

BALDOR® • **RELIANCE**

Product Information Packet

EL3503

.5HP,3450RPM,1PH,60HZ,56,3413LC,TEFC,F1

Part Detail							
Revision:	D	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3413LC	Elec. Spec:	34WGS431	CD Diagram:	CD0055
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	34L277	Layout:	34LYL277
Frame:	56	Mounting:	F1	Poles:	02	Created Date:	11-10-2008
Base:	RG	Rotation:	R	Insulation:	B	Eff. Date:	03-20-2012
Leads:	6#18					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP2116L	
CAT.NO.	EL3503
SPEC.	34L277S431G1
HP	.5
VOLTS	115/230
AMP	4.9/2.5
RPM	3450
FRAME	56
HZ	60
PH	1
SER.F.	1.25
CODE	L
DES	N
CL	B
NEMA-NOM-EFF	68
PF	84
RATING	40C AMB-CONT
CC	USABLE AT 208V
DE	6203
ODE	6203
ENCL	TEFC
SN	
	SFA 5.8/2.9

Parts List		
Part Number	Description	Quantity
SA177298	SA 34L277S431G1	1.000 EA
RA165340	RA 34L277S431G1	1.000 EA
OC3025F11	CYL OIL CAP 25MFD/370V	1.000 EA
EC1400A03SP	ELEC CAP, 400-480 MFD, 125V, 1.81D X 3.	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
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	3.000 EA
34EP3102A01SP	FR ENDPLATE, MACH	1.000 EA
34CB3801	CAPACITOR BOX, DIE CAST	1.000 EA
34GS3002	GASKET, CAPACITOR BOX	1.000 EA
51XB1214A08	12-14 X 1/2HX WS SL SR TYBX	2.000 EA
HW5100A03SP	WAVY WASHER (W1543-017)	1.000 EA
34EP3102A02SP	FR/PU ENDPLATE, MACH	1.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 EA
34FN3002A01SP	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 EA
34FH4002A01SP	IEC FH NO GREASER PRIMED	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

Parts List (continued)		
Part Number	Description	Quantity
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 EA
34GS5003A01	FOAM SLEEVE, ID = 2 1/16" X 4 3/8"	1.000 EA
10XF0440S02	04-40 X 1/8 TYPE F HEX HD STAINLESS STIC	2.000 EA
SP5056A18	MODEL 34 TYPE LC STATIONARY SWITCH WITH	1.000 EA
HA3100A44	THRUBOLT 10-32 X 8.000	4.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.014 GA
MN416A01	TAG-INSTAL-MAINT no wire (1000/bx) 11/14	1.000 EA
LC0001A01	CONN LABEL / WARNING LABEL (LC0001 / LB1	1.000 EA
NP2116L	ALUM SUPER-E UL CSA CC	1.000 EA
35PA1000	PKG GRP, PRINT PK1008A06	1.000 EA

AC Induction Motor Performance Data
Record # 27898 - Preliminary Data Sheet

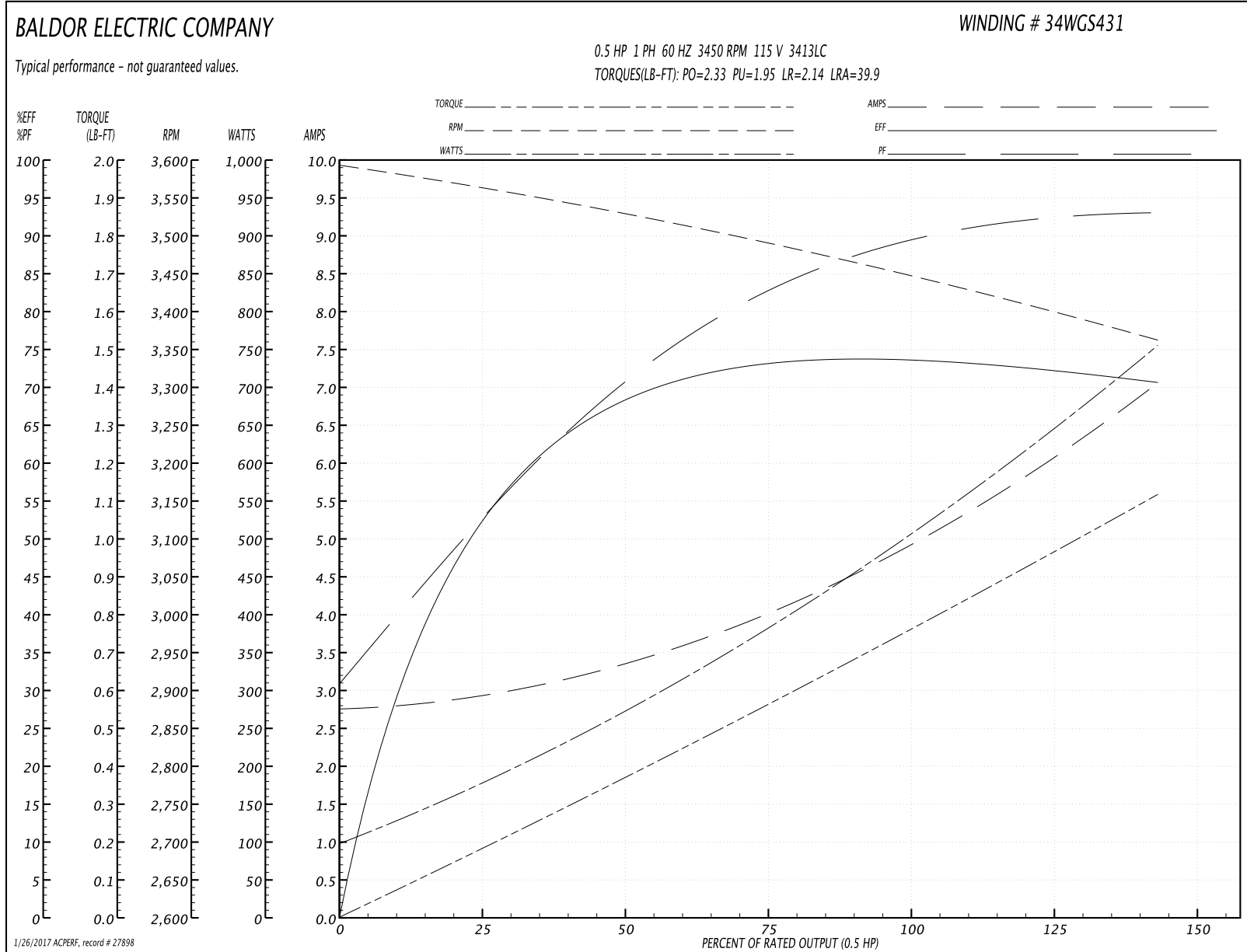
Winding: 34WGS431-R001	Type: 3413LC	Enclosure: TEFC
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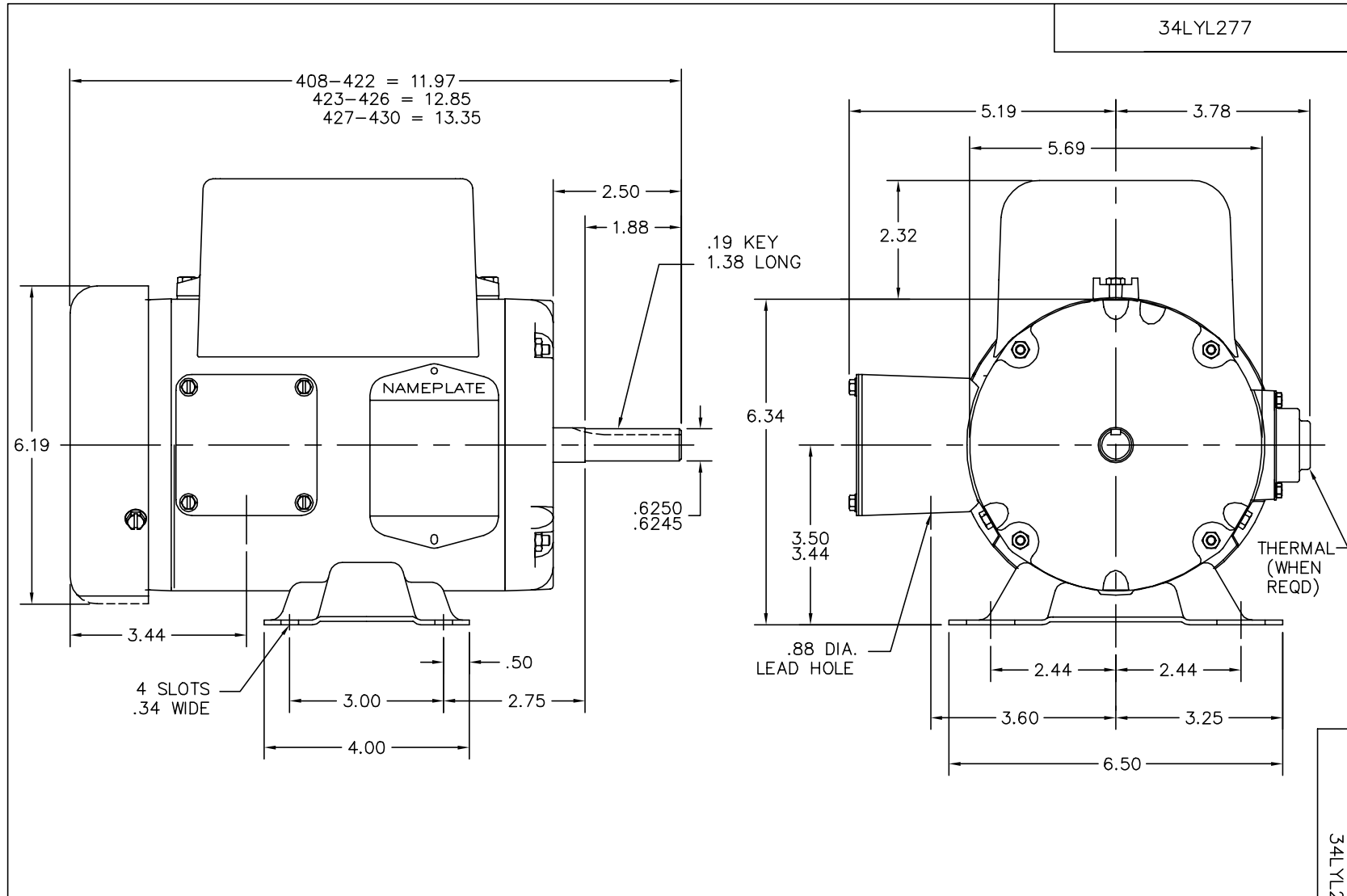
Nameplate Data				115 V, 60 Hz: Low Voltage Connection	
Rated Output (HP)	.5			Full Load Torque	0.748 LB-FT
Volts	115/230			Start Configuration	direct on line
Full Load Amps	4.9/2.5			Breakdown Torque	2.33 LB-FT
R.P.M.	3450			Pull-up Torque	1.95 LB-FT
Hz	60	Phase	1	Locked-rotor Torque	2.14 LB-FT
NEMA Design Code	N	KVA Code	K	Starting Current	39.9 A
Service Factor (S.F.)	1.25			No-load Current	2.72 A
NEMA Nom. Eff.	68	Power Factor	84	Line-line Res. @ 25°C	1.06 Ω A Ph 4.65 Ω B Ph
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	46°C
S.F. Amps	5.8/2.9			Temp. Rise @ S.F. Load	53°C

Load Characteristics 115 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	47	72	83	90	94	92	94
Efficiency	59	66.6	72.5	73.4	72.5	70.8	72.5
Speed	3551	3524	3494	3456	3413	3355	3413
Line amperes	2.97	3.39	4.02	4.85	5.8	7.13	5.8

Performance Graph at 115V, 60Hz, 0.5HP Typical performance - Not guaranteed values





34YL277

34YL277

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: UPDATE DESCRIPTION		
REV. LTR: A	VERSION: 01	TDR: 000000725714
FILE: \AAA\00160\129		REVISED: 02: 45: 28 12/15/2011
MTL: -		BY: ENVINWO

BALDOR

HOR 34LC NEMA 56 TEFC FOR 3 PH ER

SH 1 of 1

CD0055



REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:17	TDR: 0178636
990000		FILE: AAA00007414	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

TYPE LC, DV, REV, 6 LEADS

CD0055