ABB BALDOR RELIANCE

Customer information packet

CXL141522T

1.5HP, 3450RPM, 1PH, 60HZ, 143TC, 3530L, XPFC
Class - CLI GP D; CLII GP F,G
Division - Division I

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11/16/2026 4:26:25 AM

Specifications

Enclosure	XPFC
Frame	143TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	1.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	115.0 V @ 60 HZ
	208.0 V @ 60 HZ
Agency Approvals	CSA
	UL
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	16.000 A @ 115.0 V
	8.000 A @ 230.0 V
	8.500 A @ 208.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	70.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WG0093
Layout	35LYS818
Eff. date	02-22-2024
CD Diagram	CD0001
Poles	02
Leads	4#16 A PH,2#18 B PH
Proprietary	False
Created date	04-23-2021

High Voltage Full Load Amps	8.0 a
Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3530L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.10 IN
Power Factor	82
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3450 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1426XPSL							
NO.		**CC**					
SER.							
SPEC.	35-0000-1107						
CAT.NO.	CXL141522T						
HP	1.5	**T. CODE**	T3C				
VOLTS	115/208-230						
AMPS	16/8.5-8						
RPM	3450						
HZ	60	**PH**	1	**CL**	F		
SER.F.	1.15	**DES**	L	**CODE**	J		
RATING	40C AMB-CONT						
FRAME	143TC	**NEMA-NOM-EFF**	70				
		PF	82				
BLANK	NEMA MG-1 PART 5, IP54						

AC Induction Motor Performance Data
Record # 88062
Typical performance - not guaranteed values

Winding: 35WG0199-R001	**Type:** 3528L	**Enclosure:** XPFC

Nameplate Data				**115 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			1.5	**Full Load Torque**	2.26 LB-FT
Volts			115/208-230	**Start Configuration**	Unknown
Full Load Amps			16/8.5-8	**Breakdown Torque**	5.73 LB-FT
R.P.M.			3450	**Pull-up Torque**	3.83 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	5.02 LB-FT
NEMA Design Code	L	**KVA Code**	J	**Starting Current**	71.1 A
Service Factor (S.F.)			1.15	**No-load Current**	7 A
NEMA Nom. Eff.	70	**Power Factor**	82	**Line-line Res. @ 25ºC**	0.269 Ω A Ph 1.13 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	61°C
S.F. Amps			18/9.9-9	**Temp. Rise @ S.F. Load**	71°C
				Locked-rotor Power Factor	87.2
				Rotor inertia	0.083 lb-ft²

Load Characteristics 115 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	51	69	79	84	87	88	86
Efficiency	60.3	73	77.4	78.8	78.6	77.2	78.7
Speed	3570	3546	3519	3490	3456	3417	3470
Line amperes	7.95	9.69	12	14.7	17.9	21.5	16.6

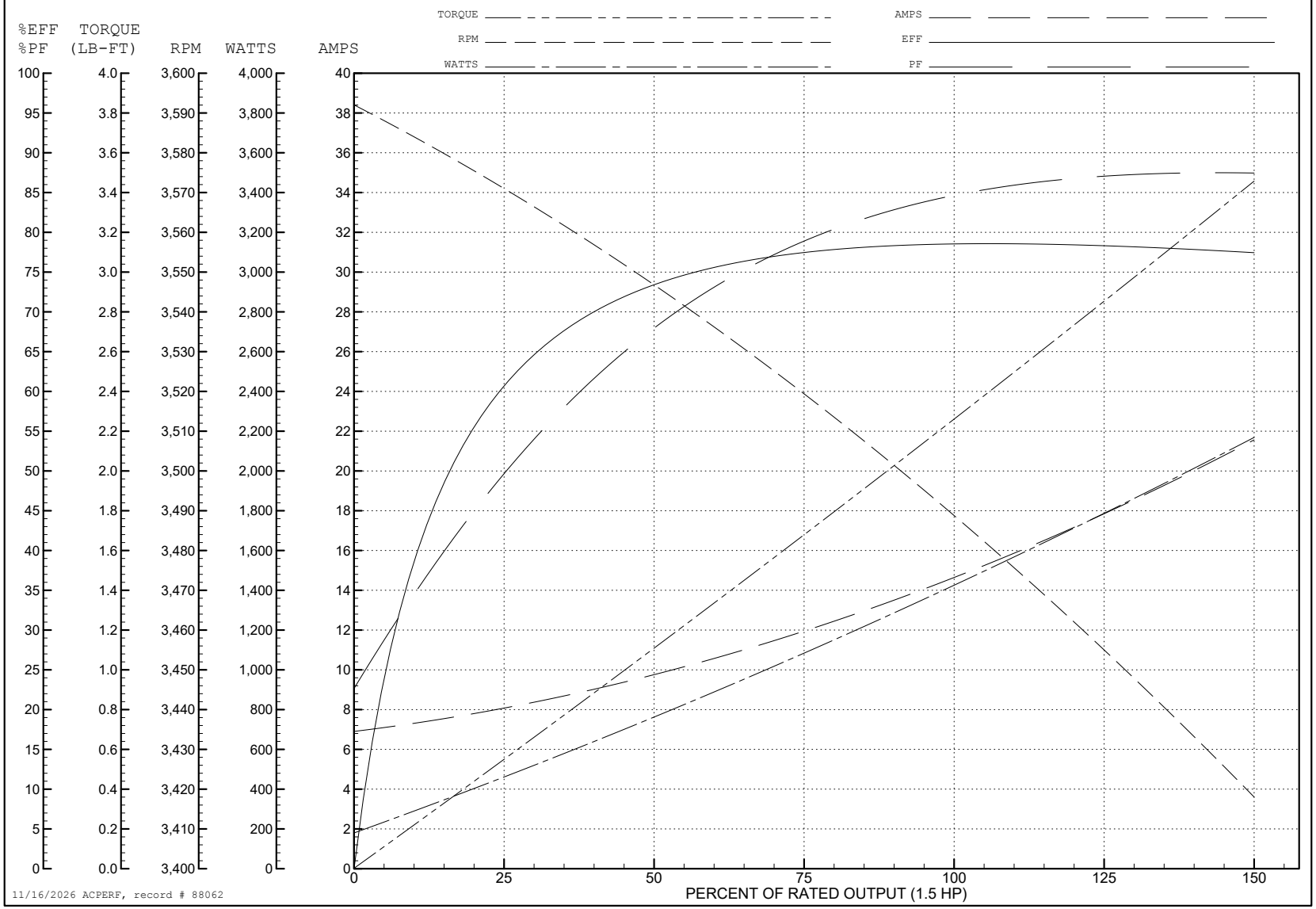
ABB Motors and Mechanical Inc.

WINDING # 35WG0199

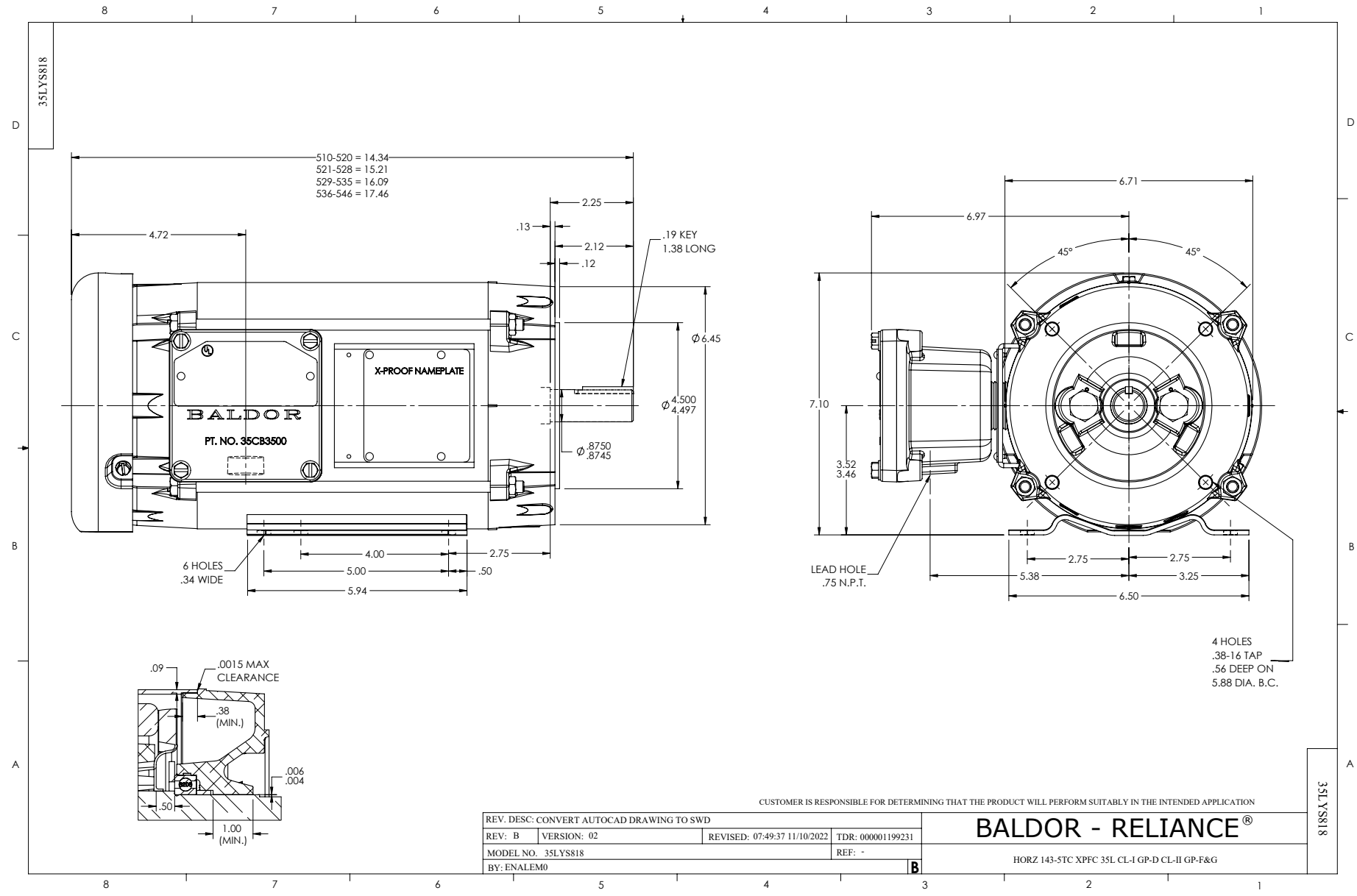
1.5 HP 1 PH 60 HZ 3450 RPM 115 V 3528L

Typical performance - not guaranteed values.

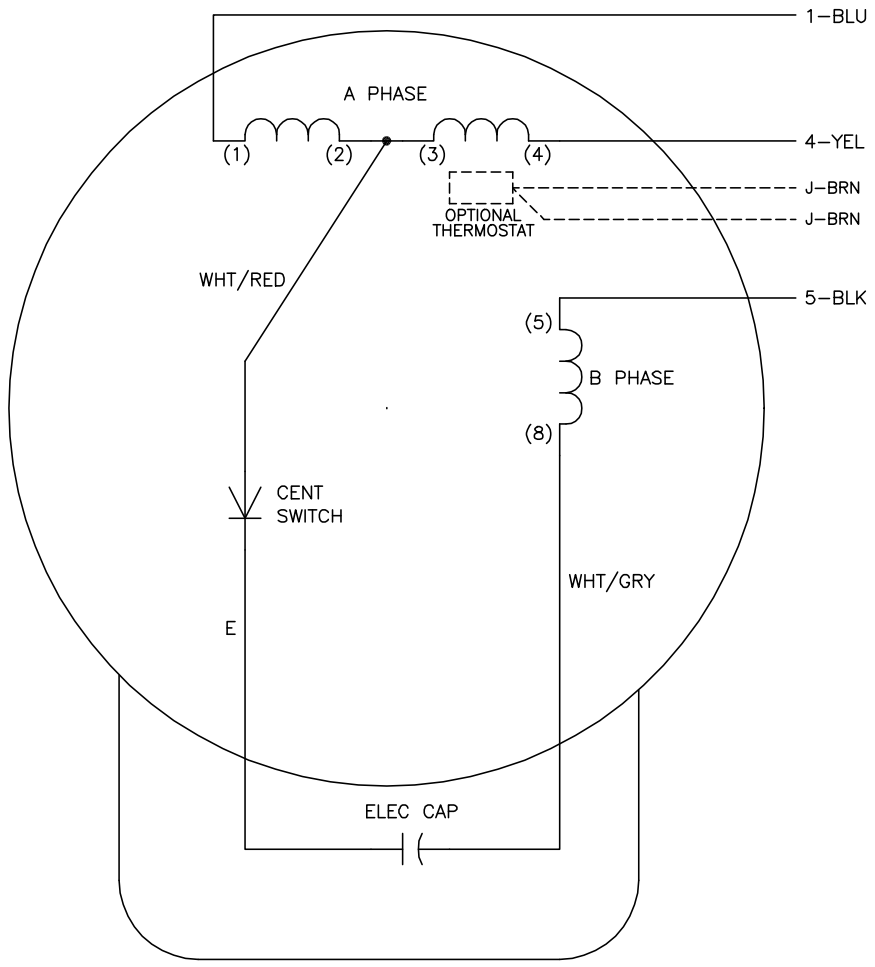
TORQUES(LB-FT): PO=5.73 PU=3.83 LR=5.02 LRA=71.1



11/16/2026 ACPERF, record # 88062


35LYS818
510-520 = 14.34
521-528 = 15.21
529-535 = 16.09
536-546 = 17.46
4.72
2.25
.13
2.12
.12
.19 KEY
1.38 LONG
Ø6.45
Ø4.500
4.497
Ø.8750
.8745
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
6 HOLES
.34 WIDE
4.00
2.75
5.00
.50
5.94
6.71
6.97
45°
45°
7.10
3.52
3.46
LEAD HOLE
.75 N.P.T.
2.75
2.75
5.38
3.25
6.50
4 HOLES
.38-16 TAP
.56 DEEP ON
5.88 DIA. B.C.
.09
.0015 MAX
CLEARANCE
.38
(MIN.)
.006
.004
.50
1.00
(MIN.)
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRAWING TO SWD
REV: B
VERSION: 02
REVISED: 07:49:37 11/10/2022
TDR: 000001199231
MODEL NO. 35LYS818
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 143-5TC XPFC 35L CL-I GP-D CL-II GP-F&G
35LYS818

CD0064A01



	LINE A	LINE B
STD	1	4,5
OPP	1,5	4

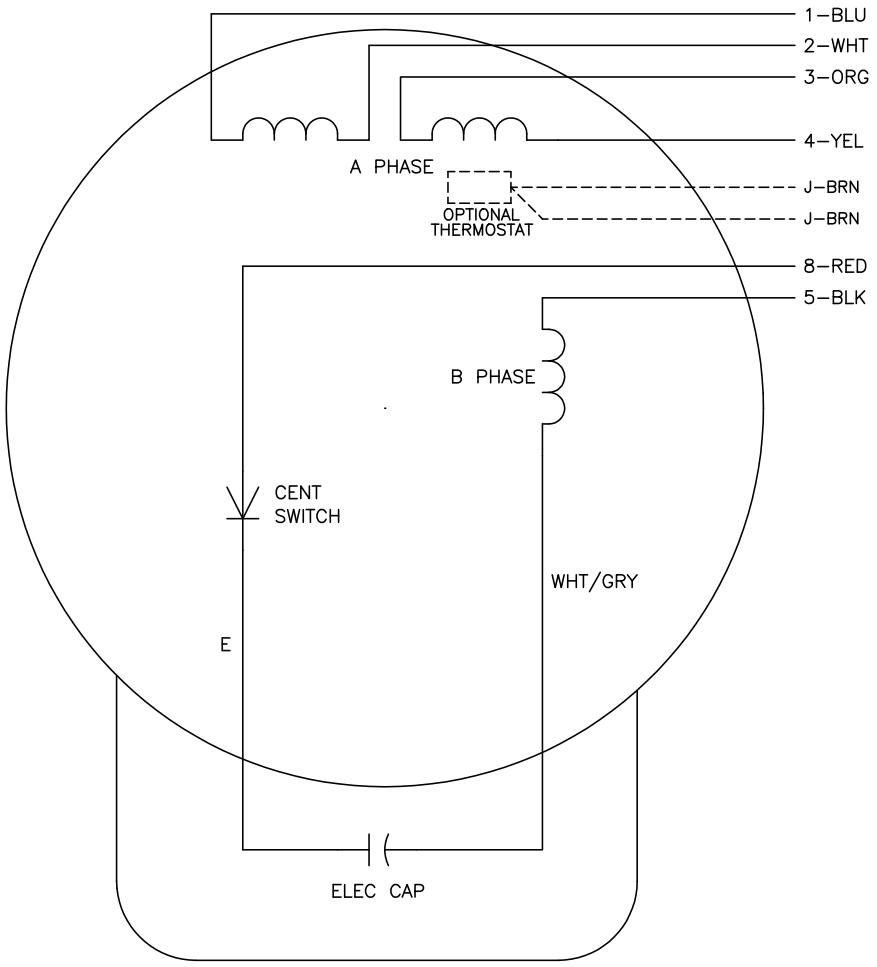
NOTES:

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: ADD OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: B	VERSION: 01	TDR: 000000373051	
CD0064A01	FILE: \AAA\00022\058	REVISED: 10:59:13 09/08/2005	TYPE L, SV, REV, 3 LEADS, HVC OF DV MOTOR
	MTL: –	BY: ENJOEP0	

CD0064A01

CD0001



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

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			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:16	TDR: 0178636
CD0001		FILE: AAA00007405	MDL: –
		MTL: –	TYPE L, DV, REV, 6 LEADS

CD0001