Customer information packet

EM31108A

.5HP, 1725RPM, 3PH, 60HZ, 56, 3424M, OPEN, F1, N
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	56
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	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.700 A @ 208.0 V
	1.600 A @ 230.0 V
	.800 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.2 %
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	0.8 a

Part Detail

Revision	E
Type	AC
Mech. spec.	34B061
Base	
Status	PRD/A
Elec. spec.	34WGR273
Layout	34LYB061
Eff. date	12-30-2024
CD Diagram	CD0007
Poles	04
Leads	12#18
Proprietary	False
Created date	01-15-2015

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	12 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3424M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.75 IN
Power Factor	78
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1725 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	Automatic Thermal Overload
Winding Thermal 1 Location	SB

Winding Thermal 2	None

Nameplate

NP3273L									
CAT.NO.	EM31108A								
SPEC.	34B061R273G1								
HP	.5								
VOLTS	230/460								
AMP	1.6/.8								
RPM	1725								
FRAME	56		**HZ**	60			**PH**	3	
SER.F.	1.25	**CODE**	J	**DES**	B	**CL**	F		
F.L. AVG. EFF.	78.2	**PF**	78						
RATING	40C AMB-CONT								
CC									
DE	6203		**ODE**	6203					
ENCL	OPEN	**SN**							
	SFA 2/1								

AC Induction Motor Performance Data
Record # 48822
Typical performance - not guaranteed values

Winding: 34WGR273-R001	**Type:** 3424M	**Enclosure:** OPEN

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.5	**Full Load Torque**	1.57 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			1.6/.8	**Breakdown Torque**	5.24 LB-FT
R.P.M.			1725	**Pull-up Torque**	3.8 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	5.12 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	6.16 A
Service Factor (S.F.)			1.25	**No-load Current**	0.474 A
NEMA Nom. Eff.	78.2	**Power Factor**	78	**Line-line Res. @ 25ºC**	30.994 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	25°C
S.F. Amps			2/1	**Temp. Rise @ S.F. Load**	34°C
				Locked-rotor Power Factor	53
				Rotor inertia	0.0572 LB-FT2

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	38	55	68	76	80	83	80
Efficiency	67.3	76.6	78.9	78.7	77.2	74.9	77.2
Speed	1782.6	1766.4	1749.5	1729.5	1707.4	1683.2	1707
Line amperes	0.509	0.586	0.687	0.815	0.971	1.14	0.971

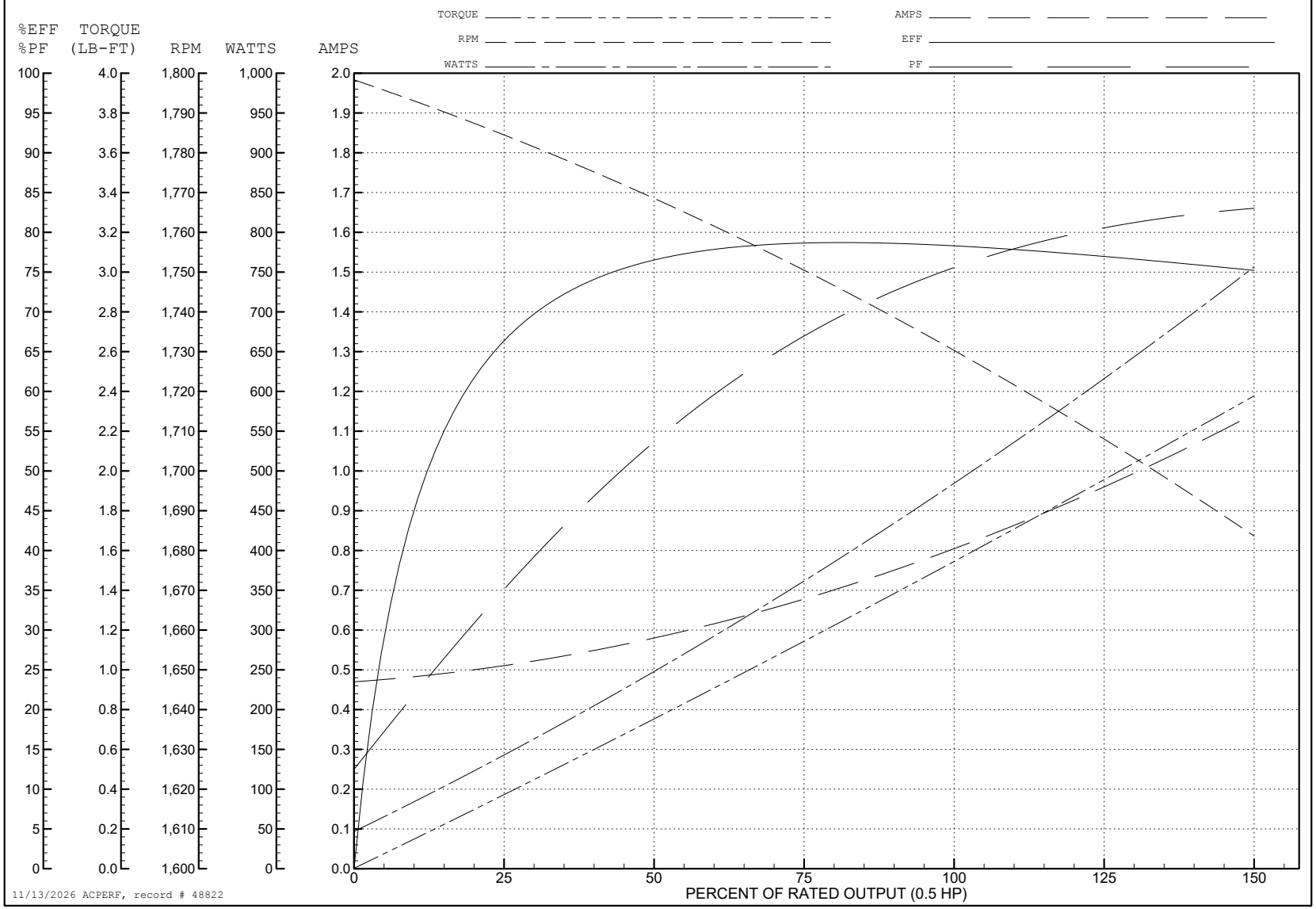
ABB Motors and Mechanical Inc.

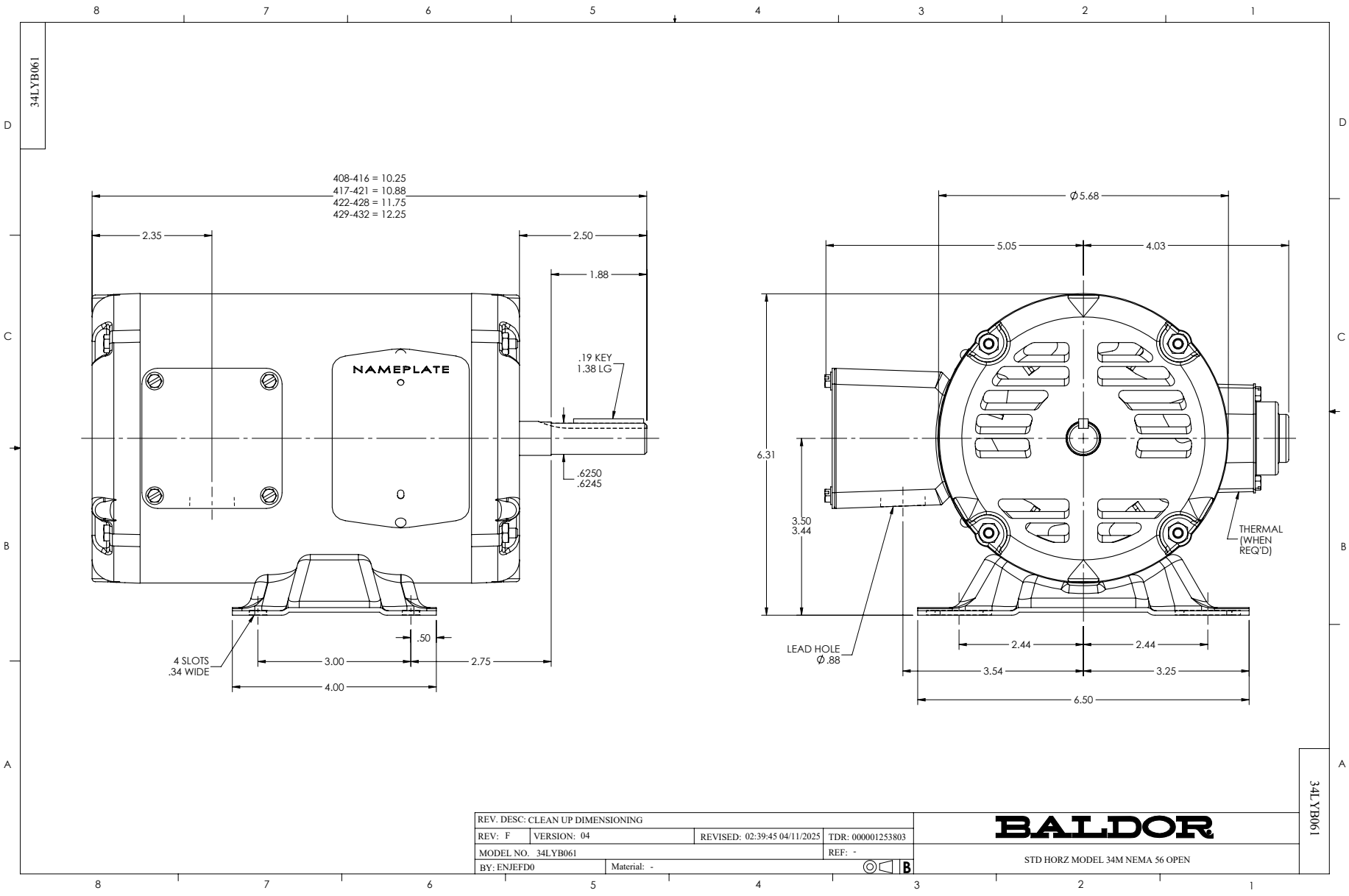
WINDING # 34WGR273

0.5 HP 3 PH 60 HZ 1725 RPM 460 V 3424M

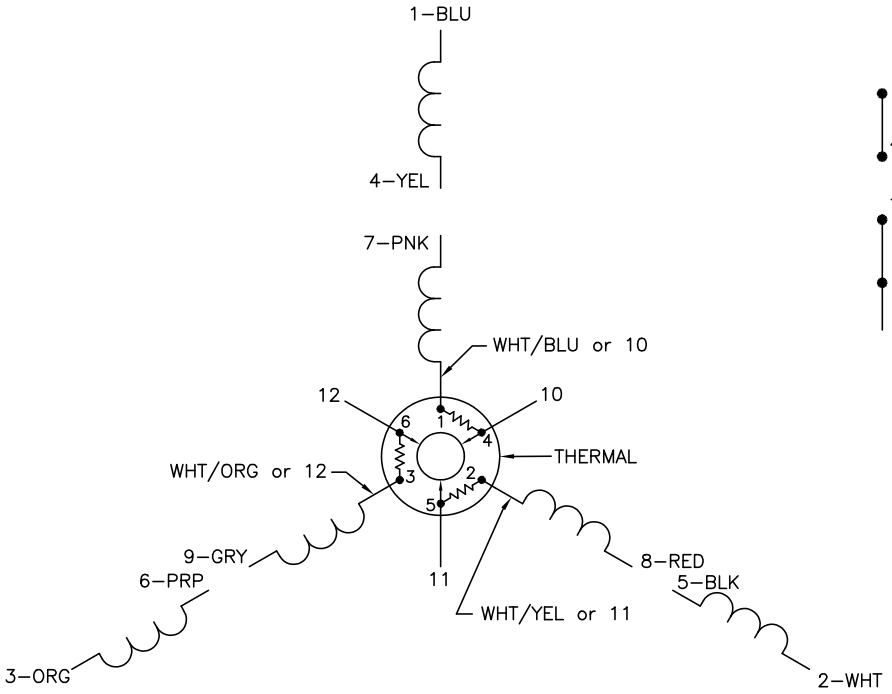
Typical performance - not guaranteed values.

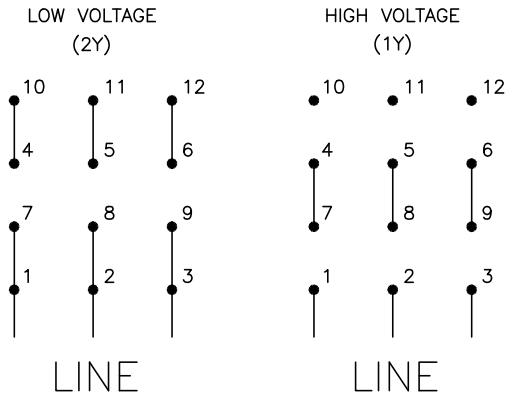
TORQUES(LB-FT): PO=5.24 PU=3.8 LR=5.12 LRA=6.16




34LYB061
408-416 = 10.25
417-421 = 10.88
422-428 = 11.75
429-432 = 12.25
2.35
2.50
1.88
NAMEPLATE
.19 KEY
1.38 LG
.6250
.6245
.50
4 SLOTS
.34 WIDE
3.00
2.75
4.00
Ø5.68
5.05
4.03
6.31
3.50
3.44
THERMAL
(WHEN
REQ'D)
LEAD HOLE
Ø.88
2.44
2.44
3.54
3.25
6.50
REV. DESC: CLEAN UP DIMENSIONING
REV: F
VERSION: 04
REVISED: 02:39:45 04/11/2025
TDR: 000001253803
MODEL NO. 34LYB061
REF: -
BY: ENJEFD0
Material: -
B
BALDOR
STD HORZ MODEL 34M NEMA 56 OPEN
34LYB061

CD0007





NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: ADDED "CK" PLANT CODE			BALDOR ELECTRIC Co.
REV. LTR: E	BY: EAH	REVISED: 05/06/99 17:1	TDR: 0181040
CD0007		FILE: AAA00008370	MDL: –
		MTL: –	3PH, DV, THERMAL, 12 LEADS

CD0007