

ABB BALDOR RELIANCE III

Customer information packet

CM3546-5

1HP, 1725RPM, 3PH, 60HZ, 56C, 3424M, TEFC, F1

Class -

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	RG
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.300 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.5 %
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	1.3 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K

Part Detail

Revision	K
Type	AC
Mech. spec.	34A062
Base	
Status	INA/A
Elec. spec.	34WGX973
Layout	34LYA062
Eff. date	05-17-2016
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	01-01-0001

Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3424M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.97 IN
Power Factor	72
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
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

Nameplate

NP1256L									
CAT.NO.	CM3546-5								
SPEC.	34A062X973G1								
HP	1								
VOLTS	575								
AMP	1.3								
RPM	1725								
FRAME	56C		HZ	60			PH	3	
SER.F.	1.15	CODE	K	DES	B	CLASS		B	
NEMA-NOM-EFF	78.5	PF	72						
RATING	40C AMB-CONT								
CC									
DE	6203		ODE	6203					
ENCL	TEFC	SN							

AC Induction Motor Performance Data

Record # 7720

Typical performance - not guaranteed values

Winding: 34WGX973-R002			Type: 3424M		Enclosure: TEFC		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		1	Full Load Torque		3 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		1.3	Breakdown Torque		10.6 LB-FT		
R.P.M.		1725	Pull-up Torque		6.6 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		7.3 LB-FT	
NEMA Design Code		B	KVA Code	K	Starting Current		7.4 A
Service Factor (S.F.)		1.15	No-load Current		0.95 A		
NEMA Nom. Eff.		78.5	Power Factor	72	Line-line Res. @ 25°C		27 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		
					Locked-rotor Power Factor		58
					Rotor inertia		0.0572 LB-FT2

Load Characteristics 575 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	48	60	69	74	77	72
Efficiency	61.2	73.8	78.3	79.9	80.1	79.4	80
Speed	1782	1766	1749	1731	1712	1690	1720
Line amperes	0.98	1.06	1.19	1.35	1.54	1.77	1.46

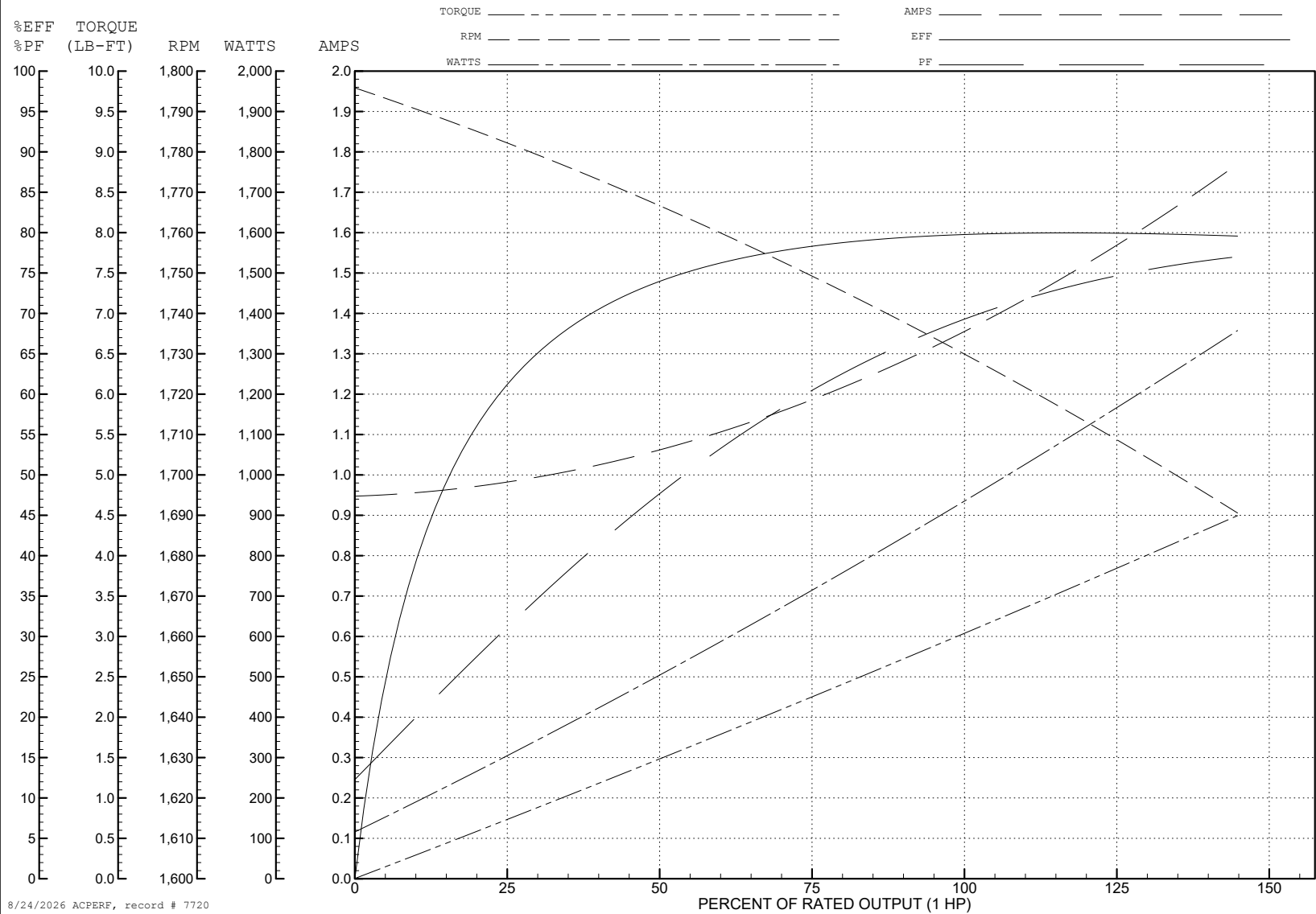
ABB Motors and Mechanical Inc.

WINDING # 34WGX973

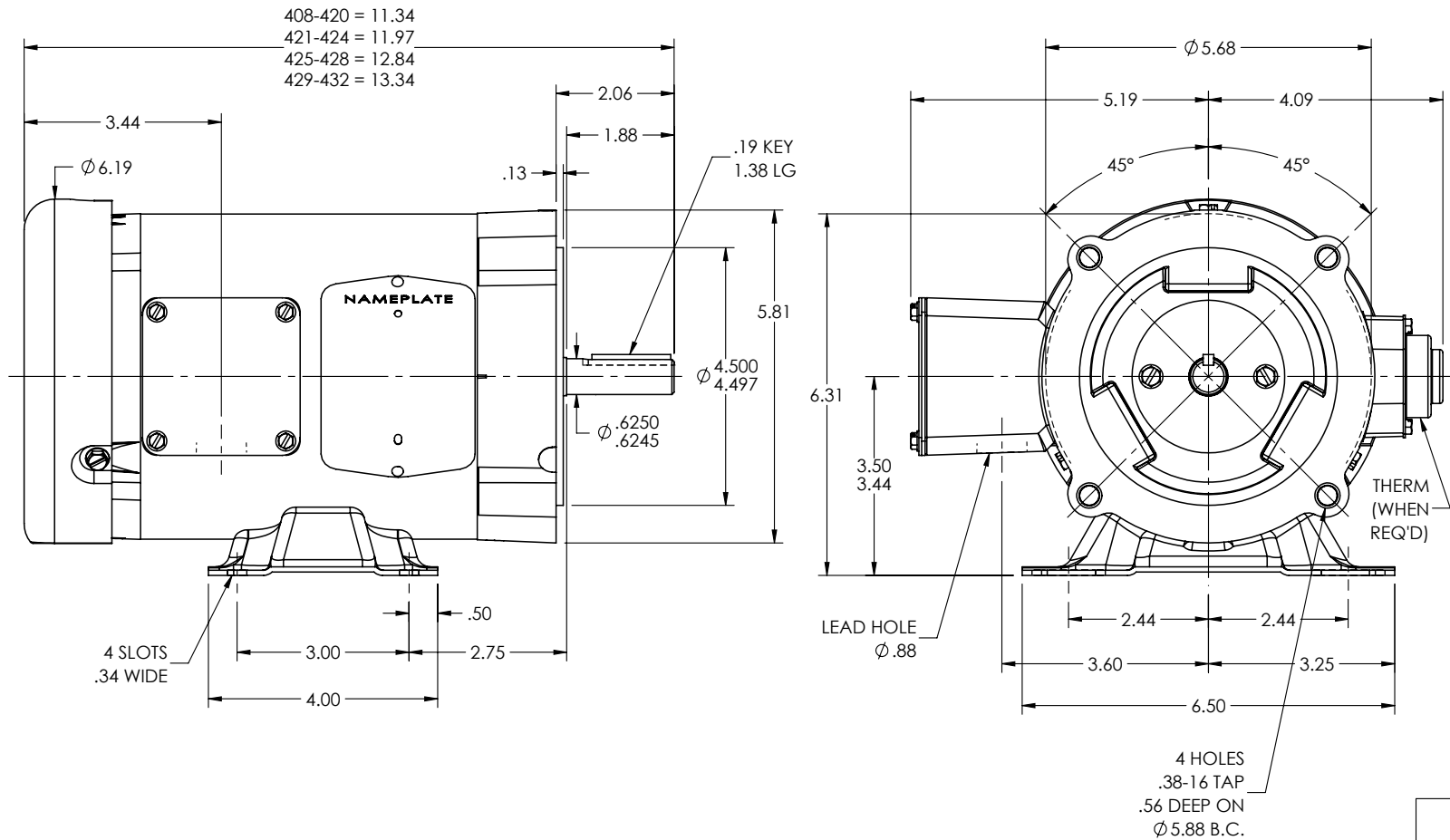
Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1725 RPM 575 V 3424M

TORQUES (LB-FT): PO=10.6 PU=6.6 LR=7.3 LRA=7.4



34LYA062



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

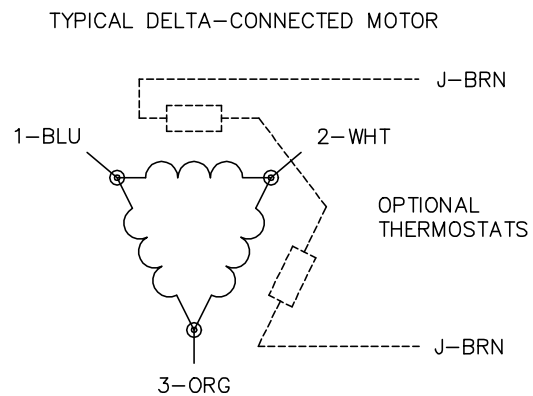
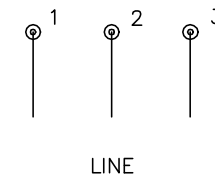
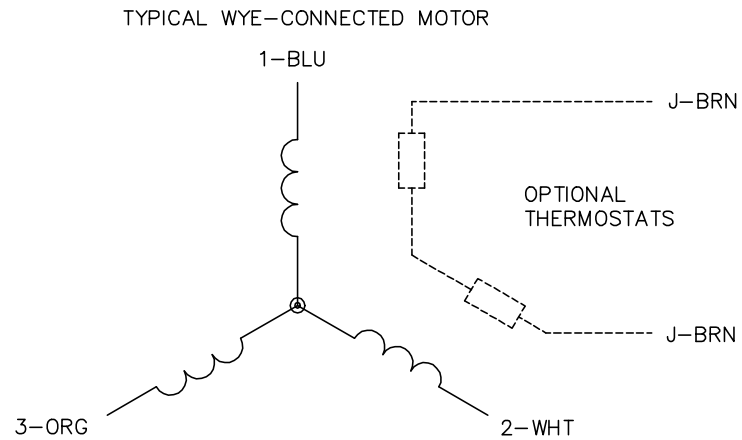
REV. DESC: CLEAN UP DIMENSIONING			
REV: U	VERSION: 06	REVISED: 10:13:09 10/31/2024	TDR: 000001243684
MODEL NO. 34LYA062		REF: -	
BY: ENJEFD0			

BALDOR - RELIANCE®

STD HORZ 34M NEMA 56C TEFC

34LYA062

CD0006


NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10:24:49 02/19/2019

BY: ENBRIRO

MTL: -


BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1