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# Customer information packet

## EM30012

.75HP, 3450RPM, 3PH, 60HZ, 48, 3416M, OPEN, F1

Class - None

Division - Not Applicable

## Specifications

Enclosure	OPEN
Frame	48
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	Rigid
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	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	76.8 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.2 a

## Part detail

Revision	G
Type	AC
Mech. spec.	34F002
Base	
Status	PRD/A
Elec. spec.	34WGW719
Layout	34LYF002
Eff. date	12-31-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	09-30-2014

<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>	No 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>	9.13 IN
<b>Power Factor</b>	80
<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>RoHS Status</b>	ROHS COMPLIANT
<b>Service Factor</b>	1.25
<b>Shaft Diameter</b>	0.500 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>	EM30012								
<b>SPEC.</b>	34F002W719G1								
<b>HP</b>	.75								
<b>VOLTS</b>	230/460								
<b>AMP</b>	2.4/1.2								
<b>RPM</b>	3450								
<b>FRAME</b>	48		<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

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

**Load Characteristics 460 V, 60 Hz, 0.75 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>	45	64	75	82	87	89	87
<b>Efficiency</b>	60.9	73.6	77.6	78.8	78.8	77.7	78.8
<b>Speed</b>	3558.7	3525.3	3490.1	3452.4	3410.2	3364.3	3410
<b>Line amperes</b>	0.661	0.769	0.92	1.1	1.3	1.54	1.3

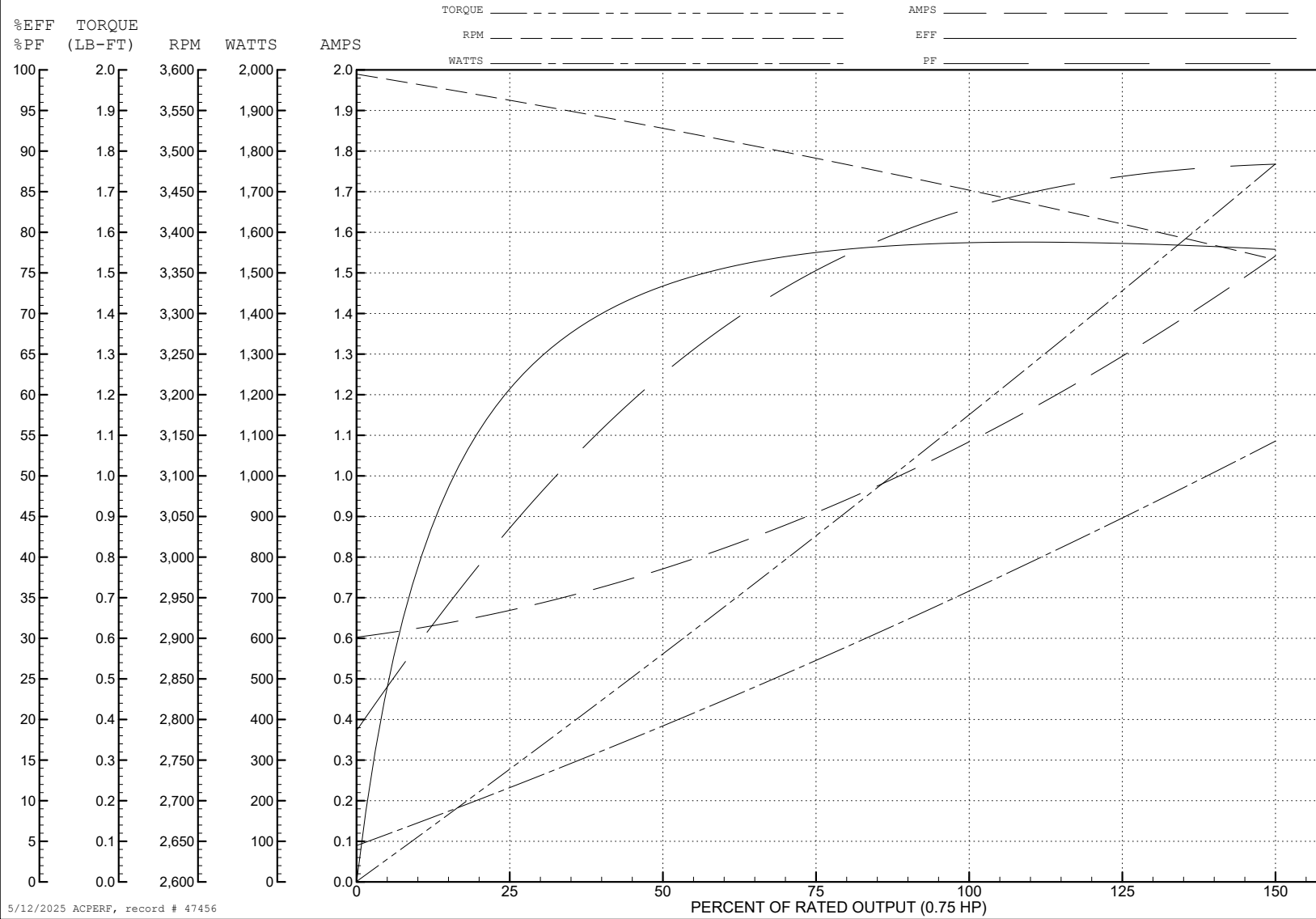
ABB Motors and Mechanical Inc.

WINDING # 34WG719

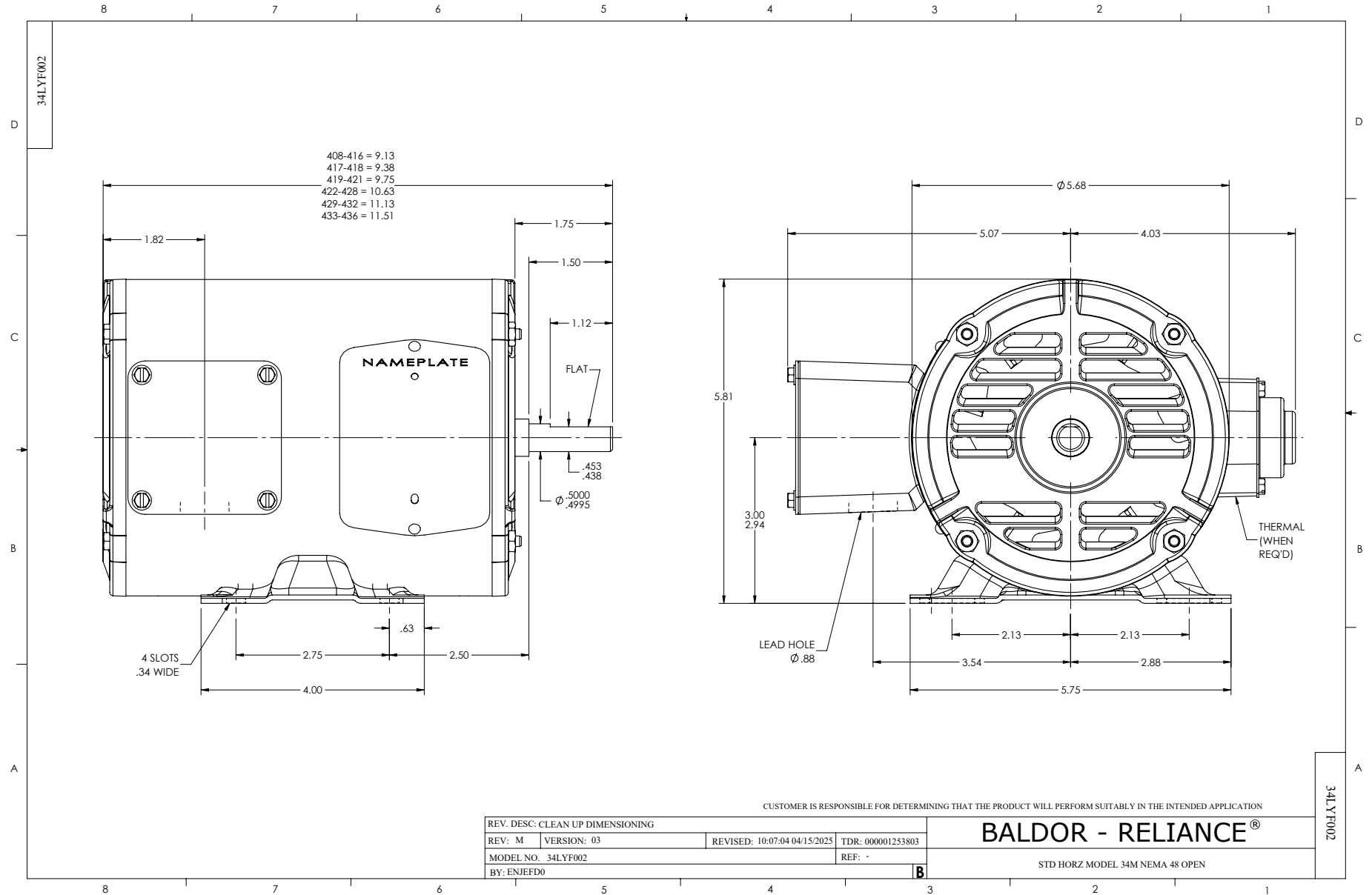
0.75 HP 3 PH 60 HZ 3450 RPM 460 V 3416M

Typical performance - not guaranteed values.

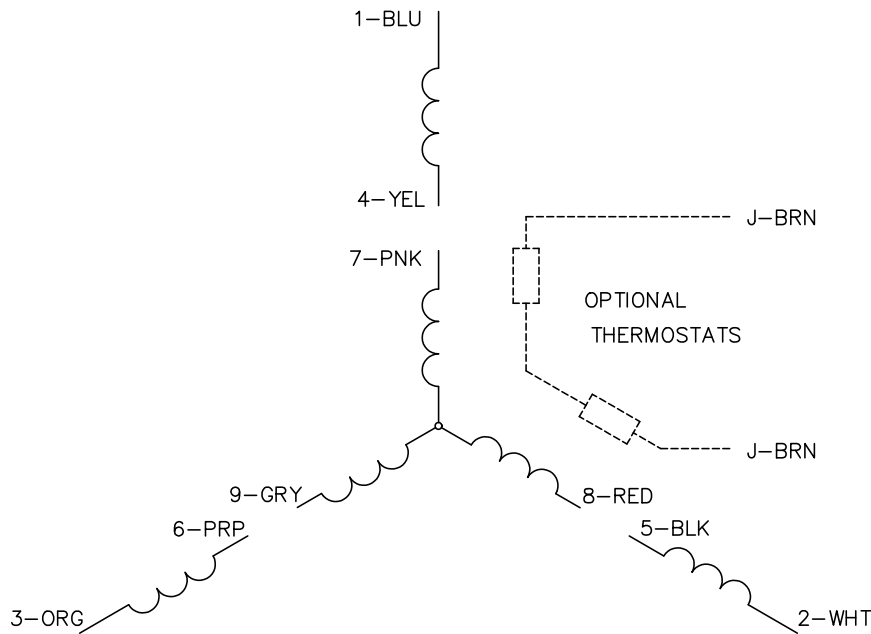
TORQUES (LB-FT): PO=5.62 PU=3.98 LR=5.14 LRA=9.2



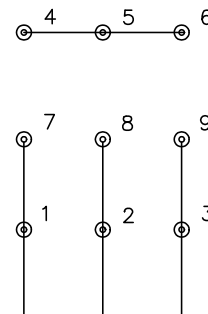
5/12/2025 ACPERF, record # 47456



CD0005

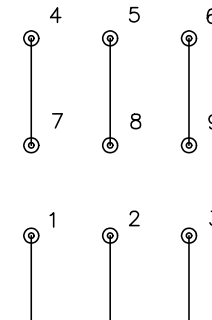


LOW VOLTAGE (2Y)



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.

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