b>PH</b>	3		
<b>SER.F.</b>	1.15	<b>CODE</b>	K	<b>DES</b>	B	<b>CLASS</b>	F		
<b>NEMA-NOM-EFF</b>	70	<b>PF</b>	57						
<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 2.52/1.26								

**Accessories**

<b>Part number</b>	<b>Description</b>	<b>Multiplier</b>
35-8764	C FACE KIT	A8
35EP1604A01SP	D-FLANGE KIT	A8

**AC Induction Motor Performance Data**

Record # 87787

Preliminary Data Sheet

Winding: 35WGG341-R002		Type: 3522M	Enclosure: OPEN	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>	
Rated Output (HP)	.5	Full Load Torque	3.08 LB-FT	
Volts	230/460	Start Configuration	direct on line	
Full Load Amps	2.4/1.2	Breakdown Torque	10.33 LB-FT	
R.P.M.	865	Pull-up Torque	6.41 LB-FT	
Hz	60 Phase	Locked-rotor Torque	7.03 LB-FT	
NEMA Design Code	B KVA Code	Starting Current	5.49 A	
Service Factor (S.F.)	1.15	No-load Current	0.979 A	
NEMA Nom. Eff.	70 Power Factor	Line-line Res. @ 25°C	39.9 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	52°C	
S.F. Amps		Temp. Rise @ S.F. Load	58°C	
		Locked-rotor Power Factor	65	
		Rotor inertia	0.159 lb-ft <sup>2</sup>	

**Load Characteristics 460 V, 60 Hz, 0.5 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	25	37	47	56	64	69	61
Efficiency	49.7	63	68.5	70.9	70.7	69.7	70.8
Speed	893	884	876	866	853	839	858
Line amperes	0.986	1.02	1.1	1.19	1.3	1.46	1.26

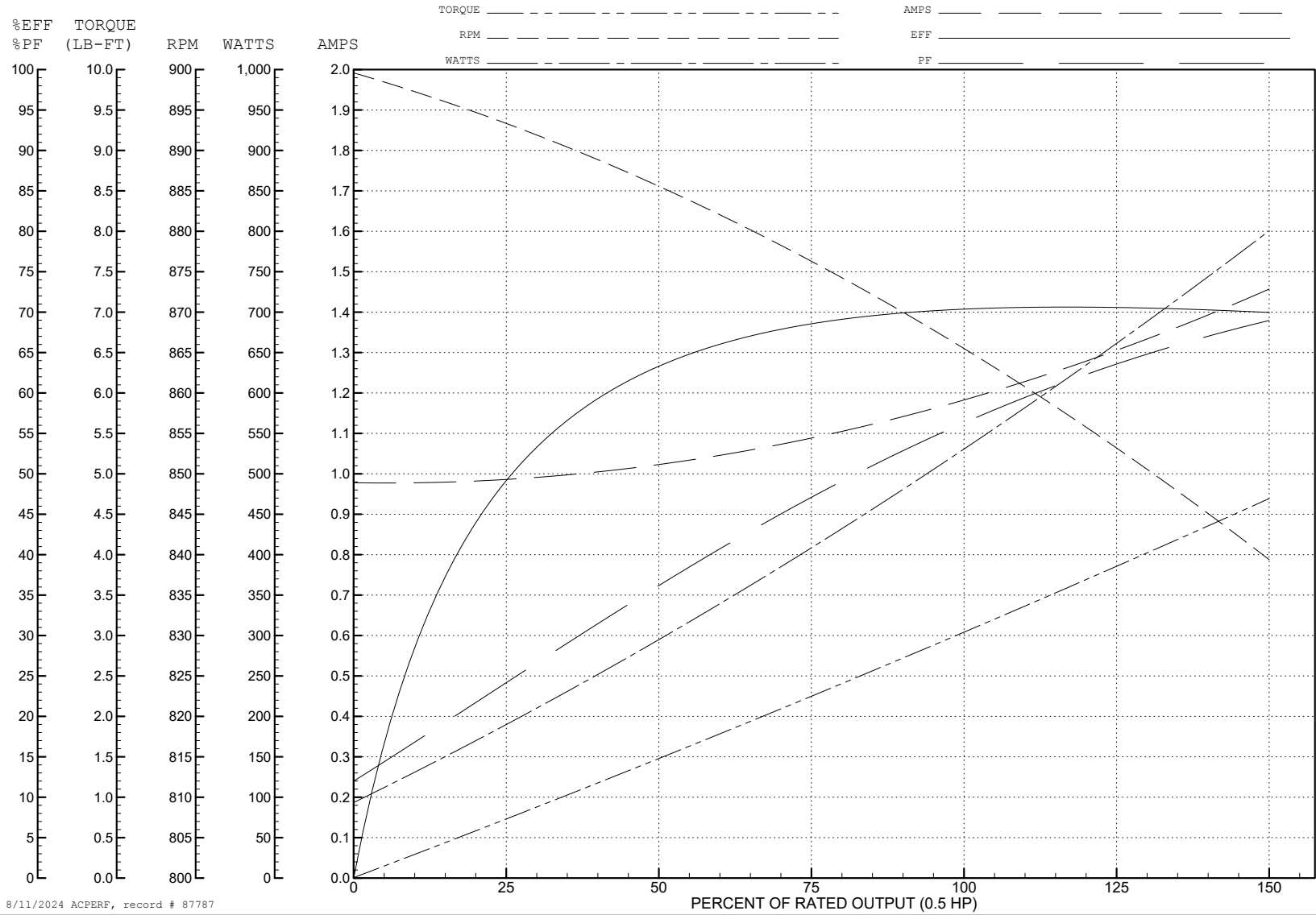
ABB Motors and Mechanical Inc.

WINDING # 35WGG341

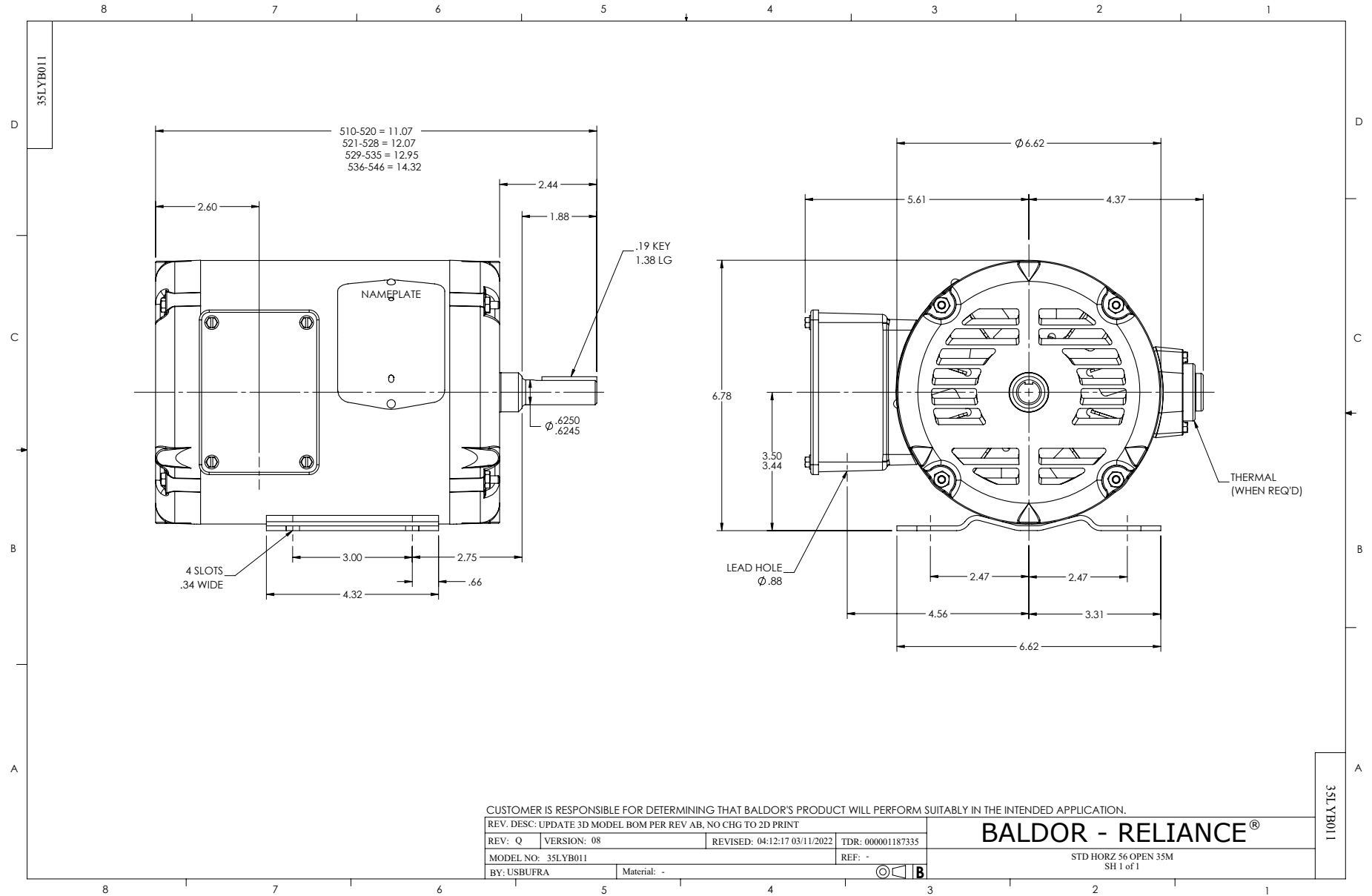
Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 865 RPM 460 V 3522M

TORQUES (LB-FT): PO=10.33 PU=6.41 LR=7.03 LRA=5.49

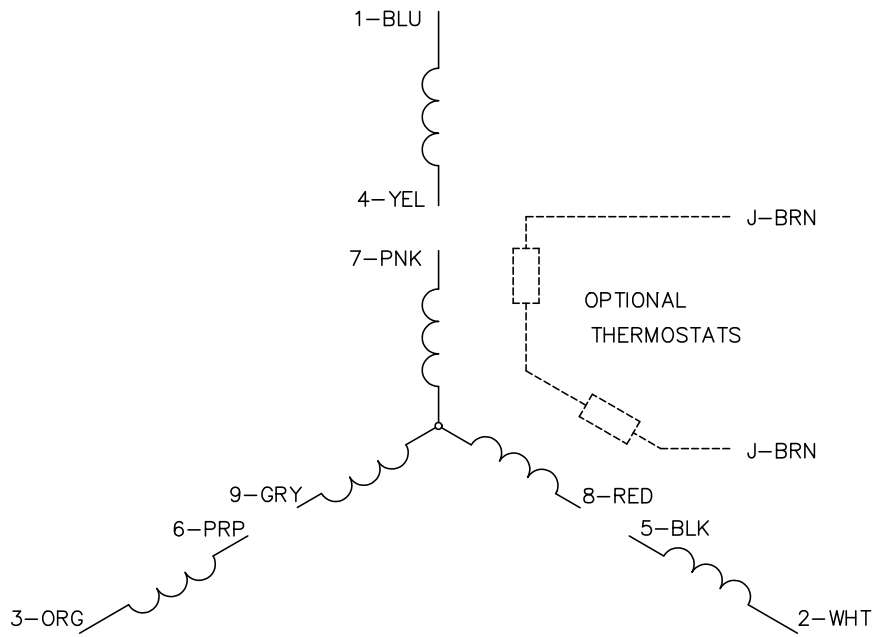


8/11/2024 ACPERF, record # 87787

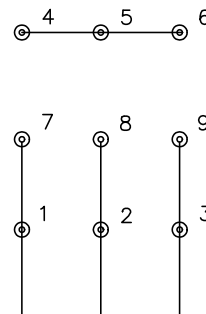




CD0005

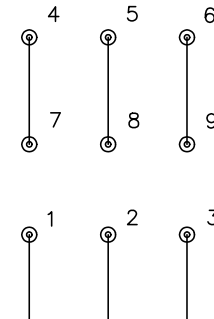


LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS