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# Customer information packet

## M3452

.17HP, 1140RPM, 3PH, 60HZ, 48, 3408M, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
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	.170 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	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	1.300 A @ 208.0 V 1.100 A @ 230.0 V .550 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	57.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

## Part detail

Revision	U
Type	AC
Mech. spec.	34A051
Base	
Status	PRD/A
Elec. spec.	34WGW011
Layout	34LYA051
Eff. date	12-30-2024
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	01-01-0001

High Voltage Full Load Amps	0.6 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3408M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	10.73 IN
Power Factor	49
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.35
Shaft Diameter	0.500 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1140 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

**Nameplate**

<b>NP1256L</b>									
<b>CAT.NO.</b>	M3452								
<b>SPEC.</b>	34A51W11								
<b>HP</b>	.17								
<b>VOLTS</b>	230/460								
<b>AMP</b>	1.1/.55								
<b>RPM</b>	1140								
<b>FRAME</b>	48		<b>HZ</b>	60		<b>PH</b>	3		
<b>SER.F.</b>	1.35	<b>CODE</b>	K	<b>DES</b>	B	<b>CLASS</b>	B		
<b>NEMA-NOM-EFF</b>	57.5	<b>PF</b>	49						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>									
<b>DE</b>	6203		<b>ODE</b>	6203					
<b>ENCL</b>	TEFC	<b>SN</b>							
	SFA 1.2/.6								

**Accessories**

<b>Part number</b>	<b>Description</b>	<b>Multiplier</b>
34-3900T	C-FACE KIT	A8

**AC Induction Motor Performance Data**

Record # 6844

Typical performance - not guaranteed values

<b>Winding: 34WGW011-R001</b>		<b>Type: 3408M</b>	<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>	
<b>Rated Output (HP)</b>	.17	<b>Full Load Torque</b>	0.78 LB-FT	
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line	
<b>Full Load Amps</b>	1.1/.55	<b>Breakdown Torque</b>	2.5 LB-FT	
<b>R.P.M.</b>	1140	<b>Pull-up Torque</b>	1.6 LB-FT	
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	1.7 LB-FT
<b>NEMA Design Code</b>	<b>B KVA Code</b>	K	<b>Starting Current</b>	1.6 A
<b>Service Factor (S.F.)</b>		1.35	<b>No-load Current</b>	0.42 A
<b>NEMA Nom. Eff.</b>	57.5 <b>Power Factor</b>	49	<b>Line-line Res. @ 25°C</b>	158 Ω
<b>Rating - Duty</b>		40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	38°C
<b>S.F. Amps</b>		1.2/.6	<b>Temp. Rise @ S.F. Load</b>	48°C

**Load Characteristics 460 V, 60 Hz, 0.17 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>	28	38	47	55	63	68	66
<b>Efficiency</b>	35	50	58	61	62	62	62.4
<b>Speed</b>	1185	1174	1159	1144	1127	1108	1120
<b>Line amperes</b>	0.42	0.43	0.44	0.47	0.5	0.54	0.51

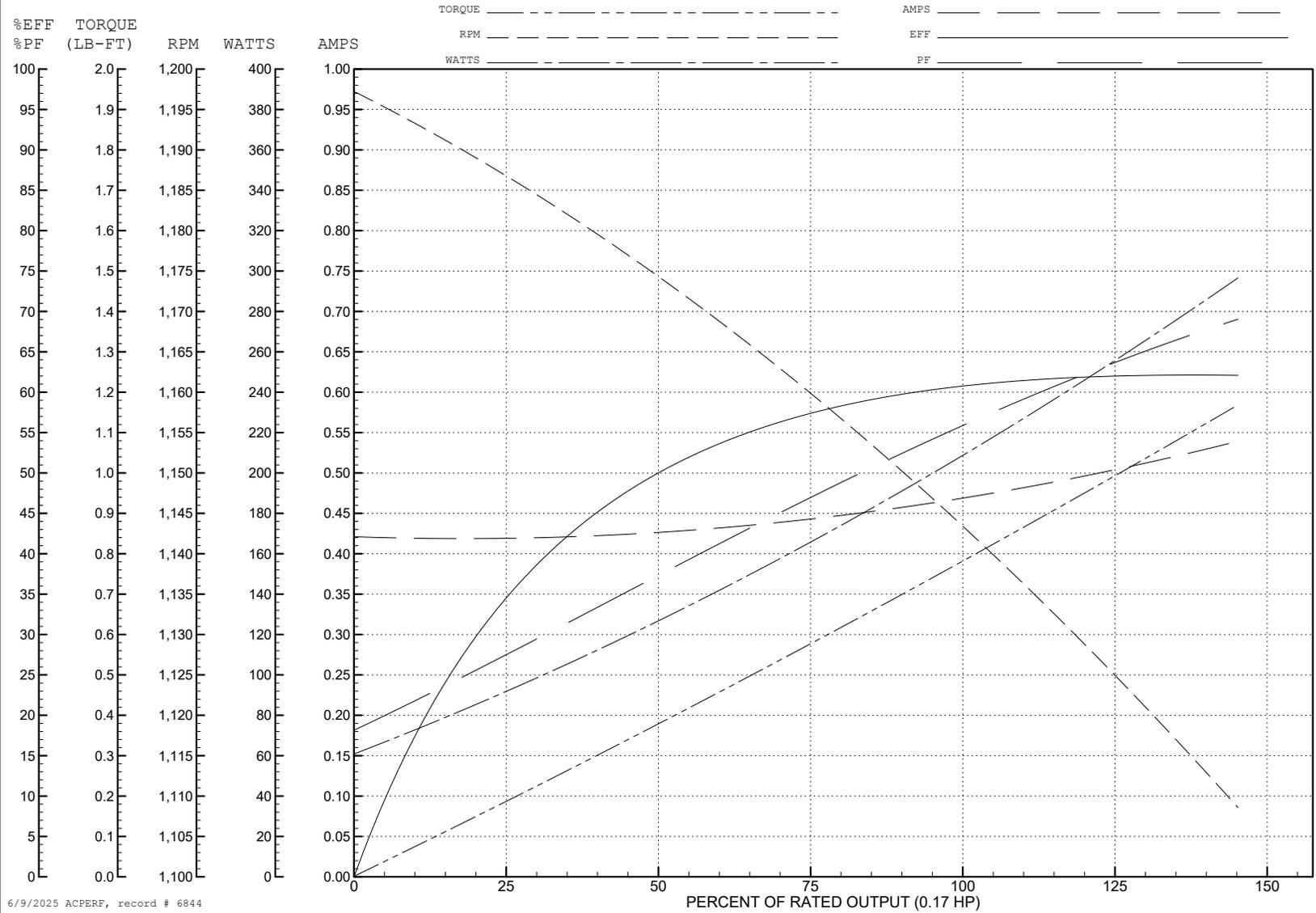
ABB Motors and Mechanical Inc.

WINDING # 34WGW011

0.17 HP 3 PH 60 HZ 1140 RPM 460 V 3408M

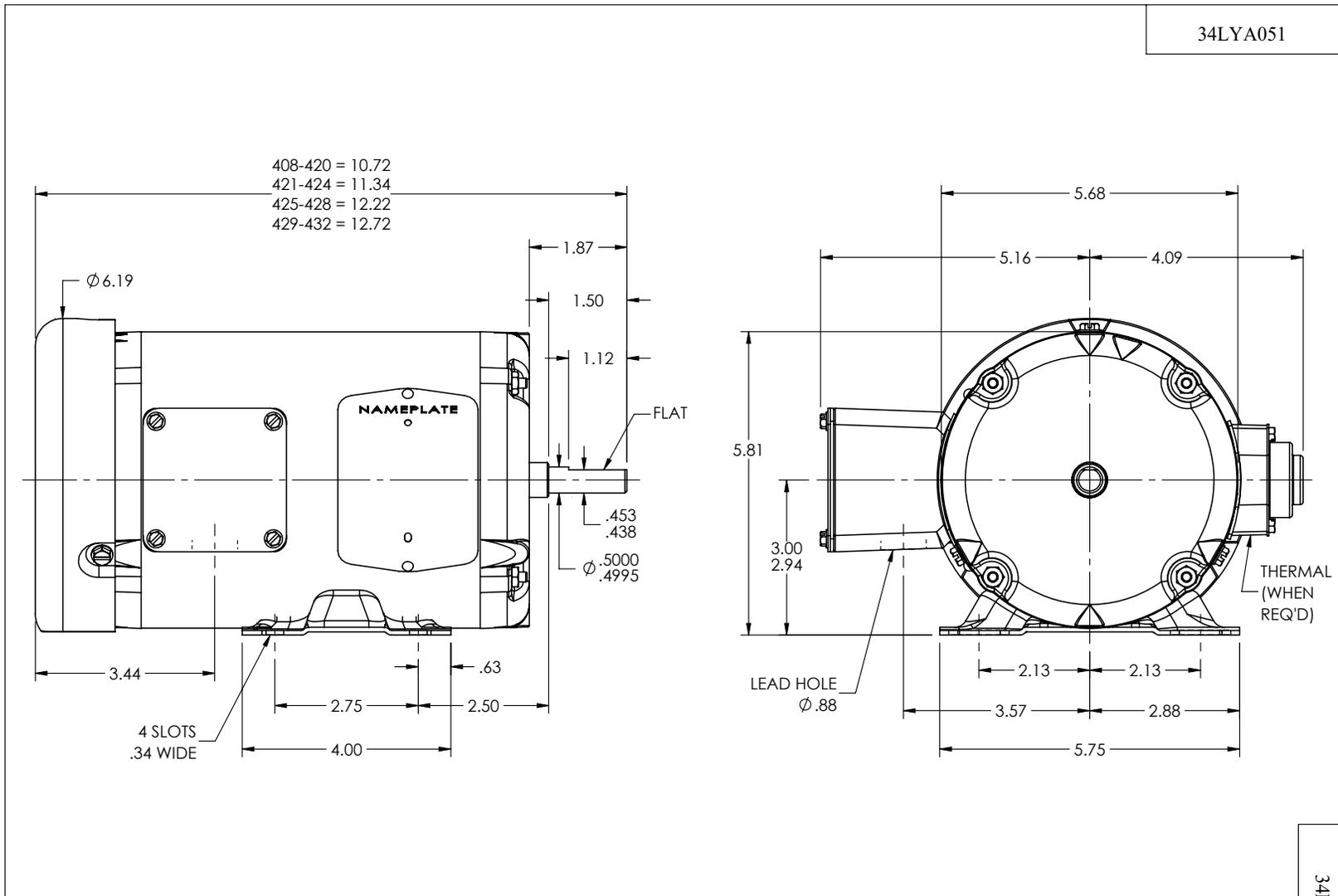
Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=2.5 PU=1.6 LR=1.7 LRA=1.6



6/9/2025 ACPERF, record # 6844

34LYA051



CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: UPDATE DIMENSION GRAPHICS			
REV: P	VERSION: 07	REVISED: 03:05:58 11/26/2024	TDR: 000001245356
34LYA051		MODEL NO. 34LYA051	REF: -
		BY: ENJEFD0	

**BALDOR - RELIANCE®**

STD HORZ 34M NEMA 48 TEFC

34LYA051

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