

**BALDOR® • RELIANCE** 

**Product Information Packet**

**VL3515-50**

**2HP,2850RPM,1PH,50HZ,56C,3535LC,TEFC,F1**

Part Detail							
Revision:	BD	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGY963	CD Diagram:	CD0055	Mfg Plant:	
Mech. Spec:	35E022	Layout:	35LYE022	Poles:	02	Created Date:	06-21-2007
Base:	N	Eff. Date:	06-28-2021	Leads:	4#16 A PH,2#18 B PH		

Specs			
Catalog Number:	VL3515-50	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	56C	Inverter Code:	Not Inverter
Frame Material:	Steel	KVA Code:	G
Motor Letter Type:	Cap Start, Cap Run	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	2.000 HP @ 50 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	3000 RPM @ 50 HZ	Motor Lead Quantity/Wire Size:	4 @ 16 AWG, A PH
Voltage @ Frequency:	110.0 V @ 50 HZ	Motor Lead Exit:	Ko Box
	220.0 V @ 50 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3535LC
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CE	Power Factor:	96
	CSA	Product Family:	General Purpose
	UR	Pulley End Bearing Type:	Ball
	WEEE	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	RoHS Status:	ROHS COMPLIANT

<b>Bearing Grease Type:</b>	Polyrex EM (-20F +300F)	<b>Shaft Extension Location:</b>	Pulley End
<b>Blower:</b>	None	<b>Shaft Ground Indicator:</b>	No Shaft Grounding
<b>Current @ Voltage:</b>	9.700 A @ 220.0 V	<b>Shaft Rotation:</b>	Reversible
	19.400 A @ 110.0 V	<b>Shaft Slinger Indicator:</b>	No Slinger
<b>Design Code:</b>	L	<b>Speed Code:</b>	Single Speed
<b>Drip Cover:</b>	No Drip Cover	<b>Motor Standards:</b>	NEMA
<b>Duty Rating:</b>	CONT	<b>Starting Method:</b>	Direct on line
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Thermal Device - Bearing:</b>	None
<b>Feedback Device:</b>	NO FEEDBACK	<b>Thermal Device - Winding:</b>	None
<b>Front Face Code:</b>	Standard	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Front Shaft Indicator:</b>	None	<b>Winding Thermal 1:</b>	None
		<b>Winding Thermal 2:</b>	None

Nameplate NP1372L											
CAT.NO.	VL3515-50										
SPEC.	35E22Y963										
HP	2/1.5KW IEC60034-30										
VOLTS	110/220										
AMP	19.4/9.7										
RPM	2850 1/MIN IC411 24KG										
FRAME	56C					HZ	50		PH	1	
SER.F.	1.15					CODE	G	DES	L	CL	F
NEMA-NOM-EFF	77					PF	96				
RATING	40C AMB-CONT										
CC									USABLE AT 208V		
DE	6205					ODE	6203				
ENCL	TEFC					SN					
	IP54										

Parts List		
Part Number	Description	Quantity
SA023819	SA 35E22Y963	1.000 EA
RA019869	RA 35E22Y963	1.000 EA
OC3050C09	CYL OIL CAP 50MFD/240V	1.000 EA
EC1540A06SP	ELEC CAP, 540-648 MFD, 125V, 2.06D X 4.	1.000 EA
WD3006A01	RSS-2-103JT 2W 10K RES. METAL OXIDE 5%	1.000 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
35CB3801	CAPACITOR COVER, CAST	1.000 EA
34GS3002	GASKET, CAPACITOR BOX	1.000 EA
HA7010	CAPACITOR RETENTION CLAMP	1.000 EA
NS2501A02	INSULATOR, CAPACITOR BOX	1.000 EA
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	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 GR SR 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

Parts List (continued)		
Part Number	Description	Quantity
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
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 LB
34FN3002A01SP	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.017 GA
34GS5003	FOAM SLEEVE, ID = 2 1/16" X 3 3/8"	2.000 EA
HA3100A18	THRUBOLT 10-32 X 9.250	4.000 EA
HA4067A01	PUSH IN DRAIN FITTING (BLACK)	1.000 EA
HA4067A01	PUSH IN DRAIN FITTING (BLACK)	1.000 EA
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	4.000 EA
SP5181A28	MODEL 35 LC TORQ STAT SWITCH LEAD ASSY	1.000 EA
LC0001A01	CONN LABEL / WARNING LABEL (LC0001 / LB1	1.000 EA
NP1372L	ALUM UL CSA CE CC	1.000 EA
35PA1066	PKG GRP, PRINT PK1008A06	1.000 EA
PK3083	STYROFOAM PACKING CRADLE	1.000 EA
PK3088	MICROFOAM, 8"X"8 PERF. SHEETS	1.000 EA
FE-0000001	ZRTG FE ASSEMBLY	1.000 EA
PE-0000001	ZRTG PE ASSEMBLY	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA

**AC Induction Motor Performance Data**

Record # 20609

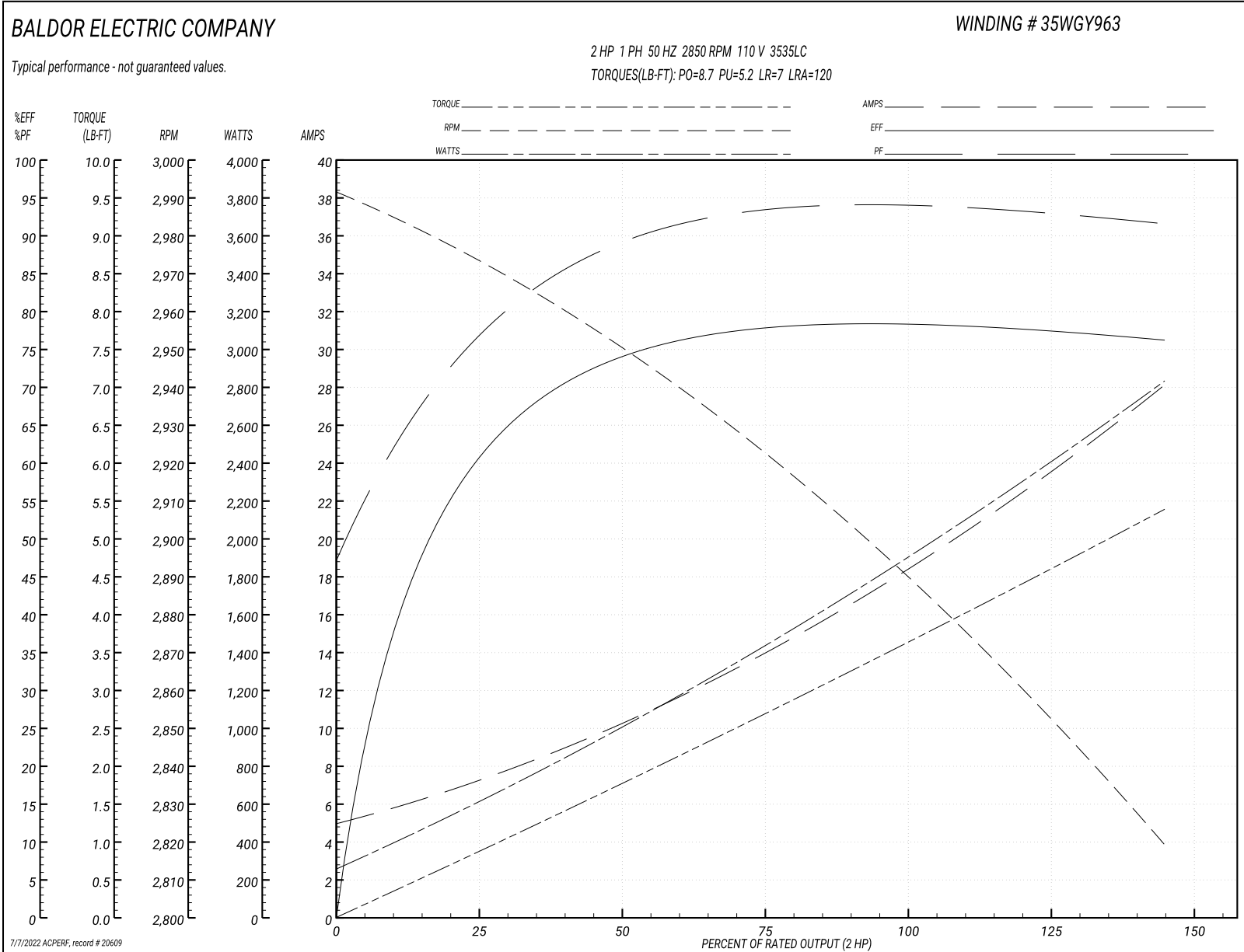
Typical performance - not guaranteed values

<b>Winding:</b> 35WGY963-R002		<b>Type:</b> 3535LC		<b>Enclosure:</b> TEFC	
<b>Nameplate Data</b>			<b>110 V, 50 Hz: Low Voltage Connection</b>		
<b>Rated Output (HP)</b>	2		<b>Full Load Torque</b>	3.6 LB-FT	
<b>Volts</b>	110/220		<b>Start Configuration</b>	direct on line	
<b>Full Load Amps</b>	19.4/9.7		<b>Breakdown Torque</b>	8.7 LB-FT	
<b>R.P.M.</b>	2850		<b>Pull-up Torque</b>	5.2 LB-FT	
<b>Hz</b>	<b>50 Phase</b>	1	<b>Locked-rotor Torque</b>	7 LB-FT	
<b>NEMA Design Code</b>	<b>L KVA Code</b>	G	<b>Starting Current</b>	120 A	
<b>Service Factor (S.F.)</b>	1.15		<b>No-load Current</b>	5 A	
<b>NEMA Nom. Eff.</b>	<b>77 Power Factor</b>	96	<b>Line-line Res. @ 25°C</b>	0.256 Ω A Ph 1.64 Ω B Ph	
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	82°C	

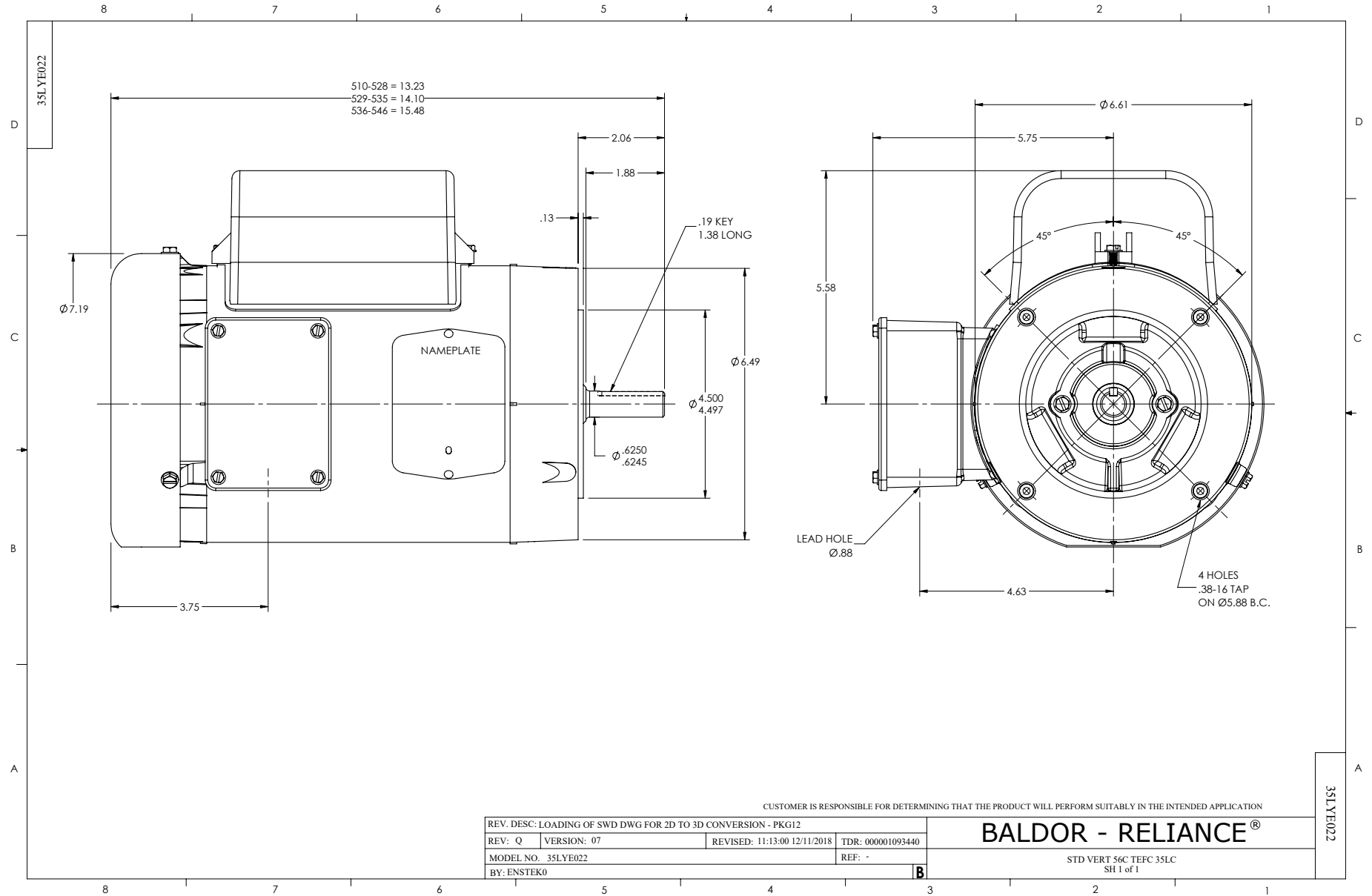
**Load Characteristics 110 V, 50 Hz, 2 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>
<b>Power Factor</b>	78	89	93	94	95	95
<b>Efficiency</b>	60.3	73.4	77.8	78.8	78	75.9
<b>Speed</b>	2972	2948	2922	2893	2859	2817
<b>Line amperes</b>	7.2	10.4	14.1	18.2	22.9	28.2

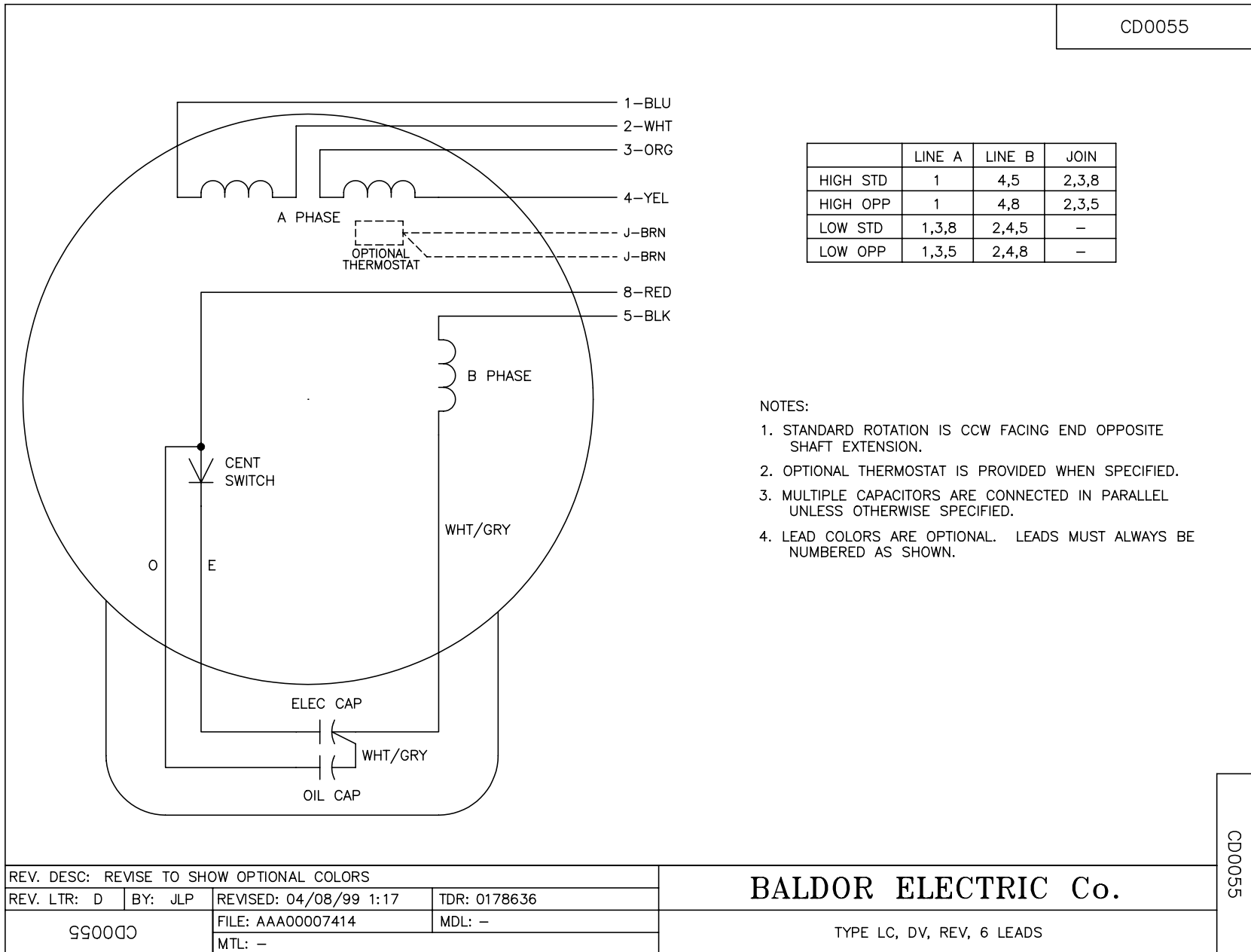
Performance Graph at 110V, 50Hz, 2.0HP Typical performance - Not guaranteed values







CD0055



NOTES:

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

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:17	TDR: 0178636
99000		FILE: AAA00007414	MDL: -
CD0055		MTL: -	

**BALDOR ELECTRIC Co.**

TYPE LC, DV, REV, 6 LEADS

CD0055