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BALDOR • RELIANCE

Product Information Packet

VL3509A

1HP,3450RPM,1PH,60HZ,56C,3524L,TEFC,F1

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Part Detail

Revision:	BL	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Elec. Spec:**	35WG0498	**CD Diagram:**	CD0008	**Mfg Plant:**	
Mech. Spec:	35C013	**Layout:**	35LYC013	**Poles:**	02	**Created Date:**	06-21-2007
Base:	N	**Eff. Date:**	05-30-2018	**Leads:**	4#16 A&J,2#18 B PH,1#14 #4TH		

Specs

Catalog Number:	VL3509A	**Inverter Code:**	Not Inverter
Enclosure:	TEFC	**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:	None	**Mounting Arrangement:**	F1
XP Division:	Not Applicable	**Power Factor:**	81
Agency Approvals:	UR	**Product Family:**	General Purpose
	CSA	**Pulley End Bearing Type:**	Ball
Auxillary Box:	No Auxillary Box	**Pulley Face Code:**	C-Face
Auxillary Box Lead Termination:	None	**Pulley Shaft Indicator:**	Standard
Base Indicator:	No Mounting	**Rodent Screen:**	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	**RoHS Status:**	ROHS COMPLIANT
Blower:	None	**Shaft Extension Location:**	Pulley End
Current @ Voltage:	12.000 A @ 115.0 V	**Shaft Ground Indicator:**	No Shaft Grounding

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	6.000 A @ 230.0 V
Design Code:	N
Drip Cover:	No Drip Cover
Duty Rating:	CONT
Electrically Isolated Bearing:	Not Electrically Isolated
Feedback Device:	NO FEEDBACK
Front Face Code:	Standard
Front Shaft Indicator:	None
Heater Indicator:	No Heater
Insulation Class:	B

Shaft Rotation:	Reversible
Shaft Slinger Indicator:	No Slinger
Speed Code:	Single Speed
Motor Standards:	NEMA
Starting Method:	Direct on line
Thermal Device - Bearing:	None
Thermal Device - Winding:	None
Vibration Sensor Indicator:	No Vibration Sensor
Winding Thermal 1:	Automatic Thermal Overload
Winding Thermal 1 Location:	SB
Winding Thermal 2:	None

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Nameplate NP1257L

CAT.NO.	VL3509A								
SPEC.	35C13-498								
HP	1								
VOLTS	115/230								
AMP	12/6								
RPM	3450								
FRAME	56C			**HZ**	60			**PH**	1
SER.F.	1.25		**CODE**	K		**DES**	N	**CL**	B
NEMA-NOM-EFF	66		**PF**	81					
RATING	40C AMB-CONT								
CC							**USABLE AT 208V**		
DE	6205			**ODE**	6203				
ENCL	TEFC		**SN**						
	SFA 14.4/7.2								

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Parts List

Part Number	Description	Quantity
SA022568	SA 35C13-498	1.000 EA
RA018618	RA 35C13-498	1.000 EA
EC1645A06SP	ELEC CAP, 645-774 MFD, 125V, 2.06D X 4.	1.000 EA
TP5059	GENERIC THERMAL KIT	1.000 EA
WD1000A16	2-520128-2 AMP FLAG TERMINAL(4M/RL)	2.000 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
35EP3122K00	MASTER ODE,203 BRG,.683SH,#26 DRN,FH MTG	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 EA
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3307F00	MASTER DE,205 BRG,.998SH,#26 DRN	1.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
35FH4005A32SP	IEC FH NO GRSR W/3 HOLES - PRIMED	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
35CB4521GX	CONDUIT BOX LID KIT **ORDER INDIV PARTS	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
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA

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Parts List (continued)

Part Number	Description	Quantity
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
34FN3002A01SP	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.017 GA
SP5051A24	MODEL 35 TORQ STATIONARY SWITCH FOR "L"	1.000 EA
HA3100A15	THRUBOLT 10-32 X 8.375	4.000 EA
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 EA
35CB4802A02SP	CAPACITOR COVER, STAMPED X	1.000 EA
35GS3001A02	GASKET, CA.COVER, 5.38 LONG .06 CS301	1.000 EA
LC0008	CONNECTION LABEL	1.000 EA
NP1257L	ALUM UL CSA CC THERMAL REV MTG	1.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA
PK3083T	STYROFOAM PACKING CRADLE	1.000 EA
PK3088	MICROFOAM, 8"X"8 PERF. SHEETS 5,400/RL	1.000 EA
FE-0000001	ZRTG FE ASSEMBLY	1.000 EA
PE-0000001	ZRTG PE ASSEMBLY	1.000 EA

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AC Induction Motor Performance Data

Record # 8070 - Typical performance - not guaranteed values

Winding: 35WG0498-R001	**Type:** 3524L	**Enclosure:** TEFC

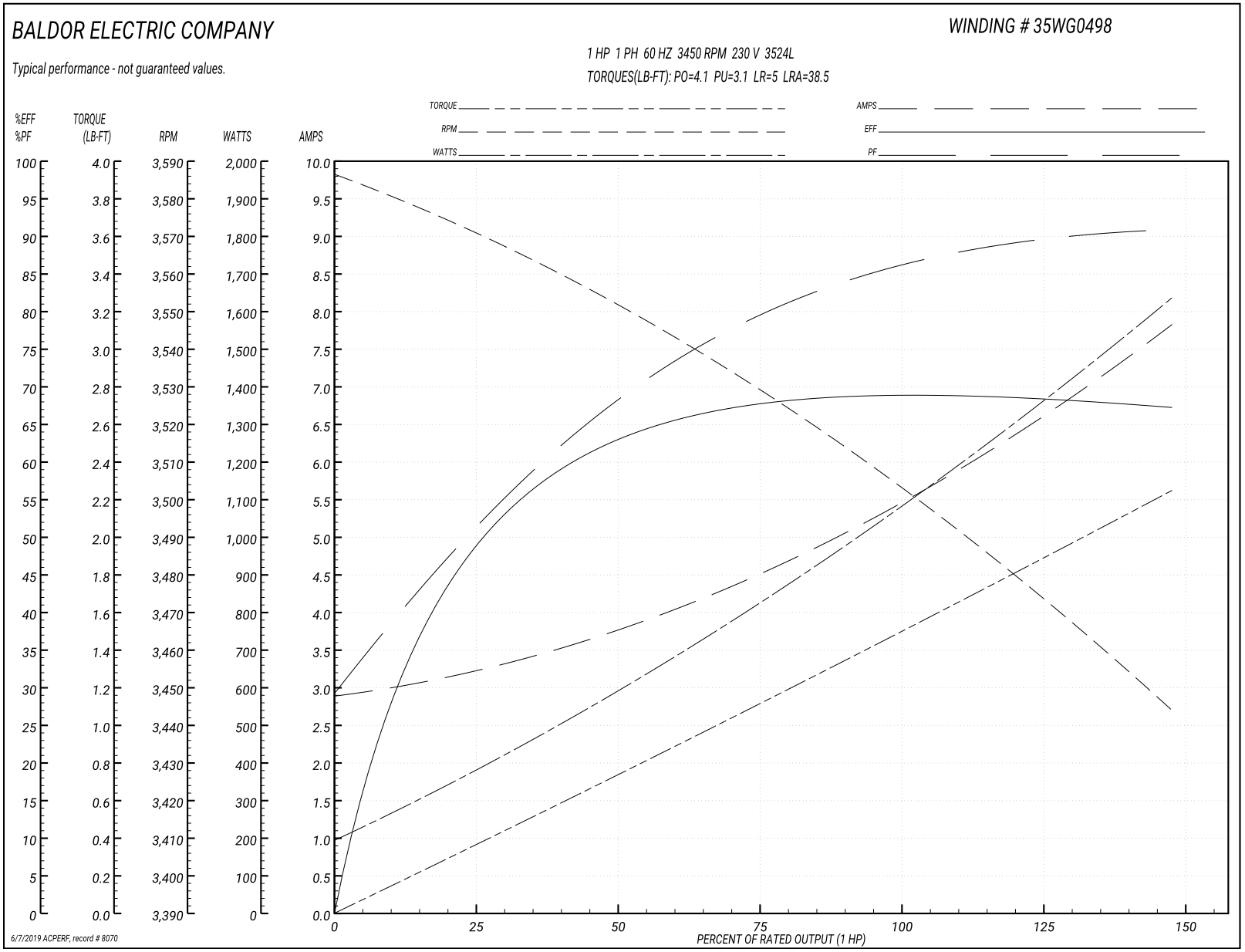
Nameplate Data				230 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1			Full Load Torque	1.5 LB-FT
Volts	115/230			Start Configuration	direct on line
Full Load Amps	12/6			Breakdown Torque	4.1 LB-FT
R.P.M.	3450			Pull-up Torque	3.1 LB-FT
Hz	60	Phase	1	Locked-rotor Torque	5 LB-FT
NEMA Design Code	N	KVA Code	K	Starting Current	38.5 A
Service Factor (S.F.)	1.25			No-load Current	2.95 A
NEMA Nom. Eff.	66	Power Factor	81	Line-line Res. @ 25ºC	2.46 Ω A Ph 1.75 Ω B Ph
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	
S.F. Amps	14.4/7.2			Temp. Rise @ S.F. Load	

Load Characteristics 230 V, 60 Hz, 1 HP

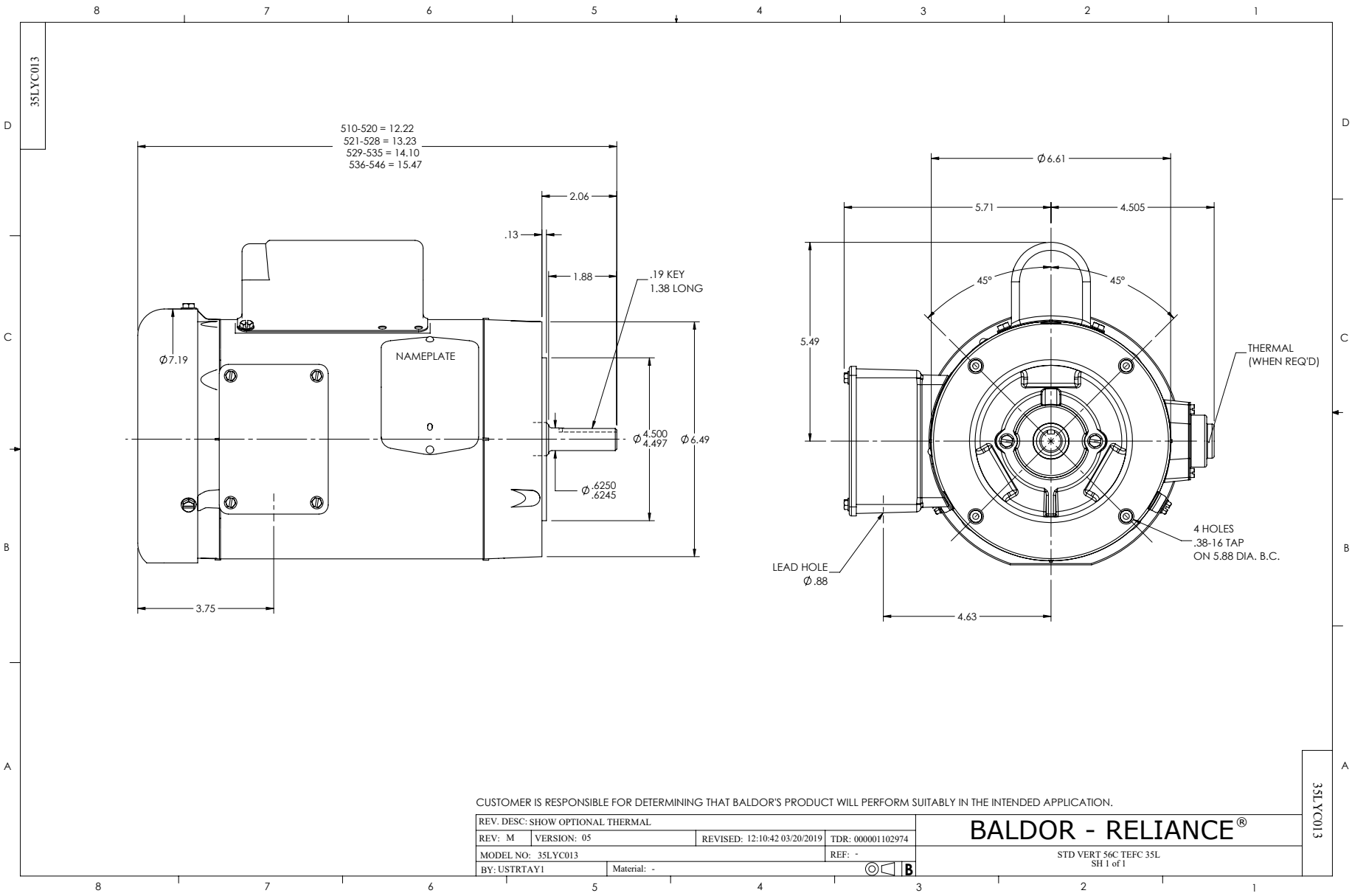
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	64	75	81	84	86	84
Efficiency	49	65	67	69	68	67.5	68
Speed	3570	3550	3530	3505	3472	3445	3472
Line amperes	3.2	3.7	4.5	5.5	6.75	7.7	6.75

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

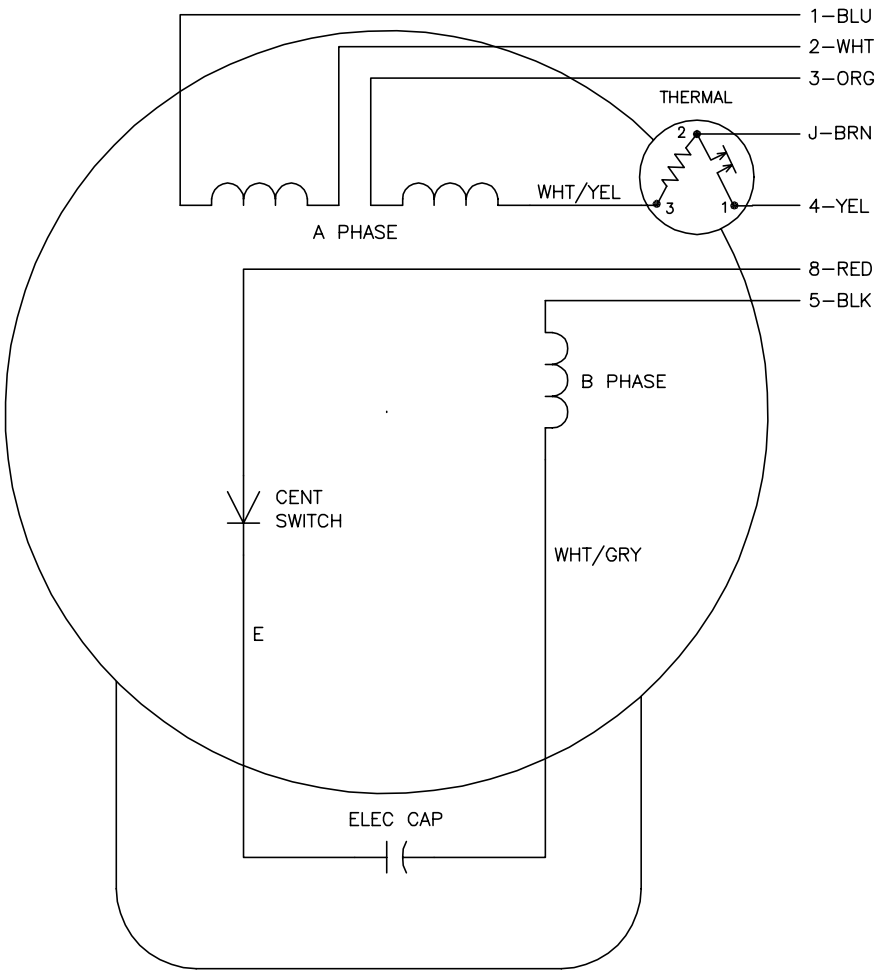


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CD0008



	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			BALDOR ELECTRIC Co.
REV. LTR: F	VERSION: 01	TDR: 000000360649	
8000CD	FILE: \AAA\00007\408	REVISED: 10:56:54 04/18/2005	TYPE L, DV, REV, THERMAL, 7 LEADS
	MTL: –	BY: ENJOEPO	

CD0008

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