

**BALDOR • RELIANCE**

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# Customer information packet

## VEM31111

.75HP, 3450RPM, 3PH, 60HZ, 56C, 3416M, OPEN, F1

Class - None

Division - Not Applicable

## Specifications

Enclosure	OPEN
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	.750 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CURUSEEV
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	1.200 A @ 460.0 V 2.400 A @ 230.0 V 2.700 A @ 208.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	76.8 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Drip Cover Mounting
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.2 a

## Part detail

Revision	L
Type	AC
Mech. spec.	34F012
Base	
Status	PRD/A
Elec. spec.	34WGW719
Layout	34LYF012
Eff. date	10-29-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	10-03-2014

<b>Insulation Class</b>	B
<b>Inverter Code</b>	Not Inverter
<b>KVA Code</b>	L
<b>Lifting Lugs</b>	No Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Motor Lead Exit</b>	Ko Box
<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>	3416M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	2
<b>Overall Length</b>	11.22 IN
<b>Power Factor</b>	80
<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 Extension Location</b>	Pulley End
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	3450 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>	VEM31111								
<b>SPEC.</b>	34F012W719G1								
<b>HP</b>	.75								
<b>VOLTS</b>	230/460								
<b>AMP</b>	2.4/1.2								
<b>RPM</b>	3450								
<b>FRAME</b>	56C		<b>HZ</b>	60		<b>PH</b>	3		
<b>SER.F.</b>	1.25	<b>CODE</b>	L	<b>DES</b>	B	<b>CL</b>	B		
<b>F.L. AVG. EFF.</b>	76.8	<b>PF</b>	80						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>									
<b>DE</b>	6203		<b>ODE</b>	6203					
<b>ENCL</b>	OPEN	<b>SN</b>							
	SFA 2.8/1.4								

**AC Induction Motor Performance Data**

Record # 47456

Typical performance - not guaranteed values

Winding: 34WGW719-R010		Type: 3416M	Enclosure: OPEN		
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
Rated Output (HP)	.75	Full Load Torque	1.15 LB-FT		
Volts	230/460	Start Configuration	direct on line		
Full Load Amps	2.4/1.2	Breakdown Torque	5.62 LB-FT		
R.P.M.	3450	Pull-up Torque	3.98 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque	5.14 LB-FT	
NEMA Design Code	B	KVA Code	L	Starting Current	9.2 A
Service Factor (S.F.)	1.25	No-load Current	0.611 A		
NEMA Nom. Eff.	76.8	Power Factor	80	Line-line Res. @ 25°C	20.283 Ω
Rating - Duty	40C	AMB-CONT	Temp. Rise @ Rated Load	17°C	
S.F. Amps	2.8/1.4	Temp. Rise @ S.F. Load	21°C		
		Locked-rotor Power Factor	69		
		Rotor inertia	0.0148 LB-FT <sup>2</sup>		

**Load Characteristics 460 V, 60 Hz, 0.75 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	64	75	82	87	89	87
Efficiency	60.9	73.6	77.6	78.8	78.8	77.7	78.8
Speed	3558.7	3525.3	3490.1	3452.4	3410.2	3364.3	3410
Line amperes	0.661	0.769	0.92	1.1	1.3	1.54	1.3

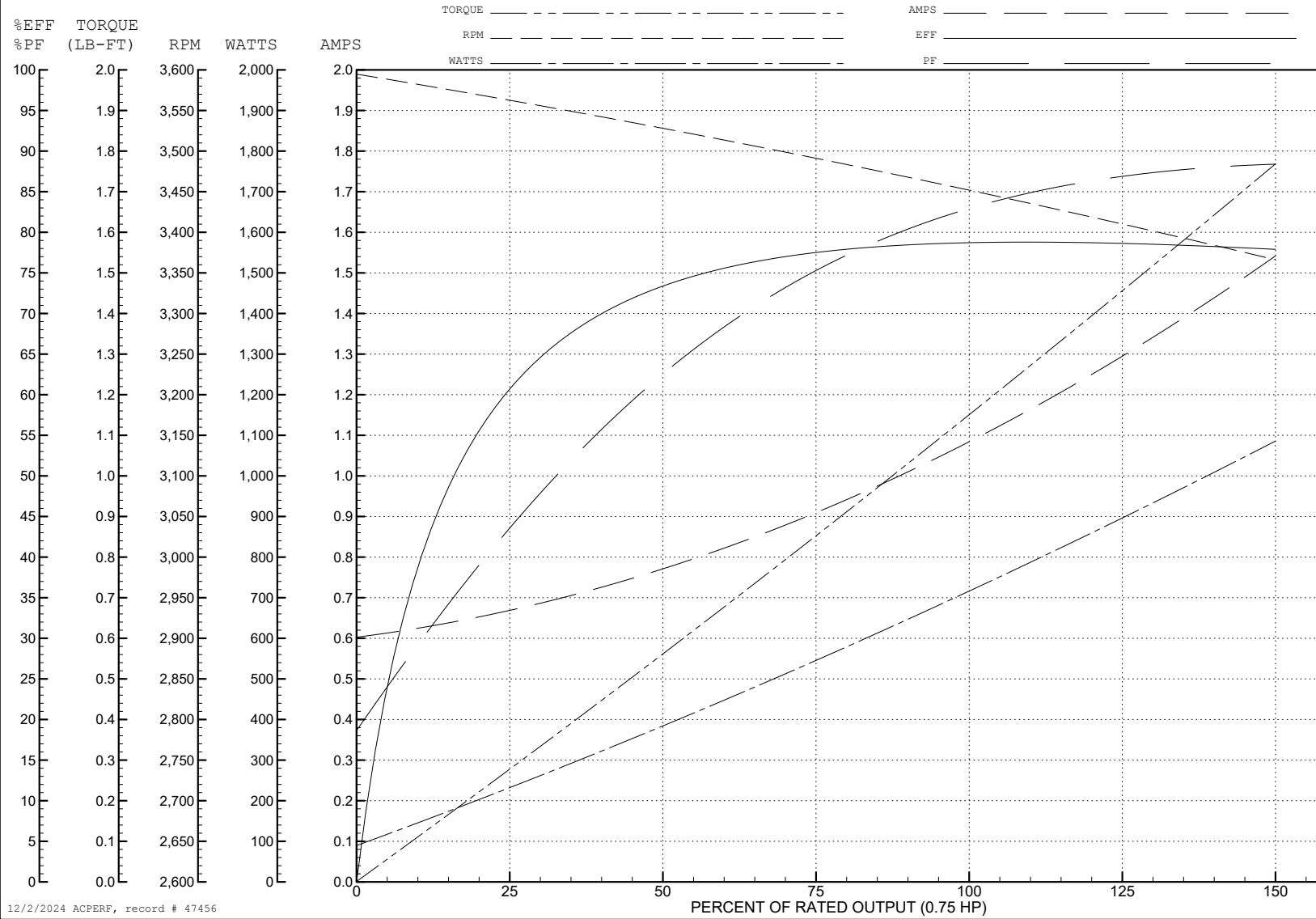
ABB Motors and Mechanical Inc.

WINDING # 34WG719

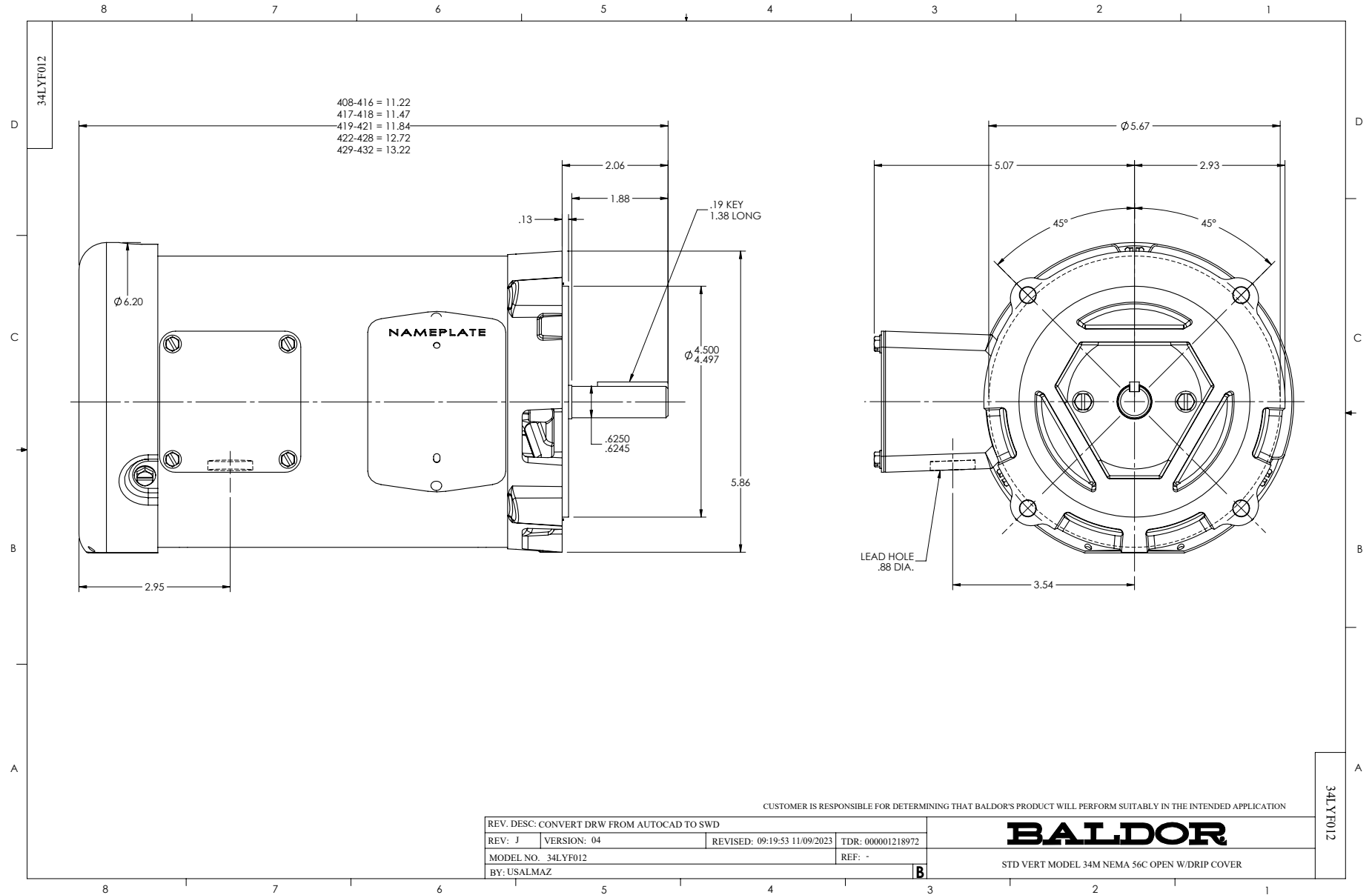
0.75 HP 3 PH 60 HZ 3450 RPM 460 V 3416M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=5.62 PU=3.98 LR=5.14 LRA=9.2



12/2/2024 ACPERF, record # 47456



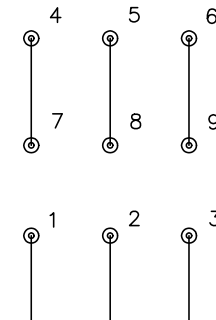
CD0005



LOW VOLTAGE  
(2Y)



HIGH VOLTAGE  
(1Y)



**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.

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

CD0005