

BALDOR® • RELIANCE

Product Information Packet

VM3545-5

1HP,3450RPM,3PH,60HZ,56C,3416M,TEFC,F1

Part Detail							
Revision:	V	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3416M	Elec. Spec:	34WG0497	CD Diagram:	CD0006
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	34A063	Layout:	34LYA063
Frame:	56C	Mounting:	F1	Poles:	02	Created Date:	
Base:	N	Rotation:	R	Insulation:	B	Eff. Date:	08-27-2014
Leads:	3#18					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1256L										
CAT.NO.	VM3545-5									
SPEC.	34A63-497									
HP	1									
VOLTS	575									
AMP	1.4									
RPM	3450									
FRAME	56C	HZ			60	PH		3		
SER.F.	1.25	CODE			H	DES		B	CLASS	B
NEMA-NOM-EFF	75.5	PF			71					
RATING	40C AMB-CONT									
CC		USABLE AT 208V								
DE	6203	ODE			6203					
ENCL	TEFC	SN								
	SFA 1.6									

Parts List		
Part Number	Description	Quantity
SA009874	SA 34A63-497	1.000 EA
RA006319	RA 34A63-497	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
HW5100A03SP	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
HW2501D13SP	KEY, 3/16 SQ X 1.375	1.000 EA
34FH4002A01	IEC FH NO GREASER	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
HA3100A12	THRUBOLT 10-32 X 7.375	4.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 10/13	1.000 EA
LB1119N	WARNING LABEL	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
LC0006	CONNECTION LABEL	1.000 EA
LB1125C01	STD (STOCK) CARTON LABEL BALDOR WITH FLA	1.000 EA
NP1256L	ALUM UL CSA CC	1.000 EA
34PA1002	PACKING GROUP, BALDOR	1.000 EA
PK3083T	STYROFOAM PACKING CRADLE W/TAPE	1.000 EA

AC Induction Motor Performance Data

Record # 6588 - Typical performance - not guaranteed values

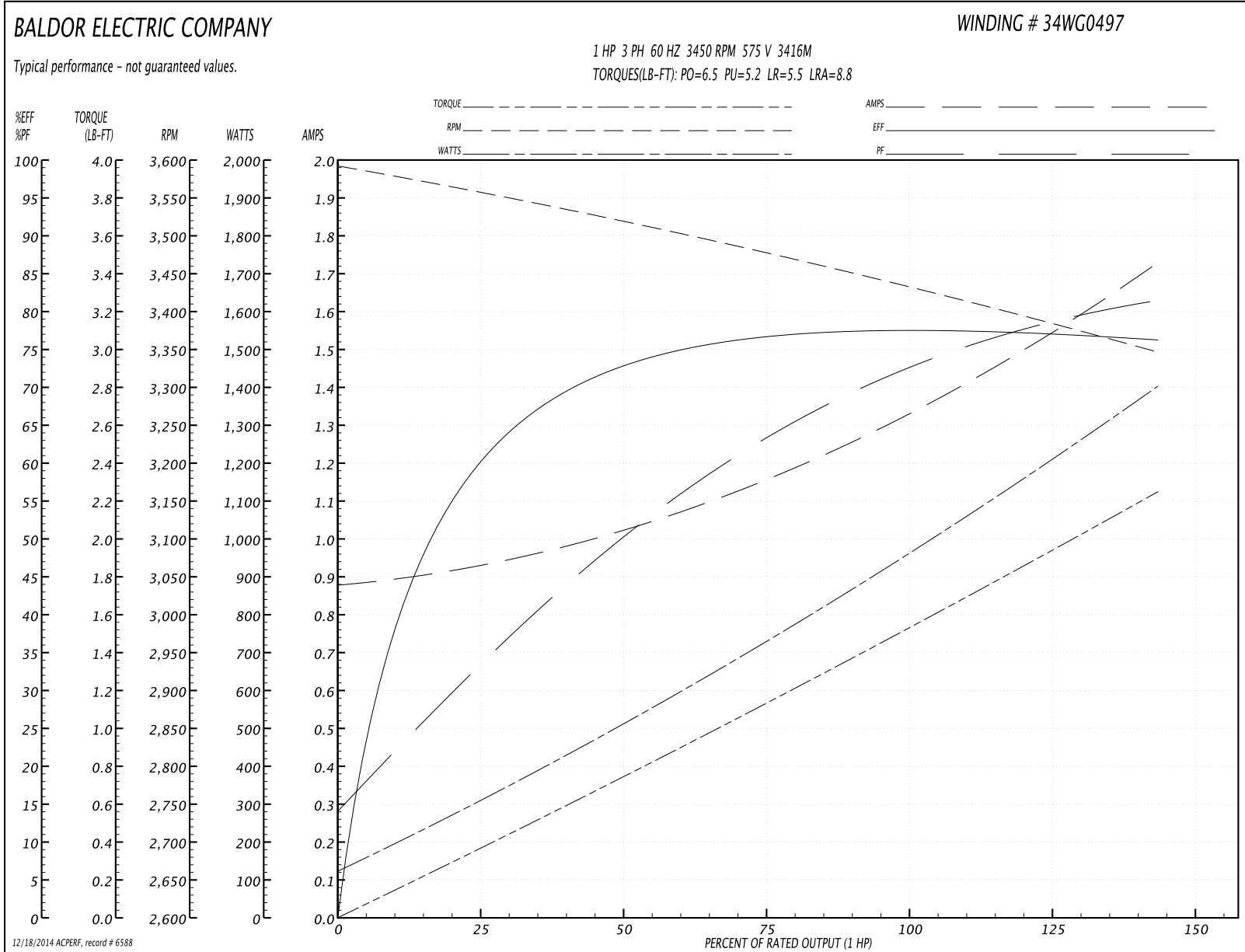
Winding: 34WG0497-R001	Type: 3416M	Enclosure: TEFC
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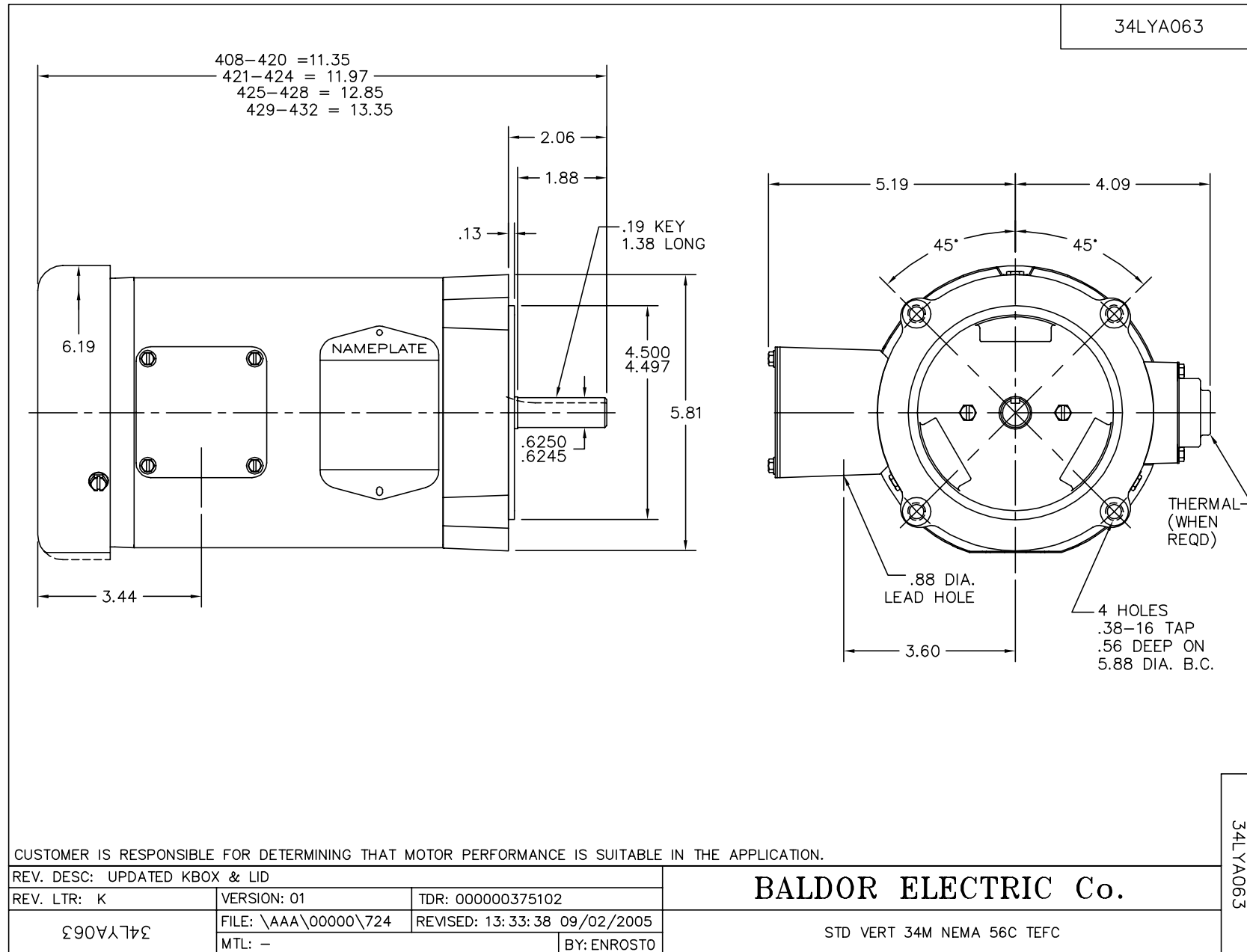
Nameplate Data				575 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	1			Full Load Torque	1.5 LB-FT
Volts	575			Start Configuration	direct on line
Full Load Amps	1.4			Breakdown Torque	6.5 LB-FT
R.P.M.	3450			Pull-up Torque	5.2 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	5.5 LB-FT
NEMA Design Code	B	KVA Code	H	Starting Current	8.8 A
Service Factor (S.F.)	1.25			No-load Current	0.88 A
NEMA Nom. Eff.	75.5	Power Factor	71	Line-line Res. @ 25°C	26.5 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	71°C
S.F. Amps	1.6			Temp. Rise @ S.F. Load	90°C
				Rotor inertia	0.0148 LF ²

Load Characteristics 575 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	37	53	68	76	77	76	77
Efficiency	61.2	72.1	76.8	77.7	77.2	76.2	77.2
Speed	3558	3524	3476	3434	3390	3349	3390
Line amperes	0.94	1	1.16	1.32	1.52	1.72	1.52

Performance Graph at 575V, 60Hz, 1.0HP Typical performance - Not guaranteed values





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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: D

BY: JLP

REVISED: 01/21/99 4:02

TDR: 0171435

9000D

FILE: AAA00005141

MDL: -

MTL: -

BALDOR ELECTRIC Co.

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

CD0006