

BALDOR® • RELIANCE

Product Information Packet

VM3554T-5

1.5HP,1755RPM,3PH,60HZ,145TC,3521M,TEFC

Part Detail							
Revision:	E	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3521M	Elec. Spec:	35WGM449	CD Diagram:	CD0006
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	35A003	Layout:	35LYA003
Frame:	145TC	Mounting:	F1	Poles:	04	Created Date:	01-30-2011
Base:	N	Rotation:	R	Insulation:	F	Eff. Date:	07-23-2014
Leads:	3#18					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1256L									
CAT.NO.	VM3554T-5								
SPEC.	35A003M449H1								
HP	1.5								
VOLTS	575								
AMP	1.9								
RPM	1755								
FRAME	145TC	HZ			60	PH		3	
SER.F.	1.15	CODE			M	DES		B	CLASS
NEMA-NOM-EFF	84	PF			70				
RATING	40C AMB-CONT								
CC	010A	USABLE AT 208V							
DE	6205	ODE			6203				
ENCL	TEFC	SN							

Parts List		
Part Number	Description	Quantity
SA216706	SA 35A003M449H1	1.000 EA
RA203888	RA 35A003M449H1	1.000 EA
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 EA
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	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
35EP3100M01	FREP TEFC 203 BRG W/GRSR (RAISED FH PADS	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A03SP	WAVY WASHER (W1543-017)	1.000 EA
35EP3300A46	SPL FACE MTD EP-ENCL-145TC-205 BRG	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
35FH4005A84SP	IEC FH W/GRSR, NO DIMPLES W/AUTOPHERETIC	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
35CB4521GX	CONDUIT BOX LID KIT	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
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A75	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY	0.017 GA

Parts List (continued)		
Part Number	Description	Quantity
HA3100A15	THRUBOLT 10-32 X 8.375	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LB1125C01	STD (STOCK) CARTON LABEL BALDOR WITH FLA	1.000 EA
LC0006	CONNECTION LABEL	1.000 EA
NP1256L	ALUM UL CSA CC	1.000 EA
35PA1066	PACKING GROUP COMBINED PRINT	1.000 EA
PK3082	STYROFOAM CRADLE	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 10/13	1.000 EA

AC Induction Motor Performance Data

Record # 33375 - Typical performance - not guaranteed values

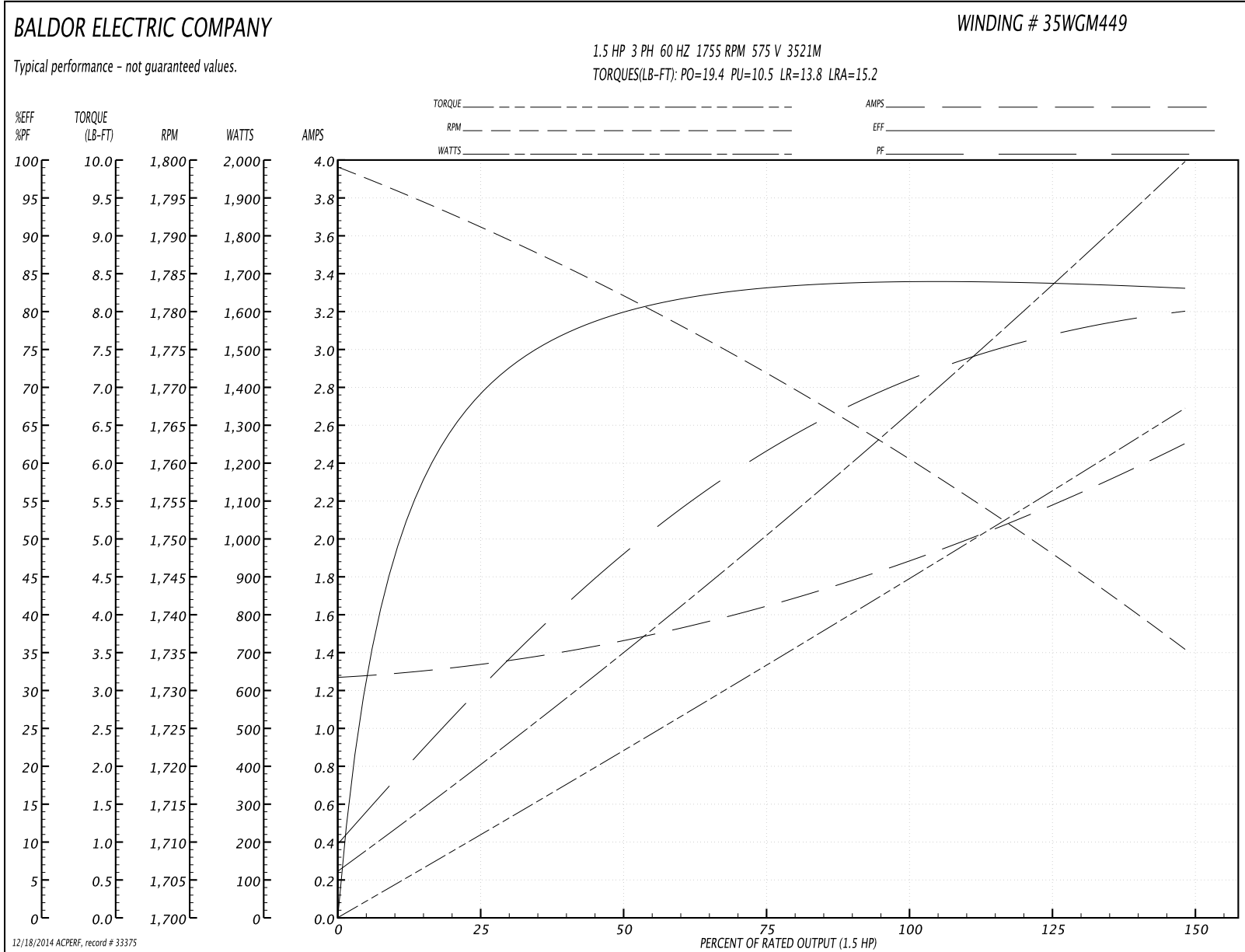
Winding: 35WGM449-R001	Type: 3521M	Enclosure: TEFC
-------------------------------	--------------------	------------------------

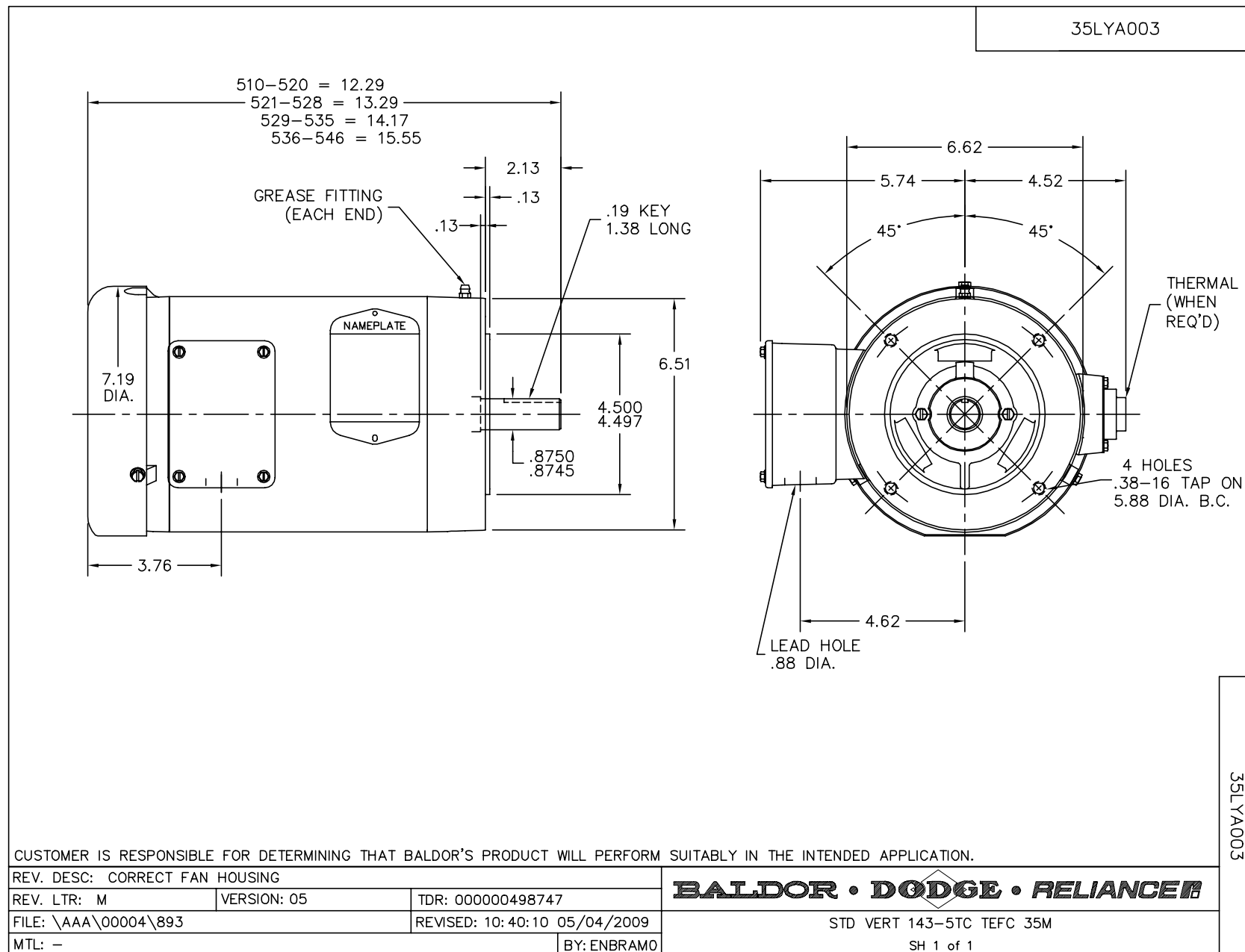
Nameplate Data				575 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	1.5			Full Load Torque	4.43 LB-FT
Volts	575			Start Configuration	direct on line
Full Load Amps	1.9			Breakdown Torque	19.4 LB-FT
R.P.M.	1755			Pull-up Torque	10.5 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	13.8 LB-FT
NEMA Design Code	B	KVA Code	M	Starting Current	15.2 A
Service Factor (S.F.)	1.15			No-load Current	1.28 A
NEMA Nom. Eff.	84	Power Factor	70	Line-line Res. @ 25°C	16.6 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	56°C
S.F. Amps				Temp. Rise @ S.F. Load	65°C
				Rotor inertia	0.124 LF ²

Load Characteristics 575 V, 60 Hz, 1.5 HP

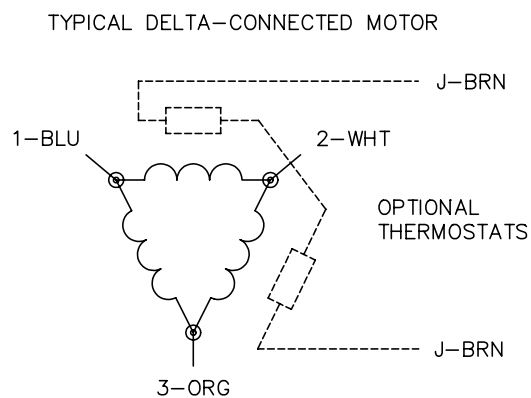
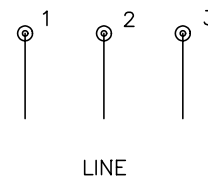
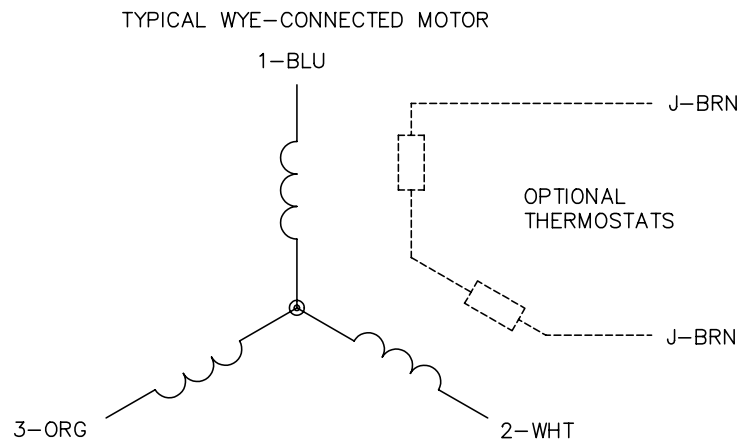
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	48	61	70	77	80	74
Efficiency	68.3	79.1	83.1	84.1	83.9	83	84
Speed	1792	1782	1772	1761	1749	1735	1754
Line amperes	1.32	1.45	1.64	1.89	2.17	2.5	2.06

Performance Graph at 575V, 60Hz, 1.5HP 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