



Product Information Packet

CL5009A

1HP,3450RPM,1PH,60HZ,56C,X3524L,XPFC,F1

Part Detail							
Revision:	BC	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WG0498	CD Diagram:	CD0008	Mfg Plant:	
Mech. Spec:	35E365	Layout:	35LYE365	Poles:	02	Created Date:	06-27-2007
Base:	RG	Eff. Date:	05-30-2018	Leads:	4#16 A&J,2#18 B PH,1#14 #4TH		

Specs			
Catalog Number:	CL5009A	Inverter Code:	Not Inverter
Enclosure:	XPFC	KVA Code:	K
Frame:	56C	Lifting Lugs:	No Lifting Lugs
Frame Material:	Steel	Locked Bearing Indicator:	Locked Bearing
Output @ Frequency:	1.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	4 @ 16 AWG, A&J
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	115.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
	230.0 V @ 60 HZ	Motor Type:	3524L
XP Class and Group:	CLI GP D; CLII GP F,G	Mounting Arrangement:	F1
XP Division:	Division I	Power Factor:	81
Agency Approvals:	UR	Product Family:	Hazardous Location Motor
	UL	Pulley End Bearing Type:	Ball
	CSA	Pulley Face Code:	C-Face
Auxillary Box:	No Auxillary Box	Pulley Shaft Indicator:	Standard
Auxillary Box Lead Termination:	None	Rodent Screen:	None
Base Indicator:	Rigid	RoHS Status:	ROHS COMPLIANT
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Extension Location:	Pulley End
Blower:	None	Shaft Ground Indicator:	No Shaft Grounding

Current @ Voltage:	12.000 A @ 115.0 V	Shaft Rotation:	Reversible
	6.000 A @ 230.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	N	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	None
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	Do Not Use Eve-Not Valid
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	Automatic Thermal Overload
Heater Indicator:	No Heater	Winding Thermal 1 Location:	SB
Insulation Class:	B	Winding Thermal 2:	None
		XP Temp Code:	T4

Nameplate NP0016XPSL

NO.		CC	
SER.			
SPEC.	35E365-498		
CAT.NO.	CL5009A		
HP	1	T. CODE	T4
VOLTS	115/230		
AMPS	12/6		
RPM	3450		
HZ	60	PH	1
SER.F.	1.00	DES	N
RATING	40C AMB-CONT		
FRAME	56C	CL	B
USABLE AT 208V		CODE	K
BLANK		PF	81
		NEMA-NOM-EFF	66

Parts List		
Part Number	Description	Quantity
SA024014	SA 35E365-498	1.000 EA
RA020064	RA 35E365-498	1.000 EA
TPMRJ28AX	THERMAL 1PH 0.75 AUT 120C	1.000 EA
EC1324A02	ELEC CAP, 324-389 MFD, 125V, 1.48D X 3.	2.000 EA
35CB3001A01SP	EXPL CONDUIT BOX, MACH, 1/2" PIPE TAP LE	1.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 EA
35EP3700A01SP	FR ENDPLATE, XPFC	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3702A01SP	PU EP-205 BRG-35X-56C-143-5TC	1.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
HA3013A01	1/2-20X5/8 SPL.HX BOLT	2.000 EA
HW3021C06	3/32 DI X .625 PIN (F/S)	2.000 EA
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
35CB3500A01SP	CONDUIT BOX LID, MACH	1.000 EA
51XN2520A16	SCREW, HEX WS SLT, ZN, 1/4-20 X 1.00	4.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	6.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB

Parts List (continued)		
Part Number	Description	Quantity
34FN3002A01SP	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 EA
MG1025G29	WILKOFAS, 789.229, DARK CHARCOAL GRAY	0.014 GA
HA3104A08	THRUBOLT-5/16-18X9.375 X X	4.000 EA
35FH4005A01SP	IEC FH NO GREASER W/PRIMED	1.000 EA
NP0018F	ALUM UL XP CONDUIT BOX NAMEPLATE	1.000 EA
WD1000A03	41531 AMP FLG.TERM,4M/REEL(2.5MIL)	8.000 EA
WD1000A04	1-480307-1AMP REC(200/PKG)ACC#081693-10-	8.000 EA
HA6003A52	CLAMP, CAPACITOR, WHITE ZINC PLATED	2.000 EA
NS2500A06	INSULATOR,AUTO THER PROT,W/PSA ON 1 SIDE	1.000 EA
HA6001A01	THERMAL RETAINER (PLATED)	1.000 EA
12XF0632A06	6-32X3/8 TY F HEX HD SLT	2.000 EA
SP5051A64	MODEL 35 TORQ STATIONARY SWITCH FOR XP	1.000 EA
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 EA
LC0008	CONNECTION LABEL	1.000 EA
NP0016XPSL	SS XP UL CSA CC CL-I GP-D CL-II GP-F&G	1.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA

AC Induction Motor Performance Data

Record # 30814 - Typical performance - not guaranteed values

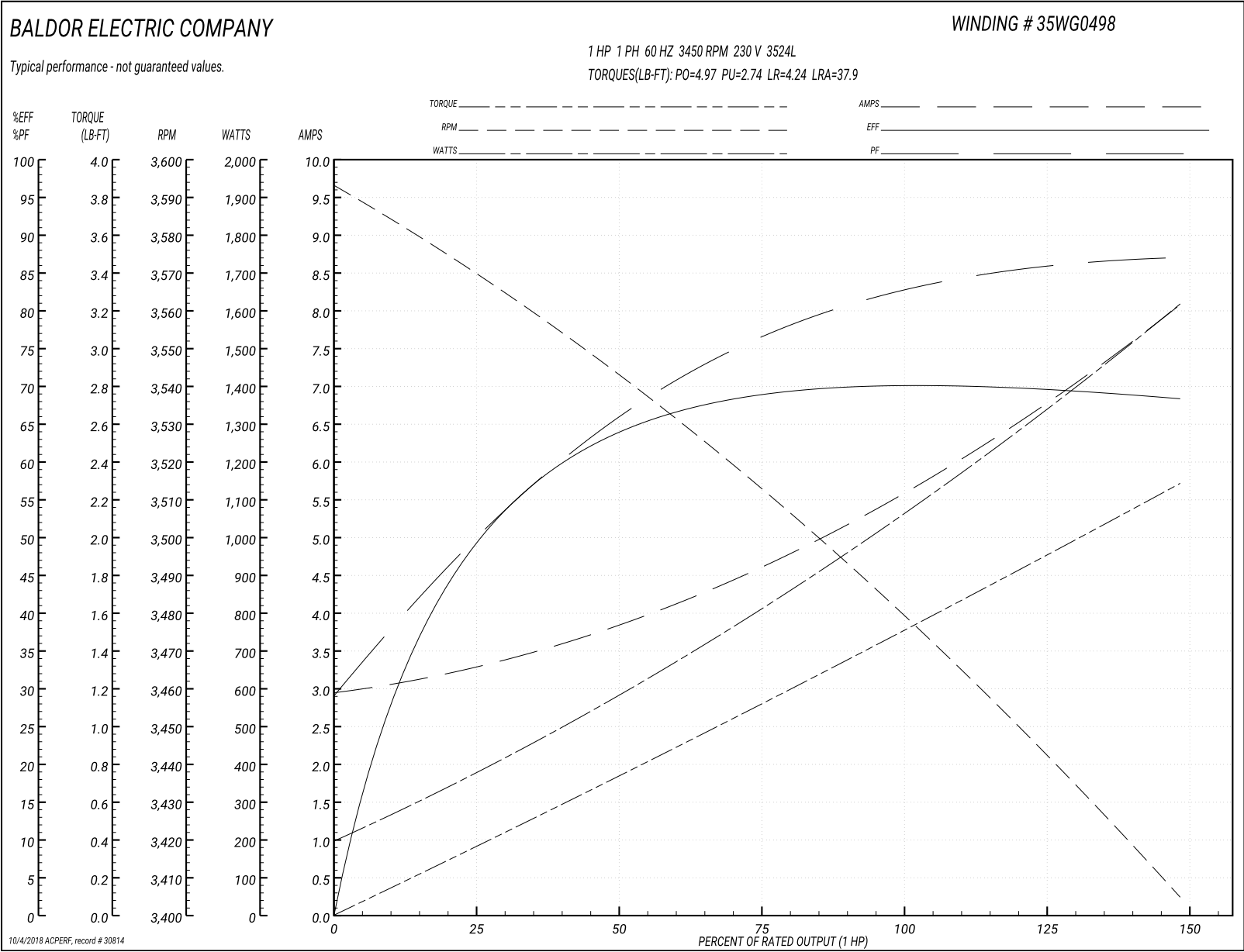
Winding: 35WG0498-R002	Type: 3524L	Enclosure: XPFC
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Nameplate Data				230 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1			Full Load Torque	1.51 LB-FT
Volts	115/230			Start Configuration	direct on line
Full Load Amps	12/6			Breakdown Torque	4.97 LB-FT
R.P.M.	3450			Pull-up Torque	2.74 LB-FT
Hz	60	Phase	1	Locked-rotor Torque	4.24 LB-FT
NEMA Design Code	N	KVA Code	K	Starting Current	37.9 A
Service Factor (S.F.)	1			No-load Current	2.95 A
NEMA Nom. Eff.	66	Power Factor	81	Line-line Res. @ 25°C	2.572 Ω A Ph 1.8019 Ω B Ph
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	49°C

Load Characteristics 230 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	51	66	76	82	85	88
Efficiency	48.2	63.2	68.3	70.6	70.1	68
Speed	3563.8	3541.1	3515.3	3483.1	3445.7	3401.4
Line amperes	3.28	3.83	4.58	5.59	6.75	8.09

Performance Graph at 230V, 60Hz, 1.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 59849 - Typical performance - not guaranteed values

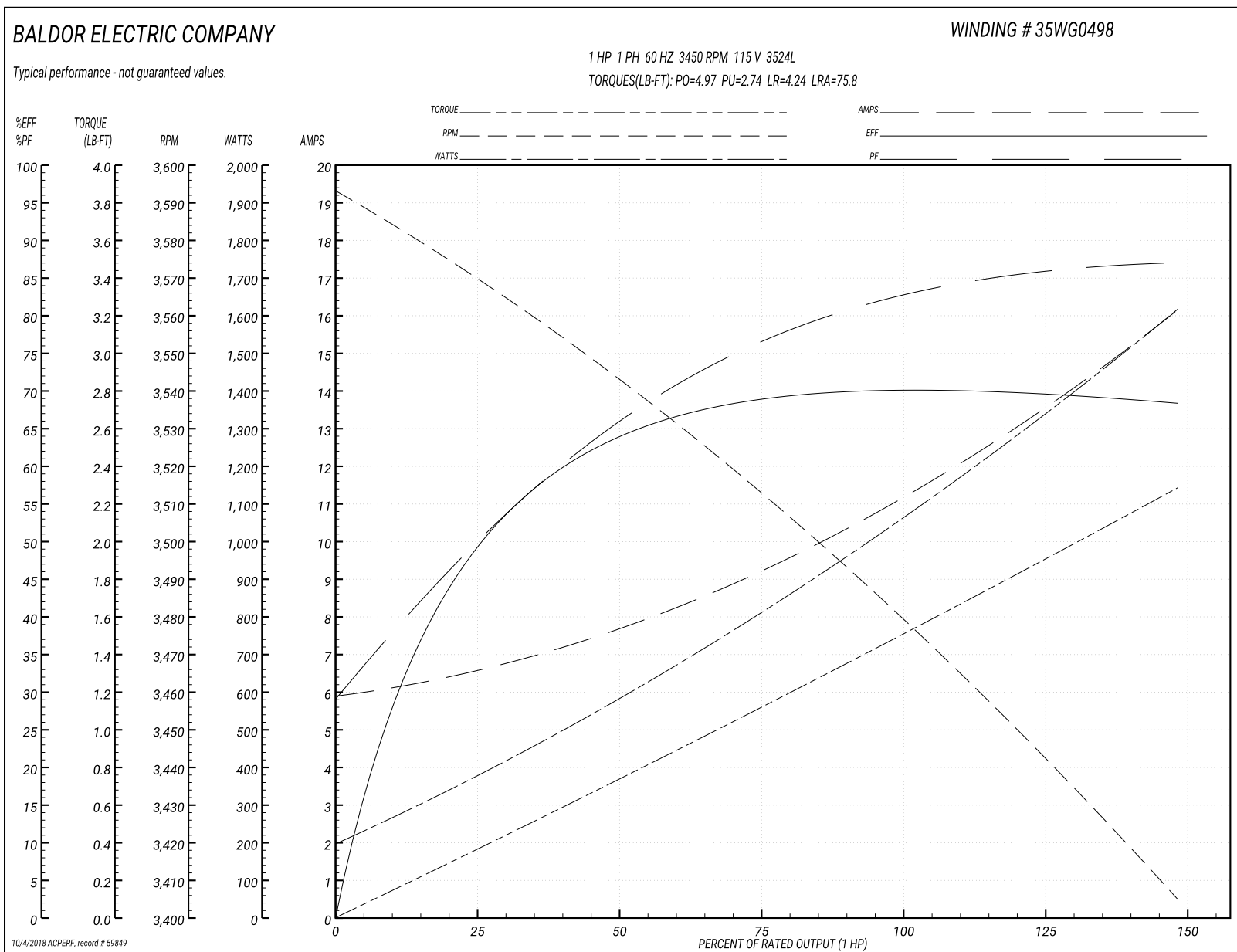
Winding: 35WG0498-R002	Type: 3524L	Enclosure: XPFC
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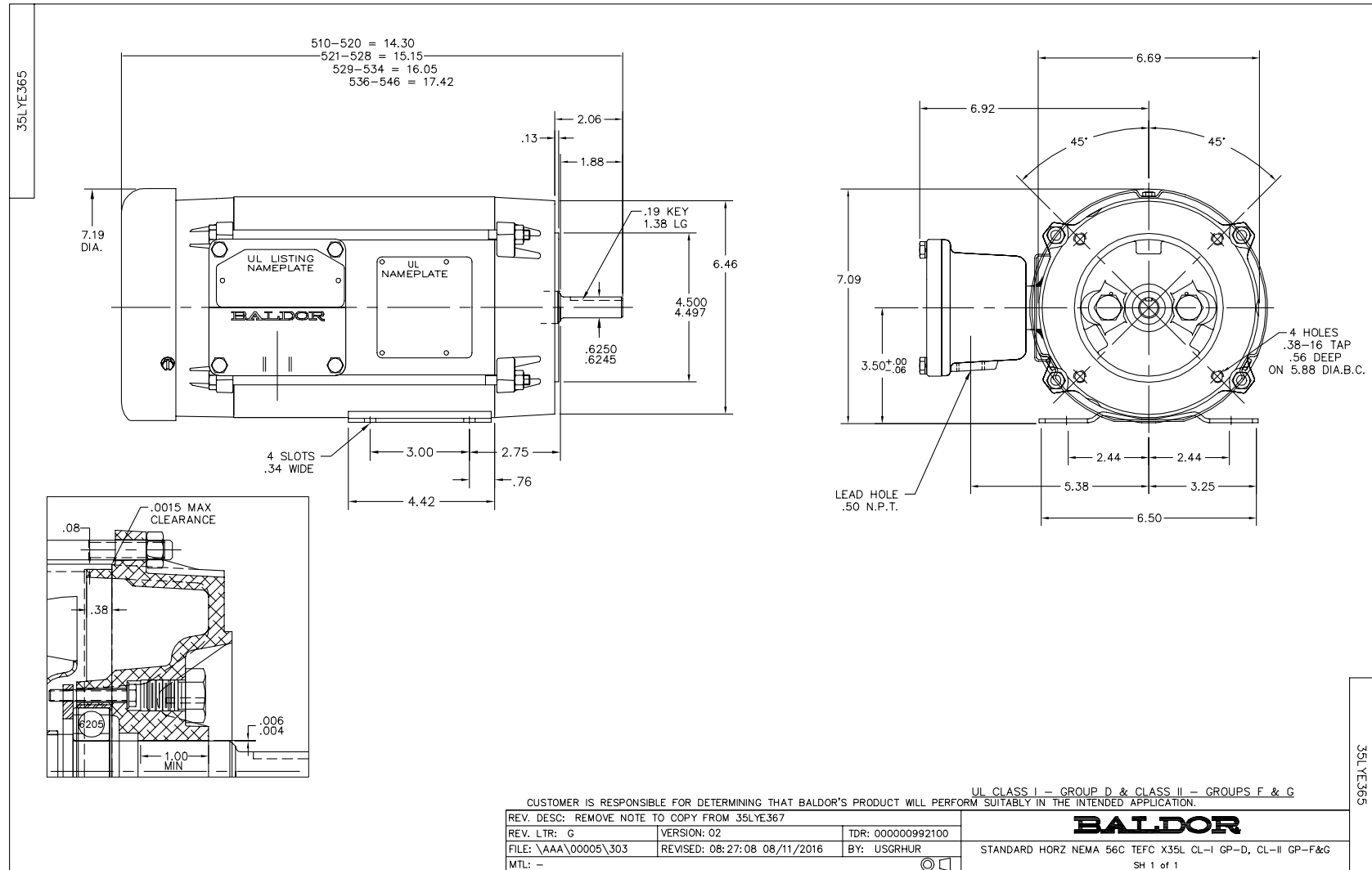
Nameplate Data				115 V, 60 Hz: Low Voltage Connection	
Rated Output (HP)	1			Full Load Torque	1.51 LB-FT
Volts	115/230			Start Configuration	direct on line
Full Load Amps	12/6			Breakdown Torque	4.97 LB-FT
R.P.M.	3450			Pull-up Torque	2.74 LB-FT
Hz	60	Phase	1	Locked-rotor Torque	4.24 LB-FT
NEMA Design Code	N	KVA Code	K	Starting Current	75.8 A
Service Factor (S.F.)	1			No-load Current	5.9 A
NEMA Nom. Eff.	66	Power Factor	81	Line-line Res. @ 25°C	0.643 Ω A Ph 1.8019 Ω B Ph
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	49°C

Load Characteristics 115 V, 60 Hz, 1 HP

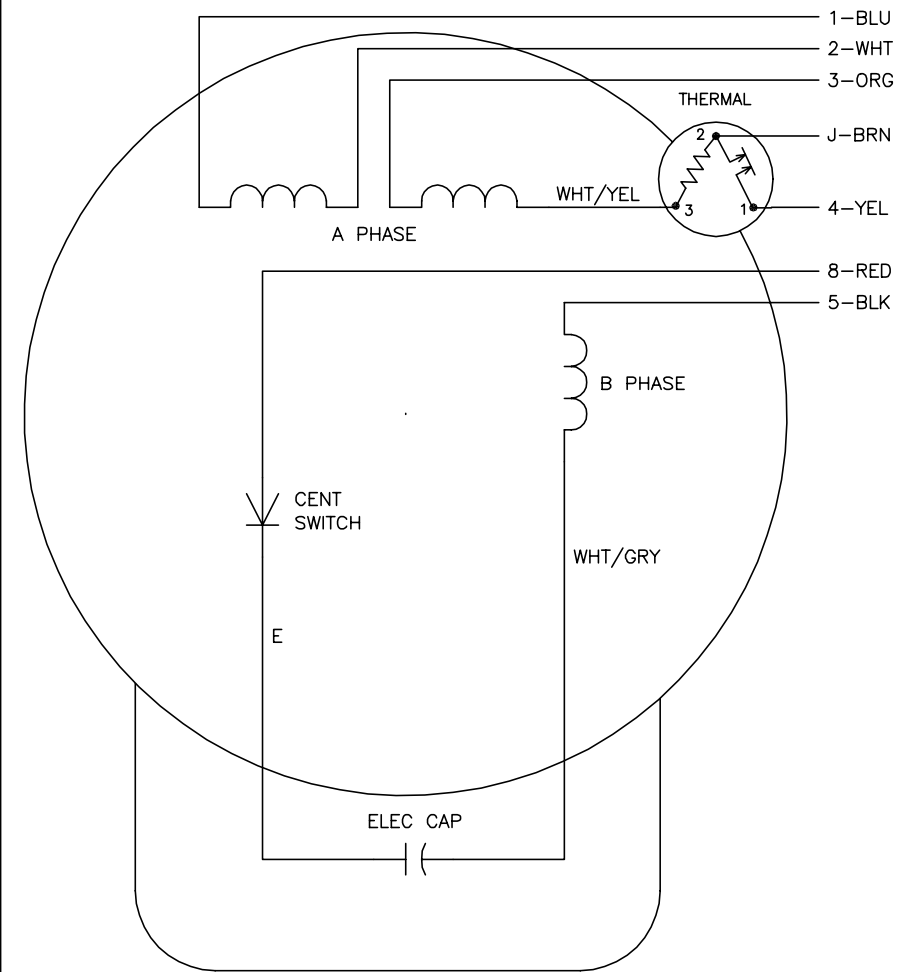
% of Rated Load	25	50	75	100	125	150
Power Factor	51	66	76	82	85	88
Efficiency	48.2	63.2	68.3	70.6	70.1	68
Speed	3563.8	3541.1	3515.3	3483.1	3445.7	3401.4
Line amperes	6.56	7.66	9.16	11.18	13.5	16.18

Performance Graph at 115V, 60Hz, 1.0HP Typical performance - Not guaranteed values





CD0008



	LINE A	LINE B	JOIN	JOIN
HIGH STD	1	4	2,3,8	J,5
HIGH OPP	1	4	2,3,5	J,8
LOW STD	1,3,8	4	—	2,J,5
LOW OPP	1,3,5	4	—	2,J,8

- NOTES:
1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
 2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
 3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REMOVE 2-TERMINAL THERMAL DETAIL, SEE CD0008A02		
REV. LTR: F	VERSION: 01	TDR: 000000360649
800000	FILE: \AAA\00007\408	REVISED: 10:56:54 04/18/2005
	MTL: —	BY: ENJOEPO

BALDOR ELECTRIC Co.

TYPE L, DV, REV, THERMAL, 7 LEADS

CD0008