



Customer information packet

VM3550-5

1.5HP, 3450RPM, 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	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA
	UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	N
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.800 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
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	1.8 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L

Part detail

Revision	X
Type	AC
Mech. spec.	34A063
Base	
Status	INA/A
Elec. spec.	34WG0502
Layout	34LYA063
Eff. date	03-08-2016
CD Diagram	CD0006
Poles	02
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	2
Overall Length	11.97 IN
Power Factor	74
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	3450 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.	VM3550-5										
SPEC.	34A63-502										
HP	1.5										
VOLTS	575										
AMP	1.8										
RPM	3450										
FRAME	56C			HZ	60			PH	3		
SER.F.	1.15	CODE		L	DES	B	CLASS	B			
NEMA-NOM-EFF	80		PF		74						
RATING	40C AMB-CONT										
CC											
DE	6203			ODE		6203					
ENCL	TEFC	SN									
	SFA 2										

Parts list

Part number	Description	Quantity
SA009876	SA 34A63-502	1.000 ea
RA006321	RA 34A63-502	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
34CB3002A	CB CAST W/.88 DIA HOLE	1.000 ea
34GS1029A01	GASKET, CONDUIT BOX	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
34EP3102A01SP	FR ENDPLATE, MACH	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3300A24SP	PU ENDPLATE, MACH	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
34FN3002A01SP	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
34CB4517	CB LID 4 MTG HOLES .22 DIA STAMPED, FOR	1.000 ea
34GS1031A01	GASKET, FLAT CONDUIT BOX LID (LEXIDE)	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
34FH4002A01SP	IEC FH NO GREASER PRIMED	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
MG1000G27	MED CHARCOAL METALLIC GREY	0.014 ga
10XF0440S02	04-40 X 1/8 TYPE F HEX HD STAINLESS STIC	2.000 ea
HA3100A44	THRUBOLT 10-32 X 8.000	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2400 bx)4/22	1.000 ea
LB1624	WARNING LABEL	1.000 ea
LC0006	CONNECTION LABEL	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
34PA1005	PKG GRP, PRINT PK1008A06	1.000 ea
PK3083T	STYROFOAM PACKING CRADLE W/TAPE	1.000 ea

AC Induction Motor Performance Data

Record # 6589

Typical performance - not guaranteed values

Winding: 34WG0502-R001			Type: 3424M		Enclosure: TEFC		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		1.5	Full Load Torque		2.25 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		1.8	Breakdown Torque		10.6 LB-FT		
R.P.M.		3450	Pull-up Torque		10 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		11.7 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		14.7 A
Service Factor (S.F.)		1.15	No-load Current		1.1 A		
NEMA Nom. Eff.		80	Power Factor	74	Line-line Res. @ 25°C		13.1 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		71°C
S.F. Amps		2	Temp. Rise @ S.F. Load		83°C		
			Locked-rotor Power Factor		67		
			Rotor inertia		0.0223 LB-FT2		

Load Characteristics 575 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	51	64	75	77	84	76
Efficiency	70.7	79.6	81.8	82.3	81.7	80.6	81.9
Speed	3564	3533	3501	3466	3429	3394	3444
Line amperes	1.2	1.4	1.6	1.8	2.2	2.4	2.1

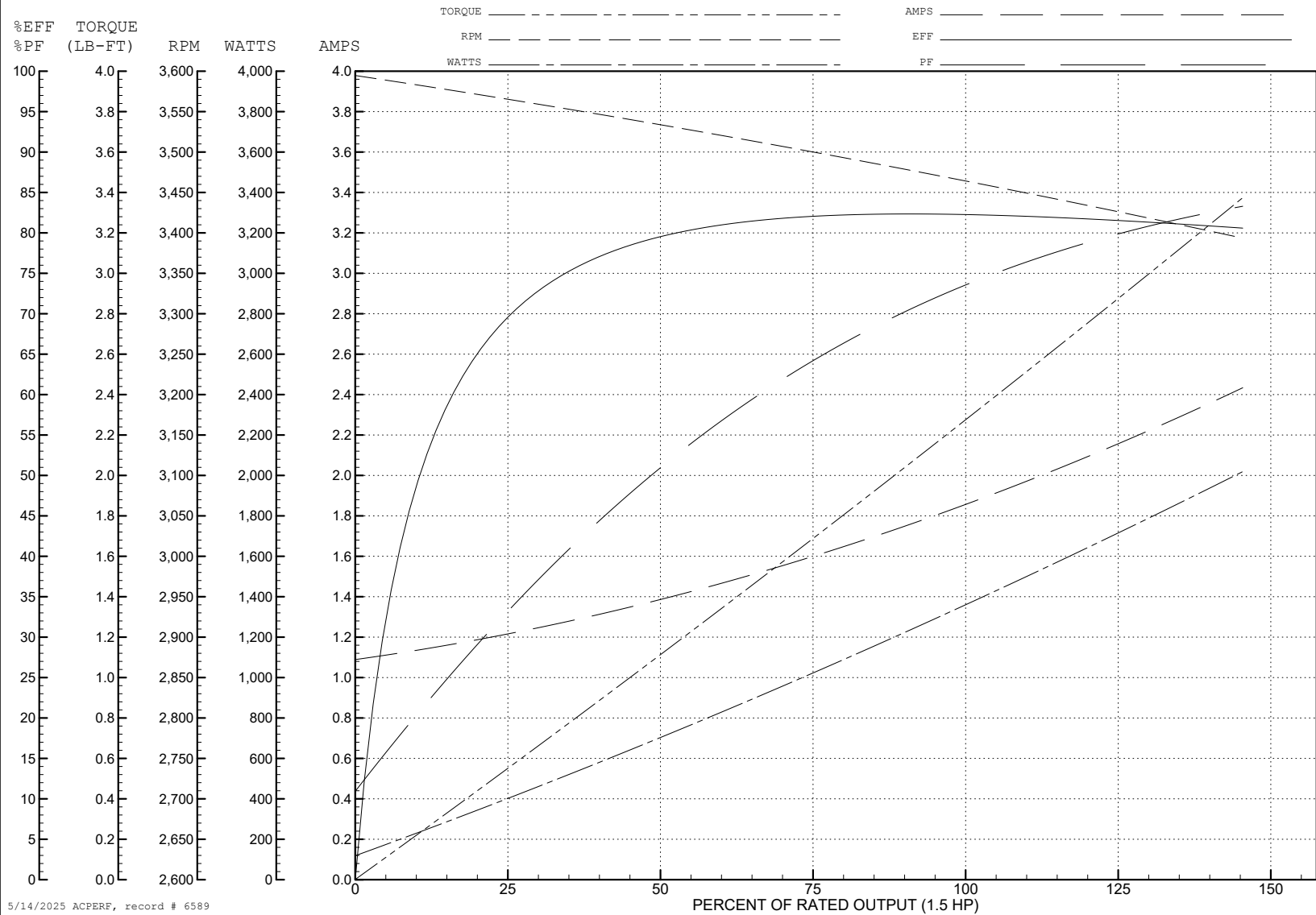
ABB Motors and Mechanical Inc.

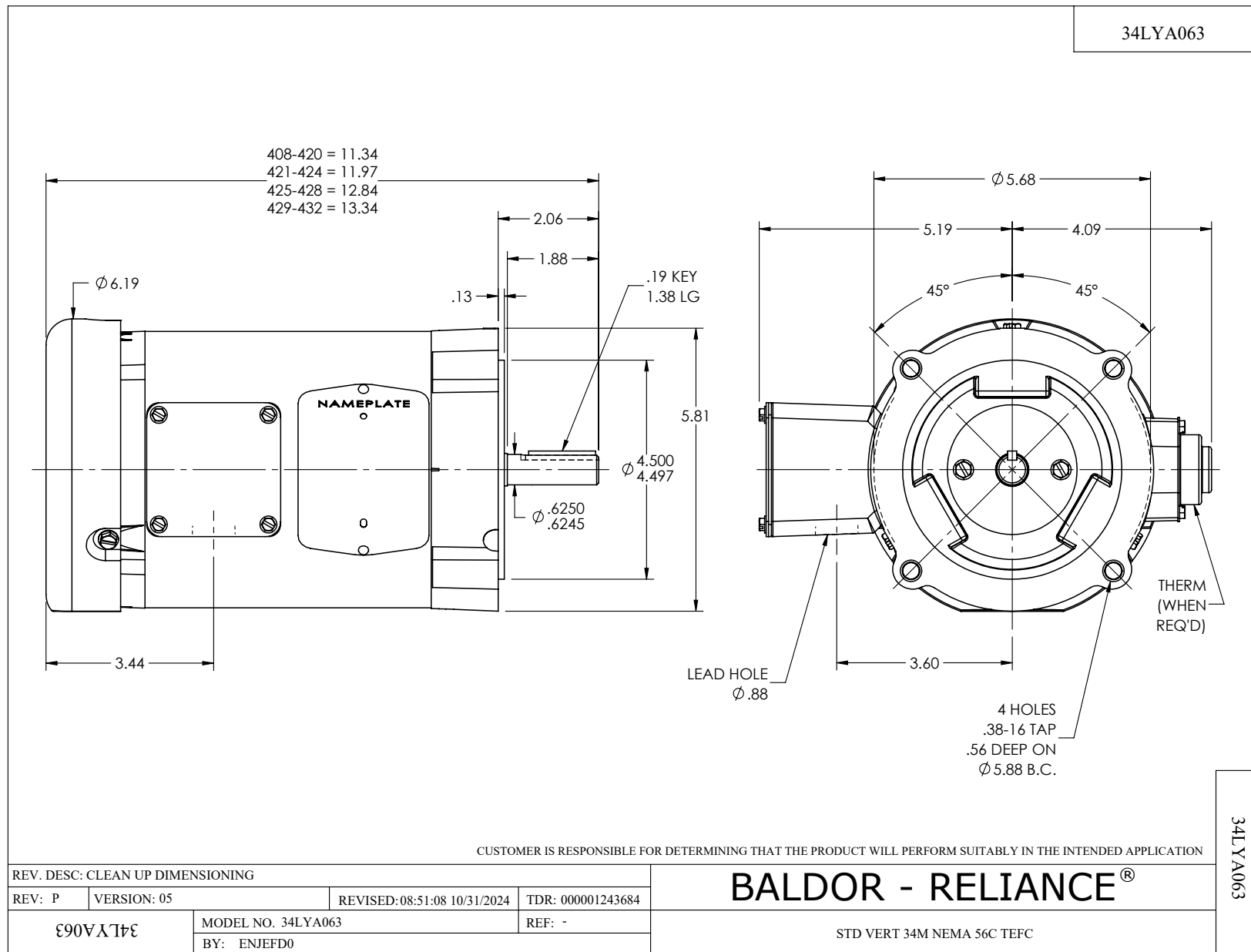
WINDING # 34WG0502

Typical performance - not guaranteed values.

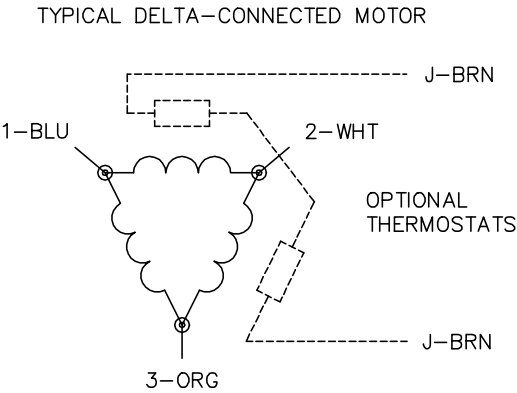
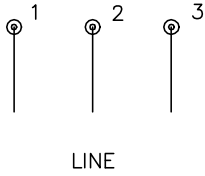
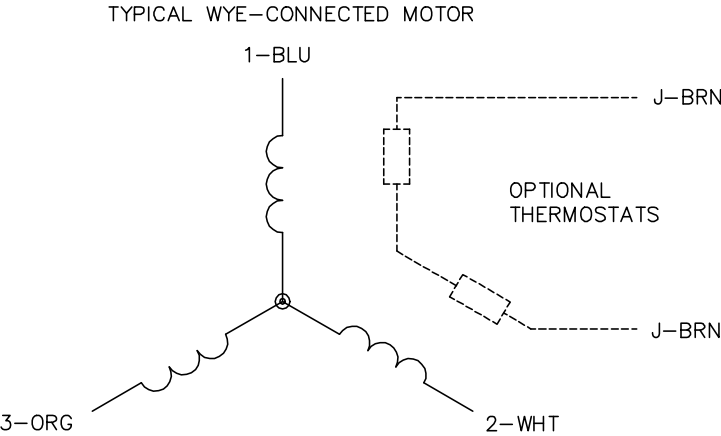
1.5 HP 3 PH 60 HZ 3450 RPM 575 V 3424M

TORQUES (LB-FT): PO=10.6 PU=10 LR=11.7 LRA=14.7





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