

ABB BALDOR RELIANCE III

Customer information packet

M3539-5

.5HP, 1140RPM, 3PH, 60HZ, 56, 3418M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
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	1200 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	C UR US
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	1.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	72.0 %
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	1.0 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	J

Part Detail

Revision	Z
Type	AC
Mech. spec.	34A061
Base	
Status	PRD/A
Elec. spec.	34WGW051
Layout	34LYA061
Eff. date	12-30-2024
CD Diagram	CD00006
Poles	06
Leads	3#18
Proprietary	False
Created date	01-01-0001

Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No 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	3418M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	11.35 IN
Power Factor	55
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
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	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

NP1256L									
CAT.NO.	M3539-5								
SPEC.	34A61W51								
HP	.5								
VOLTS	575								
AMP	1								
RPM	1140								
FRAME	56		HZ	60			PH	3	
SER.F.	1.25		CODE	J	DES	B	CLASS	B	
NEMA-NOM-EFF	72		PF	55					
RATING	40C AMB-CONT								
CC									
DE	6203		ODE	6203					
ENCL	TEFC		SN						
	SFA 1.1								

Accessories

Part number	Description	Multiplier
34-171	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 6862

Typical performance - not guaranteed values

Winding: 34WGW051-R001			Type: 3418M		Enclosure: TEFC	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		.5	Full Load Torque		2.3 LB-FT	
Volts		575	Start Configuration		direct on line	
Full Load Amps		1	Breakdown Torque		7.7 LB-FT	
R.P.M.		1140	Pull-up Torque		6 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		6.2 LB-FT	
NEMA Design Code		B	KVA Code		J	
Starting Current		4 A	No-load Current		0.76 A	
Service Factor (S.F.)		1.25	Line-line Res. @ 25°C		62.5 Ω	
NEMA Nom. Eff.		72	Power Factor		55	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		63°C	
S.F. Amps		1.1	Temp. Rise @ S.F. Load		77°C	

Load Characteristics 575 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	20	34	45	55	62	68	62
Efficiency	48	63	67	72	72	71	72
Speed	1185	1170	1155	1140	1120	1100	1120
Line amperes	0.76	0.8	0.88	0.96	1.04	1.2	1.04

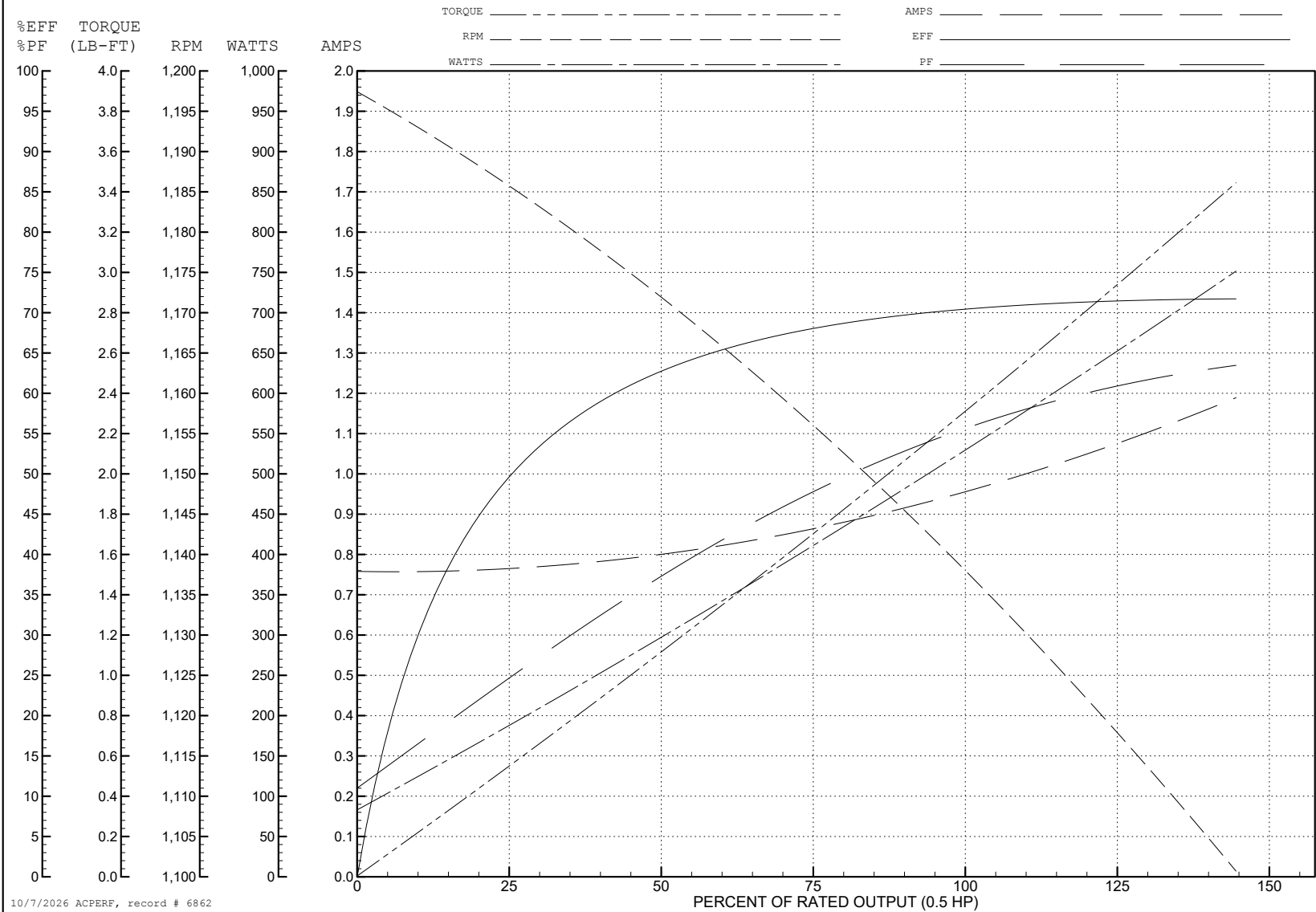
ABB Motors and Mechanical Inc.

WINDING # 34WGW051

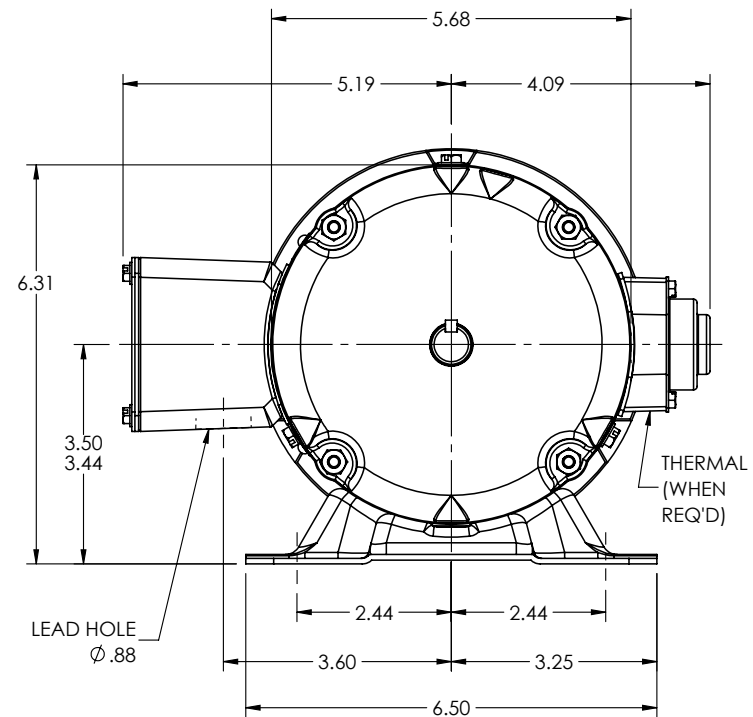
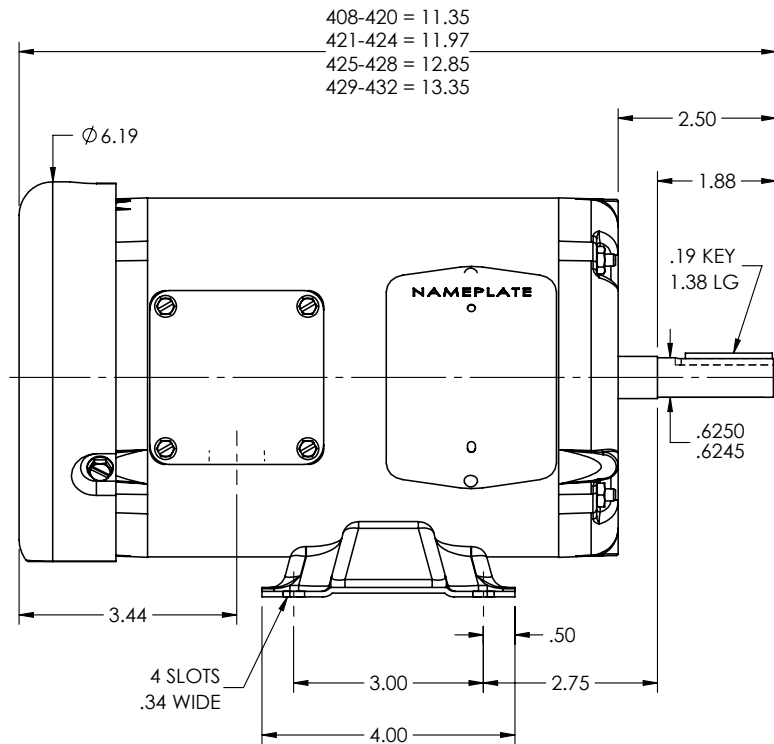
Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 1140 RPM 575 V 3418M

TORQUES (LB-FT) : PO=7.7 PU=6 LR=6.2 LRA=4



34LYA061



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

REV. DESC: CLEAN UP DIMENSIONING

REV: N

VERSION: 06

REVISED: 02:32:44 11/26/2024

TDR: 000001245356

34LYA061

MODEL NO. 34LYA061

BY: ENJFD0

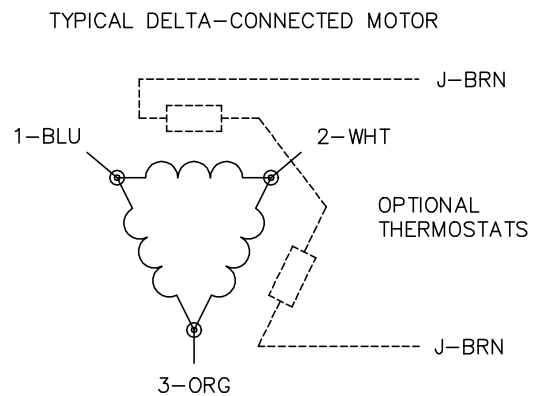
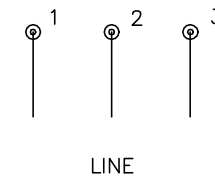
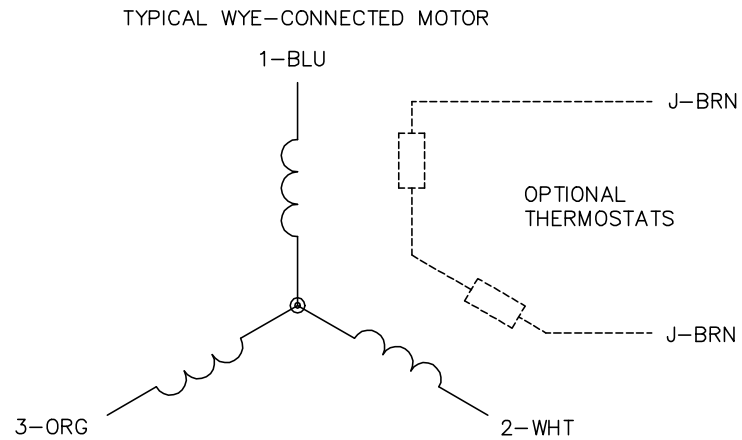
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BALDOR - RELIANCE®

STD HORZ 34M NEMA 56 TEFC

34LYA061

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