



Product Information Packet

VL5024A

1.5HP,1725RPM,1PH,60HZ,56C,X3546L,XPFC

Part Detail							
Revision:	AV	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGX140	CD Diagram:	CD0008	Mfg Plant:	
Mech. Spec:	35G198	Layout:	35LYG198	Poles:	04	Created Date:	
Base:	N	Eff. Date:	07-22-2015	Leads:	3#16,3#18 B&J,1#14 #4TH		

Specs			
Catalog Number:	VL5024A	Inverter Code:	Not Inverter
Enclosure:	XPFC	KVA Code:	J
Frame:	56C	Lifting Lugs:	No Lifting Lugs
Frame Material:	Steel	Locked Bearing Indicator:	Locked Bearing
Output @ Frequency:	1.500 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	3 @ 16 AWG
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
	115.0 V @ 60 HZ	Motor Type:	3546L
XP Class and Group:	CLI GP D	Mounting Arrangement:	F1
XP Division:	Division I	Power Factor:	78
Agency Approvals:	CSA	Product Family:	General Purpose
	UL	Pulley End Bearing Type:	Ball
	UR	Pulley Face Code:	C-Face
Auxillary Box:	No Auxillary Box	Pulley Shaft Indicator:	Standard
Auxillary Box Lead Termination:	None	Rodent Screen:	None
Base Indicator:	No Mounting	Shaft Extension Location:	Pulley End
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Ground Indicator:	No Shaft Grounding
Blower:	None	Shaft Rotation:	Reversible

Current @ Voltage:	16.000 A @ 115.0 V	Shaft Slinger Indicator:	No Slinger
	8.000 A @ 230.0 V	Speed Code:	Single Speed
Design Code:	L	Motor Standards:	NEMA
Drip Cover:	No Drip Cover	Starting Method:	Direct on line
Duty Rating:	CONT	Thermal Device - Bearing:	NONE (OLD)
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Winding:	Do Not Use Eve-Not Valid
Feedback Device:	NO FEEDBACK	Vibration Sensor Indicator:	No Vibration Sensor
Front Face Code:	Standard	Winding Thermal 1:	Automatic Thermal Overload
Front Shaft Indicator:	None	Winding Thermal 1 Location:	EP
Heater Indicator:	No Heater	Winding Thermal 2:	None
Insulation Class:	B	XP Temp Code:	T2C

Nameplate NP2204XPSL

NO.		CC	
SER.			
SPEC.	35G198X140		
CAT.NO.	VL5024A		
HP	1.5	T. CODE	T2C
VOLTS	115/230		
AMPS	16/8		
RPM	1725		
HZ	60	PH	1
SER.F.	1.00	DES	L
RATING	40C AMB-CONT		
FRAME	56C	CL	B
USABLE AT 208V		CODE	J
BLANK		PF	78
		NEMA-NOM-EFF	75

Parts List		
Part Number	Description	Quantity
SA025002	SA 35G198X140	1.000 EA
RA021052	RA 35G198X140	1.000 EA
TPBRJ44KX	THERMAL 1PH 1.25 AUT 120C	1.000 EA
EC1270A02SP	ELEC CAP, 270-324 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
35EP1710A01	FR ENDPLATE, MACH	1.000 EA
51XT0832A08	8-32 X 1/2 TY23 HXWS SLDSR	2.000 EA
51XT0832A08	8-32 X 1/2 TY23 HXWS SLDSR	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 EA
SP5051A64	MODEL 35 TORQ STATIONARY SWITCH FOR XP	1.000 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
HA3104A23	THRUBOLT- 5/16-18 X11.625OHIO ROD	4.000 EA
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 EA
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 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

Parts List (continued)		
Part Number	Description	Quantity
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
LB1011	LABEL XPROOF MTR W/ATO	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
35FH4005A01SP	IEC FH NO GREASER W/PRIMED	1.000 EA
MG1025G29	WILKOFASST, 789.229, DARK CHARCOAL GRAY	0.017 GA
NP0018F	ALUM UL XP CONDUIT BOX NAMEPLATE	1.000 EA
HA6003A52	CLAMP, CAPACITOR, WHITE ZINC PLATED	2.000 EA
HA6121A01	CLAMP, THERMAL XPROOF MTR (PLATED)	1.000 EA
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 EA
LC0008	CONNECTION LABEL	1.000 EA
NP2204XPSL	SS XP UL CSA CC CL-I GP-D THERMAL	1.000 EA
36PA1001	PKG GRP, PRINT PK1017A06	1.000 EA
PK3082	STYROFOAM CRADLE	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 5/18	1.000 EA

AC Induction Motor Performance Data

Record # 9948 - Typical performance - not guaranteed values

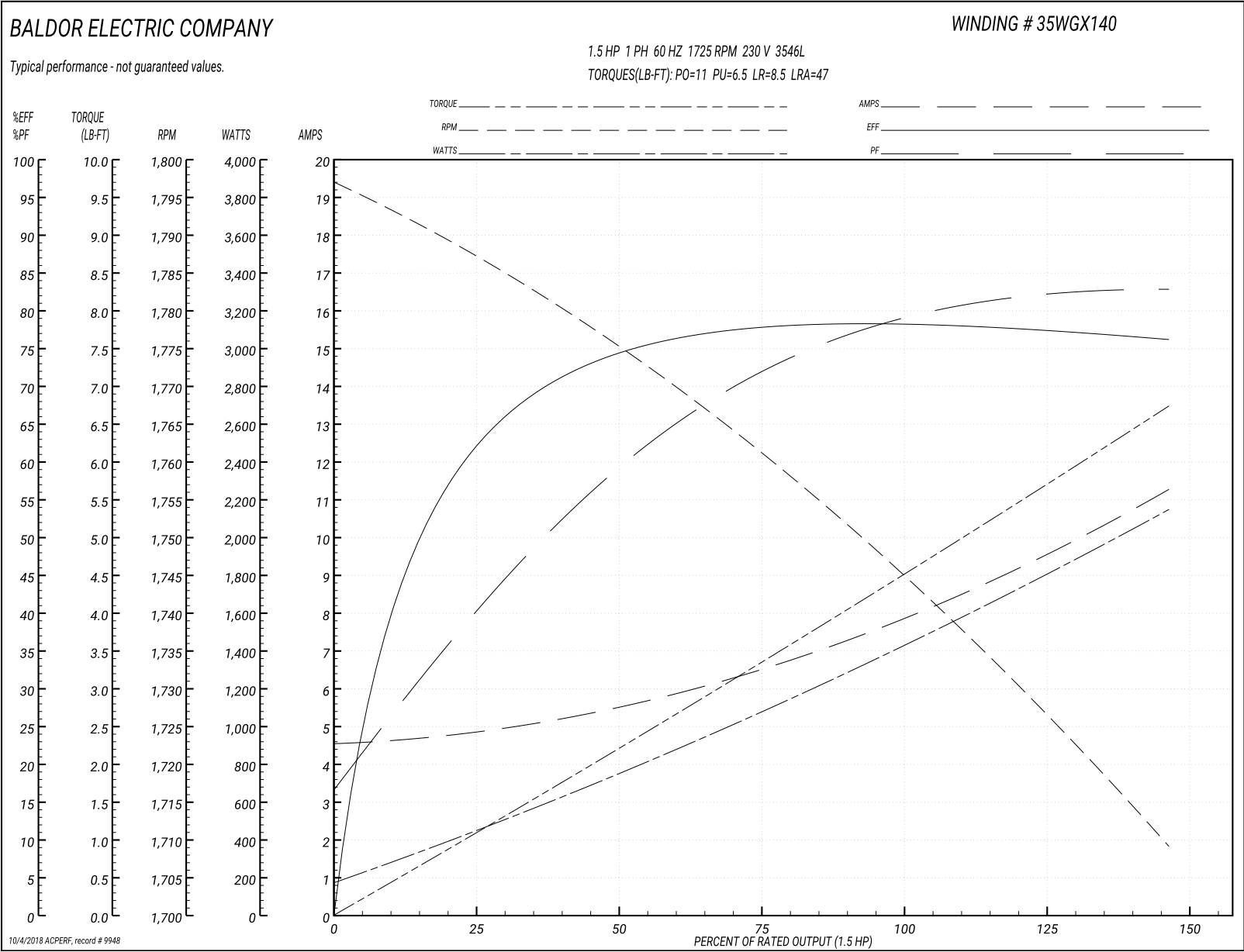
Winding: 35WGX140-R001	Type: 3546L	Enclosure: XPFC
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Nameplate Data				230 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1.5			Full Load Torque	4.5 LB-FT
Volts	115/230			Start Configuration	direct on line
Full Load Amps	16/8			Breakdown Torque	11 LB-FT
R.P.M.	1725			Pull-up Torque	6.5 LB-FT
Hz	60	Phase	1	Locked-rotor Torque	8.5 LB-FT
NEMA Design Code	L	KVA Code	J	Starting Current	47 A
Service Factor (S.F.)	1			No-load Current	4.55 A
NEMA Nom. Eff.	75	Power Factor	78	Line-line Res. @ 25°C	1.42 Ω A Ph 1.4 Ω B Ph
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	77°C

Load Characteristics 230 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	41	59	72	79	83	86
Efficiency	61.7	73.9	77.8	78.6	77.9	75.9
Speed	1786	1774	1761	1746	1729	1708
Line amperes	4.85	5.55	6.55	7.85	9.4	11.3

Performance Graph at 230V, 60Hz, 1.5HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 34831 - Typical performance - not guaranteed values

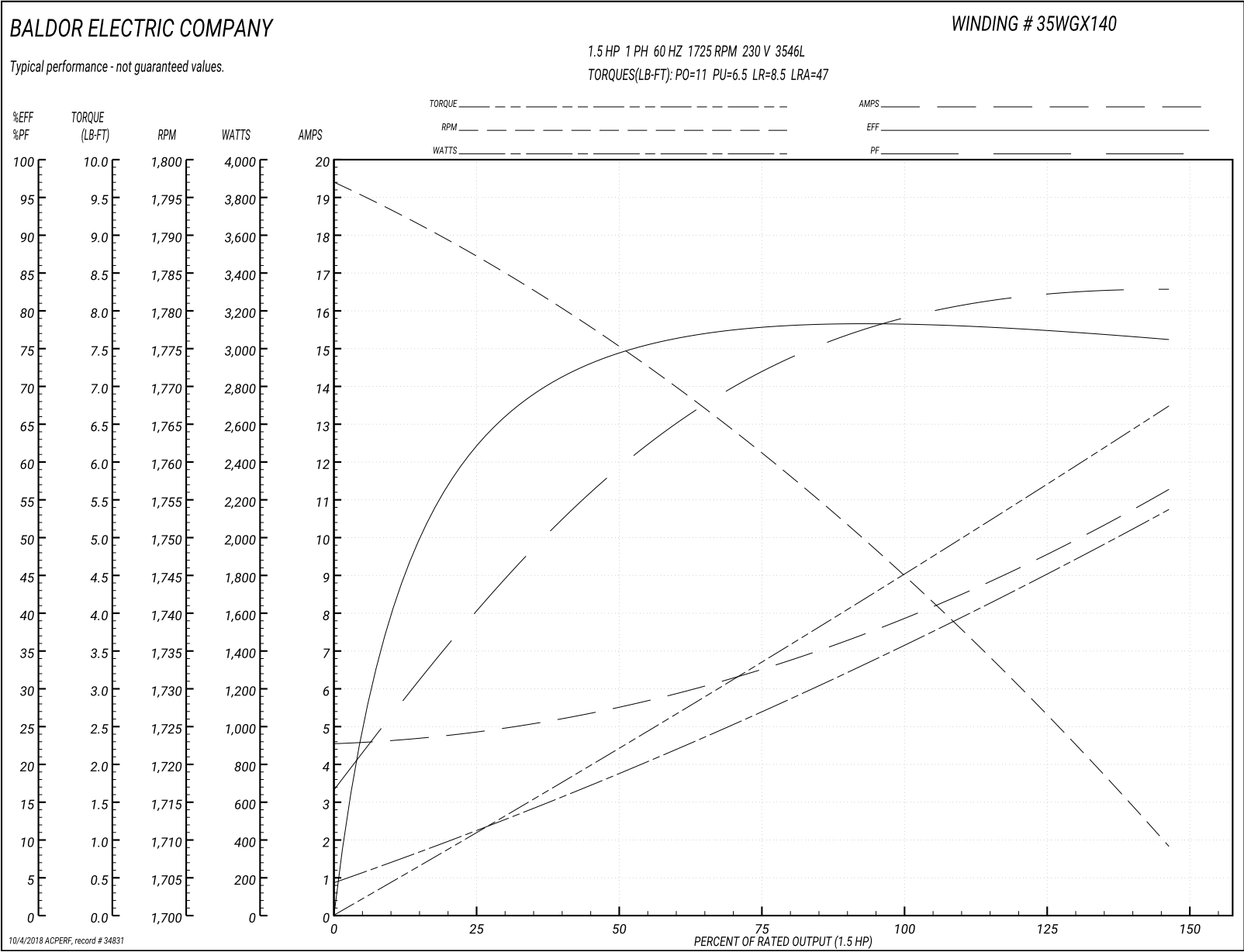
Winding: 35WGX140-R002	Type: 3546L	Enclosure: XPFC
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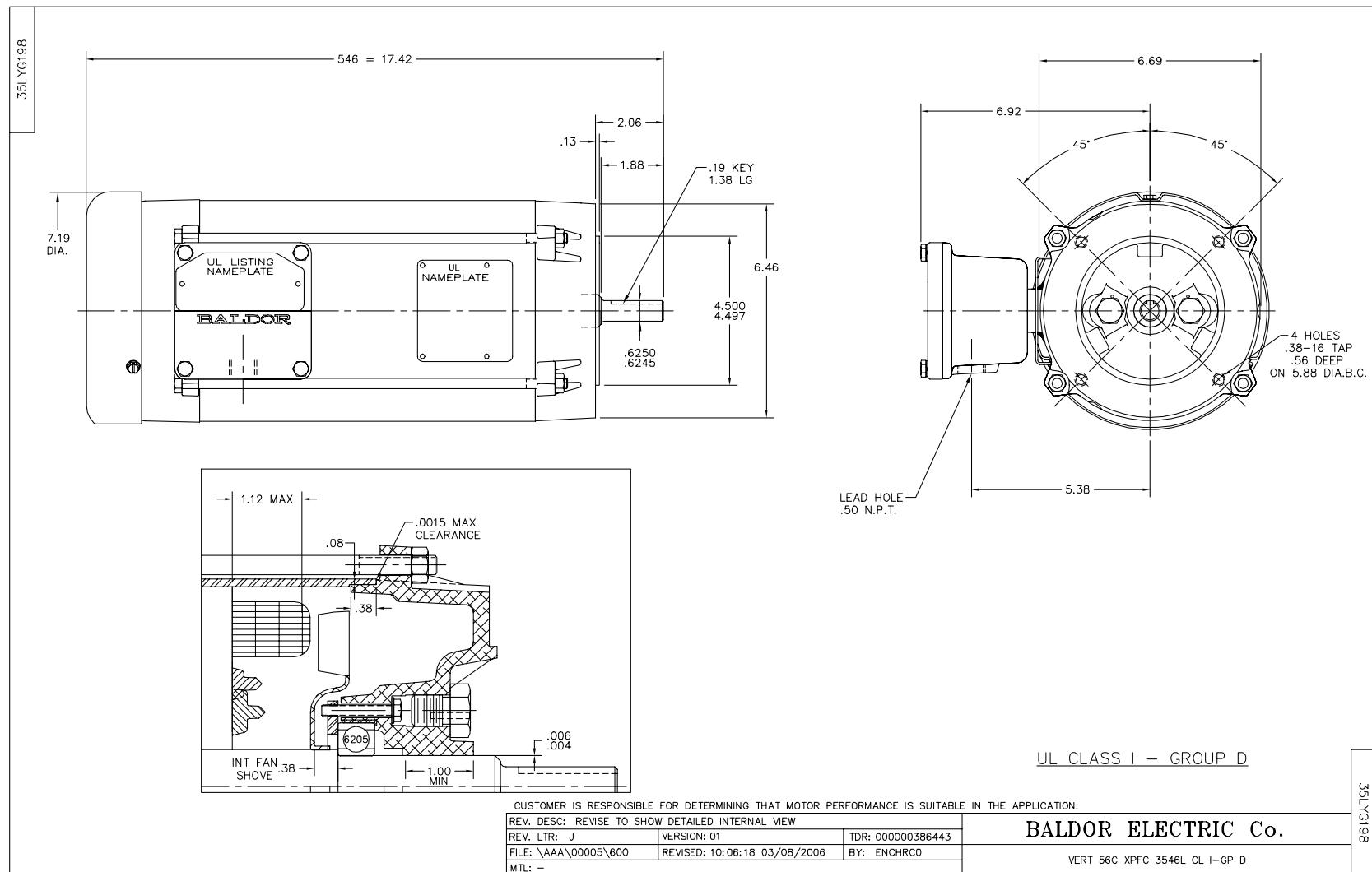
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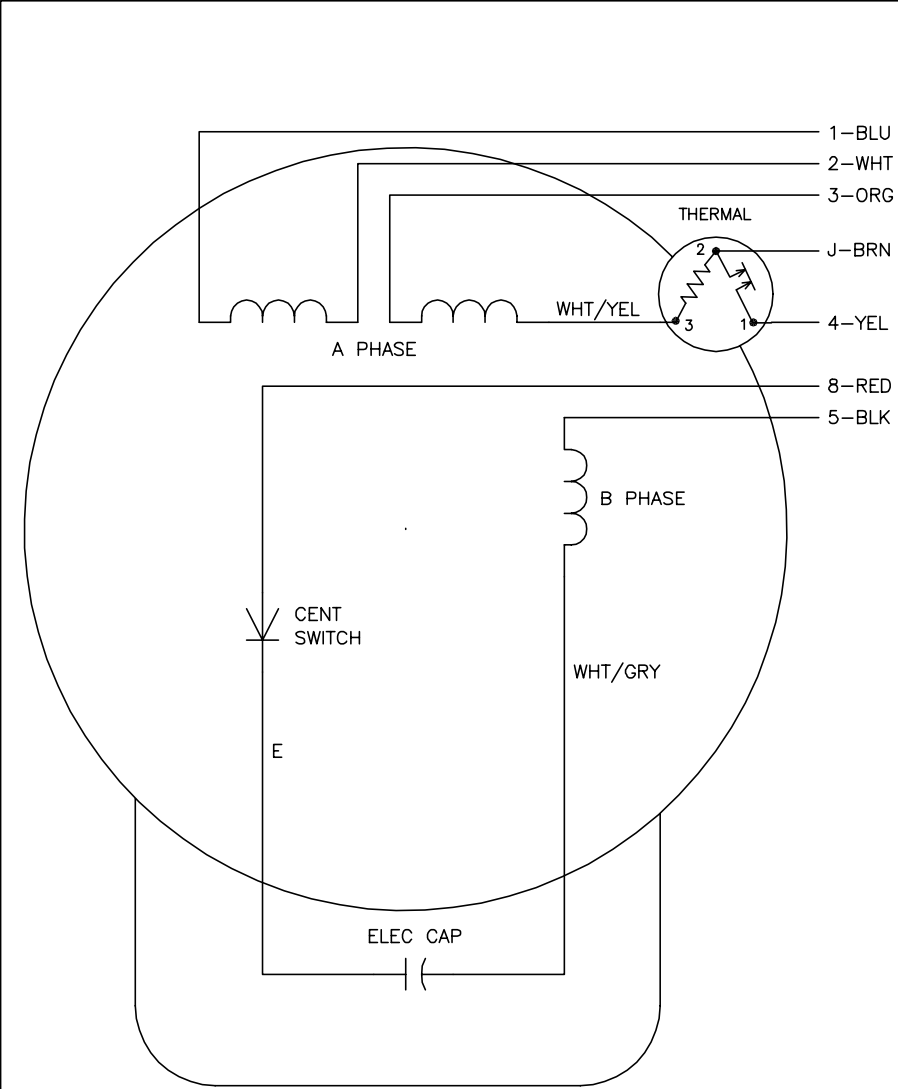
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CD0008



	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