

**BALDOR • RELIANCE**

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# Customer information packet

## M3458

.33HP, 1730RPM, 3PH, 60HZ, 48, 3413M, 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	.330 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	.700 A @ 460.0 V 1.300 A @ 208.0 V 1.400 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	68.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	0.7 a

## Part detail

Revision	D
Type	AC
Mech. spec.	34A051
Base	
Status	PRD/A
Elec. spec.	34WGR709
Layout	34LYA051
Eff. date	12-30-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	02-05-2021

<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 Quantity/Wire Size</b>	9 @ 18 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	3413M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	10.72 IN
<b>Power Factor</b>	66
<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>	1.35
<b>Shaft Diameter</b>	0.500 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1730 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>	M3458								
<b>SPEC.</b>	34A051R709								
<b>HP</b>	.33								
<b>VOLTS</b>	230/460								
<b>AMP</b>	1.4/.7								
<b>RPM</b>	1730								
<b>FRAME</b>	48		<b>HZ</b>	60		<b>PH</b>	3		
<b>SER.F.</b>	1.35	<b>CODE</b>	L	<b>DES</b>	B	<b>CLASS</b>	B		
<b>NEMA-NOM-EFF</b>	68	<b>PF</b>	66						
<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 1.6/.8								

**Accessories**

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

**AC Induction Motor Performance Data**

Record # 85527

Preliminary Data Sheet

Winding: 34WGR709-R001		Type: 3413M	Enclosure: TEFC	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>	
Rated Output (HP)	.33	Full Load Torque	1 LB-FT	
Volts	230/460	Start Configuration	direct on line	
Full Load Amps	1.4/0.7	Breakdown Torque	3.5 LB-FT	
R.P.M.	1725	Pull-up Torque	2.13 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque	2.72 LB-FT
NEMA Design Code	B KVA Code	L	Starting Current	3.93 A
Service Factor (S.F.)		1.35	No-load Current	0.6 A
NEMA Nom. Eff.	67 Power Factor	66	Line-line Res. @ 25°C	70.9 Ω
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load	51°C
S.F. Amps		1.6/0.8	Temp. Rise @ S.F. Load	67°C
			Locked-rotor Power Factor	82
			Rotor inertia	0.031 lb-ft <sup>2</sup>

**Load Characteristics 460 V, 60 Hz, 0.33 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	46	57	67	69	81	77
Efficiency	38.6	55.6	63.2	67.3	68.7	67.2	68.7
Speed	1779	1764	1749	1731	1712	1691	1697
Line amperes	0.6	0.62	0.65	0.7	0.76	0.85	0.81

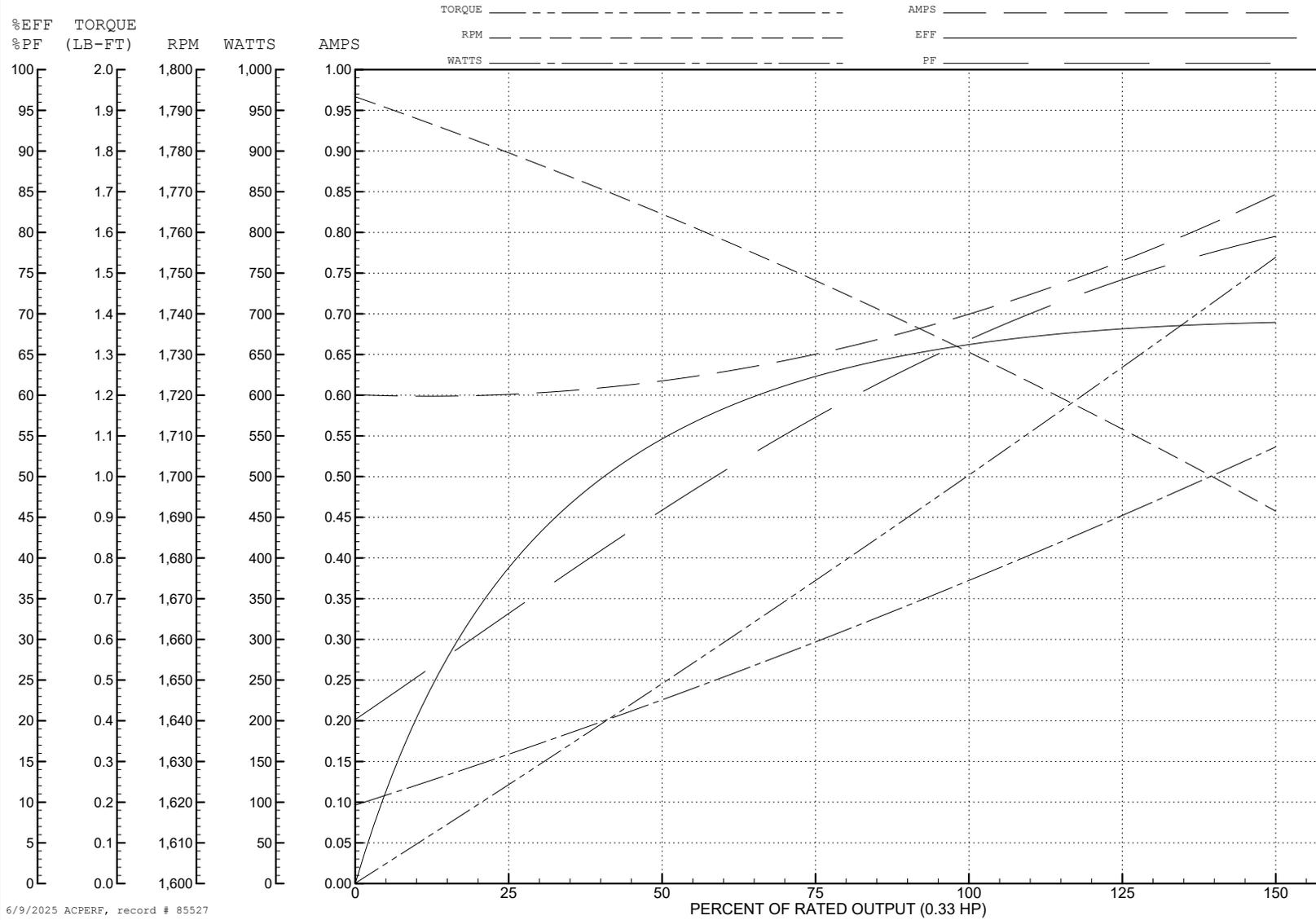
ABB Motors and Mechanical Inc.

WINDING # 34WGR709

0.33 HP 3 PH 60 HZ 1725 RPM 460 V 3413M

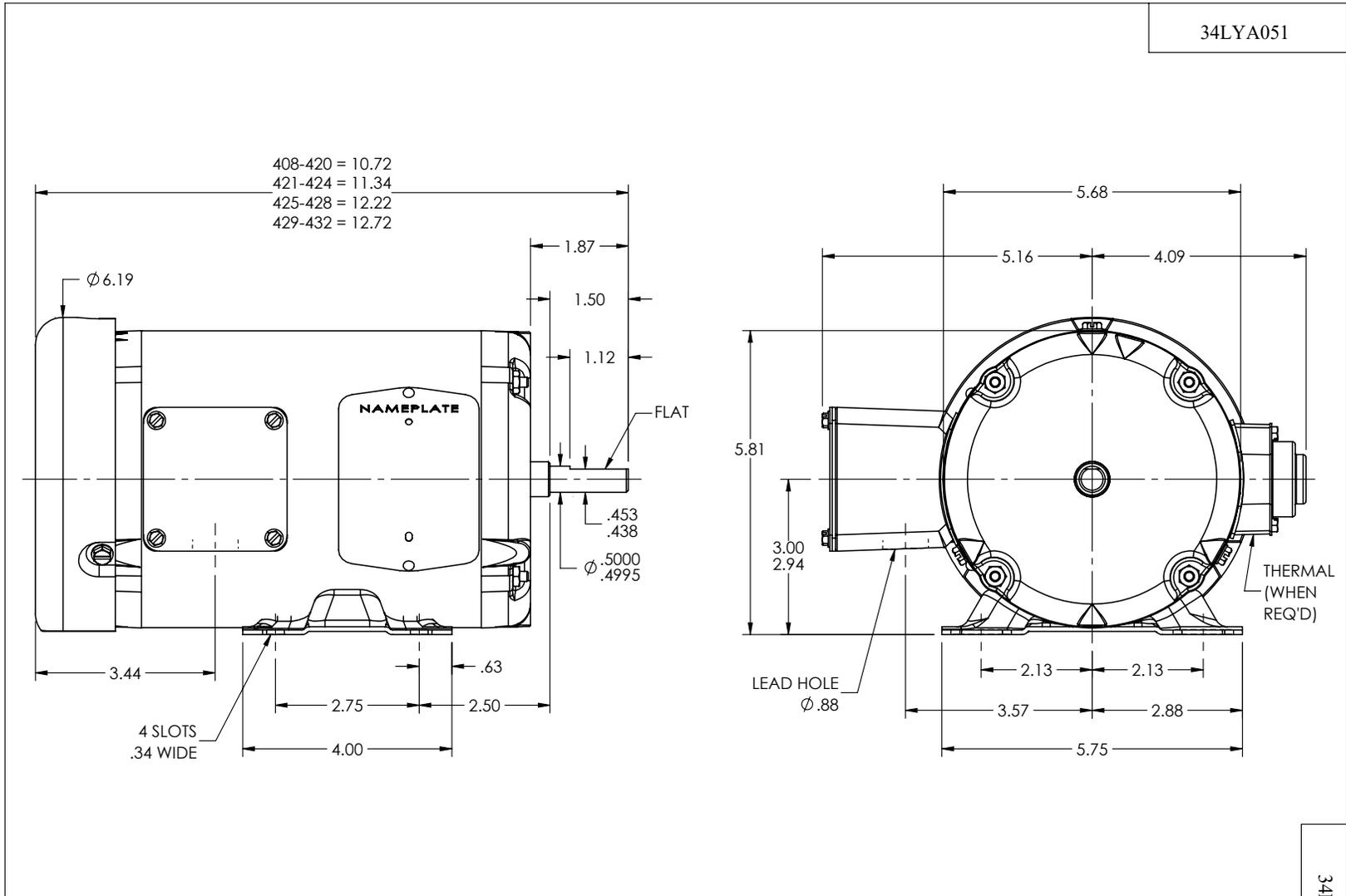
Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=3.5 PU=2.13 LR=2.72 LRA=3.93



6/9/2025 ACPERF, record # 85527

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

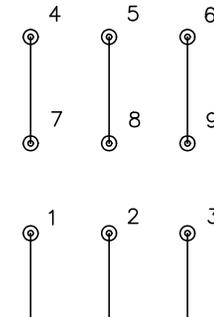
CD0005



LOW VOLTAGE  
(2Y)



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.

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