

BALDOR® • RELIANCE

Product Information Packet

VM3545-50

1HP,2850RPM,3PH,50HZ,56C,3420M,TEFC,F1

Part Detail							
Revision:	S	Status:	INA/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3420M	Elec. Spec:	34WGW637	CD Diagram:	CD0044
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:	03-29-2012
Leads:	12#18					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1372L									
CAT.NO.									
SPEC.	34A63W637								
HP	1								
VOLTS	220/380/440								
AMP	3.4/2/1.7								
RPM	2850 IP44								
FRAME	56C	HZ			50	PH		3	
SER.F.	1.25	CODE			L	DES		B	CL
NEMA-NOM-EFF	80	PF			74				
RATING	40C AMB-CONT								
CC		USABLE AT 208V							
DE	6203	ODE			6203				
ENCL	TEFC	SN							
	SFA 3.8/2.2/1.9								

Parts List		
Part Number	Description	Quantity
SA009910	SA 34A63W637	1.000 EA
RA006355	RA 34A63W637	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
LB1119N	WARNING LABEL	1.000 EA
LB1125C01	STD (STOCK) CARTON LABEL BALDOR WITH FLA	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 10/13	1.000 EA
LC0044	CONNECTION DIAGRAM	1.000 EA
NP1372L	ALUM UL CSA CE CC	1.000 EA
PK3083T	STYROFOAM PACKING CRADLE W/TAPE	1.000 EA
34PA1002	PACKING GROUP, BALDOR	1.000 EA

AC Induction Motor Performance Data

Record # 7041 - Typical performance - not guaranteed values

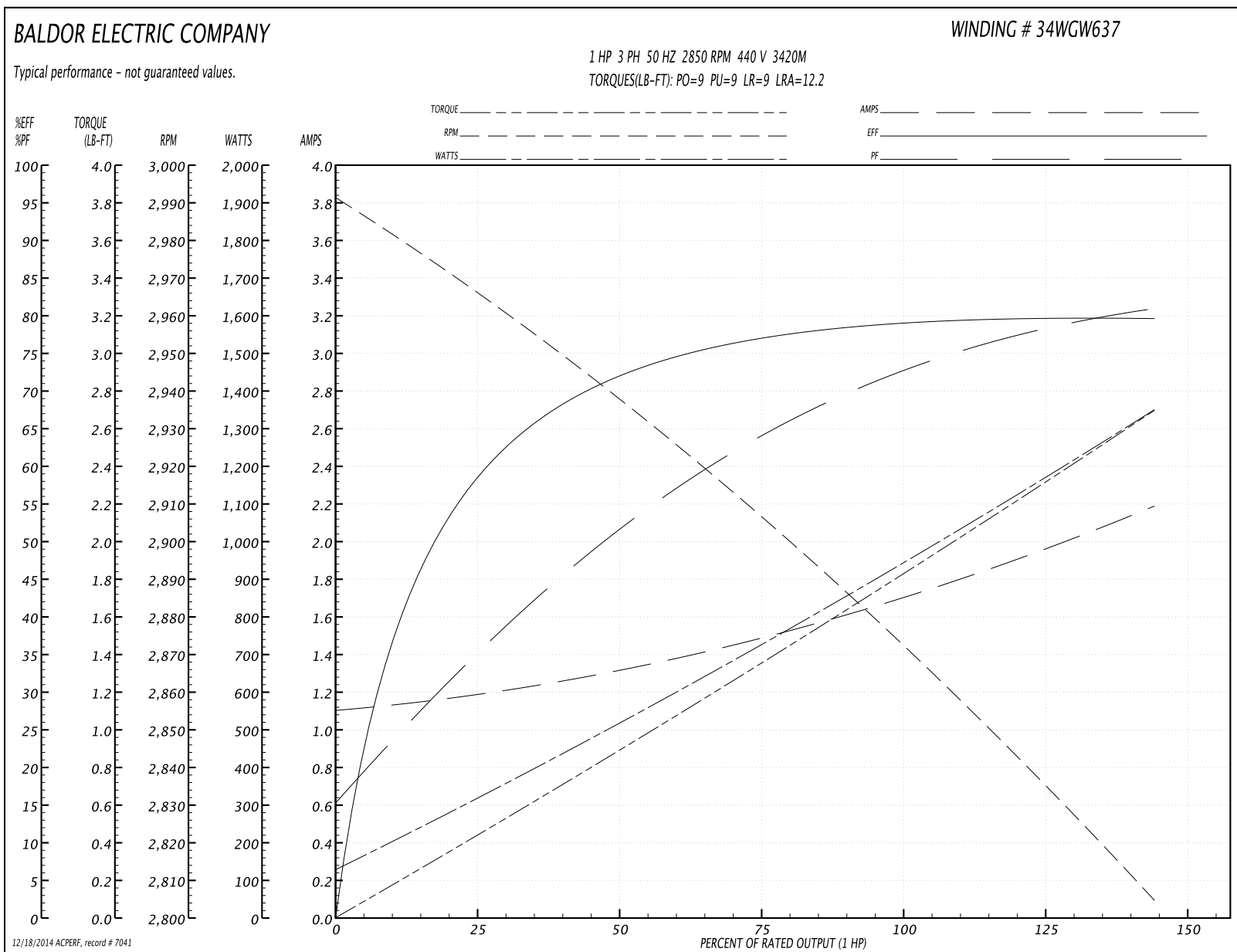
Winding: 34WGW637-R001	Type: 3420M	Enclosure: TEFC
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Nameplate Data				440 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	1			Full Load Torque	1.8 LB-FT
Volts	220/380/440			Start Configuration	direct on line
Full Load Amps	3.4/2/1.7			Breakdown Torque	9 LB-FT
R.P.M.	2850			Pull-up Torque	9 LB-FT
Hz	50	Phase	3	Locked-rotor Torque	9 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	12.2 A
Service Factor (S.F.)	1.25			No-load Current	1.1 A
NEMA Nom. Eff.	80	Power Factor	74	Line-line Res. @ 25°C	12.1 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	51°C
S.F. Amps	3.8/2.2/1.9			Temp. Rise @ S.F. Load	73°C
				Rotor inertia	0.0186 LF ²

Load Characteristics 440 V, 50 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	36	53	65	74	80	84	0
Efficiency	58.4	71.9	77	79.1	79.8	79.5	0
Speed	2965	2937	2907	2875	2841	2804	0
Line amperes	1.2	1.3	1.5	1.7	1.9	2.2	1.9

Performance Graph at 440V, 50Hz, 1.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 27358 - Typical performance - not guaranteed values

Winding: 34WGW637-R001	Type: 3420M	Enclosure: TEFC
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Nameplate Data				440 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	1			Full Load Torque	1.9 LB-FT
Volts	220/380/440			Start Configuration	direct on line
Full Load Amps	3.4/2/1.7			Breakdown Torque	9.6 LB-FT
R.P.M.	2850			Pull-up Torque	8.31 LB-FT
Hz	50	Phase	3	Locked-rotor Torque	10 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	13.5 A
Service Factor (S.F.)	1.25			No-load Current	1.19 A
NEMA Nom. Eff.	80	Power Factor	74	Line-line Res. @ 25°C	12 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	70°C
S.F. Amps	3.8/2.2/1.9			Temp. Rise @ S.F. Load	88°C
				Rotor inertia	0.0186 LF ²

Load Characteristics 440 V, 50 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	36	54	68	77	84	87	84
Efficiency	62.7	73.7	78.1	79.2	79.1	78	79.1
Speed	2959	2925	2886	2850	2806	2761	2806
Line amperes	1.21	1.3	1.46	1.66	1.91	2.21	1.91

Performance Graph at 440V, 50Hz, 1.0HP Typical performance - Not guaranteed values

