



---

# Customer information packet

## VSPM31109

.5HP, 1140RPM, 3PH, 60HZ, 56C, 3436M, ODP, F1, N

Class - None

Division - Not Applicable

## Specifications

Enclosure	ODP
Frame	56C
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	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	WEEE CURUS
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.000 A @ 460.0 V 2.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.5 %
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

## Part detail

Revision	B
Type	AC
Mech. spec.	34B063
Base	
Status	PRD/A
Elec. spec.	34WGR776
Layout	34LYB063
Eff. date	12-30-2024
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	03-06-2024

<b>Inverter Code</b>	Not Inverter
<b>KVA Code</b>	K
<b>Lifting Lugs</b>	No Lifting Lugs
<b>Locked Bearing Indicator</b>	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>	3436M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	6
<b>Overall Length</b>	12.63 IN
<b>Power Factor</b>	61
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	C-Face
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>RoHS Status</b>	ROHS COMPLIANT
<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>	1140 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



**AC Induction Motor Performance Data**

Record # 100839

Preliminary Data Sheet

<b>Winding:</b> 34WGR776-R003		<b>Type:</b> 3436M		<b>Enclosure:</b> ODP	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	.5	<b>Full Load Torque</b>	2.38 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	2/1	<b>Breakdown Torque</b>	8.4 LB-FT		
<b>R.P.M.</b>	1140	<b>Pull-up Torque</b>	5.4 LB-FT		
<b>Hz</b>	60	<b>Locked-rotor Torque</b>	6.5 LB-FT		
<b>NEMA Design Code</b>	B	<b>Starting Current</b>	5.4 A		
<b>Service Factor (S.F.)</b>	1.25	<b>No-load Current</b>	0.73 A		
<b>NEMA Nom. Eff.</b>	78.5	<b>Line-line Res. @ 25°C</b>	25.8 Ω		
<b>Rating - Duty</b>	40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	27°C		
<b>S.F. Amps</b>	2.2/1.1	<b>Temp. Rise @ S.F. Load</b>	67°C		
		<b>Locked-rotor Power Factor</b>	53		
		<b>Rotor inertia</b>	0.0855 lb-ft <sup>2</sup>		

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

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	24	39	52	61	69	74	69
<b>Efficiency</b>	67	77	79.2	78.5	76.5	73.4	76.5
<b>Speed</b>	1185	1171	1156	1137	1117	1091	1117
<b>Line amperes</b>	0.75	0.8	0.89	1	1.13	1.3	1.13

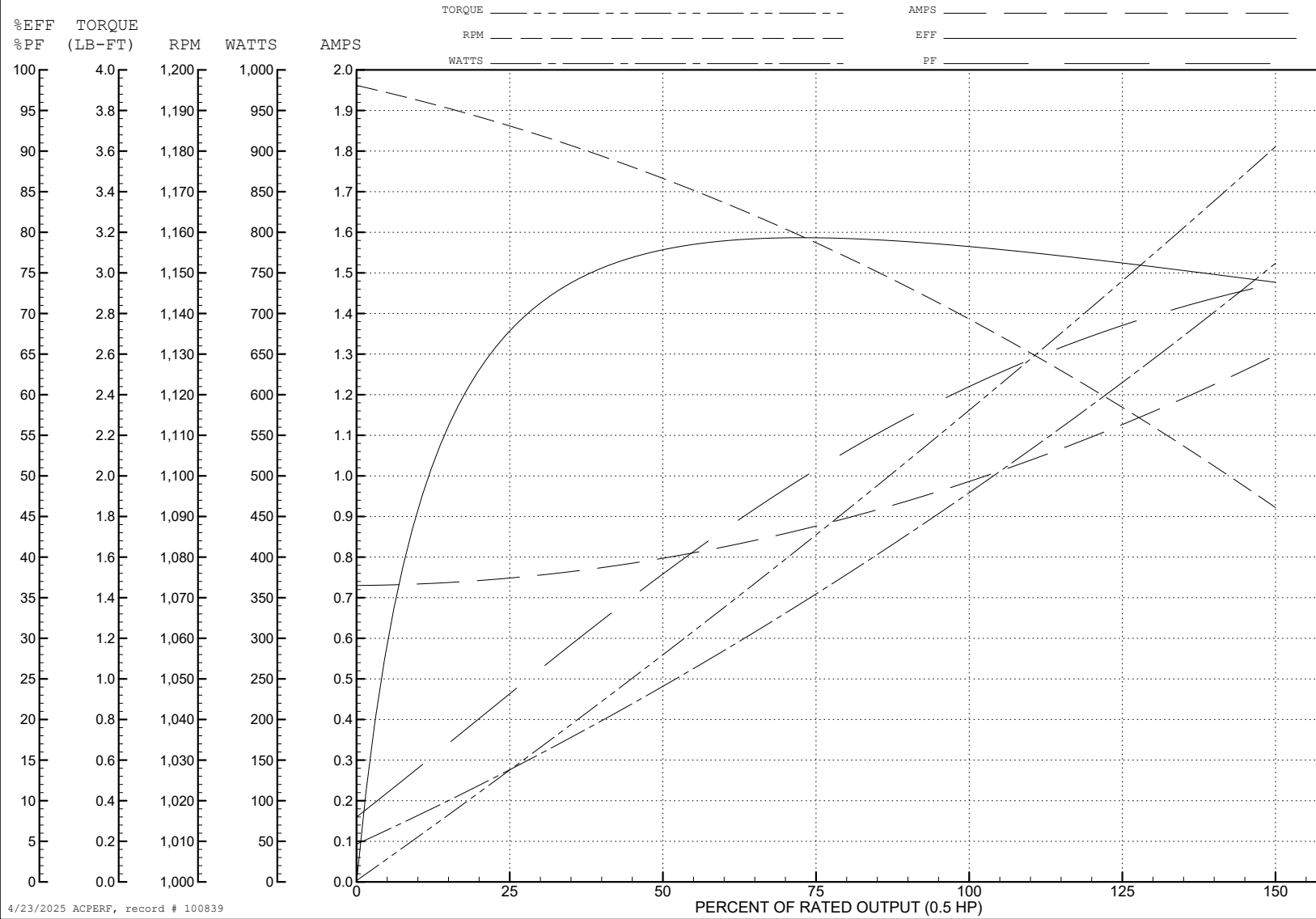
ABB Motors and Mechanical Inc.

WINDING # 34WGR776

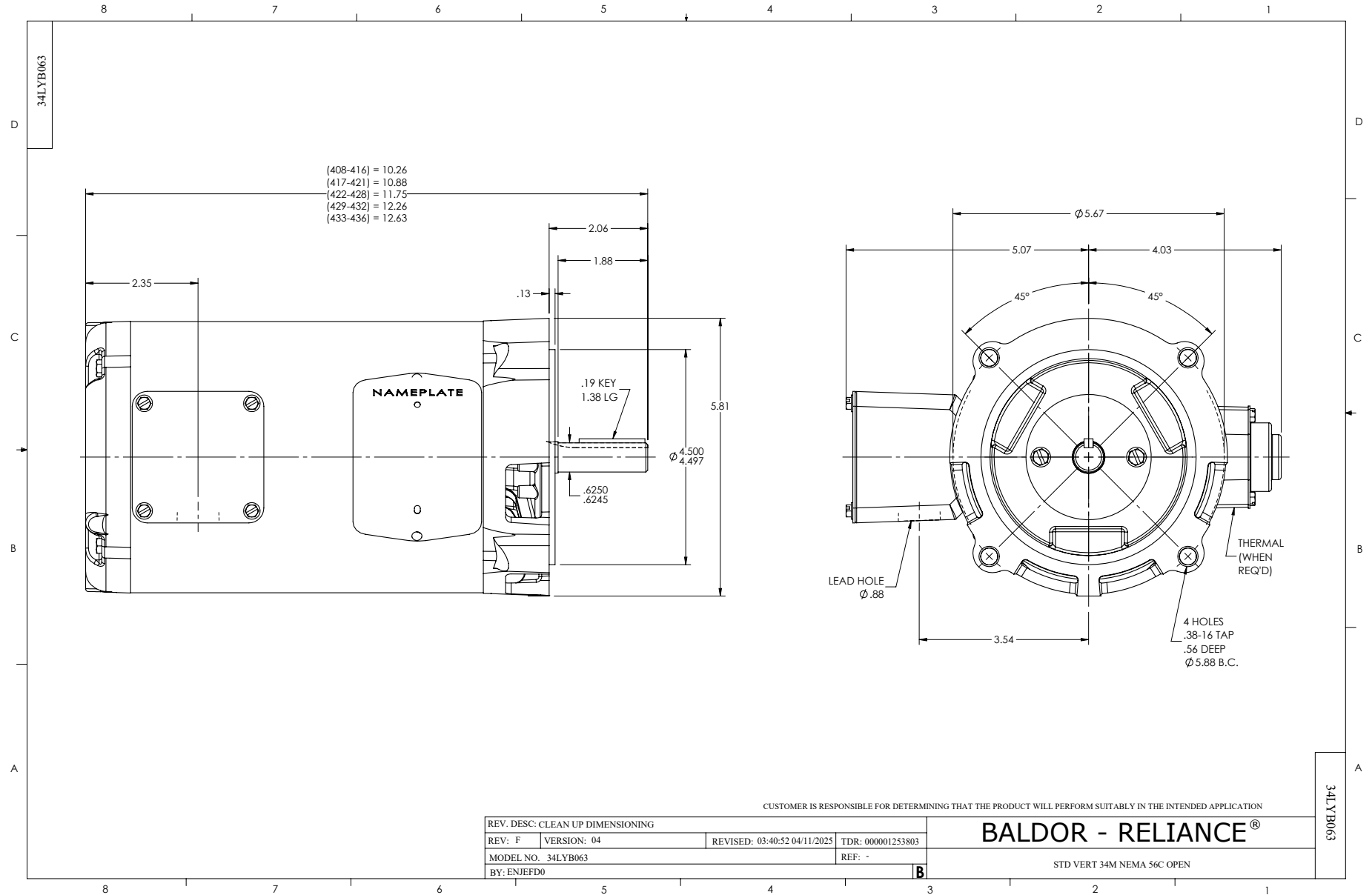
0.5 HP 3 PH 60 HZ 1140 RPM 460 V 3436M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=8.4 PU=5.4 LR=6.5 LRA=5.4



4/23/2025 ACPERF, record # 100839



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